



# Code•Master™ Jr. HID Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

Integrally Ballasted. 50 W, 70 W, 100 W, 150 W HPS; 50 W, 70 W, 100 W, 175 W PSMH. 175 W MH. Medium Base. For Use with Threaded Metal Conduit.






### NEC:

Class I, Division 1 and 2, Groups B♦, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Marine type electric fixtures, outside type  
(salt water)

### CEC:

Class I, Division 1 and 2, Groups B♦, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Type 4X  
Exd IIB + H<sub>2</sub>

### Mounting Hoods

	Hub Size (Inches)	Catalog Number
<b>Pendant — One Hub</b>		
	3/4	<b>CAP-75</b>
	1 ②	<b>CAP-100</b>
<b>Ceiling — Four Hubs, Three Close-Up Plugs</b>		
	3/4	<b>CAC-75</b>
	1 ②	<b>CAC-100</b>
<b>Bracket — Four Hubs, Three Close-Up Plugs</b>		
	3/4	<b>CALB-75</b>
	1 ②	<b>CALB-100</b>
<b>25° Stanchion — One Hub</b>		
	1-1/4 or 1-1/2 ①	<b>CAS-150</b>
<b>Mounting Adapter with Connection Block</b>		
	Permits use of existing A-51 mounting hoods (AAC Ceiling or AALB Bracket) with the new Code•Master 2 Fixture Unit. After removing existing fixture unit and adapter, screw in the new CMAD-1 Adapter. Then thread new fixture unit into the CMAD-1.	
		<b>CMAD-1</b>

### Fixture Units

Ballast body with globe. Indicate voltage desired by adding voltage suffix to fixture unit catalog number listed below.

Type	Lamp Watts	Fixture Unit Number	Add Voltage Suffixes		
			120/208/240/277	120/277/347 ④	480 V
<b>High Pressure Sodium</b> ③ High Power Factor (Min. P.F. 90%)	50	CJB50L-	MT	TTCN	—
	70	CJB70L-	MT	TTCN	48
	100	CJB100L-	MT	TTCN	48
	150	CJB150L-	MT	TTCN	48
<b>Pulse Start Metal Halide</b> Constant Wattage (Min. P.F. 90%)	50	CJB50H-	MT	TTCN	—
	70	CJB70H-	MT	TTCN	48
	100	CJB100H-	MT	TTCN	48
	175	CJB175P-	MT	TTCN	48
<b>Metal Halide</b> Constant Wattage (Min. P.F. 90%)	175	CJB175H-	MT	TT	C6

① 1-1/2" Tapped hub furnished with 1-1/2" to 1-1/4" reducer.

② Mounting Hoods with 1" hub listed for Class I, Group D; Class II, Groups E,F,G; and Class III only.

③ Add suffix **-R** for "Hot Restrike" and **-S** for "Smart Starter" options.

④ Change voltage suffix **-TTCN** to **-MTCN** for 120/208/240/277 V, **-C2** for 208 V, **-C3** for 240 V, **-C6** for 480 V, or **-C7** for 600 V. These voltage suffixes have CSA Certification only.

⑤ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

♦ Shaded area indicates items suitable for Class I, Division 1, Group B.

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Class III  
Marine type electric fixtures, outside type  
(salt water)

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Class III  
Type 4X  
Exd IIB + H<sub>2</sub>

Description		Catalog Number
Polyester Reflectors		
		Standard Dome 30° Angle
Standard Dome		
Three-Way Exit Sign		Epoxy enameled steel — 6"-high red lettering Mounts to Code•Master Jr. fixture units in place of guard.
		
Single Sided Exit Sign		Epoxy enameled steel — 6"-high red lettering Mounts to Code•Master Jr. fixture units in place of guard.  *Contact your sales representative regarding hazardous location suitability.
		
Prismatic Glass Globe and Ring Assembly — 50 W through 175 W		
		CJGL-175
Aluminum Guards — 50 W through 175 W		
		CJGU-15
Replacement Sockets — 50 W through 175 W		
		Medium base sockets
Connection Block — 50 W through 175 W		For all Code•Master fixtures
		
HPS Hot Restrike		
Restrikes HPS lamp immediately when power is restored after a momentary power interruption. Optional for fixture watts of 50, 70, 100 or 150 (HPS only)		Add suffix -R
Smart Starter		
Smart Starter is for HPS fixtures only. Incorporates a 1-1/2-minute timer and performs as a conventional starter to normally start lamp. Removes itself from circuit if lamp burns out or is removed from socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location which reduces maintenance and repair costs. Optional for all HPS and PSMH fixtures.		Add suffix -S

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Type 4X  
Exd IIB + H<sub>2</sub>

Lamp		Ballast Amps				Fuse Quantity Required	Fuse Kit Catalog Number		
		High Pressure Sodium HX—H.P.F. ①		Pulse Start Metal Halide HX—H.P.F. ① — Super CWA ②			HPS	PSMH	MH ④
Watts	Volts	Start	Operating	Start	Operating				
50	120	0.58	0.58	0.87	0.60	1	CF-5	CF-3	—
	208	0.35	0.33	0.51	0.40	2	CF-3	CF-3	—
	240	0.31	0.29	0.47	0.35	2	CF-3	CF-2	—
	277	0.25	0.25	0.32	0.32	1	CF-2	CF-2	—
	347 ③	—	—	—	—	—	—	—	—
	480	—	—	—	—	—	—	—	—
70	120	0.90	0.82	0.80	0.85	1	CF-5	CF-5	—
	208	0.50	0.48	0.50	0.52	2	CF-3	CF-3	—
	240	0.44	0.41	0.43	0.44	2	CF-3	CF-3	—
	277	0.35	0.36	0.39	0.39	1	CF-2	CF-2	—
	347 ③	0.30	0.30	0.20	0.28	1	CF-2	CF-2	—
	480	0.21	0.21	0.26	0.23	2	CF-2	CF-2	—
100	120	1.30	1.15	1.20	1.15	1	CF-8	CF-8	—
	208	0.76	0.67	0.70	0.70	2	CF-5	CF-5	—
	240	0.66	0.58	0.61	0.58	2	CF-5	CF-3	—
	277	0.60	0.50	0.55	0.50	1	CF-3	CF-3	—
	347 ③	0.45	0.30	0.40	0.40	1	CF-2	CF-2	—
	480	0.33	0.31	0.30	0.35	2	CF-3	CF-2	—
150	120	2.00	1.66	—	—	1	CF-10	—	—
	208	1.16	0.96	—	—	2	CF-5	—	—
	240	1.00	0.83	0.85	0.80	2	CF-5	CF-5	—
	277	1.00	0.83	—	—	1	CF-5	—	—
	347 ③	0.52	0.56	0.55	0.65	1	CF-3	—	—
	480	0.88	0.75	—	—	2	CF-5	—	—
175	120	1.30	1.80	0.90	1.78	1	—	CF-5	CF-5
	208	0.75	1.04	0.50	1.08	2	—	CF-3	CF-3
	240	0.65	0.90	0.35	0.89	2	—	CF-3	CF-3
	277	0.55	0.80	0.30	0.76	1	—	CF-2	CF-2
	347 ③	0.27	0.65	0.25	0.65	1	—	CF-2	CF-2
	480	0.35	0.45	0.25	0.50	2	—	CF-2	CF-2

Fuse Kit includes fuse, fuse holder and necessary hardware for field installation. Mounts easily in ballast body with one screw. Order one fuse for 120 V and 277 V, and 2 fuses for 208, 240 and 480 V. CF-2 = 2 Amp; CF-3 = 3 Amp; CF-5 = 5 Amp; CF-8 = 8 Amp; CF-10 = 10 Amp

① 35 W through 150 W HPS and 50 W through 100 W PSMH have H.P.F. High Reactance ballasts.

② 175 W PSMH 480 volts has CWA ballast. Multi-tap has Super CWA ballast.

③ 347 V lamp has CSA Certification only.

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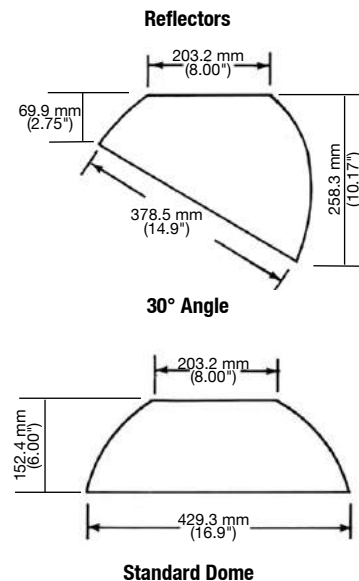
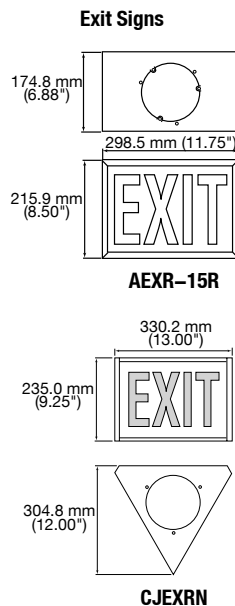
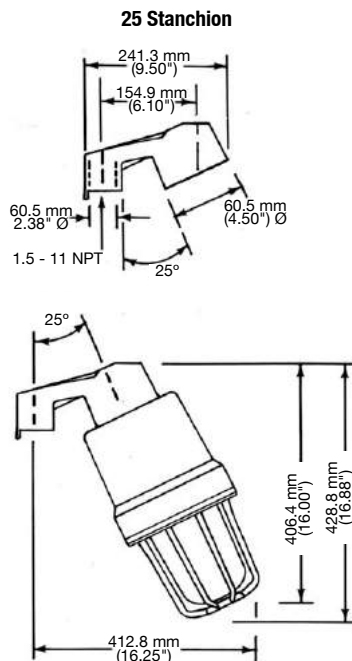
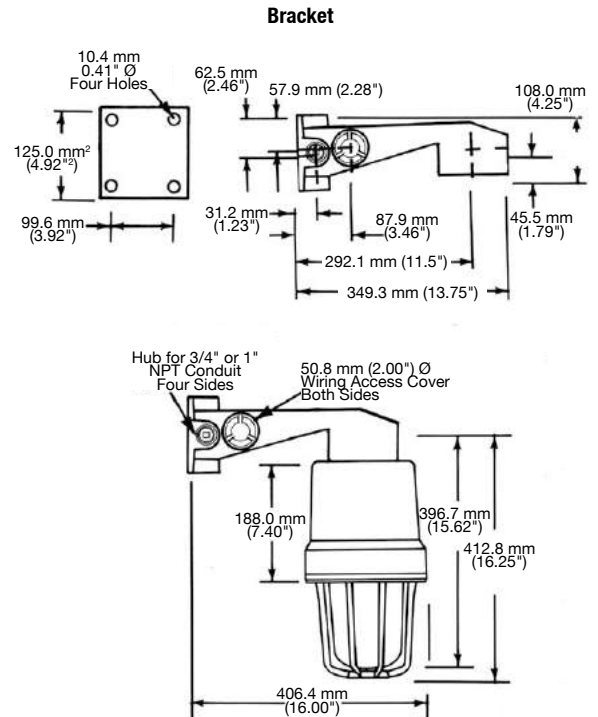
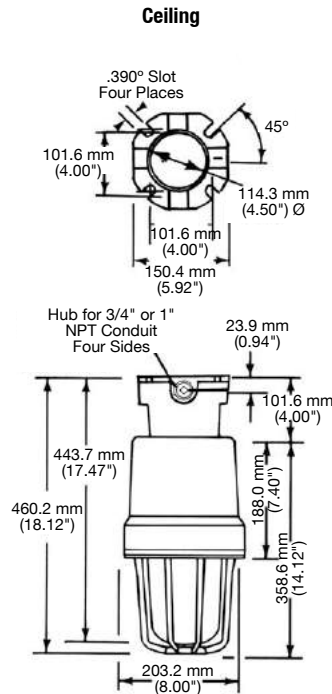
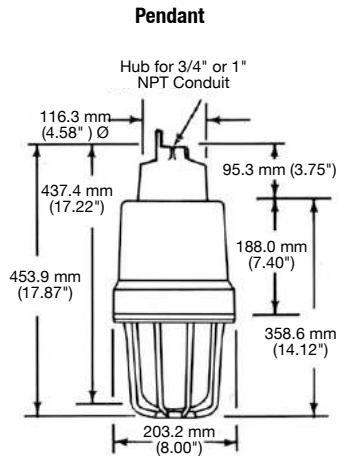
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### Dimensions in Millimeters (Inches)



HID/AREA: NEC/CEC EXPLOSIONPROOF

Appleton

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\* Photometric data is based on a fixture with a 150-watt clear High Pressure Sodium lamp (16,000 lumen), without guard. For candlepower values of fixtures with other HPS lamps, use the following multipliers: for a 100 W (9,500 lumen) HPS lamp – 0.594; for a 70 W (6,400 lumen) HPS lamp – 0.394; for a 70 W (5800 lumen) HPS lamp – 0.363; for a 50 W (4,000 lumen) HPS lamp – 0.25; for a 35 W (2,250 lumen) HPS lamp – 0.141. For candlepower values of fixture with guard, multiply by 0.95.

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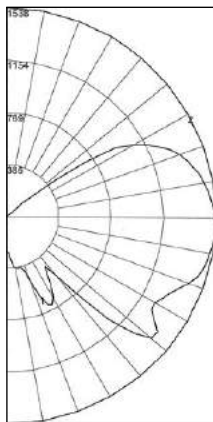
### CEC:

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Class II, Division 1 and 2, Groups E, F, G  
Class III  
Type 4X  
Exd IIB + H<sub>2</sub>

### HPS Photometric Data

Zone	Lumens	Total Luminaire Efficiency = 77.5%
0-10	32.97	CIE Type – General Diffuse
10-20	119.16	
20-30	313.87	
30-40	349.57	
40-50	804.55	
50-60	1193.29	
60-70	1327.33	
70-80	1576.23	
80-90	1672.01	
90-100	1647.69	
100-110	1507.22	
110-120	1221.25	
120-130	607.81	
130-140	27.17	
140-150	1.62	
150-160	0.35	
160-170	0.07	
170-180	0.02	

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	465.99	2.9	3.8
0-40	815.56	5.1	6.6
0-60	2813.41	17.6	22.7
0-90	7388.98	46.2	59.6
90-120	4376.17	27.4	35.3
90-130	4983.97	31.1	40.2
90-150	5012.76	31.3	40.2
90-180	5013.20	31.3	40.4
180-0	12402.18	77.5	100.0



### REPORT NUMBER: CJL15G

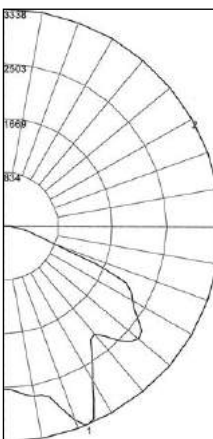
Lamps: 150 W High Pressure Sodium lamp with Globe only \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20																						
% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
	0	85	85	85	85	79	79	79	79	69	69	69	59	59	59	50	50	50	46			
	1	72	66	61	57	67	61	57	53	52	49	45	44	41	38	36	34	32	28			
	2	64	55	48	42	58	51	44	39	43	38	33	35	31	28	29	26	23	19			
	3	57	47	39	33	52	43	36	30	36	30	26	30	25	21	24	20	17	14			
	4	51	40	32	26	47	37	30	24	31	25	21	25	21	17	20	16	13	10			
	5	46	35	27	21	42	32	25	20	27	21	17	22	17	14	18	14	11	8			
	6	42	31	23	18	39	29	22	17	24	18	14	20	15	11	16	12	9	6			
	7	39	28	20	15	36	26	19	14	21	16	12	18	13	10	14	10	7	5			
	8	36	25	18	13	33	23	17	12	19	14	10	16	11	8	13	9	6	4			
	9	33	23	16	11	31	21	15	10	18	12	9	15	10	7	12	8	6	4			
	10	31	21	14	10	29	19	13	9	16	11	8	13	9	6	11	7	5	3			

Zone	Lumens	Total Luminaire Efficiency = 66.9%
0-10	249.34	CIE Type – Direct
10-20	810.25	
20-30	1450.35	
30-40	1495.68	
40-50	1920.69	
50-60	2259.61	
60-70	1846.14	
70-80	541.69	
80-90	125.07	
90-100	0.70	
100-110	0.00	
110-120	0.00	
120-130	0.00	
130-140	0.00	
140-150	0.00	
150-160	0.00	
160-170	0.00	
170-180	0.00	

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	2509.94	15.7	23.5
0-40	4005.62	25.0	37.4
0-60	8185.92	51.2	76.5
0-90	10698.82	66.9	100.0
90-120	0.70	0.0	0.0
90-130	0.70	0.0	0.0
90-150	0.70	0.0	0.0
90-180	0.70	0.0	0.0
180-0	10699.52	66.9	100.0



### REPORT NUMBER: CJL15T

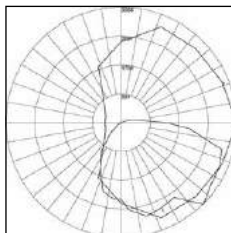
Lamps: 150 W High Pressure Sodium lamp with Standard Dome Reflector

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20																						
% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0	80	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67			
	73	69	66	64	63	71	68	65	63	65	63	61	62	61	59	60	59	57	56			
	66	60	55	51	51	64	59	54	51	56	53	49	54	51	48	52	49	47	46			
	59	52	46	42	42	58	51	46	41	49	44	41	47	43	40	45	42	39	38			
	54	45	39	35	35	52	45	39	34	43	38	34	41	37	33	40	36	33	31			
	49	40	34	29	29	48	39	33	29	38	33	29	37	32	28	35	31	28	27			
	45	36	30	25	25	44	35	29	25	34	29	25	33	28	24	32	27	24	23			
	42	32	26	22	22	40	32	26	22	31	25	21	30	25	21	29	24	21	20			
	39	29	23	19	19	38	29	23	19	28	23	19	27	22	19	26	22	19	17			
	36	27	21	17	17	35	26	21	17	25	20	17	25	20	17	24	20	17	15			
10	34	24	19	15	15	33	24	19	15	23	19	15	23	18	15	22	18	15	14			

Zone	Lumens	Total Luminaire Efficiency = 61.8%
0-10	58.31	CIE Type – Direct
10-20	482.43	
20-30	904.49	
30-40	1163.85	
40-50	1479.08	
50-60	1630.56	
60-70	1467.51	
70-80	1258.91	
80-90	1077.10	
90-100	153.91	
100-110	155.65	
110-120	52.23	
120-130	8.33	
130-140	0.10	
140-150	0.00	
150-160	0.00	
160-170	0.00	
170-180	0.00	

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	1445.23	9.0	14.6
0-40	2609.08	16.3	26.4
0-60	5718.73	35.7	57.8
0-90	9522.24	59.5	96.3
90-120	361.80	2.3	3.7
90-130	370.13	2.3	3.7
90-150	370.23	2.3	3.7
90-180	370.23	2.3	3.7
180-0	9892.48	61.8	100.0



### REPORT NUMBER: CJL15A

Lamps: 150 W High Pressure Sodium lamp with 30° Angle Dome Reflector

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20																						
% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0		73	73	73	73	71	71	71	71	67	67	67	64	64	64	61	61	61	60			
1		64	59	55	52	61	58	54	51	54	51	49	51	49	47	49	47	45	43			
2		56	50	44	40	54	48	43	39	46	41	38	43	39	36	41	38	35	33			
3		51	43	36	31	49	41	36	31	39	34	30	37	33	29	35	31	28	27			
4		46	37	30	25	44	36	30	25	34	29	24	32	28	24	30	26	23	22			
5		42	32	26	21	40	32	25	21	30	25	20	28	24	20	27	23	19	18			
6		38	29	22	18	37	28	22	18	27	21	17	25	21	17	24	20	17	15			
7		35	26	20	15	34	25	19	15	24	19	15	23	18	15	22	17	14	13			
8		33	23	17	13	31	23	17	13	22	17	13	21	16	13	20	16	12	11			
9		30	21	16	12	29	21	15	12	20	15	11	19	14	11	18	14	11	10			
10		28	19	14	10	27	19	14	10	18	13	10	17	13	10	17	13	10	9			

# Code•Master™ Jr. HID Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Photometric data is based on a fixture with a 175-watt clear Pulse Start Metal Halide lamp (14,000 lumen), without guard. For candlepower values of fixtures with other PSMH lamps, use the following multipliers: for a 100 W (8,500 lumen) PSMH lamp – 0.607; for a 70 W (5,000 lumen) PSMH lamp – 0.357. For candlepower values of fixture with guard, multiply by – 0.95.

### NEC:

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Class III  
Type 4X  
Exd IIB + H<sub>2</sub>

### PSMH Photometric Data

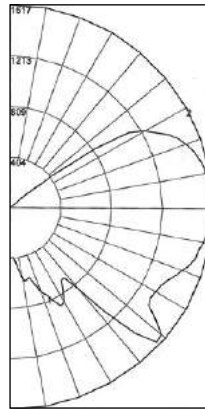
**Zone Lumens Total Luminaire Efficiency = 77.8%**

CIE Type – General Diffuse

Zone	Lumens	% Lamp	% Fixture
0-10	46.64		
10-20	176.99		
20-30	380.01		
30-40	480.30		
40-50	1042.35		
50-60	1252.88		
60-70	1378.40		
70-80	1611.81		
80-90	1741.68		
90-100	1758.28		
100-110	1643.71		
110-120	1371.76		
120-130	694.24		
130-140	27.13		
140-150	3.14		
150-160	0.67		
160-170	0.08		
170-180	0.03		

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	603.64	3.4	4.4
0-40	1083.94	6.2	8.0
0-60	3379.18	19.3	24.8
0-90	8111.07	46.3	59.6
90-120	4773.75	27.3	35.1
90-130	5467.99	31.2	40.2
90-150	5498.26	31.4	40.2
90-180	5499.05	31.4	40.4
180-0	13610.12	77.8	100.0



REPORT NUMBER: **CJP17G**

Lamps: 175 W Pulse Start Metal Halide with Globe only \*

#### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc		80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
	0	85	85	85	85	79	79	79	79	69	69	69	59	59	59	51	51	51	46			
	1	73	67	62	58	67	62	58	54	53	49	46	45	42	39	37	35	33	29			
	2	64	56	49	43	59	52	45	40	44	39	35	36	32	29	30	27	24	20			
	3	57	48	40	34	53	44	37	31	37	31	27	31	26	22	25	21	18	15			
	4	52	41	33	27	48	38	31	25	32	26	22	26	22	18	21	17	14	12			
	5	47	36	28	22	43	33	26	21	28	22	18	23	18	15	19	15	12	9			
	6	43	32	24	19	40	29	23	18	25	19	15	20	16	12	16	13	10	7			
	7	40	28	21	16	36	26	20	15	22	17	13	18	14	10	15	11	8	6			
	8	37	26	19	14	34	24	17	13	20	15	11	17	12	9	13	10	7	5			
	9	34	23	17	12	31	21	15	11	18	13	9	15	11	8	12	9	6	4			
	10	32	21	15	11	29	20	14	10	17	12	8	14	10	7	11	8	5	4			

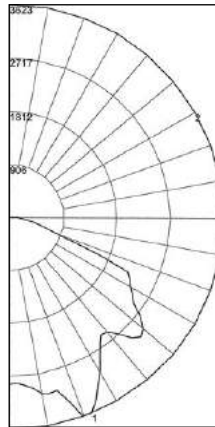
**Zone Lumens Total Luminaire Efficiency = 66.4%**

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.42
90-270	1.42
Diagonal	1.76

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	2763.57	15.8	23.8
0-40	4454.87	25.5	38.3
0-60	9006.31	51.5	77.5
0-90	11622.09	66.4	100.0
90-120	1.23	0.0	0.0
90-130	1.23	0.0	0.0
90-150	1.23	0.0	0.0
90-180	1.23	0.0	0.0
180-0	11623.32	66.4	100.0



REPORT NUMBER: **CJP17ST**

Lamps: 175 W Pulse Start Metal Halide with Standard Dome Reflector \*

#### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc		80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
	0	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	66			
	1	72	69	66	64	70	67	65	63	65	63	61	62	60	59	60	58	57	56			
	2	65	60	55	51	64	58	54	51	56	52	49	54	51	48	52	49	47	46			
	3	59	52	46	42	57	51	46	41	49	44	41	47	43	40	45	42	39	38			
	4	54	46	39	35	52	45	39	35	43	38	34	41	37	34	40	36	33	32			
	5	49	40	34	29	48	40	34	29	38	33	29	37	32	29	35	31	28	27			
	6	45	36	30	25	44	35	29	25	34	29	25	33	28	25	32	28	24	23			
	7	42	32	26	22	41	32	26	22	31	26	22	30	25	22	29	25	21	20			
	8	39	29	23	19	38	29	23	19	28	23	19	27	22	19	26	22	19	18			
	9	36	27	21	17	35	26	21	17	26	21	17	25	20	17	24	20	17	16			
	10	34	25	19	16	33	24	19	16	24	19	15	23	18	15	22	18	15	14			

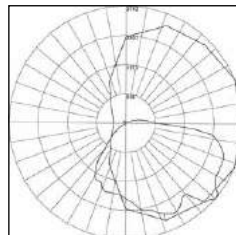
**Zone Lumens Total Luminaire Efficiency = 63.2%**

CIE Type – Direct

Plane	Spacing Criteria
0-180	2.10
90-270	1.60
Diagonal	1.62

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	2220.87	12.7	20.1
0-40	3712.23	21.2	33.6
0-60	7222.13	41.3	65.3
0-90	10593.52	60.5	95.8
90-120	395.41	2.3	3.6
90-130	437.36	2.5	4.0
90-150	452.13	2.6	4.0
90-180	459.54	2.6	4.2
180-0	11053.05	63.2	100.0



REPORT NUMBER: **CJP17AN**

Lamps: 175 W Pulse Start Metal Halide with 30° Angle Dome Reflector \*

#### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50			30			10			0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
	0	75	75	75	75	73	73	73	73	69	69	69	65	65	65	62	62	62	61
	1	66	63	59	56	64	61	58	55	58	55	53	55	53	51	52	50	49	47
	2	60	53	48	44	58	52	47	43	49	45	42	47	43	41	44	42	39	38
	3	54	46	40	36	52	45	40	35	43	38	34	41	37	33	39	35	32	31
	4	49	41	34	30	47	39	34	29	38	33	29	36	31	28	34	30	27	26
	5	45	36	30	25	43	35	29	25	33	28	24	32	27	24	30	26	23	22
	6	41	32	26	22	40	31	26	21	30	25	21	29	24	21	27	23	20	19
	7	38	29	23	19	37	28	23	19	27	22	18	26	21	18	25	21	18	16
	8	35	26	21	17	34	26	20	17	25	20	16	24	19	16	23	19	16	14
	9	33	24	19	15	32	24	18	15	23	18	15	22	17	14	21	17	14	13
	10	31	22	17	13	30	22	17	13	21	16	13	20	16	13	19	15	13	12

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

ATEX/IECEX:  
Zone 2 and 22  
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IP66

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - Marine and wet locations
  - Areas where flammable gases, vapors or combustible dusts are present under conditions defined by the IEC as Zone 2 and 22
  - Applications where energy efficient, high lumen output is required
  - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered
- Typical applications include:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Manufacturing plants
  - Storage areas
  - Waste and sewage treatment
  - Other areas where dust, water, dirt and rough usage are a problem

### Features

- Power supply 230/240 V (+6% - 10%) 50 Hz.
- Instant relighting with auxiliary halogen lamps, depending on model (lamps not supplied).
- Fast relighting for 70 W and 150 W high pressure sodium: 5 to 30 seconds depending on the duration of the mains power supply failure.
- Connection via terminal block — 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>) maximum.
- Superior corrosion-resistance: copperfree die-cast mounting hoods, ballast housing and guards have a gray epoxy powder coat, electrostatically applied for complete and uniform protection.
- Wide choice of light sources: high pressure sodium, metal halide, mercury vapor and incandescent.
- Six mounting arrangements to suit any lighting layout – pendant, ceiling, wall bracket, angled or straight stanchion and pendant cone (for dust applications).
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on ballast housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- All fixtures designed to perform in a -40 °C (-40 °F) ambient temperature up to +55 °C (+131 °F).
- Standard dome or 30° angle reflectors made of fiberglass reinforced white polyester. Highly resistant to corrosive atmospheres and vented to improve fixture cooling characteristics.
- Fixture housing mounting hoods and guards are die-cast copperfree aluminum with epoxy powder coat finish.
- All exposed hardware is stainless steel and captive. Stainless thread inserts in the ballast bodies prevent “freezing” of the screws that affix guards and reflectors, simplifying removal for service.
- One piece ballast housing for each component provides even heat dissipation for cooler operation and longer ballast life.
- Fixture bodies are provided with two silicone rubber O-Ring style gaskets that will stay flexible and assure even compression around their circumference. They easily withstand high temperatures, moisture, dirt and dust for worry free operation.



Low Profile Ceiling Mount with Prismatic Globe and Optional Guard



50–200 Watt 25° Stanchion Mount with Prismatic Globe



50–200 Watt 90° Stanchion Mount with Prismatic Globe and Optional Guard



400 Watt Straight Stanchion Mount with Prismatic Glass Globe and Optional Guard

### Standard Materials

- Mounting hoods and ballast bodies: die-cast copperfree (4/10 of 1% max.) aluminum
- Hardware and catch assemblies: stainless steel
- Globe: heat and impact resistant internally fluted glass
- Gasket: high temperature silicon
- Reflector: fiberglass reinforced polyester
- Guards: polyester powder coat finished cast copperfree aluminum (LN1 and LN2 sizes) or stainless steel (LN3 and LN4 sizes)

### Standard Finishes

- Mounting hoods, ballast bodies and guards: epoxy powder coat finish, electrostatically applied for complete, uniform surface protection
- Reflectors: white polyester finish

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

### ATEX/IECEX Certifications and Compliances

- Certification Type: LN
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: II 3 G
    - Type of Protection: Ex nR IIC Gc
- Certification Type: LN
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: II 3 D
    - Type of Protection: Ex tc IIIC Dc

- Ambient Temperature: +40 °C to +55 °C (+104 °F to +131 °F)
- CE Declaration of Conformity: 50217
- ATEX Certificate: LCIE 08 ATEX 6036X
- IECEx Certificate: IECEx LCI 10.0041X
- Index of Protection according EN/IEC 60529: IP66

### EURASEC Certification

- EURASEC N° TC RU C-FR.1505.B.00912

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide for LN Series Luminaires

LN	1	A	H	70	A	G2	XA	P
Series: LN - LN Series Zone 2 and 22 ATEX/IECEX Certified		Mounting: A - Pendant (Rigid Mounting) C - Ceiling D - Pendant Cone F - Pendant (Flexible Mounting) R - Straight Stanchion S - 25° Stanchion W - Wall		Lamp Wattage: 70 - 70 W 80 - 80 W 85 - 85 W Induction only 10 - 100 W 12 - 125 W 15 - 150 W 25 - 250 W 40 - 400 W		Globe: G2 - Glass Globe VPGL-2HR G4 - Glass Globe VPGL-4HR		Options: P - PTFE Coating
	Body Size: 1 - Size 1 (MLBG) 2 - Size 2 (KPB) 3 - Size 3 (KPBR) 4 - Size 4 (KPB400)	Lamp Type ①: H - Metal Halide L - High Pressure Sodium M - Mercury Vapor Q - Induction Z - Halogen/ Incandescent			Hub Size: A - M20 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT 5 - 1-1/2" NPT		Voltage (Magnetic Ballast): XA - 220 Vac, 50 Hz XJ - 230/240 Vac, 50 Hz	

HID/AREA: ATEX/IECEX RESTRICTED BREATHING DUST

Appleton®

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

T Rating (Gas) and Surface Temperature (Dust) Table Rating

		Gas			Dust	
		Zone 2 T Rating Ambient Temperatures			Zone 22 Surface Temperature for Ambient T° = +55 °C (+131 °F)	
		+40 °C (+104 °F)	+50 °C (+122 °F)	+55 °C (+131 °F)	Dust Surface	Cable
<b>Lamp Wattage/Type</b>						
70 W HPS	T Rating	<b>T4</b>	<b>T4</b>	<b>T4</b>	+113 °C (+235 °F)	—
100 W HPS	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
100 W Incandescent	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
100 W Halogen	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
125 W Mercury	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
150 W HPS	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
150 W Halide	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
150 W Incandescent	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
150 W Halogen	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
250 W HPS	T Rating	<b>T4</b>	<b>T4</b>	<b>T3</b>	+137 °C (+279 °F)	—
250 W Halide	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
250 W Mercury	T Rating	<b>T4</b>	<b>T3</b>	<b>T3</b>	+143 °C (+289 °F)	—
400 W HPS	T Rating	<b>T3</b>	<b>T3</b>	<b>T3</b>	+167 °C (+333 °F)	+89 °C (+192 °F)
	Cable T°	—	+84 °C (+183 °F)	+89 °C (+192 °F)		
400 W Halide	T Rating	<b>T3</b>	<b>T3</b>	<b>T3</b>	+171 °C (+340 °F)	+87 °C (+189 °F)
	Cable T°	—	+82 °C (+180 °F)	+87 °C (+189 °F)		
400 W Mercury	T Rating	<b>T3</b>	<b>T3</b>	<b>T3</b>	+171 °C (+340 °F)	+89 °C (+192 °F)
	Cable T°	—	+84 °C (+183 °F)	+89 °C (+192 °F)		

“T” Numbers Represent the Maximum Lamp Temperature Locations and Maximum Surface Temperature Under Dust Blanket.







“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22. High Pressure Sodium

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

	Lamp Type	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pendant							
	HPS	1 x 3/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1AL702G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2AL102G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2AL152G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3AL252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4AL402G4XJ
Pendant Cone							
	HPS	1 x 3/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1DL702G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2DL102G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2DL152G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3DL252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4DL402G4XJ
Ceiling							
	HPS	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1CL70AG2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2CL10AG2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2CL15AG2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3CL25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4CL40AG4XJ
Wall							
	HPS	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1WL70AG2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2WL10AG2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2WL15AG2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3WL25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4WL40AG4XJ
25° Angled Stanchion							
	HPS	1 x 1- 1/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1SL704G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2SL104G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2SL154G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3SL254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4SL404G4XJ
Straight Stanchion							
	HPS	1 x 1- 1/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1RL704G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2RL104G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2RL154G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3RL254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4RL404G4XJ


HID/AREA: ATEX/IECEX RESTRICTED BREATHING DUST

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# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22. Incandescent/Halogen

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

	Lamp Type	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
Pendant							
	Inc./ Halogen	1 x 3/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	LN1AZ102G2
			150	E27	7.4 (16.31)	39.0 (2379.93)	LN1AZ152G2
Pendant Cone							
	Inc./ Halogen	1 x 3/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	LN1DZ102G2
			150	E27	7.4 (16.31)	39.0 (2379.93)	LN1DZ152G2
Ceiling							
	Inc./ Halogen	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	100	E27	7.4 (16.31)	39.0 (2379.93)	LN1CZ10AG2
			150	E27	7.4 (16.31)	39.0 (2379.93)	LN1CZ15AG2
Wall							
	Inc./ Halogen	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	100	E27	7.4 (16.31)	39.0 (2379.93)	LN1WZ10AG2
			150	E27	7.4 (16.31)	39.0 (2379.93)	LN1WZ15AG2
25° Angled Stanchion							
	Inc./ Halogen	1 x 1-1/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	LN1SZ104G2
			150	E27	7.4 (16.31)	39.0 (2379.93)	LN1SZ154G2
Straight Stanchion							
	Inc./ Halogen	1 x 1-1/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	LN1RZ104G2
			150	E27	7.4 (16.31)	39.0 (2379.93)	LN1RZ154G2







HID/AREA: ATEX/IECEX RESTRICTED BREATHING DUST

Appleton®

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22. Mercury Vapor

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

	Lamp Type ①	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pendant							
	MV	1 x 3/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	LN1AM122G2XJ
			250	E40	14.0 (30.86)	70.0 (4271.66)	LN3AM252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4AM402G4XJ
Pendant Cone							
	MV	1 x 3/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	LN1DM122G2XJ
			250	E40	14.0 (30.86)	70.0 (4271.66)	LN3DM252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4DM402G4XJ
Ceiling							
	MV	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E27	7.4 (16.31)	39.0 (2379.93)	LN1CM12AG2XJ
			250	E40	14.0 (30.86)	70.0 (4271.66)	LN3CM25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4CM40AG4XJ
Wall							
	MV	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E27	7.4 (16.31)	39.0 (2379.93)	LN1WM12AG2XJ
			250	E40	14.0 (30.86)	70.0 (4271.66)	LN3WM25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4WM40AG4XJ
25° Angled Stanchion							
	MV	1 x 1-1/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	LN1SM124G2XJ
			250	E40	14.0 (30.86)	70.0 (4271.66)	LN3SM254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4SM404G4XJ
Straight Stanchion							
	MV	1 x 1-1/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	LN1RM124G2XJ
			250	E40	14.0 (30.86)	70.0 (4271.66)	LN3RM254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4RM404G4XJ

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22. Metal Halide

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66





	Lamp Type ①	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pendant							
	MH	1 x 3/4" NPT	150	E40	9.0 (19.84)	55.0 (3356.31)	LN2AH152G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3AH252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4AH402G4XJ
Pendant Cone							
	MH	1 x 3/4" NPT	150	E40	9.0 (19.84)	55.0 (3356.31)	LN2DH152G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3DH252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4DH402G4XJ
Ceiling							
	MH	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E40	9.0 (19.84)	55.0 (3356.31)	LN2CH15AG2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3CH25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4CH40AG4XJ
Wall							
	MH	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E40	9.0 (19.84)	55.0 (3356.31)	LN2WH15AG2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3WH25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4WH40AG4XJ
25° Angled Stanchion							
	MH	1 x 1-1/4" NPT	150	E40	9.0 (19.84)	55 (3356.31)	LN2SH154G2XJ
			250	E40	16.0 (35.27)	70 (4271.66)	LN3SH254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4SH404G4XJ
Straight Stanchion							
	MH	1 x 1-1/4" NPT	150	E40	9.0 (19.84)	55 (3356.31)	LN2RH154G2XJ
			250	E40	16.0 (35.27)	70 (4271.66)	LN3RH254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4RH404G4XJ

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

		Item	Description	Catalog Number
White Polyester Reflectors				
For Globe Fixtures – LN1 and LN2 sizes				
			Standard Dome	KR2-ST
			30° Angle	KR2-AN
For Glass Refractor Fixtures – LN3 and LN4 sizes				
			Standard Dome	CMR-4ST
			30° Angle	CMR-4AN
Guards				
For Globe Fixtures – LN1 and LN2 sizes				
			Aluminium	KRGU2
For Glass Refractor Fixtures – LN3 and LN4 sizes				
			Stainless Steel	KPGU400

HID/AREA: ATEX/IECEX RESTRICTED BREATHING DUST

Appleton®

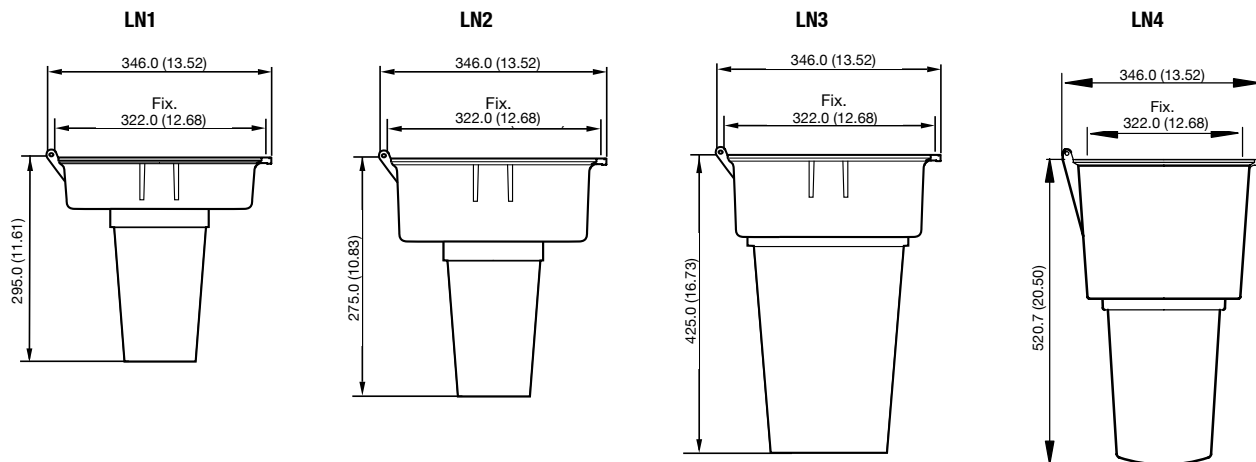
# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

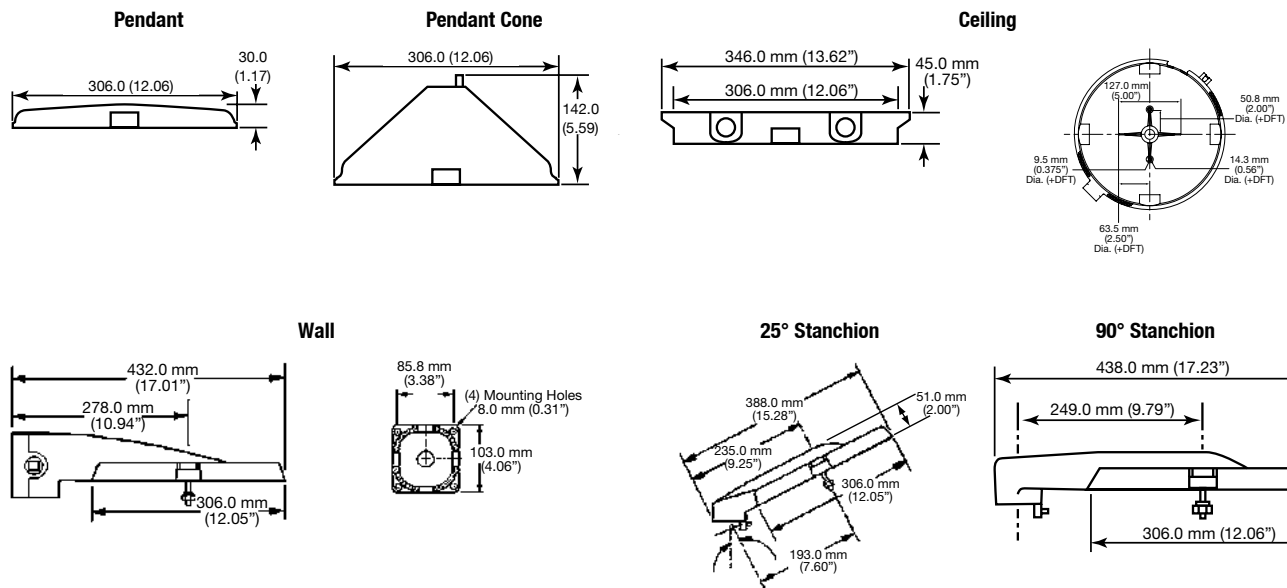
ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

### Dimensions in Millimeters (Inches)

#### Ballast Body with Globe



#### Mounting Hoods



# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

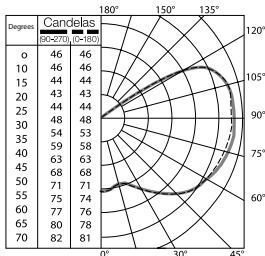
### Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

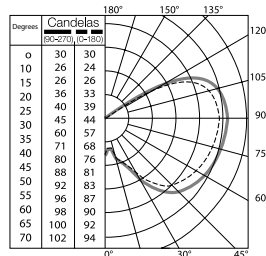
--- Longitudinal  
— Transverse

### High Pressure Sodium

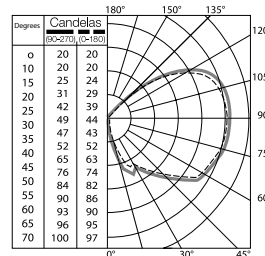
70 W HP Sodium — Efficiency 74.6%



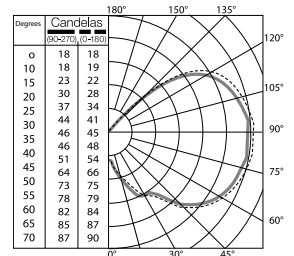
150 W HP Sodium — Efficiency 87.3%



250 W HP Sodium — Efficiency 89.1%

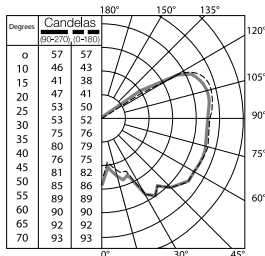


400 W HP Sodium — Efficiency 82.3%

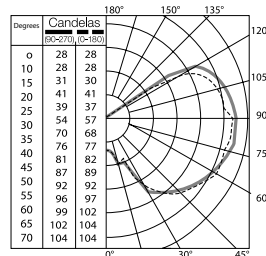


### Metal Halide

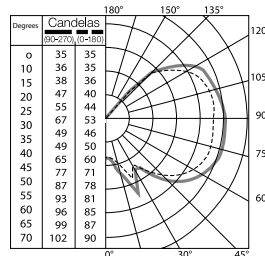
150 W Metal Halide — Efficiency 82.4%



250 W Metal Halide — Efficiency 96.2%

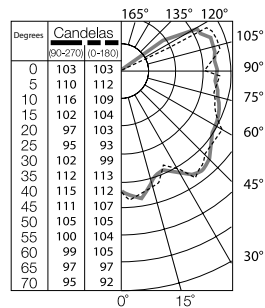


400 W Metal Halide — Efficiency 89.8%



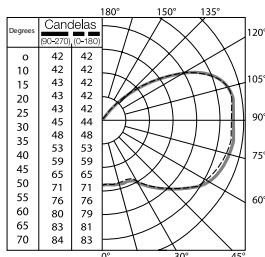
### Incandescent or Halogen

150 W HP Incandescent Halogen — Efficiency 90.6%



### Mercury Vapor

250 W Mercury Vapor — Efficiency 76%



HID/AREA: ATEX/IECEX RESTRICTED BREATHING DUST

Appleton®

# Baymaster™ Prismatic 250/400 High Bay Luminaires

150 W, 250 W, 400 W HPS.

## NEC/CEC:

Listed for Ordinary (Unclassified) Locations

## Applications

- For illumination of manufacturing, storage, and other indoor areas.

## Features

- Standard Baymaster fixtures operate in +40 °C (+104 °F) ambient temperatures. All units suitable for minimum +90 °C (+194 °F) supply wire.
- High efficiency (up to 78% with 250 W HPS lamps) with exceptionally long lamp life—economical to own and operate.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- Mogul base sockets with spring loaded center contact and heavy gauge screw shell with double lamp grips to prevent lamps from loosening due to vibration.
- Efficient, low glare, compact reflector is UV stabilized, clear, injection molded high-temperature acrylic that provides 15-20% uplight.
- Reflector installs and adjusts to wide, medium, or narrow distribution (without tools) by repositioning spring locks.
- Installation is quick and easy:
  - (1) mount junction box to 3/4" conduit
  - (2) slide ballast onto junction box
  - (3) make connections
  - (4) install lamp
  - (5) snap reflector in place
- Open-top reflector design keeps reflector clean because of thermal barrier and chimney effect, and provides up-light to relieve contrast.

## Standard Materials

- Ballast: finned, aluminum
- Sockets: heavy duty porcelain
- Reflector: acrylic
- Locks: stainless steel

## Standard Finishes

- Ballast: corrosion polyester
- Sockets: nickel plated center contact
- Screws: nickel plated brass

## Options

- All units available with a sensor circuit for automatically lighting an auxiliary safety lamp if a power dip or lamp failure extinguishes the HID lamp.

## NEC/CEC Certifications and Compliances

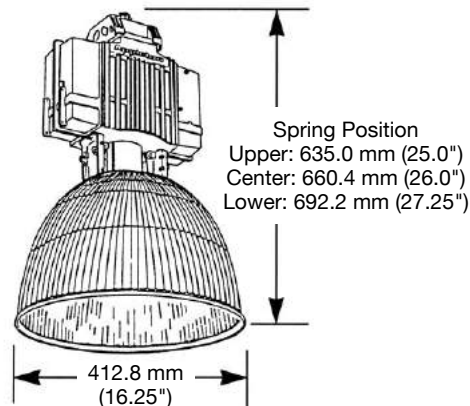
- UL Listed: E109438
- UL Standard: 1598
- CSA Certified: LR9349

## Related Products

- For power hook, fusing and other suspension accessories, see *Fixture Hanger Accessories* page.



## Dimensions in Millimeters (Inches)



# Baymaster™ Prismatic 250/400 High Bay Luminaires

150 W, 250 W, 400 W HPS.


NEC/CEC:

Listed for Ordinary (Unclassified) Locations

## High Pressure Sodium Lamps — Pendant Mounting

Lamp Wattage	Voltage	Catalog Number	
		Complete Assembly ①	Ballast Housing Assembly
150 W	120/208/240/277 V	G-HB41PL-MT	G-HB411L-MT
	120/277/347 V	G-HB41PL-TT ③②	G-HB411L-TT ③②
	480	G-HB41PL-48	G-HB411L-48
250 W	120/208/240/277 V	G-HB61PL-MT	G-HB611L-MT
	120/277/347 V	G-HB61PL-TT ③②	G-HB611L-TT ③②
	480	G-HB61PL-48	G-HB611L-48
400 W	120/208/240/277 V	G-HB71PL-MT	G-HB711L-MT
	120/277/347 V	G-HB71PL-TT ③②	G-HB711L-TT ③②
	480	G-HB71PL-48	G-HB711L-48

## Accessories

	Description	Catalog Number
	16" Prismatic Reflector only.	G-7PR
	16" Prismatic Reflector with clamp band and clear tempered glass lens.	G-7PR-IL ③
	16" Prismatic Reflector with clamp band and prismatic acrylic lens.	G-7PR-ILP ③

① To order fixture complete with lamp, add suffix **-L** to catalog number.

Add suffix **-E** to catalog number if provision for 150 W quartz emergency lamp is desired (lamp not included). Furnished with socket installed and pre-wired.

② Supplied complete with CWA Ballast. For 208, 240, 480 or 600 V CWI applications, change the **-TT** suffix to **-C2**, **-C3**, **-C6** or **-C7** as required.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# Baymaster™ Prismatic 250/400 High Bay Luminaires

150 W, 250 W, 400 W HPS.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

**Electrical Specifications — High Pressure Sodium — All ballasts are C.W.A. type, except 150 W HPS which is HX-Auto**

- Ballast has primary taps for 120, 208, 240 and 277 Volts.

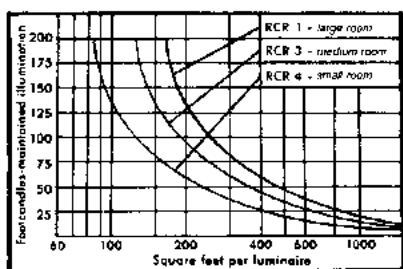
Line Volts	150 Watt			250 Watt			400 Watt		
	Start	Operating	Total Watts	Start	Operating	Total Watts	Start	Operating	Total Watts
120	2.00	1.70	188	2.00	2.50	295	3.30	3.80	465
208	1.15	0.95	188	1.20	1.50	295	1.80	2.20	465
240	1.00	0.85	188	1.00	1.30	295	1.60	1.90	465
277	0.85	0.72	188	0.85	1.10	295	1.40	1.70	465
347 ②	0.52	0.56	188	0.60	0.93	295	1.00	1.32	465
480	0.50	0.47	189	0.40	0.65	295	0.80	1.00	465

## Quick Estimate Illumination Charts ①

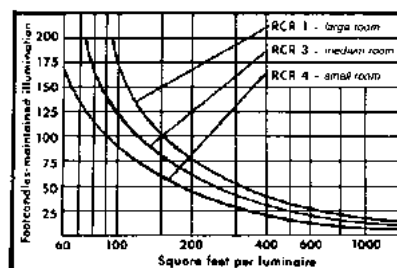
### How to use Quick-Estimate Illumination Chart

1. Refer to "Quick-Estimate Illumination Chart" for the lamp type and wattage to be used.
2. Determine "room size" of area to be lighted. "Small Room" is 232.2 m<sup>2</sup> (2500 ft<sup>2</sup>) or less. "Medium Room" is 232.2 m<sup>2</sup> (2500 ft<sup>2</sup>) thru 929.0 m<sup>2</sup> (10,000 ft<sup>2</sup>). A "Large Room" is 929.0 m<sup>2</sup> (10,000 ft<sup>2</sup>) or more.
3. Find level of light (footcandles) required in vertical column of figures at left of chart. Then follow horizontal line (real or interpolated) to right until it intersects with "Arc" of selected "room size." Come directly down from point of intersection to horizontal line of number "Square Feet Per Luminaire." The resulting number (real or interpolated) is the "number of square feet" one Appleton Baymaster will illuminate to the selected average maintained footcandle level when mounted in conjunction with other units in the high bay installation.
4. Divide number of total square feet in project by "number of square feet per luminaire" to get number of units required.
5. Take square root of resulting "number of square feet per luminaire" number to determine spacing between units.

**400 Watt High Pressure Sodium**



**250 Watt High Pressure Sodium**



① Photometric charts available on request.

② Certified to meet the Canadian Electrical Code (CEC) only.

# Baymaster™ Prismatic 250/400 High Bay Luminaires

150 W, 250 W, 400 W HPS.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

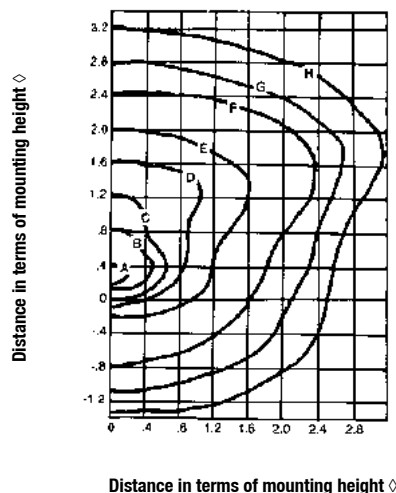
## Photometric Data ①

### Square Steel Poles for Davit Mount Luminaires

Distance (ft) Ahead/ Behind Footcandle	Mounting Height Feet			
	30	40	50	60
165	—	—	.01	.02
160	—	—	.01	.03
155	—	—	.01	.03
150	—	—	.02	.04
145	—	—	.02	.04
140	—	.01	.03	.06
135	—	.01	.03	.09
130	—	.01	.04	.14
125	—	.02	.05	.20
120	—	.03	.06	.27
115	—	.04	.10	.35
110	.01	.05	.17	.46
105	.01	.06	.26	.60
100	.02	.08	.38	.77
95	.03	.10	.54	.93
90	.05	.21	.74	1.13
85	.07	.37	1.00	1.37
80	.10	.60	1.29	1.66
75	.14	.91	1.62	2.02
70	.23	1.35	2.05	2.16
65	.55	1.91	2.69	2.21
60	1.06	2.53	3.07	2.21
55	1.85	3.39	3.17	2.18
50	3.08	4.55	3.19	2.34
45	4.51	4.93	3.16	2.24
40	6.64	4.98	3.23	2.31
35	8.65	4.98	3.18	2.57
30	8.85	5.04	3.63	2.85
25	8.95	5.49	4.10	3.16
20	9.25	6.41	4.64	3.43
15	11.4	7.47	4.95	3.41
10	13.7	7.67	4.83	3.18
5	12.7	6.53	3.93	2.60
0	6.58	3.70	2.37	1.65
-5	1.15	.81	.58	.48
-10	.60	.40	.33	.29
-15	.77	.31	.23	.18
-20	1.13	.43	.21	.15
-25	1.11	.59	.26	.15
-30	.85	.70	.35	.19

### Typical Footcandle Values

400 Watt High Pressure Sodium



400 W HPS		Ft. Candles for Iso-Footcandle Lines							
Mtg. Ht.		A	B	C	D	E	F	G	H
20		29.03	20.21	19.19	8.07	2.39	.39	.17	.04
25		18.58	12.91	12.28	5.16	1.53	.25	.11	.04
30		12.90	8.98	8.53	3.59	1.06	.17	.08	.03
35		9.48	6.60	6.27	2.63	.78	.13	.06	.02
40		7.26	5.05	4.80	2.02	.60	.10	.04	.02
45		5.73	4.00	3.79	1.59	.47	.08	.03	.01

This report has been prepared in accordance with IES guides on testing procedures. It is representative of luminaires tested under standardized and stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field performance.

① Additional photometric charts available on request.

② Distance in terms of mounting height (i.e., ratio) of distance to height. Example: @ 4.6 m (15 ft) mounting height, 1 means 4.6 m (15 ft); 2 means 9.1 m (30 ft), etc.

# Super-Baymaster™ High Bay Luminaires

## High Bay Luminaires for Mill Duty and Corrosive Atmospheres

150 W, 175 W, 250 W, 400 W or 1000 W HPS; 1000 W PSMH; 1000 W MH.

### CEC:

Listed for Ordinary (Unclassified) Locations

### Applications

- For illumination of mills (pulp and paper), manufacturing, storage and other areas where corrosion, moisture or dust present severe problems.
- CSA approved weatherproof (Encl. 3) with open reflector and dust-tight (Encl. 3 and 5) with enclosing lens.
- Will operate safely in temperatures ranging from -40 °C to +65 °C (-40 °F to +149 °F) ambient.

### Features

- Corrosion resistant. All external surfaces of the ballast housing are coated with a heavy-duty epoxy-finish providing durability and resistant to both alkali and acidic atmospheric conditions. To suit specific atmospheric requirements, consult the factory for a suitable finish.
- High efficiency reflectors (up to 76% with 1000 W MH lamps) and exceptionally long HID lamp life make Super-Baymaster luminaires unusually economical to own and operate.
- The Baymaster reflector is a unique design that combines high efficiency with low glare in a compact size.
- Super-Baymaster luminaires are furnished with open reflectors. For enclosed reflectors, clear or prismatic glass are available.
- Pre-wired with high temperature fixture wire, these integral ballasted luminaires are supplied with dual-tap primary for 120 or 240 Volt lines or with 208, 277 or 347 Volt primary. Ballasts are highest quality, Class H insulated, CWA and CWI types, thermally isolated for cooler operating and long life. Grounding wire provided.
- To protect the internal components of the luminaire from corrosive atmospheres all mating surfaces are gasketed.
- Mogul base socket with spring loaded center contact and heavy gauge, screw shell with double lamp grips to prevent lamps from loosening due to vibration.
- Installation is quick and easy:
  - (1) lift ballast assembly onto the hanger hub and rotate 60° until sealed on hub
  - (2) tighten locking nut (hand tight) to secure ballast assembly
  - (3) make supply connections (90° wire) and replace wiring cover
  - (4) snap reflector in place
  - (5) install lamp

### Standard Materials

- Reflector: aluminum
- Sockets: porcelain

### Standard Finishes

- Screws: nickel plated brass
- Housing: epoxy powder coated external surfaces

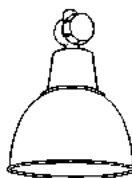
### Options

- Quartz auxiliary: units are available with a pre-wired sensor circuit for automatically lighting a quartz auxiliary lamp when power dip or lamp failure extinguishes the main HID lamp.
- Fuse kits: for grounded systems.
- Lenses: clear or prismatic glass with heavy-duty, stainless steel clips to secure lens to reflector.
- HPS units available with a pulse eliminator which effectively shuts down the ballast assembly when lamp fails.
- Optional finishes may be ordered to suit specific environments in regular or specific colors.



Shown with optional lens: 1000 W

### Dimensions in Millimeters (Inches)

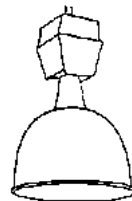


#### Height

530.4 mm (20-7/8"); 150-400 W HPS  
500.1 mm (19-11/16"); 1000 W HPS, PSMH, MH

#### Width

406.4 mm (16"); 150-400 W HPS  
508.0 mm (20"); 1000 W HPS, PSMH, MH



#### Height

736.6 mm (29"); 150-400 W HPS  
787.4 mm (31"); 1000 W HPS, PSMH, MH

#### Width

406.4 mm (16"); 150-400 W HPS  
508.0 mm (20"); 1000 W HPS, PSMH, MH

### CEC Certifications and Compliances

- CSA Certified: 009349
- CSA Standard: C22.2 No. 250.0

### Related Products

- For power hook, fusing and other suspension accessories, see *Fixture Hanger Accessories* page.

# Super-Baymaster™ High Bay Luminaires

## High Bay Luminaires for Mill Duty and Corrosive Atmospheres

150 W, 175 W, 250 W, 400 W or 1000 W HPS; 1000 W PSMH; 1000 W MH.

### CEC:

Listed for Ordinary (Unclassified) Locations

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide for GSB and GSS

GSB	4	1	A	L	C	MT	E
Series: GSB – Super-Baymaster GSS – Super-Baymaster Side by Side	Wattage: 4 – 150 Watt ① 5 – 175 Watt ① 6 – 250 Watt ① 7 – 400 Watt ① 8 – 1000 Watt	Beam Spread: 1 – Narrow (not for 1000 W) 2 – Medium 3 – Wide	Reflector: A – Complete with reflector Blank – Ballast assembly only	Lamp Type: L – High Pressure Sodium H – Metal Halide ② P – Pulse Start Metal Halide ②	Ballast Type: C – CWI A – CWA	Voltage: MT – 120, 208, 240, 277 Volts CWA TT – 120, 277, 347 Volts CWA 208 – 208 Volts RB – Remote Ballast	Voltage: E – Provision for 250 Watt quartz emergency lamp (pre-wired) S – Provision for pulse eliminator F – Fuse for grounded systems (single pole) LC – Gasketed clear lens assembly LP – Gasketed prismatic lens assembly CR – Corrosion resistant epoxy paint on reflector exterior surface

### Accessories and Replacement Parts

	Description	Catalog Number
Wire Guard	With relamp door. Zinc plated	G-HB20-G
Safety Chain	Secures ballast and reflector	G-HB-7000-SC
Wiring Kit	Supplied with 0.91 meters (3 feet) of 600 Volt +90 °C (+194 °F) 3-conductor no. 16 SOW cable and 19.1 mm (3/4") FHMM hook (shipped separately) Add Suffix:	PWK
Sockets	Socket for Metal Halide	SPF-1004
	Socket for High Pressure Sodium	SPF-1001

① Only available in high pressure sodium.

② Only available in 1000 Watt.

# Super-Baymaster™ High Bay Luminaires

## High Bay Luminaires for Mill Duty and Corrosive Atmospheres

150 W, 175 W, 250 W, 400 W or 1000 W HPS; 1000 W PSMH; 1000 W MH.

CEC:

Listed for Ordinary (Unclassified) Locations

### Luminaire Performance — High Pressure Sodium

Distribution ①	150 Watt		175 Watt		250 Watt		400 Watt		1000 Watt	
	Efficiency	Spacing to Mounting Height	Efficiency	Spacing to Mounting Height	Efficiency	Spacing to Mounting Height	Efficiency	Spacing to Mounting Height	Efficiency	Spacing to Mounting Height
Narrow	66.3%	0.5:1	66.3%	0.5:1	68.9%	0.5:1	66.4%	0.5:1	—	—
Medium	71.3%	1.1:1	71.3%	1.1:1	74.4%	1.7:1	71.4%	1.1:1	71.3%	0.7:1
Wide	73.3%	2.0:1	73.3%	2.0:1	78.0%	2.0:1	73.5%	2.0:1	74.4%	1.4:1

### Luminaire Performance — Metal Halide

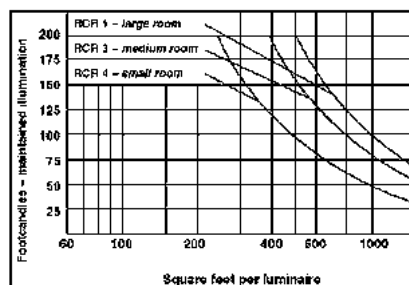
Distribution ①	1000 Watt	
	Efficiency	Spacing to Mounting Height
Narrow	—	—
Medium	76.2%	1.1:1
Wide	75.4%	2.5:1

### Quick Estimate Illumination Charts ②

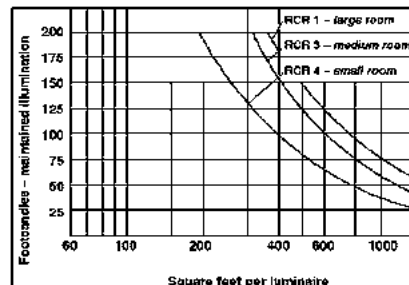
#### How to use Quick-Estimate Illumination Chart

1. Refer to “Quick-Estimate Illumination Chart” for the lamp type and wattage to be used.
2. Determine “room size” of area to be lighted. “Small Room” is 232.2 m<sup>2</sup> (2500 ft<sup>2</sup>) or less. “Medium Room” is 232.2 m<sup>2</sup> (2500 ft<sup>2</sup>) thru 929.0 m<sup>2</sup> (10,000 ft<sup>2</sup>). A “Large Room” is 929.0 m<sup>2</sup> (10,000 ft<sup>2</sup>) or more.
3. Find level of light (footcandles) required in vertical column of figures at left of chart. Then follow horizontal line (real or interpolated) to right until it intersects with “Arc” of selected “room size.” Come directly down from point of intersection to horizontal line of number “Square Feet Per Luminaire.” The resulting number (real or interpolated) is the “number of square feet” one Appleton Baymaster will illuminate to the selected average maintained footcandle level when mounted in conjunction with other units in the high bay installation.
4. Divide number of total square feet in project by “number of square feet per luminaire” to get number of units required.
5. Take square root of resulting “number of square feet per luminaire” number to determine spacing between units.

1000 Watt High Pressure Sodium



1000 Watt Metal Halide



① Reflector adjusts for narrow to medium to wide distribution without tools.

② Photometric charts available on request.

# Wallmaster™ HPS/PSMH Luminaires

## Vertical and Horizontal Wall Mount

50 W, 75 W, 100 W, 150 W HPS; 70 W, 100 W PSMH.

### NEC/CEC:

Listed for Ordinary (Unclassified) Locations

### Applications

- Totally enclosed luminaires for public security installations. Tough polycarbonate refractor provides vandal resistance.
- Ideal where illumination over wide areas adjacent to walls is required. Applications include walkways, parking lots and garages, building exteriors, shopping centers, stores, restaurants, tunnels, underpasses, loading docks, ramps, security lighting areas, entrances and recreational areas.

### Features

- Computer designed optical system. Reflector provides optimum down and out light distribution. Prismatic refractor provides soft light with even distribution, reducing glare.
- Contemporary architectural design with attractive bronze polyester finish. Soft, diffused light enhances the beauty of any architectural setting.
- Enclosed and gasketed for use in wet locations—indoors and out. High temperature neoprene gasketing.
- Easy to maintain. Hinged lens frame swings open (just loosen two captive bolts) for fast, easy relamping and access to internal components.
- Quick, easy installation. Fixture bolts to any flat surface or any standard 76.2 or 101.6 mm (3" or 4") outlet box for vertical mounting.
- High energy efficiency. High pressure sodium lamps use approximately one-fourth as much electrical energy as incandescent lamps.
- Pre-wired, integrally ballasted.
- Complete assemblies available with a choice of ballasts: high reactance high power factor—with or without photocontrol (automatic ON-OFF operation). High power factor ballasts provide a minimum 90% P.F. and are suitable for use in high ambient temperature areas. High reactance high power factor ballasts are single-tap (120 or 480 Vac), dual tap (120/277 Vac) and multi-tap (120-277 Vac). Reactor and reactor high power factor ballasts are 120 Vac.
- Glass thermal barrier in 100 W and 150 W units protects polycarbonate lens from heat for longer lens life.
- Tough, molded polycarbonate refractor provides cool fixture operation.
- Three knockouts provided for conduit and wiring.
- Medium base porcelain socket with spring loaded nickel plated contacts.

### Standard Materials

- Ballast housing and wall bracket: aluminum
- Hinged lens assembly: high Impact, non-solarizing, polycarbonate
- Reflector: aluminum

### Standard Finishes

- Ballast housing, wall bracket: two-coat bronze polyester finish
- Reflector: natural finish

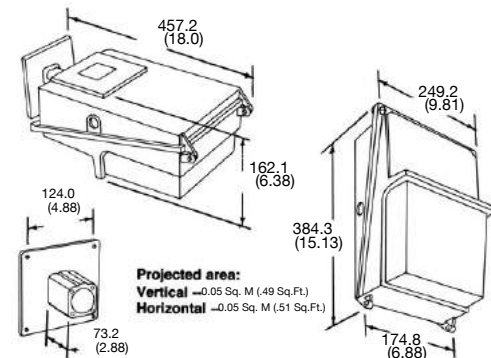
### Options

- Photocontrol provides automatic ON-OFF operation. Order luminaires with **-PC** suffix or add **-PC** suffix to any 120 Volt luminaire catalog numbers.

Note: For multi-tap ballast specify voltage to be used.



### Dimensions in Millimeters (Inches)



### NEC/CEC Certifications and Compliances

- UL Standard: E85142
- UL Standard: 1598
- CSA Certified: LR9349

Appleton®

HID/AREA: NEC/CEC INDUSTRIAL ARCHITECTURAL

# Wallmaster™ HPS/PSMH Luminaires

## Vertical and Horizontal Wall Mount

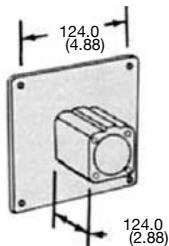
50 W, 75 W, 100 W, 150 W HPS; 70 W, 100 W PSMH.

NEC/CEC:  
Listed for Ordinary (Unclassified) Locations

Description	Line Voltage	Vertical Mount	Catalog Number	
			Horizontal Mount ③	Vertical Mount ④
50-Watt High Pressure Sodium				
Reactor Ballast ①	120 V	G-WM130L-12R	G-WM134L-12R	G-WMM50L-R1 ④
Reactor Ballast, High Power Factor ①	120 V	G-WM130L-12RH	G-WM134L-12RH	G-WMM50L-H1 ④
70-Watt High Pressure Sodium				
High Reactance Ballast, High Power Factor	120/208/240/277 V	G-WM230L-MT	G-WM234L-MT	G-WMM70L-MT ④ ②
High Reactance Ballast, High Power Factor	480 V	G-WM230L-48	G-WM234L-48	—
Reactor Ballast ①	120 V	G-WM230L-12R	G-WM234L-12R	G-WMM70L-R1 ④
Reactor Ballast, High Power Factor ①	120 V	G-WM230L-12RH	G-WM234L-12RH	G-WMM70L-H1 ④
100-Watt High Pressure Sodium				
High Reactance Ballast, High Power Factor	120/208/240/277 V	G-WM330L-MT	G-WM334L-MT	G-WMM10L-MT ④ ②
High Reactance Ballast, High Power Factor	480 V	G-WM330L-48	G-WM334L-48	—
Reactor Ballast ①	120 V	G-WM330L-12R	G-WM334L-12R	G-WMM10L-R1 ④
Reactor Ballast, High Power Factor ①	120 V	G-WM330L-12RH	G-WM334L-12RH	G-WMM10L-H1 ④
150-Watt High Pressure Sodium				
High Reactance Ballast, High Power Factor	120/208/240/277 V	G-WM430L-MT	G-WM434L-MT	—
High Reactance Ballast, High Power Factor	480 V	—	—	—
Reactor Ballast ①	120 V	G-WM430L-12R	G-WM434L-12R	G-WMM15L-R1 ④
Reactor Ballast, High Power Factor ①	120 V	G-WM430L-12RH	G-WM434L-12RH	G-WMM15L-H1 ④
70-Watt Pulse Start Metal Halide				
High Reactance Ballast, High Power Factor	120/208/240/277 V	G-WM230H-MT	G-WM234H-MT	G-WMM70H-MT ④ ②
100-Watt Pulse Start Metal Halide				
High Reactance Ballast, High Power Factor	120/208/240/277 V	G-WM330H-MT	G-WM334H-MT	G-WMM10H-MT ④ ②

### Wall Mounting Kit

Dimensions	Description	Catalog Number
------------	-------------	----------------



Adapts vertical mount fixtures to horizontal position.

**G-WM-HMK**

① Add suffix **-PC** for Photocontrol. Provides automatic dusk-to-dawn ON-OFF operation. Specify voltage to be used with photocell, if used with multi voltage ballast.

② Change the **-MT** suffix to **-TT** for tri-tap 120/277/347 V.

③ Comes with Wall Mounting Kit GWMHMK

④ Vertical Mounting Wallmaster has CSA Certification only.

# Wallmaster™ HPS/PSMH Luminaires

## Vertical and Horizontal Wall Mount

50 W, 75 W, 100 W, 150 W HPS; 70 W, 100 W PSMH.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

Line Voltage	Type of Ballast	Starting Amps	Operating Amps	Total Watts
<b>50-Watt High Pressure Sodium</b>				
120	Reactor	1.80	1.18	60
120	Reactor, High Power Factor	0.75	0.55	60
<b>70-Watt High Pressure Sodium</b>				
120/208/240/277	High Reactance, High Power Factor	0.75/0.35	0.81/0.35	91
480	High Reactance, High Power Factor	0.21	0.21	94
120	Reactor	2.25	1.70	87
120	Reactor, High Power Factor	0.85	0.75	82
<b>100-Watt High Pressure Sodium</b>				
120/208/240/277	High Reactance, High Power Factor	1.30/.60	1.15/0.50	130
480	High Reactance, High Power Factor	0.33	0.31	135
120	Reactor	3.05	2.40	115
120	Reactor, High Power Factor	1.50	1.05	115
<b>150-Watt High Pressure Sodium</b>				
120/208/240/277	High Reactance, High Power Factor	2.00/0.85	1.65/.72	188
480	High Reactance, High Power Factor	0.50	0.47	189
120	Reactor	4.55	3.40	170
120	Reactor, High Power Factor	2.20	1.50	170
<b>70-Watt Pulse Start Metal Halide</b>				
120/208/240/277	High Reactance, High Power Factor	0.80/0.39	0.85/0.39	95
<b>100-Watt Pulse Start Metal Halide</b>				
120/208/240/277	Constant Wattage Auto transformer (CWA)	1.22/0.44	1.15/0.50	128

Appleton®

HID/AREA: NEC/CEC INDUSTRIAL ARCHITECTURAL

# Wallmaster™ HPS/PSMH Luminaires

## Vertical and Horizontal Wall Mount

50 W, 75 W, 100 W, 150 W HPS; 70 W, 100 W PSMH. Data Based on 70 Watt, HPS Clear B-17 Medium Base Lamp (6,300 lumens).

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

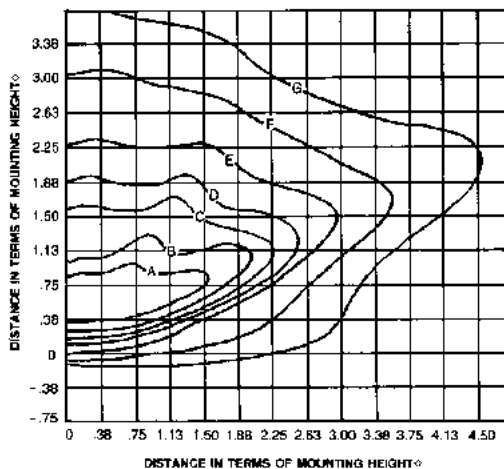
### Photometric Data ①

Ft. Candles for Iso-Footcandle Lines							
Mtg. Ht.	A	B	C	D	E	F	G
6'	5.80	4.80	3.87	2.88	1.94	0.96	0.39
7'	4.22	3.54	2.84	2.14	1.42	0.70	0.29
8'	3.26	2.72	2.17	1.63	1.09	0.54	0.22
10'	2.09	1.73	1.39	1.04	0.70	0.34	0.14
12'	1.45	1.21	0.96	0.72	0.48	0.24	0.10
14'	1.06	0.89	0.71	0.53	0.36	0.18	0.07

Watts	Lumens	Mult.
35	2,250	.357
50	3,500	.556
100	9,500	1.508
150	16,000	2.540

### Typical Footcandle Values

#### 70 W High Pressure Sodium



NOTE: For other HPS, Clear, Med. Base Lamps multiply all footcandle values as follows:

◇ Distance in terms of mounting height (i.e., ratio) of distance to height. Example: @ 4.6 m (15 ft) mounting height, 1 means 4.6 m (15 ft); 2 means 9.1 meters (30 ft), etc.)

① Additional photometric charts available on request.

# Areamaster™ 250/400 Integrally Ballasted Floodlights

## 100 W to 400 W HID

For hazardous and marine locations.

### NEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

### CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Wet locations  
Marine outside type (salt water)  
IP66

## Applications

- Powerful, efficient weatherproof lighting for medium and large areas such as:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Storage areas
  - Waste and sewage treatment
  - Parking garages
  - Other areas where dust, water, dirt and rough usage are a problem

## Features

- Compact in size, attractively styled contemporary design, rugged and dependable.
- Easy to install and service.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- One-piece housing.
- One-piece lens cover. Secured by four 1/4" Dia. captive stainless steel slotted hex-head bolts.
- Thermal shock and impact resistant glass lens.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Heavy duty mogul-base porcelain socket with heavy gauge brass, nickel-plated, double lamp-grip screw shell and springloaded center contact.
- Compound parabolic, double segment, finished aluminum reflector for optimum efficiency.
- Mounting choice:
  - (1) Yoke mount, zinc plated steel yoke with architectural bronze polyester finish
  - (2) Pole mount, built-in slip-fitter, for internal wiring, adjustable laterally and vertically, slip fits 50.8 mm (2.00") thru 63.5 mm (2.50") pipe, architectural bronze polyester finish available for use in CEC governed locations
- Cool operating temperatures translate into long luminaire life.

## Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

## Standard Finishes

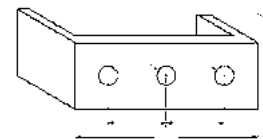
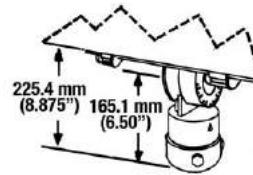
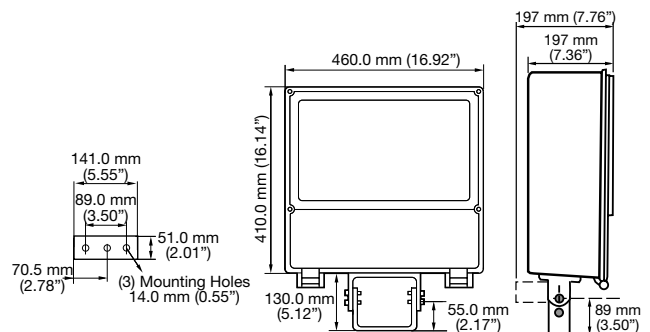
- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: nickel-plated

## Options

- For Division 2 rating, add suffix **I2**.
- For Ex nR/AEx nR version with terminal blocks, add suffix **-Z2**.
- For a fixture with terminal blocks, order the Ex nR/AEx nR version, add suffix **-Z2**.



## Dimensions in Millimeters (Inches)



## NEC/CEC Certifications and Compliances

- Areamaster 250/400
  - Wet locations
  - Marine outside type (salt water)
  - UL Standard: UL 1598, 1598A, 844
  - UL Listed: E10794
  - CSA Standards: C22.2 No. 25, C22.2 No. 94, C22.2 No. 97, C22.2 No. 137
  - CSA Approval: LR25248
- Zone 2 Areamaster 250/400
  - UL Standard: UL 1598, 1598A, 60079-0, 60079-15
  - UL Listed: E10794
  - CSA Standards: E79-0, E79-15
  - CSA Approval: LR25428
  - Index of Protection (solid and liquid): IP66

# Areamaster™ 250/400 Integrally Ballasted Floodlights

100 W to 400 W HID

For hazardous and marine locations.

## NEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

## CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Wet locations  
Marine outside type (salt water)  
IP66

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For Areamaster 250/400 Floodlights

GAM	L37	1	H	MT	FN	I2
Series: Areamaster 250/400 Series		Mounting: 1 - Yoke 5 - Integral Pole Slip-fit for Division 2 Locations Only ⑤①		Voltage: MT - 120/208/240/277 - 60 Hz, CWA TT - 120/277/347 - 60 HZ, CWA ⑤ 48 - 480 - 60 Hz, CWA ⑥② C7 - 600 - 60 Hz, CWI ⑤③ XP - 120/220-240 - 50 HZ, CWA		Hazardous Rating: I2 - Division 2 Z2 - Ex nR/AEx nR
	Wattage: L37 - 100 W HPS L47 - 150 W HPS 57 - 175 W MH ⑤, PSMH 67 - 250 W HPS, MH ⑤, PSMH 327 - 320 W PSMH 77 - 400 W HPS, MH ⑤, PSMH		Lamp Type: H - Metal Halide ⑤ L - High Pressure Sodium P - Pulse Start Metal Halide		Options: E40 - E-40 Socket (self certified) FN - 120V Integral Fuse ⑦ FP - 208V Integral Fuse ⑦ FS - 240V Integral Fuse ⑦ FT - 277V Integral Fuse ⑦ FR - 230V Integral Fuse ⑦ FF - 480V Integral Fuse ⑦ L - HID Lamp Q1 - Photocontrol 120 V ⑤ Q2 - Photocontrol 208-277 V ⑤ Q3 - Photocontrol 347 V ⑤ R - Hot Restrike ④	

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

“T” Numbers Represent the Maximum Surface Temperature for Luminaires with AEx nA nR or AEx nR rating

“T” Number	T1	T2	T3	T4	T5	T6
Temp. Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temp. Range (°F)	547-842	394-572	277-392	214-275	187-212	185

① Slip-fit for 2" to 2-1/2" pole top tenons.

② For CEC 480 V, 60 Hz, consult factory.

③ Not available for PSMH versions.

④ For NEC, “Hot Restrike” option available for 100 W through 150 W HPS only. For CEC, “Hot Restrike” option available for up to 400 W.

⑤ Certified to meet the Canadian Electrical Code (CEC) only.

⑥ Certified to meet the National Electrical Code (NEC) only.

⑦ Optional fusing is available for use with NEC Rated products.

# Areamaster™ 250/400 Integrally Ballasted Floodlights

100 W to 400 W HID

For hazardous and marine locations.

## NEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

## CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Wet locations  
Marine outside type (salt water)  
IP66

## "T" Numbers

Watts	Lamp Type	Voltage	Supply Wire Temp. °C (°F)	Ambient Temp. °C (°F)	NEC/CEC Class I, Division 2, Groups A, B, C, D	CEC Class II, Division 1 and 2, Groups E, F, G	NEC/CEC Class I, Zone 2
100	HPS	MT, TT, XP, 48, C7	75 (167)	40 (104)	T3	T3B	T5
			90 (194)	55 (131)	T2D	—	T4
			105 (221)	65 (149)	T2C	—	T4
150	HPS	MT, TT, XP, 48, C7	90 (194)	40 (104)	T2C	T3B	T4
			105 (221)	55 (131)	T2B	—	T4
			125 (257)	65 (149)	T2B	—	T3
250	HPS	MT, TT, XP, 48, C7	75 (167)	40 (104)	350 °C (662 °F)	T3B	T4
			90 (194)	55 (131)	350 °C (662 °F)	—	T3
			105 (221)	65 (149)	T1	—	T3
400	HPS	MT, TT, XP, 48, C7	105 (221)	40 (104)	T1	T3B	T3
			125 (257)	50 (122)	—	—	T3
175	PSMH	MT, TT, 48	90 (194)	40 (104)	T2	T3B	T4
			105 (221)	55 (131)	325 °C (617 °F)	—	T3
			125 (257)	65 (149)	325 °C (617 °F)	—	T3
250	PSMH	MT, TT, 48	85 (185)	40 (104)	325 °C (617 °F)	T3B	T3
			105 (221)	55 (131)	325 °C (617 °F)	—	T3
			110 (230)	65 (149)	—	—	T3
320	PSMH	MT, TT, 48	90 (194)	40 (104)	325 °C (617 °F)	T3B	T3
			105 (221)	55 (131)	325 °C (617 °F)	—	T3
400	PSMH	MT, TT, 48	105 (221)	40 (104)	325 °C (617 °F)	T3B	T3
			125 (257)	55 (131)	325 °C (617 °F)	—	T3
175	MH ①	MT, TT, CT	90 (194)	40 (104)	T2	120 °C (248 °F)	T4
			105 (221)	55 (131)	325 °C (617 °F)	120 °C (248 °F)	T3
			110 (230)	65 (149)	325 °C (617 °F)	120 °C (248 °F)	T3
250	MH ①	MT, TT, CT	85 (185)	40 (104)	325 °C (617 °F)	120 °C (248 °F)	T3
			105 (221)	55 (131)	350 °C (662 °F)	120 °C (248 °F)	T3
			110 (230)	65 (149)	350 °C (662 °F)	120 °C (248 °F)	T3
400	MH ①	MT, TT, CT	105 (221)	40 (104)	325 °C (617 °F)	120 °C (248 °F)	T3

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Areamaster™ 250/400 Integrally Ballasted Floodlights

100 W to 400 W HID

For hazardous and marine locations.

**NEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

**NEC/CEC:**  
Wet locations  
Marine outside type (salt water)  
IP66

Lamp	Line Voltage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number	
				Class 1, Division 2	Class I, Zone 2 Ex nR/AEx nR
High Pressure Sodium					
100 W HPS	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AML371L-MT-I/2	G-AML371L-MT-Z2
	120/220-240 V 50 Hz			G-AML371L-XP-I/2	G-AML371L-XP-Z2
	480			G-AML371L-48-I/2 ②	G-AML371L-48-Z2 ②
150 W HPS	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AML471L-MT-I/2	G-AML471L-MT-Z2
	120/220-240 V 50 Hz			G-AML471L-XP-I/2	G-AML471L-XP-Z2
	480			G-AML471L-48-I/2 ②	G-AML471L-48-Z2 ②
	120/277/347			G-AML471L-TT-I/2 ③	G-AML471L-TT-Z2 ③
	600 ①			G-AML471L-C7-I/2 ③	G-AML471L-C7-Z2 ③
250 W HPS	120/208/240/277	14.3 (31.5)	62.5 (3814)	G-AM671L-MT-I/2	G-AM671L-MT-Z2
	120/220-240 V 50 Hz			G-AM671L-XP-I/2	G-AM671L-XP-Z2
	480			G-AM671L-48-I/2 ②	G-AM671L-48-Z2 ②
	120/277/347			G-AM671L-TT-I/2 ③	G-AM671L-TT-Z2 ③
	600 ①			G-AM671L-C7-I/2 ③	G-AM671L-C7-Z2 ③
400 W HPS	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM771L-MT-I/2	G-AM771L-MT-Z2
	120/220-240 V 50 Hz			G-AM771L-XP-I/2	G-AM771L-XP-Z2
	480			G-AM771L-48-I/2 ②	G-AM771L-48-Z2 ②
	120/277/347			G-AM771L-TT-I/2 ③	G-AM771L-TT-Z2 ③
	600 ①			G-AM771L-C7-I/2 ③	G-AM771L-C7-Z2 ③

① Supplied complete with CWI Isolated Secondary Ballast for 600 Vac.

② Certified to meet the National Electrical Code (NEC) only.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# Areamaster™ 250/400 Integrally Ballasted Floodlights

100 W to 400 W HID

For hazardous and marine locations.

## NEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

## CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Wet locations  
Marine outside type (salt water)  
IP66

Catalog Number					
Lamp	Line Voltage	Weight kg (lb)	Volume dm³ (in³)	For Class 1, Division 2 Classified Duty and Marine Yoke Mount	Class I, Zone 2 Yoke Mounting
Pulse Start Metal Halide					
175 W PSMH	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AM571P-MT-I/2	G-AM571P-MT-Z2
	480			G-AM571P-48-I/2 ②	G-AM571P-48-Z2
	120/277/347			G-AM571P-TT-I/2 ③	G-AM571P-TT-Z2 ③
250 W PSMH	120/208/240/277	14.3 (31.5)	62.5 (3814)	G-AM671P-MT-I/2	G-AM671P-MT-Z2
	480			G-AM671P-48-I/2 ②	G-AM671P-48-Z2 ②
	120/277/347			G-AM671P-TT-I/2 ③	G-AM671P-TT-Z2
320 W PSMH	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM3271P-MT-I/2	G-AM3271P-MT-Z2 ③
	480			G-AM3271P-48-I/2 ②	G-AM3271P-48-Z2 ②
	120/277/347			G-AM3271P-TT-I/2 ③	G-AM3271P-TT-Z2 ③
400 W PSMH	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM771P-MT-I/2	G-AM771P-MT-Z2
	480			G-AM771P-48-I/2 ②	G-AM771P-48-Z2 ②
	120/277/347			G-AM771P-TT-I/2 ③	G-AM771P-TT-Z2 ③
Metal Halide ④					
175 W MH	120/277/347	12.9 (28.4)	62.5 (3814)	G-AM571H-TT-I/2 ③	G-AM571H-TT-Z2 ③
	120/220-240 V 50 Hz			G-AM571H-XP-I/2 ③	G-AM571H-XP-Z2 ③
	600 ①			G-AM571H-C7-I/2 ③	G-AM571H-C7-Z2 ③
250 W MH	120/277/347	14.3 (31.5)	62.5 (3814)	G-AM671H-TT-I/2 ③	G-AM671H-TT-Z2 ③
	120/220-240 V 50 Hz			G-AM671H-XP-I/2 ③	G-AM671H-XP-Z2 ③
	600 ①			G-AM671H-C7-I/2 ③	G-AM671H-C7-Z2 ③
400 W MH	120/277/347	16.0 (35.3)	62.5 (3814)	G-AM771H-TT-I/2 ③	G-AM771H-TT-Z2 ③
	120/220-240 V 50 Hz			G-AM771H-XP-I/2 ③	G-AM771H-XP-Z2 ③
	600 ①			G-AM771H-C7-I/2 ③	G-AM771H-C7-Z2 ③

① Supplied complete with CWI Isolated Secondary Ballast for 600 Vac.

② Certified to meet the National Electrical Code (NEC) only.

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④ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Areamaster™ 250/400 Integrally Ballasted Floodlights






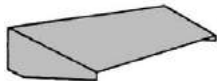
100 W to 400 W HID

For hazardous and marine locations.

**NEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

**CEC:**  
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Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

**NEC/CEC:**  
Wet locations  
Marine outside type (salt water)  
IP66

	Description	Catalog Numbers
<b>Crossarm Mounting Bracket</b>		
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	<b>G-AM-8-CA</b>
<b>Pipe or Wall Mount Bracket</b>		
	Used with G-AM-8-CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-WB</b>
<b>Poletop Slip-Fitter</b>		
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	<b>G-SF20</b>
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-SF</b>
<b>Vandal Shield</b>		
	UV stabilized polycarbonate, with installation hardware and instructions.	<b>G-AM-6-VS</b>
<b>Top Visor</b>		
	Easy to install with hardware supplied. Aluminum, with architectural bronze polyester finish.	<b>G-AM-6-V</b>

HID/FLOODLIGHT: NEC/CEC ENCLOSED AND GASKETED

Appleton®

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Class III

## NEC/CEC:

Wet locations  
Marine outside type (salt water)  
IP66

Line Voltage	Frequency	Type of Ballast	Starting Amps	Operating Amps	Total Watts
<b>100 Watt High Pressure Sodium</b>					
120	60	HX-HPF	1.30	1.15	130
208	60	HX-HPF	0.76	0.67	130
240	60	HX-HPF	0.66	0.60	130
277	60	HX-HPF	0.60	0.52	130
347	60	HX-HPF	0.45	0.39	130
480	60	HX-HPF	0.33	0.31	135
120	50	HX-HPF	0.90	1.20	130
220	50	HX-HPF	0.50	0.65	130
240	50	HX-HPF	0.45	0.60	130
<b>150 Watt High Pressure Sodium</b>					
120	60	HX-HPF	2.00	1.70	188
208	60	HX-HPF	1.15	0.95	188
240	60	HX-HPF	1.00	0.85	188
277	60	HX-HPF	0.85	0.72	188
347	60	HX-HPF	0.52	0.56	188
480	60	HX-HPF	0.50	0.47	189
120	50	HX-HPF	1.50	1.60	188
220	50	HX-HPF	0.85	0.90	188
240	50	HX-HPF	0.75	0.80	188
<b>250 Watt High Pressure Sodium</b>					
120	60	CWA	2.00	2.50	295
208	60	CWA	1.20	1.50	295
240	60	CWA	1.00	1.30	295
277	60	CWA	0.85	1.10	295
347	60	CWA	0.60	0.93	295
480	60	CWA	0.40	0.65	295
120	50	CWA	1.85	2.75	300
220	50	CWA			
240	50	CWA			
<b>400 Watt High Pressure Sodium</b>					
120	60	CWA	3.30	3.80	465
208	60	CWA	1.80	2.20	465
240	60	CWA	1.60	1.90	465
277	60	CWA	1.40	1.70	465
347	60	CWA	1.00	1.32	464
480	60	CWA	0.80	1.00	465
120	50	CWA	3.70	4.00	465
220	50	CWA			
240	50	CWA			
<b>175 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	0.90	1.78	199
208	60	Super CWA	0.50	1.08	199
240	60	Super CWA	0.35	0.89	199
277	60	Super CWA	0.30	0.76	199
347	60	Super CWA	0.25	0.65	208
480	60	Super CWA	0.25	0.50	213
<b>250 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	1.90	2.50	288
208	60	Super CWA	1.10	1.45	288
240	60	Super CWA	0.96	1.25	288
277	60	Super CWA	0.85	1.10	288
347	60	Super CWA	0.62	0.90	291
480	60	Super CWA	0.45	0.60	285
<b>320 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	2.60	3.25	368
208	60	Super CWA	1.50	1.90	368
240	60	Super CWA	1.30	1.65	368
277	60	Super CWA	1.15	1.40	368
347	60	Super CWA	0.70	1.10	368
480	60	Super CWA	0.60	0.80	368
<b>400 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	3.50	4.00	454
208	60	Super CWA	2.00	2.30	454
240	60	Super CWA	1.25	2.00	454
277	60	Super CWA	1.50	1.75	454
347	60	Super CWA	1.10	1.35	452
480	60	Super CWA	0.90	1.00	454
<b>175 Watt Metal Halide ①</b>					
120	60	CWA	1.30	1.80	213
208	60	CWA	0.75	1.10	213
240	60	CWA	0.65	0.90	213
277	60	CWA	0.55	0.80	213
347	60	CWA	0.50	0.65	210
480	60	CWA	0.35	0.45	213
120	50	CWA	1.70	1.90	210
220	50	CWA	0.80	1.10	210
240	50	CWA			
<b>250 Watt Metal Halide ①</b>					
120	60	CWA	1.20	2.60	295
208	60	CWA	0.65	1.50	295
240	60	CWA	0.60	1.30	295
277	60	CWA	0.50	1.12	295
347	60	CWA	0.80	0.90	295
480	60	CWA	0.30	0.65	298
120	50	CWA	2.00	2.50	285
220	50	CWA	0.94	1.30	285
240	50	CWA			
<b>400 Watt Metal Halide ①</b>					
120	60	CWA	3.25	4.00	458
208	60	CWA	1.90	2.30	458
240	60	CWA	1.65	2.00	458
277	60	CWA	1.40	1.75	458
347	60	CWA	1.20	1.40	460
480	60	CWA	0.85	1.00	462
120	50	CWA	2.70	4.10	480
220	50	CWA	1.50	2.20	480
240	50	CWA			

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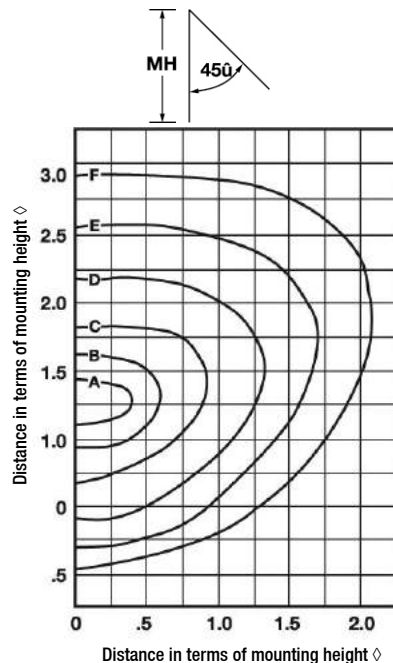
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Class III

**NEC/CEC:**  
Wet locations  
Marine outside type (salt water)  
IP66

## Photometric Data

### Typical Footcandle Values ♦



Mtg. Ht. Meters (feet)	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F
<b>400W HPS</b>						
18.3 m (60')	3.27	2.74	1.82	0.92	0.37	0.18
15.2 m (50')	4.74	4.00	2.90	1.37	0.52	0.27
12.2 m (40')	7.65	6.28	4.38	2.27	0.82	0.43
9.1 m (30')	13.10	10.92	7.83	3.47	1.45	0.77
6.1 m (20')	28.22	25.55	17.37	7.28	3.46	1.82

<b>400W MH ①</b>						
18.3 m (60')	2.32	1.66	1.00	0.58	0.33	0.17
15.2 m (50')	3.32	2.32	1.49	0.76	0.48	0.25
12.2 m (40')	5.48	3.62	2.32	1.33	0.75	0.36
9.1 m (30')	9.79	7.80	3.98	2.16	1.33	0.68
6.1 m (20')	17.26	14.60	9.30	5.31	3.15	1.49

For 400W PSMH multiply FC values by 1.29; for 320W PSMH use 0.97.

<b>400W PSMH</b>						
18.3 m (60')	2.60	1.86	1.12	0.65	0.37	0.19
15.2 m (50')	3.72	2.60	1.66	0.85	0.54	0.28
12.2 m (40')	6.14	4.05	2.60	1.49	0.84	0.40
9.1 m (30')	10.96	8.74	4.46	2.42	1.49	0.76
6.1 m (20')	19.33	16.35	10.41	5.94	3.53	1.67

Mtg. Ht. Meters (feet)	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F
<b>250W HPS</b>						
18.3 m (60')	1.96	1.64	1.09	0.55	0.22	0.11
15.2 m (50')	2.84	2.40	1.74	0.82	0.31	0.16
12.2 m (40')	4.58	3.76	2.62	1.36	0.49	0.26
9.1 m (30')	7.85	6.54	4.69	2.08	0.87	0.46
6.1 m (20')	16.90	15.30	10.40	4.36	2.07	1.09

<b>250W MH ①</b>						
18.3 m (60')	1.40	1.00	0.60	0.35	0.20	0.10
15.2 m (50')	2.00	1.40	0.90	0.46	0.29	0.15
12.2 m (40')	3.30	2.18	1.40	0.80	0.45	0.22
9.1 m (30')	5.90	4.70	2.40	1.30	0.80	0.41
6.1 m (20')	10.40	8.80	5.60	3.20	1.90	0.90

For 175W MH lamps, multiply FC values by 0.68. For 175W PSMH Lamps 0.85; for 200W PSMH use 1.03; for 250W PSMH use 1.22.

<b>250W PSMH</b>						
18.3 m (60')	1.90	1.63	0.82	0.48	0.27	0.14
15.2 m (50')	2.72	1.90	1.22	0.63	0.39	0.20
12.2 m (40')	4.48	2.96	1.90	1.09	0.61	0.30
9.1 m (30')	8.00	6.40	3.26	1.76	1.09	0.55
6.1 m (20')	14.40	11.97	7.61	4.35	2.58	1.22

For 175W MH lamps, multiply FC values by 0.68. For 175W PSMH Lamps 0.85; for 200W PSMH use 1.03; for 250W PSMH use 1.22.

♦ i.e., ratio of distance to height. Example: @ 6.1 meter (20 foot) mounting height, 1 means 6.1 meter (20 foot); 2 means 12.2 meter (40 foot), etc.

♦ Photometric charts available on request.

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# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W HID

For hazardous locations.

**NEC/CEC:**  
Listed for ordinary and marine locations

**NEC – Optional hazardous locations:**  
Class I, Division 2, Groups A, B, C, D

**CEC – Optional hazardous locations:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC

### Applications

- Powerful, efficient weatherproof lighting for large areas such as:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Storage areas
  - Waste and sewage treatment
  - Parking garages
  - Other areas where dust, water, dirt and rough usage are a problem

### Features

- Highly efficient, integrally ballasted floodlight. Has compact, lightweight, yet rugged diecast aluminum construction. Combines architecturally beautiful design with rugged dependability, simple installation and maintenance.
- Easy to install and service.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- One-piece housing.
- One-piece lens cover. Secured by five 1/4" Dia. captive stainless steel slotted hex-head bolts.
- Thermal shock and impact resistant glass lens.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Heavy duty mogul-base porcelain socket with heavy gauge brass, nickel-plated, double lamp-grip screw shell and spring-loaded center contact.
- Compound parabolic, double segment, finished aluminum reflector for optimum efficiency.
- Yoke mount, zinc plated steel yoke with architectural bronze polyester finish.
- 3/4" NPT tapped hub for power entry.

### Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

### Standard Finishes

- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: nickel-plated

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794



Yoke

Projected Area: 3.36 Sq. Ft.

HID/FLOODLIGHT: NEC/CEC ENCLOSED AND GASKETED

 **Appleton**

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Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups II

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For Areamaster 1000 Floodlights

<b>GAM</b>	<b>86</b>	<b>1</b>	<b>H</b>	<b>MT</b>	<b>FN</b>	<b>I2</b>
Series: Areamaster 1000 Series	Wattage: 86 - 1000 W HPS, MH ③, PSMH	Mounting: 1 - Yoke	Lamp Type: H - Metal Halide ③ L - High Pressure Sodium P - Pulse Start Metal Halide	Voltage: MT - 120/208/240/277 - 60 Hz, CWA TT - 120/277/347 - 60 HZ, CWA ③ 48 - 480 - 60 Hz, CWA ④① C7 - 600 - 60 Hz, CWI ③②	Options: E40 - E-40 Socket (self certified) FN - 120V Integral Fuse ④ FP - 208V Integral Fuse ④ FS - 240V Integral Fuse ④ FT - 277V Integral Fuse ④ FF - 480V Integral Fuse ④ L - HID Lamp Q1 - Photocontrol 120 V ③ Q2 - Photocontrol 208-277 V ③ Q3 - Photocontrol 347 V ③	Hazardous Rating: I2 - Division 2 Z - Ex nR ③

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

“T” Numbers Represent the Maximum Surface Temperature for Luminaires with AEx nA nR or AEx nR rating

“T” Number	T1	T2	T3	T4	T5	T6
Temp. Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temp. Range (°F)	547-842	394-572	277-392	214-275	187-212	185

① For CEC 480 V, 60 Hz, consult factory.

② Not for available for PSMH versions.

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# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W HID

For hazardous locations.

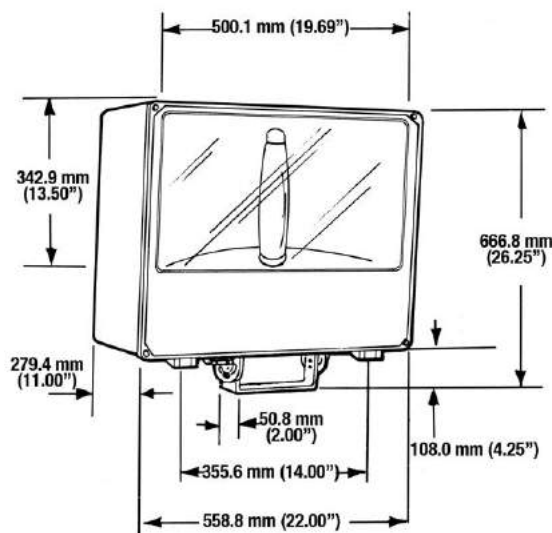
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Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups II

Lamp Watts	Line Voltage	Weight kg (lb)	Volume dm³ (in³)	NEC/CEC Class 1, Division 2 Catalog Number	CEC Class I, Zone 2, Ex nR Catalog Number
High Pressure Sodium					
1000	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM861L-MT-I/2	G-AM861L-MT-Z ②
1000	120/277/347			G-AM861L-TT-I/2 ②	G-AM861L-TT-Z ②
1000	480			G-AM861L-48-I/2	G-AM861L-48-Z ②
1000	600 ①			G-AM861L-C7-I/2 ②	G-AM861L-C7-Z ②
Metal Halide					
1000	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM861H-MT-I/2	G-AM861H-MT-Z ②
1000	120/277/347			G-AM861H-TT-I/2 ②	G-AM861H-TT-Z ②
1000	480			G-AM861H-48-I/2	G-AM861H-48-Z ②
1000	600 ①			G-AM861H-C7-I/2 ②	G-AM861H-C7-Z ②
Pulse Start Metal Halide					
1000	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM861P-MT-I/2 ③	—
1000	480			G-AM861P-48-I/2 ③	—

### Dimensions in Millimeters (Inches)



- ① Supplied complete with CWI Isolated Secondary Ballast for 600 Vac.
- ② Certified to meet the Canadian Electrical Code (CEC) only.
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# Areamaster™ 1000 Floodlights







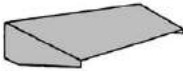
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**CEC – Optional hazardous locations:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups II

	Description	Catalog Numbers
<b>Crossarm Mounting Bracket</b>		
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	<b>G-AM-8-CA</b>
<b>Pipe or Wall Mount Bracket</b>		
	Used with G-AM-8-CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-WB</b>
<b>Poletop Slip-Fitter</b>		
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	<b>G-SF20</b>
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-SF</b>
<b>Locking-Type Photocontrol Receptacle</b>		
	For NEMA type photocontrol, with installation hardware and instructions.	<b>G-1PCR</b>
<b>Vandal Shield</b>		
	UV stabilized polycarbonate, with installation hardware and instructions.	<b>G-AM-8-NVS</b>
<b>Top Visor</b>		
	Easy to install with hardware supplied. Aluminum, with architectural bronze polyester finish.	<b>G-AM-6-NV</b>

HID/FLOODLIGHT: NEC/CEC ENCLOSED AND GASKETED

Appleton®

# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W HID

For hazardous locations.

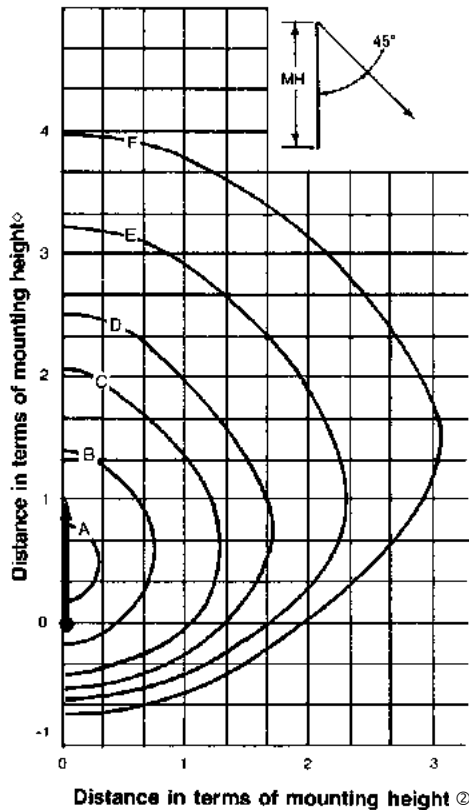
**NEC/CEC:**  
Listed for ordinary and marine locations

**NEC – Optional hazardous locations:**  
Class I, Division 2, Groups A, B, C, D

**CEC – Optional hazardous locations:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups II

### Photometric Data

#### Typical Footcandle Values ①



Mtg. Ht. M (Ft)	Footcandle Values for Iso Footcandle Lines					
	A	B	C	D	E	F
<b>1000W HPS Clear, 140,000 Lumens, Cat. No. G-AM861L-MT</b>						
18.3 (60)	8.0	3.0	1.0	0.5	0.20	0.10
15.2 (50)	11.5	4.6	1.5	0.72	0.27	0.15
12.2 (40)	17.3	6.8	2.4	1.0	0.45	0.21
9.1 (30)	31.5	12	4.1	1.9	0.80	0.30
<b>1000W MH Clear, 110,000 Lumens, Cat. No. G-AM861H-MT</b>						
18.3 (60)	6.0	3	1.0	0.5	0.20	0.10
15.2 (50)	8.2	4.2	1.4	0.8	0.28	0.15
12.2 (40)	12.6	7.9	2.3	1.2	0.42	0.19
9.1 (30)	23.0	11.6	4.0	2.1	0.70	0.25

① Photometric charts available on request.

② i.e., ratio of distance to height. Example: @ 6.1 meters (20 feet) mounting height, 1 means 6.1 meters (20 feet); 2 means 12.2 meters (40 feet), etc.

③ Certified to meet the Canadian Electrical Code (CEC) only.

#### Photometric Data ①

	HPS	MH	PSMH
Horiz. Spread	134°	133°	
Vert. Spread	131°	124°	
Beam Lumens	77,440	62,112	
Beam Effic.	55.3%	56.5%	
Max. CP	40,251	45,909	
Avg. Max. CP	38,396	38,490	
Total Lumens	80,846	66,008	
Total Effic.	57.7%	60.0%	

#### Electrical Specifications

Lamp Type	Line Voltage	Type of Ballast	Starting Amps	Operating Amps	Total Watts
<b>1000 Watt High Pressure Sodium</b>					
HPS	120	CWA	6.35	9.50	1100
HPS	208	CWA	3.80	5.50	1100
HPS	240	CWA	3.20	4.25	1100
HPS	277	CWA	2.75	4.20	1100
HPS	347	CWA	2.20	3.30	1100
HPS	480	CWA	1.80	2.45	1100
<b>1000 Watt Metal Halide</b>					
MH	120	CWA	8.00	9.20	1080
MH	208	CWA	4.60	5.30	1080
MH	240	CWA	4.00	4.60	1080
MH	277	CWA	3.50	4.00	1080
MH	347	CWA	2.50	3.20	1080
MH	480	CWA	2.00	2.30	1080
<b>1000 Watt Pulse Start</b>					
PSMH	120	Super CWA	7.00	9.00	1080
PSMH	208	Super CWA	4.00	5.30	1080
PSMH	240	Super CWA	3.50	4.50	1080
PSMH	277	Super CWA	3.00	3.90	1080
PSMH	480	Super CWA	N/A	N/A	1080

#### T Numbers and Temperature Ratings Areamaster 1000

Fixture Wattage	Fixture Type	T Ratings	Ambient Temp. °C (°F)	T Rating Temperature Range °C (°F)
1000	Class I Div 2	350	40 (104)	301-325 (574-617)
1000 ③	Ex nR IIC	T3	40 (104)	136-200 (277-392)

# Areamaster™ Stainless Steel Floodlights

## Integral Ballast. 250 W, 400 W HPS or PSMH. Mogul Base

For Marine; Class I, Division 2 Hazardous Locations; Class I, Zone 2; and Corrosive Environments.

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2 IIC  
NEMA 4X  
Marine Outside Type (Salt Water)  
Wet Location

**CEC:**  
Class II, Groups E, F, G  
Class III

### Applications

- Powerful, efficient weatherproof lighting for medium and large areas such as chemical plants, refineries, shipboard and marine industrial process areas where severely corrosive agents are present.

### Features

- Compact in size, rugged and dependable.
- Easy to install and service.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- Completely assembled fixture saves installation time and cost.
- Easily removable ballast tray.
- Hinged door.
- Seamless welded construction.
- Can be mounted in any position ranging from lens down to horizontal, lens up.
- Stainless steel latches to allow relamping without tools.
- 3/4" NPT conduit/cable entry.

### Standard Materials

- Fixture body and trunnion arm: 316 stainless steel
- 16 gauge 316 stainless steel
- Lens: thermal-shock-resistant and tempered impact-resistant glass
- Gasket: heavy-duty, high-temperature silicone rubber, firmly seated
- Socket: heavy-duty, mogul base porcelain with heavy gauge brass, nickel-plated, double lamp-grip screw shell and spring-loaded center contact
- Reflector: compound parabolic, double segment, finished aluminum for optimum efficiency



### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844
- UL Listed: E10794
- CSA Standards: C22.2 No. 94, C22.2 No. 137, C22.2 No. 250
- CSA Approval: LR25248

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For Areamaster Stainless Steel Floodlights

<b>GAMS</b>	<b>67</b>	<b>1</b>	<b>L</b>	<b>MT</b>	<b>L</b>	<b>I2</b>
Series: Areamaster Stainless Steel Series	Wattage: 67 - 250 W HPS, PSMH 77 - 400 W HPS, PSMH	Mounting: 1 - Yoke	Lamp Type: L - High Pressure Sodium P - Pulse Start Metal Halide	Voltage: MT - 120/208/240/277 - 60 Hz, CWA TT - 120/277/347 - 60 HZ, CWA ③ 48 - 480 - 60 Hz, CWA ④① C7 - 600 - 60 Hz, CWI ③②	Options: L - HID Lamp Q1 - Photocontrol 120 V ③ Q2 - Photocontrol 208-277 V ③ Q3 - Photocontrol 347 V ③	Hazardous Rating: I2 - Division 2

① For CEC 480 V, 60 Hz, consult factory.

② Available in High Pressure Sodium only.

③ Certified to meet the Canadian Electrical Code (CEC) only.

④ Certified to meet the National Electrical Code (NEC) only.





# Areamaster™ Stainless Steel Floodlights

## Integral Ballast. 250 W, 400 W HPS or PSMH. Mogul Base

For Marine; Class I, Division 2 Hazardous Locations; Class I, Zone 2; and Corrosive Environments.

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2 IIC  
NEMA 4X  
Marine Outside Type (Salt Water)  
Wet Location

**CEC:**  
Class II, Groups E, F, G  
Class III

Lamp Type	Line Voltage	T Rating	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
High Pressure Sodium					
400 W HPS	120/208/240/277	350	20.41 (45)	33.1 (2020)	GAMS771L-MT-I2
	120/277/347				GAMS771L-TT-I2 ①
	480				GAMS771L-48-I2 ②
	600				GAMS771L-C7-I2 ①
250 W HPS	120/208/240/277	350	20.41 (45)	33.1 (2020)	GAMS671L-MT-I2
	120/277/347				GAMS671L-TT-I2 ①
	480				GAMS671L-48-I2 ②
	600				GAMS671L-C7-I2 ①
Pulse Start Metal Halide					
400 W PSMH	120/208/240/277	450	20.41 (45)	33.1 (2020)	GAMS771P-MT-I2
	120/277/347				GAMS771P-TT-I2 ①
	480				GAMS771P-48-I2 ②
250 W PSMH	120/208/240/277	350	20.41 (45)	33.1 (2020)	GAMS671P-MT-I2
	120/277/347				GAMS671P-TT-I2 ①
	480				GAMS671P-48-I2 ②
Mounting Fittings and Accessories					
Description					Catalog Number
	<b>Crossarm Mounting Bracket</b> — Has 180° horizontal adjustment—degree-marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.				G-AM-8-CA
	<b>Pipe or Wall Mount Bracket</b> — Used with G-AM-8-CA. Clamps to 1” to 2-1/2” pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.				G-AM-8-WB
	<b>Poletop Slip-Fitter</b> — 1-1/2” or 2” pipe size poletop tenons. Includes floodlight yoke bolt, 3 locking bolts, and cord grip. Body is malleable iron—zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.				G-SF20
	<b>Poletop Slip-Fitter</b> — Slip-Fits 2” or 2-1/2” poletop tenons. Includes floodlight yoke bolts, 3 locking bolts and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.				G-AM-8-SF

① Certified to meet the Canadian Electrical Code (CEC) only.

② Certified to meet the National Electrical Code (NEC) only.

# Areamaster™ Stainless Steel Floodlights

## Integral Ballast. 250 W, 400 W HPS or PSMH. Mogul Base

For Marine; Class I, Division 2 Hazardous Locations; Class I, Zone 2; and Corrosive Environments.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2 IIC

NEMA 4X

Marine Outside Type (Salt Water)

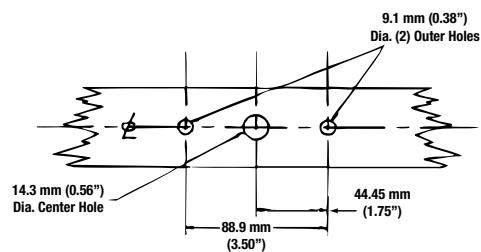
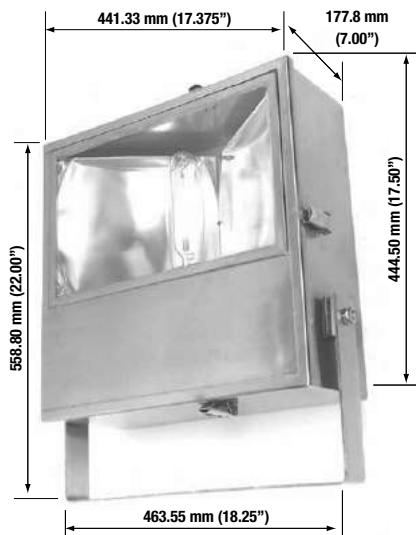
Wet Location

### CEC:

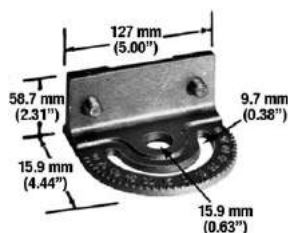
Class II, Groups E, F, G

Class III

### Dimensions in Millimeters (Inches)



Trunnion Mount



Crossarm Mounting Bracket



Pipe or Wall Mount Bracket



Poletop Slip-Fitter



Poletop Slip-Fitter

# Areamaster™ Stainless Steel Floodlights

## Integral Ballast. 250 W, 400 W HPS or PSMH. Mogul Base

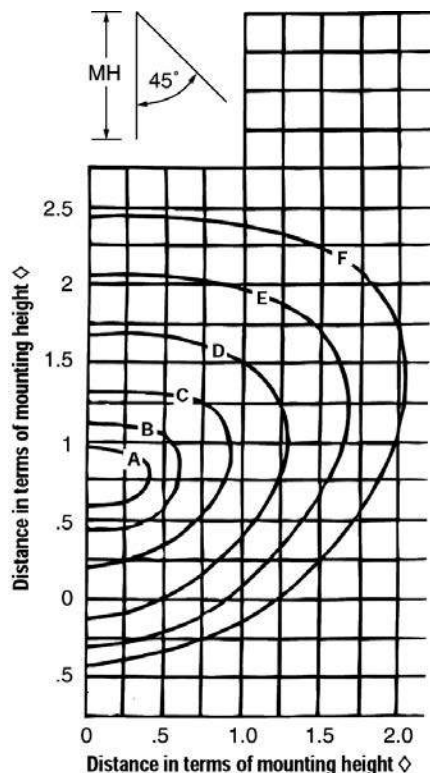
For Marine; Class I, Division 2 Hazardous Locations; Class I, Zone 2; and Corrosive Environments.

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2 IIC  
NEMA 4X  
Marine Outside Type (Salt Water)  
Wet Location

**CEC:**  
Class II, Groups E, F, G  
Class III

### Photometric Data

#### Typical Footcandle Values ①



#### Electrical Specifications — All ballasts are CWA type

Line Voltage	Starting Amps	Operating Amps	Total Watts
<b>400 W High Pressure Sodium</b>			
120	3.30	3.80	465
208	1.80	2.20	465
240	1.60	1.90	465
277	1.40	1.70	465
347	1.00	1.32	464
480	0.80	1.00	465
<b>400 W Pulse Start Metal Halide</b>			
120	3.50	4.00	454
208	2.00	2.30	454
240	1.25	2.00	454
277	1.50	1.75	454
347	1.10	1.35	452
480	0.90	1.00	454
<b>250 W High Pressure Sodium</b>			
120	2.00	2.50	295
208	1.20	1.50	295
240	1.00	1.30	295
277	0.85	1.10	295
347	0.60	0.93	295
480	0.40	0.65	295
<b>250 W Pulse Start Metal Halide</b>			
120	1.90	2.50	288
208	1.10	1.45	288
240	0.96	1.25	288
277	0.85	1.10	288
347	0.62	0.90	291
480	0.45	0.60	285

Mtg. Ht. m (ft)	Footcandles for Iso-Footcandle Lines											
	A	B	C	D	E	F	A	B	C	D	E	F
<b>400 W HPS</b>												
18.3 (60)	3.27	2.74	1.82	0.92	0.37	0.18	1.96	1.64	1.09	0.55	0.22	0.11
15.2 (50)	4.74	4.00	2.90	1.37	0.52	0.27	2.84	2.40	1.74	0.82	0.31	0.16
12.2 (40)	7.65	6.28	4.38	2.27	0.82	0.43	4.58	3.76	2.62	1.36	0.49	0.26
9.1 (30)	13.10	10.92	7.83	3.47	1.45	0.77	7.85	6.54	4.69	2.08	0.87	0.46
6.1 (20)	28.22	25.55	17.37	7.28	3.46	1.82	16.90	15.30	10.40	4.36	2.07	1.09
<b>400 W PSMH</b>												
18.3 (60)	2.60	1.86	1.12	0.65	0.37	0.19	1.90	1.36	0.82	0.48	0.27	0.14
15.2 (50)	3.72	2.60	1.66	0.85	0.54	0.28	2.72	1.90	1.22	0.63	0.39	0.20
12.2 (40)	6.14	4.05	2.60	1.49	0.84	0.40	4.48	2.96	1.90	1.09	0.61	0.30
9.1 (30)	10.96	8.74	4.46	2.42	1.49	0.76	8.00	6.40	3.26	1.76	1.09	0.55
6.1 (20)	19.33	16.35	10.41	5.94	3.53	1.67	14.40	11.97	7.61	4.35	2.58	1.22
<b>250 W HPS</b>												
18.3 (60)	3.27	2.74	1.82	0.92	0.37	0.18	1.96	1.64	1.09	0.55	0.22	0.11
15.2 (50)	4.74	4.00	2.90	1.37	0.52	0.27	2.84	2.40	1.74	0.82	0.31	0.16
12.2 (40)	7.65	6.28	4.38	2.27	0.82	0.43	4.58	3.76	2.62	1.36	0.49	0.26
9.1 (30)	13.10	10.92	7.83	3.47	1.45	0.77	7.85	6.54	4.69	2.08	0.87	0.46
6.1 (20)	28.22	25.55	17.37	7.28	3.46	1.82	16.90	15.30	10.40	4.36	2.07	1.09
<b>250 W PSMH</b>												
18.3 (60)	2.60	1.86	1.12	0.65	0.37	0.19	1.90	1.36	0.82	0.48	0.27	0.14
15.2 (50)	3.72	2.60	1.66	0.85	0.54	0.28	2.72	1.90	1.22	0.63	0.39	0.20
12.2 (40)	6.14	4.05	2.60	1.49	0.84	0.40	4.48	2.96	1.90	1.09	0.61	0.30
9.1 (30)	10.96	8.74	4.46	2.42	1.49	0.76	8.00	6.40	3.26	1.76	1.09	0.55
6.1 (20)	19.33	16.35	10.41	5.94	3.53	1.67	14.40	11.97	7.61	4.35	2.58	1.22

① Photometric charts available on request.

◇ i.e., ratio of distance to height. Example: @ 6.1 m (20') mounting height, 1 means 6.1 m (20'); 2 means 12.2 m (40'), etc.

# Wallmaster™ I/2 for Hazardous and Wet Locations

## Class I, Division 2/Zone 2.

Enclosed and Gasketed. Integrally Ballasted. 70 W, 100 W, 150 W HPS

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2, Groups IIA, IIB, IIC

### Applications

- Wall mounted luminaire suitable for outdoor applications.
- Areas where flammable gases are present under conditions defined by NEC Class I, Division 2 and Class I, Zone 2.

### Features

- Attractive yet rugged design.
- Side hinged door allows unobstructed access to lamp and wiring components.
- Built in stop limits door opening to 90° and protects the lens from breakage.
- Latch mechanism: unique heavy-duty stainless steel latch secures the cover assembly while allowing the luminaire to be relamped without the use of tools.
- Prismatic tempered glass lens is thermal-shock- and impact-resistant giving a soft diffused light.
- Installation is fast and easy.
- Luminaire is furnished with two plugged 1/2" conduit entries.
- Mogul base socket is heavy-duty porcelain with heavy gauge brass nickel plated double lamp grip screw shell and spring loaded center contacts.
- Aluminum reflector is designed for maximum efficiency.
- Standard finish is architectural bronze tone baked epoxy.



### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- cCSAus Certified: 025428
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

Order using catalog numbering guide below.

#### Catalog Numbering Guide For Wallmaster I/2 Luminaires

<u>GWM</u>	<u>70</u>	<u>L</u>	<u>MT</u>	<u>H</u>	<u>R</u>
Series:		Lamp Type:		Ratings:	Options:
GWM - Wallmaster		L - High Pressure Sodium F - Fluorescent		H - Hazardous Location	
	Wattage:		Voltage:		
	70 - 70 W HPS	48 - 480			E - Quartz Auxiliary Light (Non-Hazardous HID only)
	10 - 100 W HPS	MT - 120/208/240/277			G - Wire Guard
	15 - 150 W HPS	BU - 120-277, 50/60 Hz (Fluorescent Only)			Q - Hazardous Photocontrol 120 to 277 Vac (Class I, Div. 2)
	36 - Two 18 W PL-T	TT - 120/277/347			R - HRE (Hot Restrike for HID only)
	52 - Two 26 W PL-T				S - PE (Safety Starter for HID only)
	64 - Two 32 W PL-T				T - Tamper proof Latch
					V - Polycarbonate Vandal Shield

# Wallmaster™ I/2 for Hazardous and Wet Locations

## Class I, Division 2/Zone 2.

Enclosed and Gasketed. Integrally Ballasted. 70 W, 100 W, 150 W HPS

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2, Groups IIA, IIB, IIC

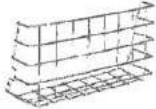

### "T" Numbers for Wallmaster I/2 Fixtures

Lamp Watts	Lamp Type	Supply Wire °C (°F)	Maximum Ambient Temperature °C (°F)	Class I, Division 2 Class I, Zone 2
70	HPS	125 (257)	40 (104)	<b>T2D</b>
100	HPS	125 (257)	25 (77)	<b>T2C</b>
150	HPS	125 (257)	25 (77)	<b>T2A</b>
36	Fluorescent	125 (257)	40 (104) 55 (131)	<b>T3</b>
52	Fluorescent	125 (257)	40 (104) 55 (131)	<b>T3</b>
64	Fluorescent	125 (257)	40 (104) 55 (131)	<b>T3</b>

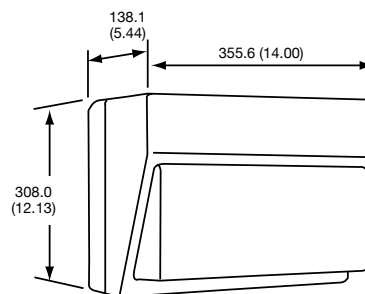
### "T" Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations

"T" Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

### Accessories

	Description	Catalog Number
	Guard - Stainless steel plated	<b>G-WMWG</b>
	Vandal Shield - UV stabilized polycarbonate. Can be used with guard.	<b>G-WM-LS</b>
	Clear Replacement Lens	<b>G-WM-L</b>

### Dimensions in Millimeters (Inches)



# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

### NEC:

Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

### CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1, Groups E, F, G  
Class II, Division 2, Groups F, G  
Class III  
CSA 4X

### Applications

- UL Listed for Marine Type Electric Fixtures Outside Type (Salt Water).
- Ideal in Class I, Division 1 and 2 installations in refineries, in pipeline transportation facilities, at drilling rigs and in production facilities on land and marine platforms.
- Class I, Division 1 areas include:
  - (1) enclosed derricks, mud tanks, desander-desilter, gas-operated control devices, oil-gas separation vessels, shale shakers and flowing or beam wells
  - (2) flowing or beam wells in open areas with cellar or below grade sump
  - (3) on refinery docks where tankers are loaded with hoses or loading arms
  - (4) in compressor buildings (open or enclosed) where methane gas is present
- Virtually all enclosed areas at drilling operations or refineries where ventilation is inadequate, or where a cellar or below grade sump exists, are Class I, Division 1.

### Features

- Choice of mountings: (1) crossarm with degree indicator; (2) junction box for horizontal or vertical mount; and (3) swivel for pole mount (screws onto standard 2" pipe threads).
- Fixtures operate safely in high ambient temperatures. For example, in Class I areas the 150 W HPS unit operateSee page 1290 for classified area suitability.
- Arrangement of heat-producing components results in more efficient heat dissipation for cooler fixture operation.
- All threaded joints are flame-tight.
- Five threads are always fully engaged in an explosionproof manner.
- Factory sealed. External seals not required.
- Strategic location of lamp socket, in combination with the interior prism design of the glass globe, provides optimum light distribution and control.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Ballasts operate at low temperatures – PSMH: -29 °C (-20 °F); HPS: -40 °C (-40 °F).

### Standard Materials

- Ballast housing, guard and junction box, and pole mounts: copperfree (4/10 of 1% max.) aluminum
- Crossarm mount: malleable iron
- Trunnion: steel.
- High bay reflector: aluminum
- Standard dome, deep dome and 30° angle reflectors: fiberglass reinforced polyester
- Socket: porcelain
- Screw shell: nickel-plated phosphor bronze

### Standard Finishes

- Ballast housing, guard, trunnion and mounting accessories: epoxy-clad finish. Powder coat baked finish, electrostatically applied for complete, uniform corrosion protection



Shown with Optional High Bay Reflector

Effective Protected area: 1.8 Square Feet

### Options

- Fuses for field installation are ordered by catalog number from the fuse kit table
- Quartz Auxiliary Emergency Lamp for PSMH and HPS fixtures. Relay switch installed fixture. Add suffix **-E** to fixture catalog number.
- Hot Restrike Option available for 150 W HPS. Add suffix **-R**.
- Smart Starter. Add suffix **-S**

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

### NEC:

Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

### CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1, Groups E, F, G  
Class II, Division 2, Groups F, G  
Class III  
CSA 4X

### Classified Area Suitability — Suitability includes use of reflector

Lamp Type	Lamp Watts	Supply Wire °C (°F)	Ambient Temp °C (°F)	Class I, Division 1 and 2 With Globe or with Globe and Reflector UL/NEC/CEC Temp. Ident. No.			Class II, Division 1 and 2 With Globe or with Globe and Reflector CEC Temp. Ident. No.	
				Nameplate Marking	NEC Groups	CEC Groups	Nameplate Marking	CEC Groups
High Pressure Sodium	150	50 (122)	40 (104)	<b>T5</b>	C,D	B, C, D	<b>T3A</b>	E,F
	150	75 (167)	55 (131)	—	C,D	B, C, D	<b>T3</b>	—
	250	75 (167)	40 (104)	<b>T4</b>	C,D	B, C, D	—	—
	250	75 (167)	55 (131)	—	C,D	B, C, D	—	—
	400	85 (185)	40 (104)	<b>T3A</b>	C,D	B, C, D	—	—
Pulse Start Metal Halide	175	75 (167)	40 (104)	<b>T3B</b>	C,D	B, C, D	<b>T3C</b>	E,F,G
	250	75 (167)	40 (104)	<b>T3B</b>	C,D	B, C, D	<b>T3A</b>	E,F
	320	75 (167)	40 (104)	<b>T3</b>	C,D	B, C, D	—	—
	350	75 (167)	40 (104)	<b>T3</b>	C,D	B, C, D	—	—
	400	75 (167)	40 (104)	<b>T3</b>	C,D	B, C, D	—	—
Metal Halide ①	175	75 (167)	40 (104)	<b>T4</b>	—	B, C, D	<b>T3C</b>	E, F, G
	250	75 (167)	40 (104)	<b>T4</b>	—	B, C, D	<b>T3A</b>	E, F
	400	75 (167)	40 (104)	<b>T3C</b>	—	B, C, D	—	—

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Code•Master™ 2 HID Factory Sealed Floodlights





## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH. Mogul Base.

NEC:  
Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

Appleton®

HID/FLOODLIGHT: NEC/CEC EXPLOSIONPROOF

	Lamp Watts	ANSI Lamp Type		Catalog Number ①③	
		HPS	PSMH	HPS	PSMH
Fixture Unit					
	Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)				
	150	S55	M102	CFL150MT	CFP150MT
	175	—	M137/M152	—	CFP175MT
	250	S50	M138/M153	CFL250MT	CFP250MT
	320	—	M145	—	CFP320MT
	350	—	M131	—	CFP350MT
	400	S51	M135/M155	CFL400MT	CFP400MT
Fixture Unit with Junction Box for Horizontal or Vertical Mounting ②					
	3/4" fixture hub and two conduit openings (3/4 – 14 NPT). 30" Flexible Coupling connects to 3/4" fixture hub and to 1/2" junction box opening. Furnished with one 3/4" Close-up Plug. Has Locking Screw for horizontal adjustment.				
	150	S55	M102	CFL150JBMT	CFP150JBMT
	175	—	M137/M152	—	CFP175JBMT
	250	S50	M138/M153	CFL250JBMT	CFP250JBMT
	320	—	M145	—	CFP320JBMT
	350	—	M131	—	CFP350JBMT
	400	S51	M135/M155	CFL400JBMT	CFP400JBMT
Fixture Unit with Pole-Top Mount (on 2" Threaded Pipe) ②					
	2" tapered threads (2 – 11-1/2 NPT). Locking Screw for horizontal adjustment. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to 1/2" pole-top opening (1/2-14 NPT).				
	150	S55	M102	CFL150SFMT	CFP150SFMT
	175	—	M137/M152	—	CFP175SFMT
	250	S50	M138/M153	CFL250SFMT	CFP250SFMT
	320	—	M145	—	CFP320SFMT
	350	—	M131	—	CFP350SFMT
	400	S51	M135/M155	CFL400SFMT	CFP400SFMT
Fixture Unit with Crossarm Mounting ②					
	For mounting to flat surface. 180° horizontal adjustment with degree indicator. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to any 1/2" opening (1/2 – 14 NPT).				
	150	S55	M102	CFL150CAMT	CFP150CAMT
	175	—	M137/M152	—	CFP175CAMT
	250	S50	M138/M153	CFL250CAMT	CFP250CAMT
	320	—	M145	—	CFP320CAMT
	350	—	M131	—	CFP350CAMT
	400	S51	M135/M155	CFL400CAMT	CFP400CAMT

① To order fixture with guard, add suffix **-G** before voltage suffix.

② Fixtures furnished with trunnion and bolts, flexible coupling and fittings, and mounting accessory. The trunnion provides vertical adjustment and the mounting accessory provides horizontal adjustment.

③ Change suffix **-MT** (120/208/240/277 V) to **-480** for 480 V.

# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

### CEC:





Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1, Groups E, F, G

Class II, Division 2, Groups F, G

Class III

CSA 4X

	Lamp Watts	HPS	ANSI Lamp Type			Catalog Number ① ③	
			PSMH	MH	HPS	PSMH	MH
Fixture Unit							
	Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)						
	150	S55	M102	—	CFL150TTCN	CFP150TTCN	—
	175	—	M137/M152	M57/H39	—	CFP175TTCN	CFH175TTCN
	250	S50	M138/M153	M58/H37	CFL250TTCN	CFP250TTCN	CFH250TTCN
	320	—	M145	—	—	CFP320TTCN	—
	350	—	M131	—	—	CFP350TTCN	—
	400	S51	M135/M155	M59/H33	CFL400TTCN	CFP400TTCN	CFH400TTCN
Fixture Unit with Junction Box for Horizontal or Vertical Mounting ②							
	3/4" fixture hub and two conduit openings (3/4 – 14 NPT). 30" Flexible Coupling connects to 3/4" fixture hub and to 1/2" junction box opening. Furnished with one 3/4" Close-up Plug. Has Locking Screw for horizontal adjustment.						
	150	S55	M102	—	CFL150JBTTCN	CFP150JBTTCN	—
	175	—	M137/M152	M57/H39	—	CFP175JBTTCN	CFH175JBTTCN
	250	S50	M138/M153	M58/H37	CFL250JBTTCN	CFP250JBTTCN	CFH250JBTTCN
	320	—	M145	—	—	CFP320JBTTCN	—
	350	—	M131	—	—	CFP350JBTTCN	—
	400	S51	M135/M155	M59/H33	CFL400JBTTCN	CFP400JBTTCN	CFH400JBTTCN
Fixture Unit with Pole-Top Mount (on 2" Threaded Pipe) ②							
	2" tapered threads (2 – 11-1/2 NPT). Locking Screw for horizontal adjustment. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to 1/2" pole-top opening (1/2-14 NPT).						
	150	S55	M102	—	CFL150SFTTCN	CFP150SFTTCN	—
	175	—	M137/M152	M57/H39	—	CFP175SFTTCN	CFH175SFTTCN
	250	S50	M138/M153	M58/H37	CFL250SFTTCN	CFP250SFTTCN	CFH250SFTTCN
	320	—	M145	—	—	CFP320SFTTCN	—
	350	—	M131	—	—	CFP350SFTTCN	—
	400	S51	M135/M155	M59/H33	CFL400SFTTCN	CFP400SFTTCN	CFH400SFTTCN
Fixture Unit with Crossarm Mounting ②							
	For mounting to flat surface. 180° horizontal adjustment with degree indicator. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to any 1/2" opening (1/2 – 14 NPT).						
	150	S55	M102	—	CFL150CATTN	CFP150CATTN	—
	175	—	M137/M152	M57/H39	—	CFP175CATTN	CFH175CATTN
	250	S50	M138/M153	M58/H37	CFL250CATTN	CFP250CATTN	CFH250CATTN
	320	—	M145	—	—	CFP320CATTN	—
	350	—	M131	—	—	CFP350CATTN	—
	400	S51	M135/M155	M59/H33	CFL400CATTN	CFP400CATTN	CFH400CATTN

① To order fixture with guard, add suffix **-G** before voltage suffix.

② Fixtures furnished with trunnion and bolts, flexible coupling and fittings, and mounting accessory. The trunnion provides vertical adjustment and the mounting accessory provides horizontal adjustment.

③ Change voltage suffix **-TT** (120/277/347 V) to **-MT** for 120/208/240/277 V, **-C2** for 208 V, **-C3** for 240 V, **-C6** for 480 V, or **-C7** for 600 V.








# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

**NEC:**  
Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

**CEC:**  
Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1, Groups E, F, G  
Class II, Division 2, Groups F, G  
Class III  
CSA 4X

Description		Catalog Number
	<b>Junction Box for Horizontal or Vertical Mounting</b> Box has 1/2" opening for threading to Flexible Coupling, and two 3/4" conduit openings (3/4 – 14NPT) and is furnished with one 3/4" close-up plug. Locking screw for horizontal adjustment. Trunnion bolts furnished. Aluminum, gray epoxy finish.	<b>AF-JB</b>
	<b>Pole-Top Mount (on 2" Threaded Pipe)</b> Threads onto 2" pipe with tapered threads (2-11 – 1/2 NPT). Includes floodlight trunnion bolts. Locking screw for horizontal floodlight adjustment. Aluminum, gray epoxy finish.	<b>AF-SF</b>
	<b>Crossarm Mounting Bracket</b> Has 180° horizontal adjustment – degree-marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB Pole/Wall Mounting Bracket (see photo below). Includes floodlight trunnion bolts. Malleable iron, plated, chromate sealed, architectural bronze EPOXY finish.	<b>G-AM-8-CA</b>
	<b>Polyester Reflectors – 150 W through 400 W</b> Standard Dome	<b>CMR-4ST</b>
	Deep Dome	<b>CMR-4DD</b>
	30° Angle	<b>CMR-4AN</b>
	<b>Aluminum High Bay Reflectors – 150 W through 400 W</b>	<b>CMR-4HB</b>
	<b>Flexible Coupling – 30" Long</b> Connects to 3/4" Fixture Unit hub (3/4 – 14 NPT) and to 1/2" Junction Box or Pole-Top Accessory opening (1/2 – 14 NPT).	<b>AF-EXL</b>
<b>Quartz Emergency Lamp for Pulse Start Metal Halide and High Pressure Sodium Fixtures</b> Fixtures can be supplied with a socket to accept a 150 W or 250 W, 120 V quartz lamp. This D.C. bayonet base socket is in addition to the standard lamp socket, independent of the lighting fixture voltage.		
		Add Suffix -E
<b>HPS Smart Hot Restrike</b> Smart Hot Restrike will immediately restrike an HPS lamp when power is restored after a momentary power interruption. The smart function removes the hot restrike ignitor from the circuit if the lamp burns out or is removed from the socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs.		
<b>Optional for 150 W fixtures (HPS only)</b>		Add Suffix -SR
<b>HPS Hot Restrike</b> Restrikes HPS lamp immediately when power is restored after a momentary power interruption.		
<b>Optional for 150 W fixtures (HPS only)</b>		Add Suffix -R
<b>HPS Smart Starter</b> Smart Starter for HPS and PSMH fixtures. Incorporates a 1-1/2-minute timer and performs as a conventional starter to normally start lamp. Removes itself from circuit if lamp burns out or is removed from socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs.		
	<b>Optional for all fixture watts</b>	Add Suffix -S
	G-AM-8-CA Crossarm Mounting Bracket	
	Shown with G-AM-8-WB Pipe/Wall Mounting Bracket.	
	The G-AM-8-WB bracket is not furnished with fixtures.	

# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

### NEC:

Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

### CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1, Groups E, F, G  
Class II, Division 2, Groups F, G  
Class III  
CSA 4X

Lamp		High Pressure Sodium ①		Ballast Amps Pulse Start Metal Halide Super CWA		Metal Halide CWA		Fuse Quantity Required	Fuse Kit Catalog Number		
		Start	Operating	Start	Operating	Start	Operating		HPS	PSMH	MH ②
150	120	2.00	1.66	—	—	—	—	1	CF-10	—	—
	208	1.16	0.96	—	—	—	—	2	CF-5	—	—
	240	1.00	0.83	—	—	—	—	2	CF-5	—	—
	277	0.88	0.75	—	—	—	—	1	CF-5	—	—
	347	0.52	0.56	—	—	—	—	1	CF-5	—	—
	480	0.50	0.44	—	—	—	—	2	CF-3	—	—
175	120	—	—	1.10	1.86	1.30	1.80	1	—	CF-5	CF-5
	208	—	—	0.75	1.23	0.75	1.10	2	—	CF-3	CF-3
	240	—	—	0.65	0.98	0.65	0.90	2	—	CF-3	CF-3
	277	—	—	0.55	0.87	0.55	0.80	1	—	CF-2	CF-2
	347	—	—	0.25	0.65	0.50	0.65	1	—	CF-2	CF-2
	480	—	—	0.25	0.50	—	—	2	—	CF-2	—
250	120	1.75	2.70	1.96	2.50	1.20	2.60	1	CF-8	CF-8	CF-8
	208	1.00	1.50	1.13	1.45	0.65	1.50	2	CF-5	CF-5	CF-5
	240	0.85	1.30	0.98	1.25	0.60	1.30	2	CF-5	CF-5	CF-5
	277	0.75	1.15	0.85	1.10	0.50	1.12	1	CF-5	CF-3	CF-3
	347	0.60	0.93	0.62	0.90	0.80	0.90	1	CF-5	CF-3	CF-3
	480	0.40	0.65	0.32	0.67	—	—	2	CF-2	CF-2	—
320	120	—	—	3.30	3.25	—	—	1	—	CF-8	—
	208	—	—	1.90	1.90	—	—	2	—	CF-6	—
	240	—	—	1.60	1.65	—	—	2	—	CF-5	—
	277	—	—	1.40	1.40	—	—	1	—	CF-5	—
	347	—	—	0.70	1.10	—	—	1	—	CF-5	—
	480	—	—	0.45	0.85	—	—	2	—	CF-3	—
350	120	—	—	3.60	3.70	—	—	1	—	CF-10	—
	208	—	—	2.10	2.10	—	—	2	—	CF-8	—
	240	—	—	1.80	1.80	—	—	2	—	CF-5	—
	277	—	—	1.60	1.60	—	—	1	—	CF-5	—
	347	—	—	0.70	1.01	—	—	1	—	CF-5	—
	480	—	—	0.60	0.90	—	—	2	—	CF-3	—
400	120	3.10	3.90	3.50	4.00	3.25	4.00	1	CF-15	CF-10	CF-10
	208	1.80	2.25	2.00	2.30	1.90	2.30	2	CF-8	CF-8	CF-8
	240	1.60	1.95	1.75	2.00	1.65	2.00	2	CF-5	CF-5	CF-5
	277	1.35	1.70	1.50	1.75	1.40	1.75	1	CF-5	CF-5	CF-5
	347	1.00	1.32	1.10	1.35	1.20	1.40	1	CF-5	CF-5	CF-5
	480	0.80	1.00	0.75	1.00	—	—	2	CF-5	CF-3	—

Fuse Kit includes fuse, fuse holder and necessary hardware for field installation. Mounts easily in ballast body with one screw. Order one fuse for 120 and 277 V, and 2 fuses for 208, 240 and 480 V. CF-2 = 2 amp; CF-3 = 3 amp; CF-5 = 5 amp; CF-6 = 6 amp; CF-8 = 8 amp; CF-10 = 10 amp

① 50 through 150 W HPS have H.P.F. High Reactance ballasts; 250 W and 400 W HPS have CWA ballasts.

② Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Code•Master™ 2 HID Factory Sealed Floodlights

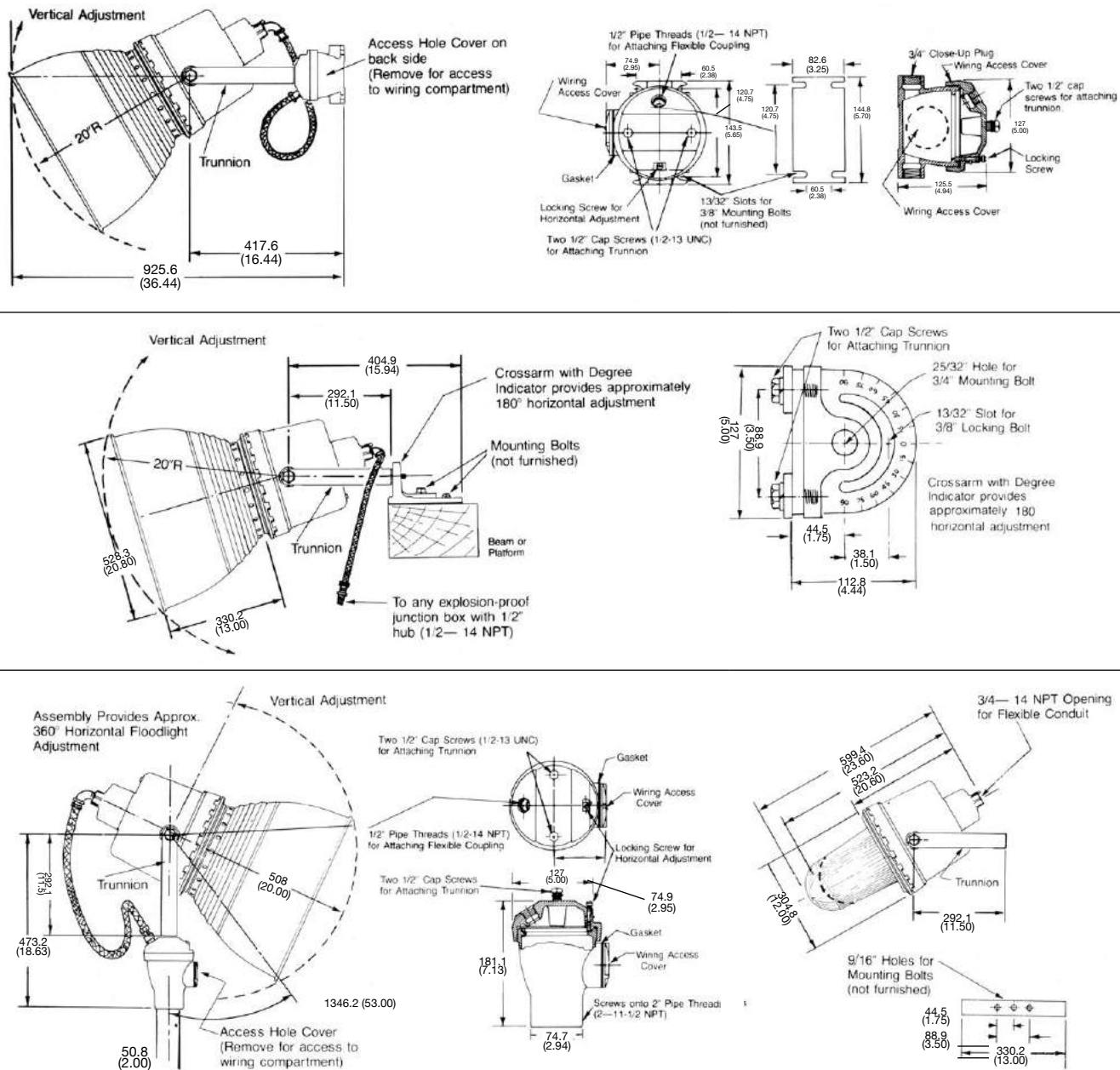
## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH. Mogul Base.

**NEC:**  
Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

**CEC:**  
Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1, Groups E, F, G  
Class II, Division 2, Groups F, G  
Class III  
CSA 4X

### Dimensions in Millimeters (Inches)



### Weights kg (lb)

150 W	175 W	250 W	320 W	350 W	400 W
21 (46.30)	21 (46.30)	32 (70.55)	32 (70.55)	32 (70.55)	32 (70.55)

# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Typical Footcandle Values for Iso-Footcandle Curves. Data Based on 400 W HPS (50,000 Lumens) Clear Mogul Base Lamps.

### NEC:

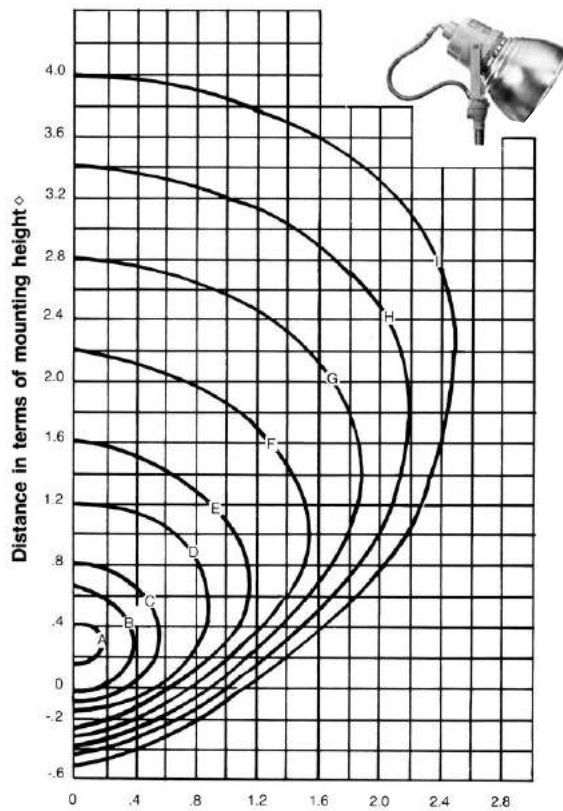
Class 1, Division 1 and 2, Groups C, D  
Marine Type Electric Fixtures  
Outside Type (Salt Water)

### CEC:

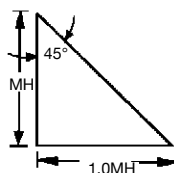
Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1, Groups E, F, G  
Class II, Division 2, Groups F, G  
Class III  
CSA 4X

### Photometric Data

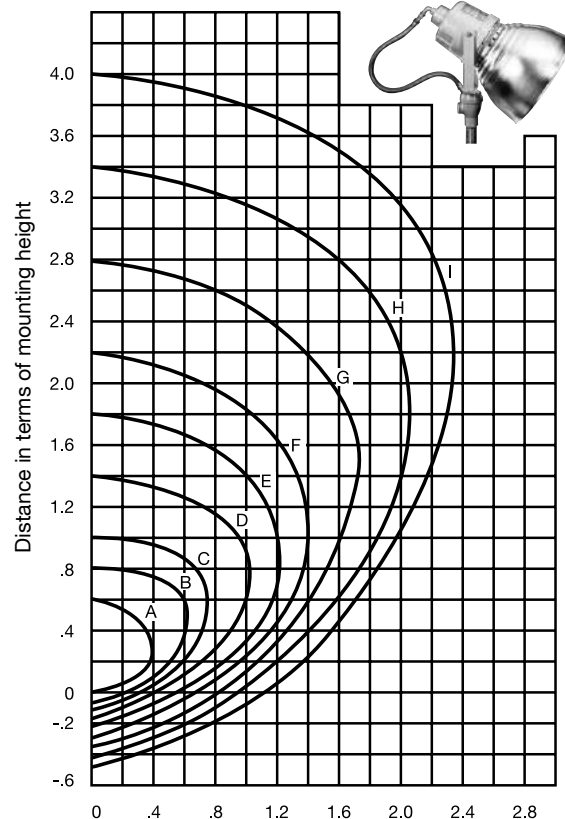
400 W HPS Floodlight at 45° Angle with High Bay Reflector ①



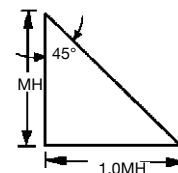
Mounting Height (feet)	FOOTCANDLE VALUES FOR ISO-FOOTCANDLE CURVES								
	A	B	C	D	E	F	G	H	I
15	52.52	43.34	31.00	17.05	10.23	4.77	2.43	1.36	0.84
20	29.54	24.38	17.44	9.59	5.75	2.68	1.37	0.77	0.47
25	18.91	15.60	11.16	6.14	3.68	1.72	0.87	0.49	0.30
30	13.13	10.84	7.75	4.26	2.56	1.19	0.61	0.34	0.31
35	9.65	7.96	5.69	3.13	1.88	0.88	0.45	0.25	0.15
40	7.39	6.10	4.36	2.40	1.44	0.67	0.34	0.19	0.12



400W MH Floodlight at 45° Angle with High Bay Reflector



Mounting Height (feet)	FOOTCANDLE VALUES FOR ISO-FOOTCANDLE CURVES								
	A	B	C	D	E	F	G	H	I
15	33.97	22.10	16.12	9.69	6.40	4.12	2.13	1.13	.67
20	19.11	12.43	9.07	5.45	3.60	2.31	1.20	.64	.38
25	12.23	7.96	5.80	3.49	2.30	1.48	.77	.41	.24
30	8.49	5.52	4.03	2.42	1.60	1.03	.53	.28	.17
35	6.24	4.06	2.96	1.78	1.18	.76	.39	.21	.12
40	4.78	3.11	2.27	1.36	.90	.58	.30	.16	.10



① For 250 Watt HPS Clear, 30,000 Lumen lamp, multiply all FTC values by 0.60.

# EFL Series HID and Quartz Floodlights

## Explosionproof

NEC/CEC:  
Class I, Zone 1 and 2  
Ex de IIB T1/T2/T3  
Class I, Zone 1 and 2  
AEx de IIB T1/T2/T3  
IP66 / 67

### Applications

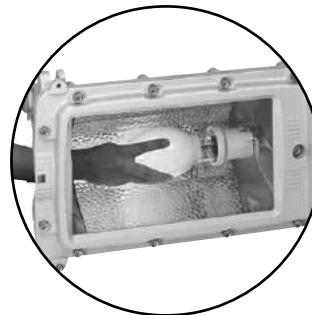
- Designed for large area lighting in industrial outdoor and indoor explosionproof areas.
- Ideal for use in Zone 1 and 2 applications in the oil and gas industry in such areas as refineries, pipelines and offshore drilling rigs.

### Features

- Fast and easy tubular lamp replacement via threaded entry at the end of the fixture. Suitable for HPS and HPI-T MH lamps only. Other lamps require lens cover removal for servicing.
- Lamp holder can be easily field adjusted for either a narrow or wide beam type.
- Thermally separated ballast provides for extended life.
- Easy, efficient wiring process due to a separate Ex e terminal chamber.
- Choice of mounting with a galvanized yoke bracket, fixed horizontal brackets, two different sizes of tube/pole mount brackets or without brackets for custom installation.
- Tempered safety glass lens is factory sealed into the cover frame.
- Suitable for use in up to 55 °C (131 °F) ambient temperatures.
- Two – M20 threaded cable entries for ease of wiring. Supplied c/w one close-up plug and one Ex e non-armored cable gland.
- One external 4mm<sup>2</sup> and one 6mm<sup>2</sup> earth/ground terminals.
- Universal mounting for vertical or horizontal positioning.
- Reversible hinge allows for fixture access from either side.
- Mogul Base Lamp is supplied as standard. Optional export version would be supplied with E40 export socket.
- Highly polished internal Aluminium reflector.

### Standard Materials

- Housing and door: copperfree marine grade aluminum alloy
- Lens: tempered safety glass
- Reflector: highly polished aluminium
- Closure bolts: 316 stainless steel



### Standard Finishes

- Exterior finish: Housing and door: gray polyester epoxy

### Options

- Overhead diffuser. Black painted, galvanized steel. Suffix –D.
- Protective wire guard. Zinc plated steel. Suffix –G.
- Hot Restrike Igniter. Ignites a hot lamp shortly after a power dip or outage extinguishes the lamp. Suffix –R.
- Safety Starter. Shuts off device in the event of a lamp failure. Suffix –S.
- Additional wiring terminals. For 3 Phase loop in/out. Suffix –T.

### NEC/CEC Certifications and Compliances

- cCSAus: LR25428

### Catalog Numbering Guide

EFL	H	40	B	TT	L
EFL Series: Explosionproof Floodlights		Wattage: 10 - 1000W Quartz Halogen 15 - 150W HPS, MH ① 17 - 175W PSMH, MH ① 20 - 200W PSMH 25 - 250W HPS, MH ① 40 - 400W HPS, MH ① 50 - 500W Quartz Halogen		HID Ballast Type and Voltage TT - CWA for 120/277/347V MT - CWA for 120/208/240/277V XP - CWA for 120/220-240V 50 Hz C5 - CWI for 480V C6 - CWI for 600V A1 - No Ballast - Quartz Only	
	Lamp Type: H - Metal Halide/ Mercury Vapor L - High Pressure Sodium P - Pulse Start Metal Halide Q - Halogen		Mounting: B - Galvanized Yoke Bracket (Std. Offering) H - Set of Horizontal Fittings C1 - Clamp Bracket. For 1-1/4" – 1-1/2" Tube C2 - Clamp Bracket. For 2" Tube N - No Mounting Hardware Supplied		Accessory Options: D - Overhead Diffuser G - Protective Wire Guard L - Lamp Included (HID Only) R - Protected Hot R Strike S - Safety Starter (not required with R)

① Mercury and Mercury Vapor luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# EFL Series HID and Quartz Floodlights

## Explosionproof

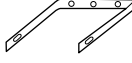

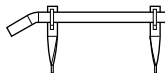


NEC/CEC:  
Class I, Zone 1 and 2  
Ex de IIB T1/T2/T3  
Class I, Zone 1 and 2  
AEx de IIB T1/T2/T3  
IP66 / 67

Fixture Ordering Supplied Std. w/ Yoke Mtg.	T Code 40 °C (104 °F)	T Code 55 °C (131 °F)	Input Voltages	Fixture Wt.	Vol.	Catalog Number
Metal Halide/Mercury Vapor ③						
150 W	T3	T3	120/277/347 V 60Hz	60	3	EFLH15B-TTCN ①
250 W	T3	T3	120/277/347 V 60Hz	62	3	EFLH25B-TTCN
400 W	T3	T3	120/277/347 V 60Hz	66	3	EFLH40B-TTCN
Pulse Start Metal Halide						
175 W	T3	T3	120/277/347 V 60Hz	62	3	EFLP17B-TTCN ①
200 W	T3	T3	120/277/347 V 60Hz	62	3	EFLP20B-TTCN ①
250 W	T3	T3	120/277/347 V 60Hz	25	3	EFLP25B-TTCN ①
400 W	T3	T3	120/277/347 V 60Hz	66	3	EFLP40B-TTCN ①
High Pressure Sodium						
150 W	T3	T3	120/277/347 V 60Hz	60	3	EFL15B-TTCN
250 W	T3	T3	120/277/347 V 60Hz	62	3	EFL25B-TTCN
400 W	T3	T3	120/277/347 V 60Hz	66	3	EFL40B-TTCN
Tubular Quartz Halogen						
500 W	T1	T1	Lamp sockets rated	71	3	EFLQ50B-A1CN
1000 W	T1	T1	125-250 Vac	71	3	EFLQ10B-A1CN

### Voltages — Add Suffix Below to Catalog Number

	120	208	220	240	277	347	480	600
CWA	-MT	-MT	-	-MT	-MT	-	-A6 ②	-
CWI	-C1	-C2	-	-C3	-	-C5	-C6	-C7
50 Hz CWA	-XP	-	-XP	-XP	-	-	-	-

### Accessories and Replacement Parts

Size mm (in)	Catalog Number		Catalog Number
<b>Galvanized Steel Hinged Bracket</b>		<b>Clip on Diffuser</b>	
	PNTB1		PND1
<b>Pole Mounting Brackets</b>		<b>Protective Guard</b>	
	31.8 to 38.1 (1.25 to 1.50)		PNG1
	50.8 (2.00)		
	PNPB115		
	PNPB120		
<b>Horizontal Fixed Mounting Bracket</b>			
	PNHB1		

① Depending on availability of tubular type lamps, may require removal of lens cover for servicing.

② Supplied as export voltage only. Not suitable for CEC applications

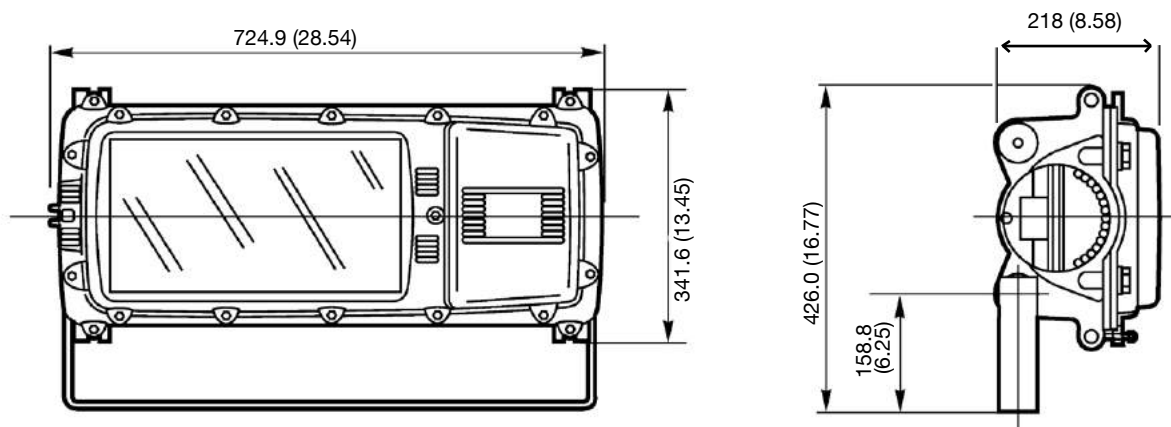
③ Mercury and Mercury Vapor luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# EFL Series HID and Quartz Floodlights

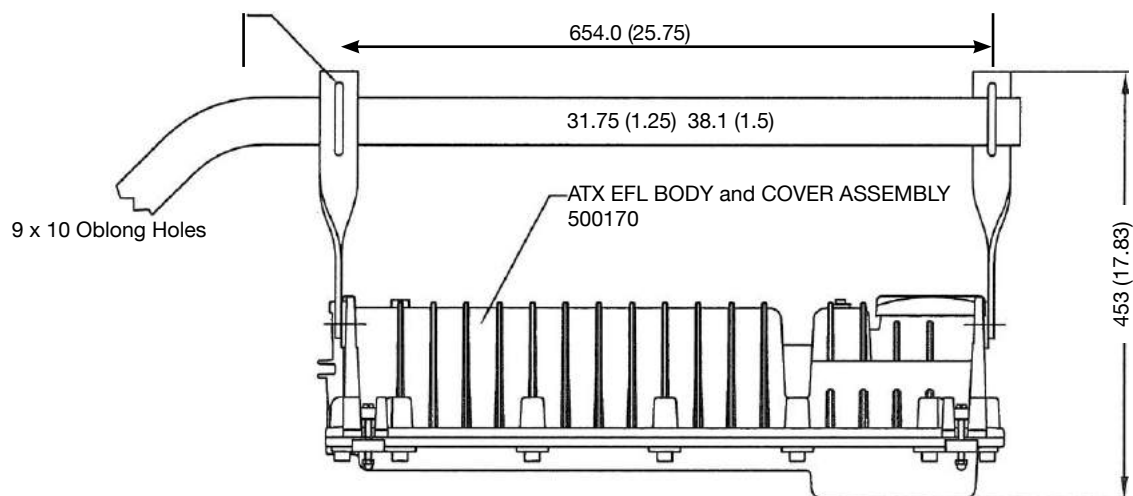
Explosionproof

NEC/CEC:  
Class I, Zone 1 and 2  
Ex de IIB T1/T2/T3  
Class I, Zone 1 and 2  
AEx de IIB T1/T2/T3  
IP66 / 67

Dimensions in Millimeters (Inches)



Clamp Brackets For Tubing



# EFL Series HID and Quartz Floodlights

## Explosionproof

NEC/CEC:  
Class I, Zone 1 and 2  
Ex de IIB T1/T2/T3  
Class I, Zone 1 and 2  
AEx de IIB T1/T2/T3  
IP66 / 67

### Photometric Data ①

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

----- Longitudinal  
————— Transverse

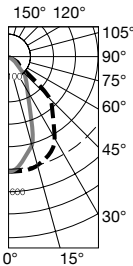
#### 250W halide Narrow Beam

Efficiency 68.3%

NF C 71-121: 0,68B

CANDELA DISTRIBUTION		
0-180	90-270	

0	505	505
5	515	499
10	512	469
15	501	403
20	476	312
25	453	248
30	427	190
35	394	146
40	368	117
45	290	97
50	160	12
55	51	7
60	34	4
65	15	4
70	6	4



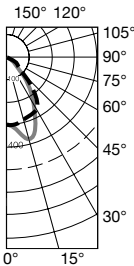
#### 250W halide Wide Beam

Efficiency 67.9%

NF C 71-121: 0,68C

CANDELA DISTRIBUTION		
0-180	90-270	

0	301	301
5	303	318
10	299	342
15	294	387
20	287	382
25	286	306
30	271	237
35	231	208
40	172	186
45	133	140
50	83	104
55	48	18
60	34	8
65	23	6
70	6	6



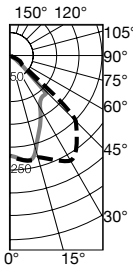
#### 400W halide Narrow Beam

Efficiency 49.3%

NF C 71-121: 0,49C

CANDELA DISTRIBUTION		
0-180	90-270	

0	217	217
5	210	219
10	218	231
15	223	205
20	238	193
25	255	148
30	266	132
35	263	130
40	244	116
45	201	104
50	136	37
55	85	15
60	51	8
65	28	6
70	5	4



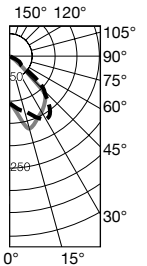
#### 400W halide Wide Beam

Efficiency 46.7%

NF C 71-121: 0,46C

CANDELA DISTRIBUTION		
0-180	90-270	

0	105	105
5	104	106
10	108	130
15	124	165
20	148	177
25	167	183
30	165	147
35	142	127
40	116	113
45	74	115
50	52	103
55	48	40
60	44	13
65	34	9
70	18	6



① 400 W MH: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.

# Areamaster™ ATEX PN Series Floodlights

## Zone 2 – 21 and 22. Metal Halide, High Pressure Sodium, Mercury Vapor

Listed for simultaneous exposure to gas, combustible dusts and flammable gases or vapors.

ATEX/IECEX:  
Zone 2 – 21 and 22  
II 2 D - II 3 GD  
IP66 - IK07/08

### Applications

- Powerful, efficient floodlights for large areas such as industrial complexes and ship loading areas.
- Rated for use in hazardous areas.

### Features

- Highly efficient, integrally ballasted floodlight. Has compact, lightweight, yet rugged die cast aluminum construction.
- Simple installation and maintenance.
- Integral ballast:
  - ATEX/IEC: 230/240 V, 50 Hz
- One piece lens cover.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Socket: E40 (E27 for 70 W HPS version).
- Reflectors: double segment compound parabolic with finish for maximum efficiency.
- Mounting: yoke mount.

### Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

### Standard Finishes

- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: porcelain

### ATEX/IECEX Certifications and Compliances

- Certification Type: Pjn
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: II 3 G
    - Type of Protection: Ex nR IIC Gc
    - Temperature Class: T2 to T4
    - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) [-40 °C to +50 °C (-40 °F to 131 °F) for body size L]
    - ATEX Certificate: LCIE 08 ATEX 6035X
    - IECEX Certificate: IECEX LCI 04.0015
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: II 3 D
    - Type of Protection: Ex t IIC Dc
    - Surface Temperature: T117 °C to T228 °C (T243 °F to T442 °F)
    - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) (-40 °C to +50 °C (-40 °F to 131 °F) for body size L)
    - ATEX Certificate: LCIE 08 ATEX 6035X
    - IECEX Certificate: IECEX LCI 04.0015
  - Dust: Zone 21
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T65 °C to T182 °C (T149 °F to T360 °F)
    - Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
    - CE Declaration of Conformity: 50274
    - ATEX Certificate: LCIE 02 ATEX 6246X



- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK07 with glass diffuser, IK08 with polycarbonate diffuser

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- Size M - Certification Type: Pjn
  - INMETRO Certificate: BVC 11.0394-X ①

① Inmetro certification available on special request only. Contact your local sales representative for more information

# Areamaster™ ATEX PN Series Floodlights

## Zone 2 – 21 and 22. Metal Halide, High Pressure Sodium, Mercury Vapor

Listed for simultaneous exposure to gas, combustible dusts and flammable gases or vapors.

ATEX/IECEX:  
Zone 2 – 21 and 22  
Ⓜ II 2 D - Ⓜ II 3 GD  
IP66 - IK07/08

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide — Areamaster ATEX PN Series Floodlights

PN	M	1	L	25	A	G	XJ	S
Series: PN - PN Series Zone 21: ATEX certified Zone 2-22: ATEX/IECEX certified	Body Size: P - Small M - Medium L - Large	Mounting: 1 - Yoke 5 - Pole Slip-fit	Lamp Type: H - Metal Halide ③ L - High Pressure Sodium M - Mercury Vapor ③	Wattage: 70 - 70 W 15 - 150 W 25 - 250 W 40 - 400 W ① 99 - 1000 W ②	Entry Size: A - M20	Diffuser: G - Glass P - Polycarbonate ②	Options: 225 - 220 Vac, 50 Hz (Magnetic Ballast) XJ - 230/240 Vac, 50 Hz (Magnetic Ballast)	Options: S - Stainless Steel Housing

① 400 Watt is rated for Zones 21-22 and 1000 Watt is rated for Zones 2-22 when used with large body. Select glass diffuser.

② Polycarbonate diffuser is not rated for use in Zones 2-22.

③ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

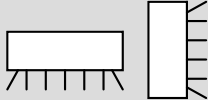
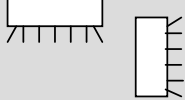
# Areamaster™ ATEX PN Series Floodlights

## Zone 2 – 21 and 22. Metal Halide, High Pressure Sodium, Mercury Vapor

Listed for simultaneous exposure to gas, combustible dusts and flammable gases or vapors.

ATEX/IECEX:  
Zone 2 – 21 and 22  
II 2 D - II 3 GD  
IP66 - IK07/08

### Zone 21 (Dust)

Dust Surface Temperatures for Ta = +40 °C (+104 °F)			
Operating Position			
Lamp Type and Wattage	Glass Diffuser	Polycarbonate Diffuser	Time Before Opening in Minutes
Body Size: M	70 W High Pressure Sodium	+75 °C (+167 °F)	50
	150 W High Pressure Sodium	+101 °C (+214 °F)	25
	250 W High Pressure Sodium	+127 °C (+261 °F)	15
	250 W Metal Halide ①	+123 °C (+253 °F)	15
	250 W Mercury ①	+136 °C (+277 °F)	15
Body Size: L	400 W High Pressure Sodium	+126 °C (+26 °F)	30
	1000 W High Pressure Sodium	+177 °C (+351 °F)	30
	1000 W Metal Halide ①	+182 °C (+360 °F)	30

### Zone 2 (Gas)

Lamp Type and Wattage	T Rating for Ta = +40 °C (+104 °F)	T Rating for Ta = +50 °C (+122 °F)	T Rating for Ta = +55 °C (+131 °F)
70 W High Pressure Sodium	T4	T4	T4
150 W High Pressure Sodium	T4	T4	T4
150 W Metal Halide ①	T4	T4	T4
Body Size: M	250 W High Pressure Sodium	T3	T3 — Cable T ° = +82 °C (+180 °F)
	250 W Metal Halide ①	T3	T3
	250 W Mercury ①	T3	T3 — Cable T ° = +81 °C (+178 °F)
	400 W High Pressure Sodium	T3 — Cable T ° = +87 °C (+187 °F)	T2 — Cable T ° = +92 °C (+198 °F)
	400 W Metal Halide ①	T2 — Cable T ° = +84 °C (+183 °F)	T2 — Cable T ° = +89 °C (+192 °F)
	400 W Mercury ①	T2 — Cable T ° = +84 °C (+183 °F)	T2 — Cable T ° = +89 °C (+192 °F)
Body Size: L	1000 W High Pressure Sodium	T3	—
	1000 W Metal Halide ①	T3	—

### Zone 22 (Dust)

Lamp Type and Wattage	T Rating for Ta = +40 °C (+104 °F)	T Rating for Ta = +50 °C (+122 °F)	T Rating for Ta = +55 °C (+131 °F)
70 W High Pressure Sodium	117 °C (242 °F)	—	—
150 W High Pressure Sodium	130 °C (266 °F)	—	—
150 W Metal Halide ①	128 °C (262 °F)	—	—
Body Size: M	250 W High Pressure Sodium	—	T3 — Cable T ° = +82 °C (+180 °F)
	250 W Metal Halide ①	—	—
	250 W Mercury ①	—	T3 — Cable T ° = +81 °C (+178 °F)
	400 W High Pressure Sodium	T3 — Cable T ° = +87 °C (+187 °F)	T2 — Cable T ° = +92 °C (+198 °F)
	400 W Metal Halide ①	T2 — Cable T ° = +84 °C (+183 °F)	T2 — Cable T ° = +89 °C (+192 °F)
	400 W Mercury ①	T2 — Cable T ° = +84 °C (+183 °F)	T2 — Cable T ° = +89 °C (+192 °F)
Body Size: L	1000 W High Pressure Sodium	+187 °C (+369 °F) for Ta = +50 °C (+122 °F)	Cable T ° = +90 °C (+194 °F)
	1000 W Metal Halide ①	+192 °C (+378 °F) for Ta = +50 °C (+122 °F)	Cable T ° = +90 °C (+194 °F)

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Areamaster™ ATEX PN Series Floodlights

## Zone 2 – 21 and 22. Metal Halide, High Pressure Sodium, Mercury Vapor

Listed for simultaneous exposure to gas, combustible dusts and flammable gases or vapors.

ATEX/IECEX:  
Zone 2 – 21 and 22  
Ⓢ II 2 D - Ⓢ II 3 GD  
IP66 - IK07/08

Lamp Type and Wattage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Permissible lamps (not supplied)	Body Size	Catalog Number ③ ④
<b>Standard with Lamp Glass Sealed on Frame</b>					
70 W HPS	12.1 (26.7)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L70AGXJ
150 W HPS	12.9 (28.4)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L15AGXJ
250 W HPS	14.3 (31.5)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L25AGXJ
400 W HPS	16.0 (35.3)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L40AGXJ ①
400 W HPS	–	–	Ovoid/Tubular	Large	PNL1L40AGXJ ①
150 W MH ④	12.9 (28.4)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1H15AGXJ
250 W MH ④	14.3 (31.5)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1H25AGXJ
400 W MH ④	16.0 (35.3)	62.5 (3814)	Tubular	Medium	PNM1H40AGXJ ①
400 W MH ④	–	–	Ovoid/Tubular	Large	PNL1H40AGXJ ①
250 W MV ④	12.9 (28.4)	62.5 (3814)	Ovoid	Medium	PNM1M25AGXJ
400 W MV ④	13.8 (30.4)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1M40AGXJ ①
<b>With External Polycarbonate Weatherproof Protection ②</b>					
70 W HPS	13.2 (29.1)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L70APXJ
150 W HPS	14.0 (30.9)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L15APXJ
250 W HPS	15.4 (34.0)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1L25APXJ
400 W HPS	–	–	Ovoid/Tubular	Large	PNL1L40APXJ ①
150 W MH ④	14.0 (30.9)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1H15APXJ
250 W MH ④	15.4 (34.0)	62.5 (3814)	Ovoid/Tubular	Medium	PNM1H25APXJ
400 W MH ④	–	–	Ovoid/Tubular	Large	PNL1H40APXJ
250 W MV ④	14.0 (30.9)	62.5 (3814)	Ovoid	Medium	PNM1M25APXJ ①

① 400 Watt is rated for Zones 21-22 and 1000 Watt is rated for Zones 2-22 when used with large body. Select glass diffuser.

② Polycarbonate diffuser is not rated for use in Zones 2-22.

③ For a 220 Vac, 50 Hz, magnetic ballast, replace the letters **XJ** in the 10th and 11th positions with the letters **225**; example: PNP1L70AG225.

④ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.



# Areamaster™ ATEX PN Series Floodlights

Zone 2 – 21 and 22. Metal Halide, High Pressure Sodium, Mercury Vapor

Listed for simultaneous exposure to gas, combustible dusts and flammable gases or vapors.

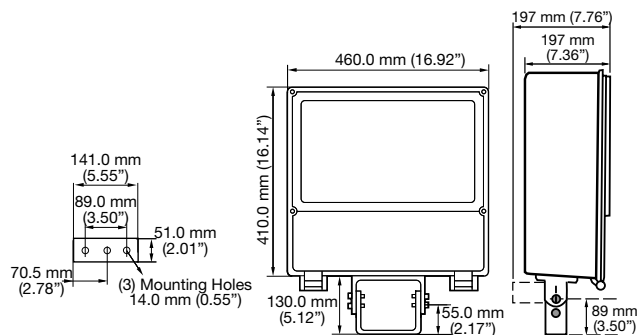
ATEX/IECEX:  
Zone 2 – 21 and 22  
II 2 D - II 3 GD  
IP66 - IK07/08

## Accessories

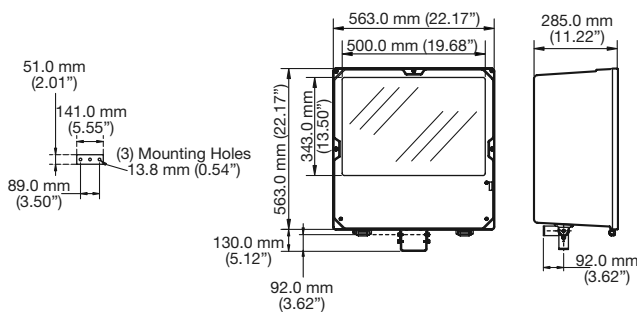
Description	Catalog Number
Fall Prevention Kit 1.2 m (3.94 in) stainless steel chain for M20 cable entry	FESCM20
 Slip-Fitter Adapter — fits medium body	G-SF20
 Slip-Fitter Adapter — fits large body/1000 Watt floodlight	G-AM-8-SF

## Dimensions in Millimeters (Inches)

### Size M



### Size L



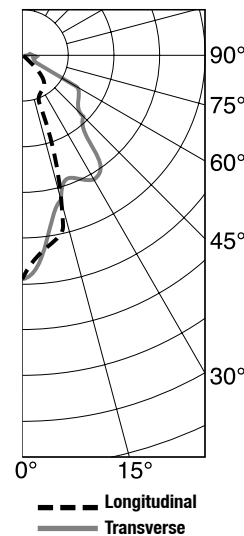
## Photometric Data

Lamps: 70 W High Pressure Sodium

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

Degrees	Candelas (0–180)	Candelas (90–270)
0	487	487
5	439	461
10	416	387
15	372	324
20	208	290
25	129	294
30	116	319
35	111	318
40	101	289
45	86	193
50	70	150
55	84	141
60	62	132
65	22	88
70	9	15

Total Luminaire Efficiency = 74.6%



# ATX™ PC Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ⓢ II 2 GD  
IP66/67 - IK10

## Applications

- Designed for large area lighting in industrial outdoor and indoor hazardous areas.
- Ideal for use in Zones 1 and 2 and 21 and 22 in the oil and gas industry. In locations such as: refineries, pipelines, warehouses, offshore platforms and drilling rigs.

## Features

- Gray epoxy painted light marine grade aluminum housing and door.
- Fast and easy lamp replacement via threaded cover on the side of the fixture. The cover is fitted with a short safety chain.
- Lampholder of the ATEX/IEC version can be easily field-adjusted for either a narrow or wide beam.
- Fixtures operate safely in high ambient temperatures up to +55 °C (+131 °F) and in low ambient temperature up to -25 °C (-13 °F).
- Electrical components (ballast, ignitor and capacitor) are thermally separated from the lighting compartment with an insulating protection, providing extended life.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto 2 captive terminals 2 x 6 mm<sup>2</sup> (2 x 0.009 in<sup>2</sup>); 2 internal earth terminals capacity 6 mm<sup>2</sup> (0.009 in<sup>2</sup>) and 1 external earth terminal capacity 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
- 2 x 20 mm (2 x 0.79 in) clearance holes throughwire cable entries supplied with:
  - One Ex e unarmored cable gland — sealing diameter 6.5 mm to 14.5 mm (0.2 in to 0.57 in)
  - One blanking plug
  - Two M20 locknuts
- For use with either tubular or ellipsoidal shape lamps. See ordering information for details.
- Choice of mounting with galvanized hinged bracket fixed mounting or tube/pole mounting with galvanized brackets.
- Thermoshock and impact-resistant glass factory sealed into the floodlight body.
- Operates in any position.
- Reversible hinge allows for fixture access from either side.
- Internal symmetric reflector.

## Standard Materials

- Housing and door: copperfree marine-grade aluminum alloy
- Lens: toughened safety glass
- Reflector: bright highly polished aluminum
- Bolts: stainless steel bolt
- Cable gland and blanking plug: polyamide
- Locknut: nickel plated brass

## Standard Finishes

- Housing and door: gray epoxy powder paint

## Options

- Other voltages, please contact your sales representative.
- Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V (loop in/loop out wiring possible): add suffix **-T** at the end of the catalog number.
- Asymmetrical light distribution is available, add suffix **-A** to end of catalog number.
- Screwed-on overhead diffuser out of galvanized steel with black painting (see accessories).
- Screwed-on zinc-coated protection guard (see accessories).



## ATEX/IECEX Certifications and Compliances

- Certification Type: Pjd
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
    - Type of Protection: Ex de IIC
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: standard fixture: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F); with asymmetrical optic "C": -25 °C (-13 °F)
- CE Declaration of Conformity: 50207
- ATEX Certificate: LCIE 99/ ATEX 6002
- IECEX Certificate: IECEX LCI 04.0020
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK10

## EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

## Other Certification

- INMETRO Certificate: BVC12.2098 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information

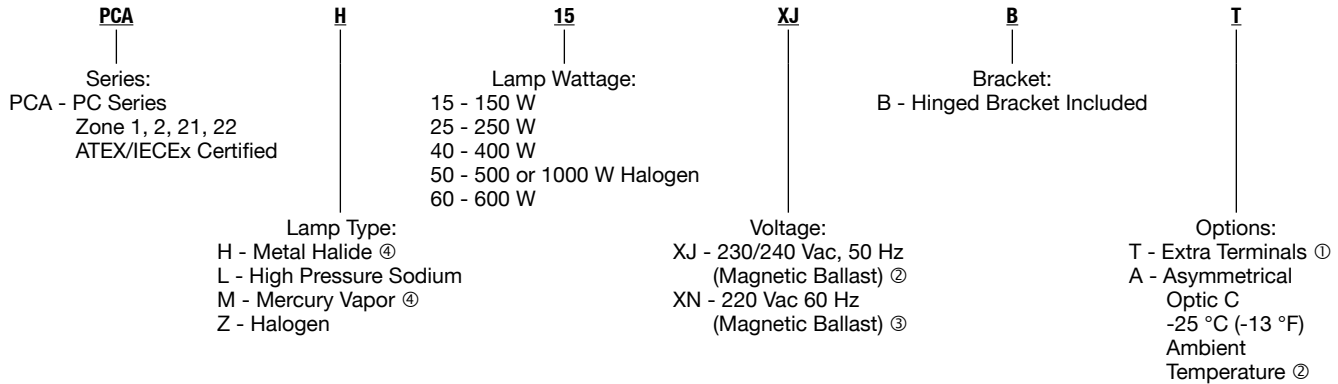
# ATX™ PC Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 - IK10

Order using catalog numbering guide below or select catalog number from the following pages.

## Catalog Numbering Guide — PC Series Floodlights



T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	Gas Temperature Rating According to Ta			Dust Surface Temperature °C (°F)
	+40 °C (+104°F)	+50 °C (+122°F)	+55 °C (+131°F)	
2 x 70 W - H3	T4	T4	T4	+130 (+266)
150 W High Pressure Sodium	T4	T3	T3	+145 (+293)
250 W High Pressure Sodium	T3	T3	T3	+195 (+383)
250 W Metal Halide	T3	T3	T3	+197 (+387)
250 W Mercury Vapor	T3	T3	T3	+194 (+381)
400 W High Pressure Sodium	T3	T3	T3	+189 (+372)
400 W Metal Halide	T3	T3	T3	+193 (+379)
400 W Mercury Vapor	T3	T3	T3	+195 (+383)
600 W High Pressure Sodium	T2	T2	T2	+257 (+495)
500 W Halogen	T2	T2	T2	+267 (+513)
1000 W Halogen	T1	T1	T1	+378 (+712)

① 3 Phase + Neutral.

② Certified for use in ATEX/IECEX governed locations only.


③ Not certified for use in ATEX/IECEX governed locations.

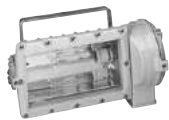
④ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# ATX™ PC Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

	Lamp Wattages	Lampholder	Voltage (+/-10%)	Lamp Type		Weight kg (lb)	Volume dm³ (in³)	Catalog Number ① ②
	High Pressure Sodium							
	150	E40	230/240 V, 50 Hz	x	x	29.0 (64)	104.4 (6374)	PCAL15XJB
	150	E40	220 Vac, 60 Hz	x	x	29.0 (64)	104.4 (6374)	—
	250	E40	230/240 V, 50 Hz	x	x	30.0 (66)	104.4 (6374)	PCAL25XJB
	250	E40	220 Vac, 60 Hz	x	x	30.0 (66)	104.4 (6374)	—
	400	E40	230/240 V, 50 Hz	—	x	32.0 (71)	104.4 (6374)	PCAL40XJB
	400	E40	220 Vac, 60 Hz	—	x	32.0 (71)	104.4 (6374)	—
	600	E40	230/240 V, 50 Hz	—	x	35.0 (77)	104.4 (6374)	PCAL60XJB
	600	E40	220 Vac, 60 Hz	—	x	35.0 (77)	104.4 (6374)	—
	Mercury Vapor ③							
	250	E40	230/240 V, 50 Hz	x	x	30.0 (66)	104.4 (6374)	PCAM25XJB
	250	E40	220 Vac, 60 Hz	x	x	30.0 (66)	104.4 (6374)	—
	400	E40	230/240 V, 50 Hz	—	x	30.5 (67)	104.4 (6374)	PCAM40XJB
400	E40	220 Vac, 60 Hz	—	x	30.5 (67)	104.4 (6374)	—	
Metal Halide ③								
250	E40	230/240 V, 50 Hz	x	x	30.0 (66)	104.4 (6374)	PCAH25XJB	
250	E40	220 Vac, 60 Hz	x	x	30.0 (66)	104.4 (6374)	—	
400	E40	230/240 V, 50 Hz	—	x	32.0 (71)	104.4 (6374)	PCAH40XJB	
400	E40	220 Vac, 60 Hz	—	x	32.0 (71)	104.4 (6374)	—	
Halogen								
500/1000	E40	—	—	x	27.0 (60)	104.4 (6374)	PCAZ50B	



Note: Floodlights supplied with hinged mounting bracket, 1 plug, 1 M20 cable gland — 6.5 mm to 14.5 mm (0.26 in to 0.57 in) diameter. Lamps are not included.

① Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V: add suffix **-T** at the end of the catalog number. Certified for use in ATEX/IECEX governed locations only.

② Asymmetrical light distribution is available, add suffix **-A** to end of catalog number. Certified for use in ATEX/IECEX governed locations only.

③ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

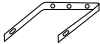
# ATX™ PC Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

**ATEX/IECEX:**  
**Zone 1 and 2 - 21 and 22**  
**II 2 GD**  
**IP66/67 – IK10**

## Accessories

Standard Galvanized Steel Hinged Mounting Bracket Replacement Part



PCHBG

Optional Galvanized Steel Mounting Brackets



Pole/Tube Mounting

1-1/4" to 1-1/2"

PCHC49G

2"

PCHC60G

Pole/Tube

Flat Surface

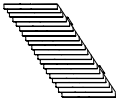
Flat Surface Mounting

PCSBG

400 W Mercury Vapor Lamp

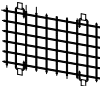
LM400E40

Screwed-on Overhead Diffuser



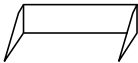
PCGDG

Screwed-on Protective Guard



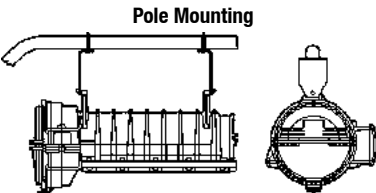
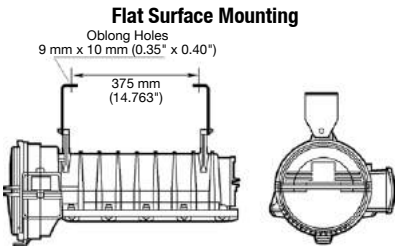
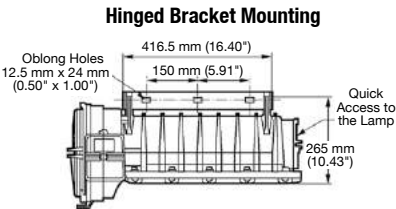
PCPGZ

Visor – Secured With 2 Screws



PCVG

Dimensions in Millimeters (Inches)



# ATX™ PC Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

## Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

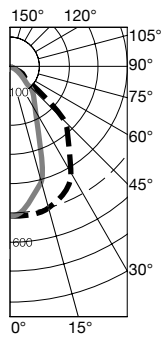
--- Longitudinal  
— Transverse

**Narrow beam Metal Halide 250 W**  
Efficiency 68.3%  
NF C 71-121: 0.68B

### CANDELA DISTRIBUTION

0-180 90-270

0	505	505
5	515	499
10	512	469
15	501	403
20	476	312
25	453	248
30	427	190
35	394	146
40	368	117
45	290	97
50	160	12
55	51	7
60	34	4
65	15	4
70	6	4

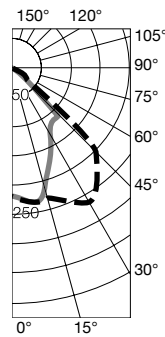


**Narrow beam Metal Halide 400 W ①**  
Efficiency 49.3%  
NF C 71-121: 0.49C

### CANDELA DISTRIBUTION

0-180 90-270

0	217	217
5	210	219
10	218	231
15	223	205
20	238	193
25	255	148
30	266	132
35	263	130
40	244	116
45	201	104
50	136	37
55	85	15
60	51	8
65	28	6
70	5	4

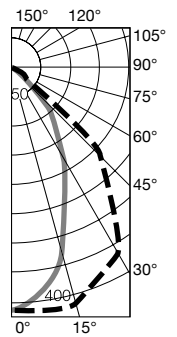


**Narrow beam Halogen 1000 W**  
Efficiency 59.2%  
NF C 71-121: 0.59B

### CANDELA DISTRIBUTION

0-180 90-270

0	417	417
5	406	418
10	419	399
15	419	330
20	408	266
25	398	218
30	371	177
35	344	142
40	295	115
45	213	98
50	135	12
55	68	7
60	34	4
65	16	3
70	5	3

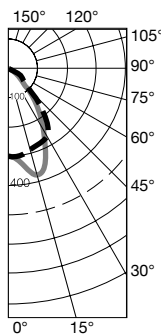


**Wide beam Metal Halide 250 W**  
Efficiency 67.9%  
NF C 71-121: 0.68C

### CANDELA DISTRIBUTION

0-180 90-270

0	301	301
5	303	318
10	299	342
15	294	387
20	287	382
25	286	306
30	271	237
35	231	208
40	172	186
45	133	140
50	83	104
55	48	18
60	34	8
65	23	6
70	6	6

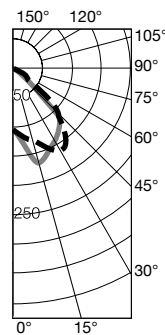


**Wide beam Metal Halide 400 W ①**  
Efficiency 46.7%  
NF C 71-121: 0.46C

### CANDELA DISTRIBUTION

0-180 90-270

0	105	105
5	104	106
10	108	130
15	124	165
20	148	177
25	167	183
30	165	147
35	142	127
40	116	113
45	74	115
50	52	103
55	48	40
60	44	13
65	34	9
70	18	6

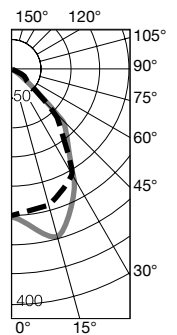


**Wide beam Halogen 1000 W**  
Efficiency 57.7%  
NF C 71-121: 0.57C

### CANDELA DISTRIBUTION

0-180 90-270

0	251	251
5	244	255
10	247	272
15	245	293
20	237	306
25	229	262
30	213	213
35	194	188
40	163	161
45	120	133
50	82	105
55	52	18
60	35	8
65	20	5
70	8	5



① 400 W Metal Halide: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.

# ATX™ PL Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ex II 2 GD  
IP66/67 – IK10

## Applications

- Designed for large area lighting in industrial outdoor and indoor hazardous areas.
- Ideal for use in Zones 1 and 2 and 21 and 22 in the oil and gas industry. In locations such as: refineries, pipelines, warehouses, offshore platforms and drilling rigs.

## Features

- Gray epoxy painted light marine grade aluminum housing and door.
- The cover is fitted with a short safety chain.
- Lampholder can be easily field-adjustable for either a narrow or wide beam.
- Fixtures operate safely in high ambient temperatures up to +55 °C (+131 °F) and in low ambient temperature up to -40 °C (-40 °F).
- Electrical components (ballast, ignitor and capacitor) are thermally separated from the lighting compartment with an insulating protection, providing extended life.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto 2 captive terminals 2 x 6 mm<sup>2</sup> (2 x 0.009 in<sup>2</sup>); 2 internal earth terminals capacity 4 mm<sup>2</sup> (0.006 in<sup>2</sup>) and 1 external earth terminal capacity 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
- 2 x 20 mm (2 x 0.79 in) clearance holes throughwire cable entries supplied with:
  - One Ex e unarmored cable gland — 6.5 mm to 14.5 mm (0.2 in to 0.57 in) sealing diameter.
  - One blanking plug.
  - Two M20 locknuts.
- For use with either tubular or ellipsoidal shape lamps. See ordering information for details.
- Choice of mounting with galvanized hinged bracket fixed mounting or tube/pole mounting with galvanized brackets.
- Thermoshock and impact-resistant glass factory sealed into the cover frame.
- Operates in wall-mounting or down lighting applications.
- Reversible hinge allows for fixture access from either side.
- E40 or H3 lampholders for the 2 x 70 W Vac/Vdc halogen version.
- Internal symmetric reflector.

## Standard Materials

- Housing and door: copperfree marine-grade aluminum alloy
- Lens: toughened safety glass
- Reflector: bright highly polished aluminum
- Bolts: stainless steel bolt
- Cable gland and blanking plug: polyamide
- Locknut: nickel plated brass

## Standard Finishes

- Housing and door: gray epoxy powder paint

## Options

- 1000 W HP Sodium with separate Ex d housing for ballast.
- Other voltages, please contact your sales representative.
- Hinged bracket available: add suffix **-B** at the end of the catalog number.
- Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V (loop in/loop out wiring possible): add suffix **-T** at the end of the catalog number.



- Asymmetrical light distribution is available, add suffix **-A** to end of catalog number.
- Screwed-on overhead diffuser out of galvanized steel with black painting (see accessories).
- Screwed-on zinc-coated protection guard (see accessories).

## ATEX/IECEX Certifications and Compliances

- Certification Type: Pjd
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: Ex II 2 G
    - Type of Protection: Ex de IIB
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: Ex II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: -40 °C ≤ Ta ≤ +55 °C (-40 °F ≤ Ta ≤ +131 °F)
- CE Declaration of Conformity: 50207
- ATEX Certificate: LCIE 99/ ATEX 6002
- IECEx Certificate: IECEx LCI 04.0020
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK10

## EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

## Other Certification

- INMETRO Certificate: BVC12.2098 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

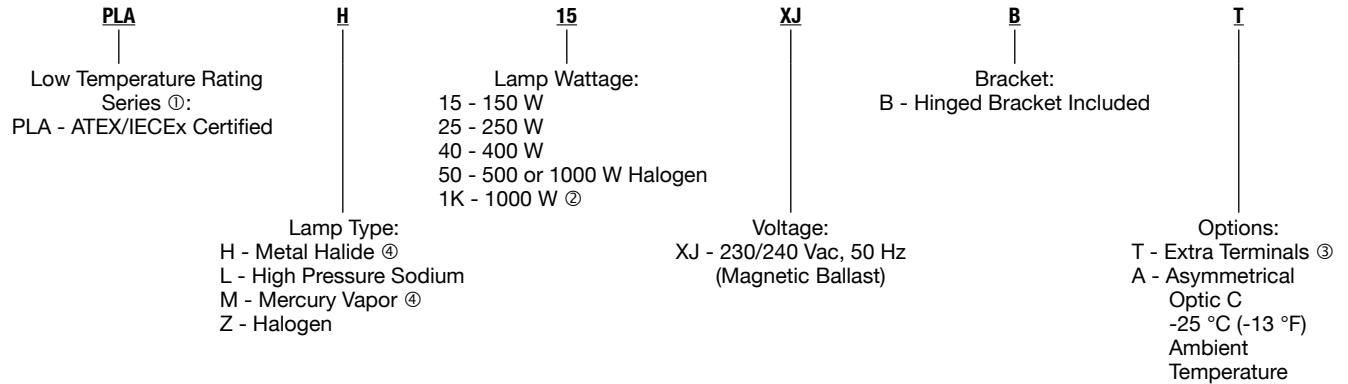
# ATX™ PL Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

Order using catalog numbering guide below or select catalog number from the following pages.

## Catalog Numbering Guide — PL Series Floodlights



T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	Gas Temperature Rating According to Ta			Dust Surface Temperature °C (°F)
	+40 °C (+104°F)	+50 °C (+122°F)	+55 °C (+131°F)	
150 W High Pressure Sodium	T4	T3	T3	+145 (+293)
250 W High Pressure Sodium	T4	T3	T3	+145 (+293)
250 W Metal Halide	T3	T3	T3	+197 (+387)
250 W Mercury Vapor	T3	T3	T3	+194 (+381)
400 W High Pressure Sodium	T4	T3	T3	+144 (+291)
400 W Metal Halide	T3	T3	T3	+193 (+379)
400 W Mercury Vapor	T3	T3	T3	+195 (+383)
600 W High Pressure Sodium	T2	T2	T2	+257 (+495)
500 W Halogen	T2	T2	T2	+267 (+513)
1000 W Halogen	T1	T1	T1	+378 (+712)

① Only for 250 W and 400 W Versions.

② Available for High Pressure Sodium Lamp Only + Separate Gear Box.

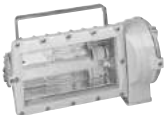
③ 3 Phase + Neutral.

④ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

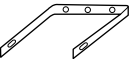


# ATX™ PL Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 or IP66/67 – IK10

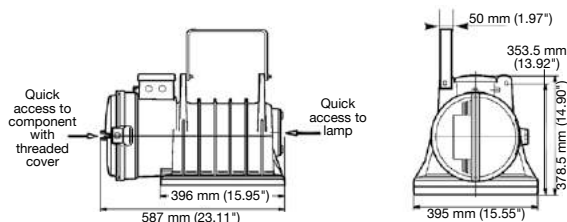
	Lamp Wattages	Lampholder	Voltage (+/-10%)	Lamp Type		Weight kg (lb)	Volume dm³ (in³)	Catalog Number ① ② ③
				Ellipsoidal	Tubular			
	<b>High Pressure Sodium</b>							
	250	E40	230/240 V 50 Hz	x	x	37.5 (83)	104.4 (6374)	<b>PLAL25XJB</b>
	400	E40	220 V 50 Hz	x	x	37.5 (83)	104.4 (6374)	<b>PLAL40XAB</b>
	<b>Halogen</b>							
	500/1000	E40		–	x	34.0 (75)	104.4 (6374)	<b>PLAZ50B</b>

## Accessories and Replacement Parts

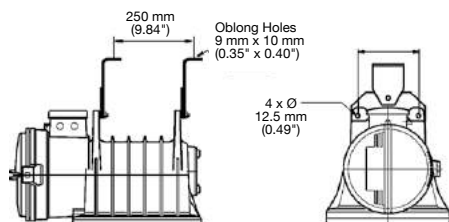
					Catalog Number
Galvanized Steel Hinged Brackets					
					PCHBG
Galvanized Steel Brackets					
		Pole/Tube Mounting	1-1/4" to 1-1/2"	PNHC49G	
			2"	PNHC60G	
Pole/Tube	Flat Surface	Flat Surface Mounting	PNSBG		
400 W Mercury Vapor Lamp					LM400E40

## Dimensions in Millimeters (Inches)

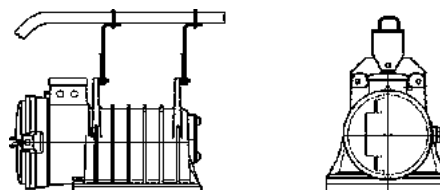
### Hinged Bracket Mounting



### Flat Surface Mounting



### Pole Mounting



Note: Floodlights supplied with hinged mounting bracket, 1 plug, 1 M20 cable gland — diameter 6.5 mm to 14.5 mm (0.26 in to 0.57 in). Lamps are not included.

- ① Hinged bracket available: add suffix **-B** at the end of the catalog number.
- ② Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V: add suffix **-T** at the end of the catalog number.
- ③ Asymmetrical light distribution is available, add suffix **-A** to end of catalog number.

# ATX™ PL Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 or IP66/67 – IK10

## Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

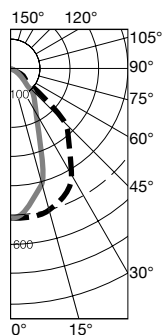
— Longitudinal  
— Transverse

### Narrow beam Metal Halide 250 W

Efficiency 68.3%  
NF C 71-121: 0.68B

#### CANDELA DISTRIBUTION

0-180	90-270
0	505 505
5	515 499
10	512 469
15	501 403
20	476 312
25	453 248
30	427 190
35	394 146
40	368 117
45	290 97
50	160 12
55	51 7
60	34 4
65	15 4
70	6 4

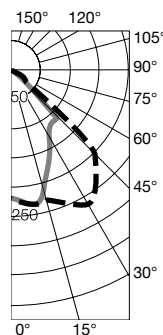


### Narrow beam Metal Halide 400 W ①

Efficiency 49.3%  
NF C 71-121: 0.49C

#### CANDELA DISTRIBUTION

0-180	90-270
0	217 217
5	210 219
10	218 231
15	223 205
20	238 193
25	255 148
30	266 132
35	263 130
40	244 116
45	201 104
50	136 37
55	85 15
60	51 8
65	28 6
70	5 4

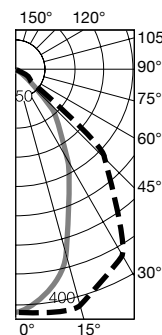


### Narrow beam Halogen 1000 W

Efficiency 59.2%  
NF C 71-121: 0.59B

#### CANDELA DISTRIBUTION

0-180	90-270
0	417 417
5	406 418
10	419 399
15	419 330
20	408 266
25	398 218
30	371 177
35	344 142
40	295 115
45	213 98
50	135 12
55	68 7
60	34 4
65	16 3
70	5 3

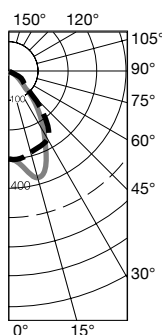


### Wide beam Metal Halide 250 W

Efficiency 67.9%  
NF C 71-121: 0.68C

#### CANDELA DISTRIBUTION

0-180	90-270
0	301 301
5	303 318
10	299 342
15	294 387
20	287 382
25	286 306
30	271 237
35	231 208
40	172 186
45	133 140
50	83 104
55	48 18
60	34 8
65	23 6
70	6 6

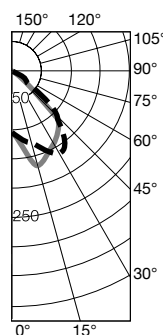


### Wide beam Metal Halide 400 W ①

Efficiency 46.7%  
NF C 71-121: 0.46C

#### CANDELA DISTRIBUTION

0-180	90-270
0	105 105
5	104 106
10	108 130
15	124 165
20	148 177
25	167 183
30	165 147
35	142 127
40	116 113
45	74 115
50	52 103
55	48 40
60	44 13
65	34 9
70	18 6

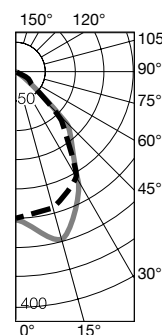


### Wide beam Halogen 1000 W

Efficiency 57.7%  
NF C 71-121: 0.57C

#### CANDELA DISTRIBUTION

0-180	90-270
0	251 251
5	244 255
10	247 272
15	245 293
20	237 306
25	229 262
30	213 213
35	194 188
40	163 161
45	120 133
50	82 105
55	52 18
60	35 8
65	20 5
70	8 5



① 400 W Metal Halide: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.

# ATX™ PB Series Floodlights

Flameproof. Metal Halide, Sodium, Mercury Vapor, Halogen

NEC/CEC:  
AEx/Ex de IIB IP 66  
Ex de IIB  
IP66

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ex II 2 GD  
IP66 – IK10

## Applications

- Designed for large area lighting in industrial outdoor and indoor hazardous areas.
- Ideal for use in Zones 1 and 2 and 21 and 22 in the oil and gas industry. In locations such as: refineries, pipelines, warehouses, offshore platforms and drilling rigs.

## Features

- Gray epoxy painted light marine grade aluminum housing and door.
- Fast and easy lamp replacement via threaded cover on the side of the fixture. The cover is fitted with a short safety chain.
- Lampholder can be easily field-adjustable for either a narrow or wide beam.
- Fixtures operate safely in high ambient temperatures up to +55 °C (+131°F) and in low ambient temperature up to -40 °C (-40 °F).
- Electrical components (ballast, ignitor and capacitor) are thermally separated from the lighting compartment with a bulkhead, providing extended life.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto 2 captive terminals 2 x 6 mm<sup>2</sup> (2 x 0.009 in<sup>2</sup>); 2 internal earth terminals capacity 6 mm<sup>2</sup> (0.009 in<sup>2</sup>) and 1 external earth terminal capacity 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
- 2 x 20 mm (2 x 0.79 in) clearance holes throughwire cable entries supplied with:
  - One Ex e unarmored cable gland — sealing diameter 6.5 mm to 14.5 mm (0.2 in to 0.57 in)
  - One blanking plug
  - Two M20 locknuts
- For use with either tubular or ellipsoidal shape lamps. See ordering information for details.
- Choice of mounting with galvanized hinged bracket fixed mounting or tube/pole mounting with galvanized brackets.
- Thermoshock and impact-resistant glass factory sealed into the cover frame.
- Operates in any position.
- Reversible hinge allows for fixture access from either side.
- E40 or H3 lampholders for the 2 x 70 W Vac/Vdc halogen version.
- Internal symmetric reflector.

## Standard Materials

- Housing and door: copperfree marine-grade aluminum alloy
- Lens: toughened safety glass
- Reflector: bright highly polished aluminum
- Bolts: stainless steel bolt
- Cable gland and blanking plug: polyamide
- Locknut: nickel plated brass

## Standard Finishes

- Housing and door: gray epoxy powder paint

## Options

- Other voltages, please contact your sales representative.
- Hinged bracket available: add suffix **-T** at the end of the catalog number.
- Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V (loop in/loop out wiring possible): add suffix **-T** at the end of the catalog number.



- Asymmetrical light distribution is available, add suffix **-A** to end of catalog number.
- Screwed-on overhead diffuser out of galvanized steel with black painting (see accessories).
- Screwed-on zinc-coated protection guard (see accessories).

## NEC/CEC Certifications and Compliances

- AEx/Ex de IIB IP 66
- cCSAus Ex de IIB IP 66
- 175 W Metal Halide and Pulse Start Metal Halide
- Safety starter

## ATEX/IECEX Certifications and Compliances

- Certification Type: PJd
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: Ex II 2 G
    - Type of Protection: Ex de IIB
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: Ex II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F)
- CE Declaration of Conformity: 50207
- ATEX Certificate: LCIE 99/ ATEX 6002
- IECEx Certificate: IECEx LCI 04.0020
- Index of Protection according EN/IEC 60529: IP66 (Type PB)
- Impact Resistance (shock): IK10

## EURASEC Certification

- EURASEC N° TC RU C-FR.1505.B.00912

# ATX™ PB Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

NEC/CEC:  
AEx/Ex de IIB IP 66  
Ex de IIB  
IP66

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK10

Order using catalog numbering guide below or select catalog number from the following pages.

## Catalog Numbering Guide — PB Series Floodlights

PBA	H	15	XJ	B	I
Series: PBA - PB Series Floodlight IIB NEC/CEC and Zone 1, 2, 21, 22 ATEX/IECEX Certified	Lamp Type: H - Metal Halide ③ L - High Pressure Sodium M - Mercury Vapor ③ Z - Halogen	Lamp Wattage: 70 - 2 x 70 W Halogen ① 15 - 150 W 25 - 250 W 40 - 400 W 50 - 500 or 1000 W Halogen	Voltage: XJ - 230/240 Vac, 50 Hz (Magnetic Ballast) BT - 24 Vac/Vdc ①	Bracket: B - Hinged Bracket Included	Options: T - Extra Terminals ② A - Asymmetrical Optic C

T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	Gas Temperature Rating According to Ta			Dust Surface Temperature °C (°F)
	+40 °C (+104°F)	+50 °C (+122°F)	+55 °C (+131°F)	
2 x 70 W - H3 ①	T4	T4	T4	+130 (+266)
150 W High Pressure Sodium	T4	T3	T3	+145 (+293)
250 W High Pressure Sodium	T3	T3	T3	+195 (+383)
250 W Metal Halide	T3	T3	T3	+197 (+387)
250 W Mercury Vapor	T3	T3	T3	+194 (+381)
400 W High Pressure Sodium	T3	T3	T3	+189 (+372)
400 W Metal Halide	T3	T3	T3	+193 (+379)
400 W Mercury Vapor	T3	T3	T3	+195 (+383)
600 W High Pressure Sodium	T2	T2	T2	+257 (+495)
500 W Halogen	T2	T2	T2	+267 (+513)
1000 W Halogen	T1	T1	T1	+378 (+712)

① 2 x 70 W Halogen 24 Vac/Vdc.

② 3 Phase + Neutral.

③ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.


# ATX™ PB Series Floodlights

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

NEC/CEC:  
AEx/Ex de IIB IP 66  
Ex de IIB  
IP 66

ATEX/IECEx:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 or IP66/67 - IK10

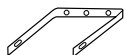
HID/FLOODLIGHT: NEC/CEC, ATEX/IECEx FLAMEPROOF

	Lamp Wattages	Lampholder	Voltage (+/-10%)	Lamp Type		Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number ② ③
	High Pressure Sodium							
	150	E40	230/240 V, 50 Hz	x	x	29.3 (65)	79.4 (4847)	PBAL15XJB
	250	E40	230/240 V, 50 Hz	x	x	30.3 (67)	79.4 (4847)	PBAL25XJB
	400	E40	230/240 V, 50 Hz	–	x	31.8 (70)	79.4 (4847)	PBAL40XJB
	Mercury Vapor ④							
	250	E40	230/240 V, 50 Hz	x	x	29.3 (65)	79.4 (4847)	PBAM25XJB
	400	E40	230/240 V, 50 Hz	–	x	29.8 (66)	79.4 (4847)	PBAM40XJB
	Metal Halide							
	250	E40	230/240 V, 50 Hz	x	x	30.3 (67)	79.4 (4847)	PBAH25XJB
400	E40	230/240 V, 50 Hz	–	x	31.8 (70)	79.4 (4847)	PBAH40XJB	
Halogen ④								
500/1000	E40	–	–	x	26.3 (58)	79.4 (4847)	PBAZ50B	
2 x 70	H3	24 Vac/Vdc, 50 Hz	–	–	27.3 (60)	79.4 (4847)	PBAZ70BTB ①	



## Accessories

### Galvanized Steel Hinged Brackets



PBHBG

### Pole/Tube Mounting Galvanized Steel Brackets



1-1/4" to 1-1/2"

PNHC49G

2"

PNHC60G

### Flat Surface Mounting Galvanized Steel Brackets

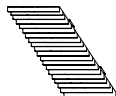


PNSBG

### 400 W Mercury Vapor Lamp

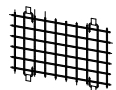
LM400E40

### Screwed-on Overhead Diffuser



PBGDG

### Screwed-on Protective Guard



PBPGZ

Note : Floodlights supplied with hinged mounting bracket, 1 plug, 1 M20 cable gland — 6.5 mm to 14.5 mm (0.26 in to 0.57 in) diameter. Lamps are not included.

① Supplied with 2 x 70 W H3 bulbs, 24 Vac/Vdc.

② Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V: add suffix -T at the end of the catalog number.

③ Asymmetrical light distribution is available, add suffix -A to end of catalog number.

④ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# ATX™ PB Series Floodlights

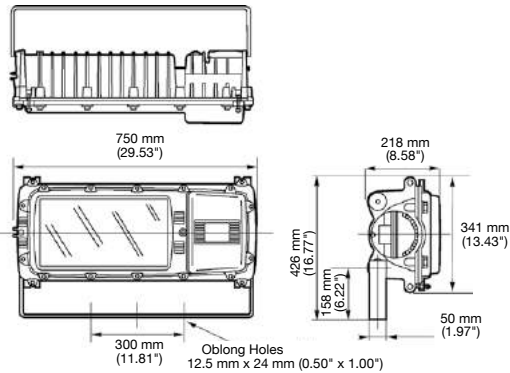
Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen

NEC/CEC:  
AEx/Ex de IIB IP 66  
Ex de IIB  
IP66

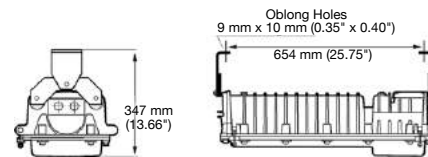
ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK10

## Dimensions in Millimeters (Inches)

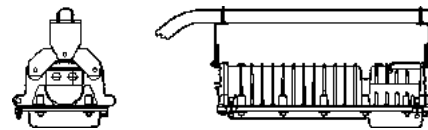
### Hinged Bracket Mounting



### Flat Surface Mounting



### Pole Mounting



## Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

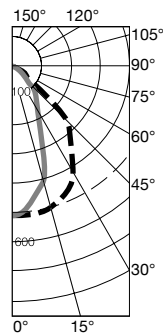
--- Longitudinal  
— Transverse

Narrow beam Metal Halide 250 W  
Efficiency 68.3%  
NF C 71-121: 0.68B

### CANDELA DISTRIBUTION

0-180 90-270

0	505	505
5	515	499
10	512	469
15	501	403
20	476	312
25	453	248
30	427	190
35	394	146
40	368	117
45	290	97
50	160	12
55	51	7
60	34	4
65	15	4
70	6	4

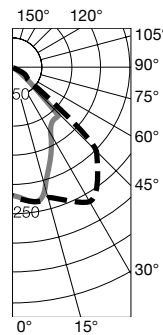


Narrow beam Metal Halide 400 W ①  
Efficiency 49.3%  
NF C 71-121: 0.49C

### CANDELA DISTRIBUTION

0-180 90-270

0	217	217
5	210	219
10	218	231
15	223	205
20	238	193
25	255	148
30	266	132
35	263	130
40	244	116
45	201	104
50	136	37
55	85	15
60	51	8
65	28	6
70	5	4

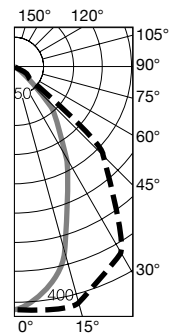


Narrow beam Halogen 1000 W  
Efficiency 59.2%  
NF C 71-121: 0.59B

### CANDELA DISTRIBUTION

0-180 90-270

0	417	417
5	406	418
10	419	399
15	419	330
20	408	266
25	398	218
30	371	177
35	344	142
40	295	115
45	213	98
50	135	12
55	68	7
60	34	4
65	16	3
70	5	3

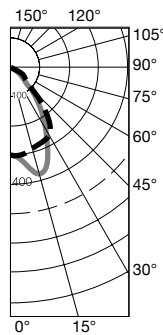


Wide beam Metal Halide 250 W  
Efficiency 67.9%  
NF C 71-121: 0.68C

### CANDELA DISTRIBUTION

0-180 90-270

0	301	301
5	303	318
10	299	342
15	294	387
20	287	382
25	286	306
30	271	237
35	231	208
40	172	186
45	133	140
50	83	104
55	48	18
60	34	8
65	23	6
70	6	6

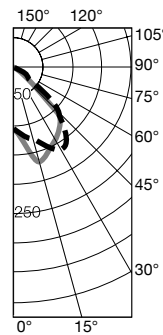


Wide beam Metal Halide 400 W ①  
Efficiency 46.7%  
NF C 71-121: 0.46C

### CANDELA DISTRIBUTION

0-180 90-270

0	105	105
5	104	106
10	108	130
15	124	165
20	148	177
25	167	183
30	165	147
35	142	127
40	116	113
45	74	115
50	52	103
55	48	40
60	44	13
65	34	9
70	18	6

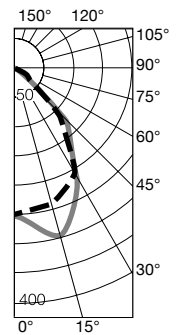


Wide beam Halogen 1000 W  
Efficiency 57.7%  
NF C 71-121: 0.57C

### CANDELA DISTRIBUTION

0-180 90-270

0	251	251
5	244	255
10	247	272
15	245	293
20	237	306
25	229	262
30	213	213
35	194	188
40	163	161
45	120	133
50	82	105
55	52	18
60	35	8
65	20	5
70	8	5



① 400 W Metal Halide: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.

# Areamaster™ 250/400 Integrally Ballasted Floodlights

## 175 W to 400 W HID

For ordinary locations. NOT available for use in CEC governed locations.

### NEC:

Rated for Ordinary (Unclassified) Locations

### Applications

- Powerful, efficient lighting for medium and large areas such as:
  - Shopping malls
  - Parking lots
  - Sports areas
  - New car lot lighting
  - Security lighting
  - Industrial process lighting

### Features

- Compact in size, attractively styled contemporary design, rugged and dependable.
- Easy to install and service.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- One-piece housing.
- One-piece lens cover. Secured by four 1/4" Dia. captive stainless steel slotted hex-head bolts.
- Thermal shock and impact resistant glass lens.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Heavy duty mogul-base porcelain socket with heavy gauge brass, nickel-plated, double lamp-grip screw shell and springloaded center contact.
- Compound parabolic, double segment, finished aluminum reflector for optimum efficiency.
- Mounting choice:
  - (1) Yoke mount, zinc plated steel yoke with architectural bronze polyester finish
  - (2) Pole mount, built-in slip-fitter, for internal wiring, adjustable laterally and vertically, slip fits 50.8 mm (2.00") thru 63.5 mm (2.50") 2" or 2-1/2" pipe, architectural bronze polyester finish available for use in CEC governed locations
- Cool operating temperatures translate into long luminaire life.

### Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

### Standard Finishes

- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: nickel-plated

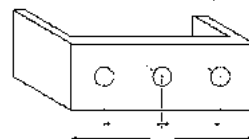
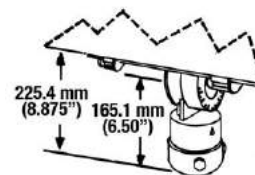
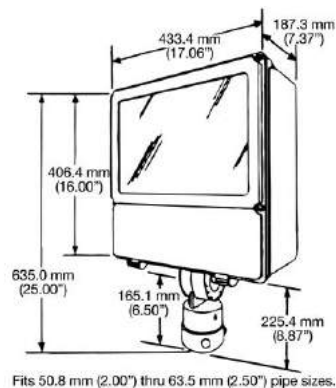
### NEC/CEC Certifications and Compliances

- UL Standard: 844, 1598, 1598A



Areamaster with Integral Pole Slip-fit

### Dimensions in Millimeters (Inches)



# Areamaster™ 250/400 Integrally Ballasted Floodlights

## 175 W to 400 W HID

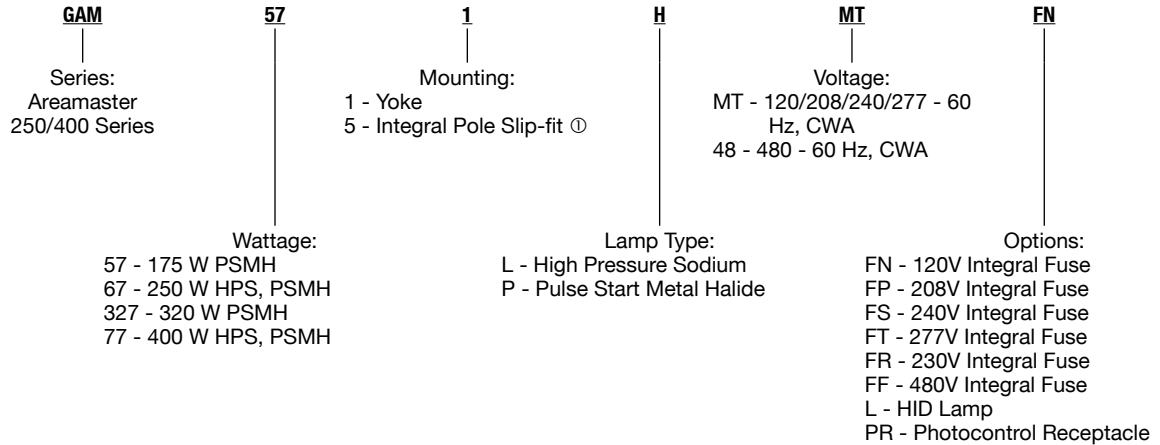
For ordinary locations. NOT available for use in CEC governed locations.

NEC:

Rated for Ordinary (Unclassified) Locations

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For Areamaster 250/400 Floodlights



Lamp	Line Voltage	Weight kg (lb)	Volume dm³ (in³)	Catalog Number	
				Yoke Mount	Slip-Fit Mount ①
High Pressure Sodium					
250 W HPS	120/208/240/277	14.3 (31.5)	62.5 (3814)	G-AM671L-MT	G-AM675L-MT
	480			G-AM671L-48	G-AM675L-48
400 W HPS	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM771L-MT	G-AM775L-MT
	480			G-AM771L-48	G-AM775L-48
Pulse Start Metal Halide					
175 W PSMH	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AM571P-MT	G-AM575P-MT
	480			G-AM571P-48	G-AM575P-48
250 W PSMH	120/208/240/277	14.3 (31.5)	62.5 (3814)	G-AM671P-MT	G-AM675P-MT
	480			G-AM671P-48	G-AM675P-48
320 W PSMH	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM3271P-MT	G-AM3275P-MT
	480			G-AM3271P-48	G-AM3275P-48
400 W PSMH	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM771P-MT	G-AM775P-MT
	480			G-AM771P-48	G-AM775P-48







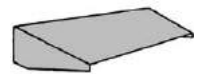
① Slip-fits 2" or 2-1/2" pipe-size tenons.

# Areamaster™ 250/400 Integrally Ballasted Floodlights

175 W to 400 W HID

For ordinary locations. NOT available for use in CEC governed locations.

NEC:  
Rated for Ordinary (Unclassified) Locations

	Description	Catalog Numbers
<b>Crossarm Mounting Bracket</b>		
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	<b>G-AM-8-CA</b>
<b>Pipe or Wall Mount Bracket</b>		
	Used with G-AM-8-CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-WB</b>
<b>Poletop Slip-Fitter</b>		
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	<b>G-SF20</b>
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-SF</b>
<b>Locking-Type Photocontrol Receptacle</b>		
	For NEMA type photocontrol, with installation hardware and instructions.	<b>G-1PCR</b>
<b>Vandal Shield</b>		
	UV stabilized polycarbonate, with installation hardware and instructions.	<b>G-AM-6-VS</b>
<b>Top Visor</b>		
	Easy to install with hardware supplied. Aluminum, with architectural bronze polyester finish.	<b>G-AM-6-V</b>

HID/FLOODLIGHT: NEC/CEC ORDINARY LOCATION

Appleton®

# Areamaster™ 250/400 Integrally Ballasted Floodlights

## 175 W to 400 W HID

For ordinary locations. NOT available for use in CEC governed locations.

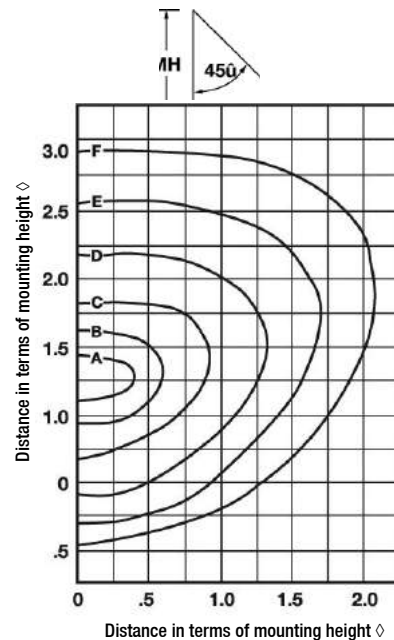
### NEC:

Rated for Ordinary (Unclassified) Locations

Line Voltage	Frequency	Type of Ballast	Starting Amps	Operating Amps	Total Watts
<b>250 Watt High Pressure Sodium</b>					
120	60	CWA	2.00	2.50	295
208	60	CWA	1.20	1.50	295
240	60	CWA	1.00	1.30	295
277	60	CWA	0.85	1.10	295
480	60	CWA	0.40	0.65	295
<b>400 Watt High Pressure Sodium</b>					
120	60	CWA	3.30	3.80	465
208	60	CWA	1.80	2.20	465
240	60	CWA	1.60	1.90	465
277	60	CWA	1.40	1.70	465
480	60	CWA	0.80	1.00	465
<b>175 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	0.90	1.78	199
208	60	Super CWA	0.50	1.08	199
240	60	Super CWA	0.35	0.89	199
277	60	Super CWA	0.30	0.76	199
480	60	Super CWA	0.25	0.50	213
<b>250 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	1.90	2.50	288
208	60	Super CWA	1.10	1.45	288
240	60	Super CWA	0.96	1.25	288
277	60	Super CWA	0.85	1.10	288
480	60	Super CWA	0.45	0.60	285
<b>320 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	2.60	3.25	368
208	60	Super CWA	1.50	1.90	368
240	60	Super CWA	1.30	1.65	368
277	60	Super CWA	1.15	1.40	368
480	60	Super CWA	0.60	0.80	368
<b>400 Watt Pulse Start Metal Halide</b>					
120	60	Super CWA	3.50	4.00	454
208	60	Super CWA	2.00	2.30	454
240	60	Super CWA	1.25	2.00	454
277	60	Super CWA	1.50	1.75	454
480	60	Super CWA	0.90	1.00	454

### Photometric Data

#### Typical Footcandle Values ♦



Mtg. Ht. Meters (Feet)	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F
<b>400W HPS</b>						
18.3 m (60')	3.27	2.74	1.82	0.92	0.37	0.18
15.2 m (50')	4.74	4.00	2.90	1.37	0.52	0.27
12.2 m (40')	7.65	6.28	4.38	2.27	0.82	0.43
9.1 m (30')	13.10	10.92	7.83	3.47	1.45	0.77
6.1 m (20')	28.22	25.55	17.37	7.28	3.46	1.82
<b>400W PSMH</b>						
18.3 m (60')	2.60	1.86	1.12	0.65	0.37	0.19
15.2 m (50')	3.72	2.60	1.66	0.85	0.54	0.28
12.2 m (40')	6.14	4.05	2.60	1.49	0.84	0.40
9.1 m (30')	10.96	8.74	4.46	2.42	1.49	0.76
6.1 m (20')	19.33	16.35	10.41	5.94	3.53	1.67
Mtg. Ht. Meters (Feet)	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F
<b>250W HPS</b>						
18.3 m (60')	1.96	1.64	1.09	0.55	0.22	0.11
15.2 m (50')	2.84	2.40	1.74	0.82	0.31	0.16
12.2 m (40')	4.58	3.76	2.62	1.36	0.49	0.26
9.1 m (30')	7.85	6.54	4.69	2.08	0.87	0.46
6.1 m (20')	16.90	15.30	10.40	4.36	2.07	1.09
<b>250W PSMH</b>						
18.3 m (60')	1.90	1.63	0.82	0.48	0.27	0.14
15.2 m (50')	2.72	1.90	1.22	0.63	0.39	0.20
12.2 m (40')	4.48	2.96	1.90	1.09	0.61	0.30
9.1 m (30')	8.00	6.40	3.26	1.76	1.09	0.55
6.1 m (20')	14.40	11.97	7.61	4.35	2.58	1.22

For 175W PSMH Lamps 0.85; for 250W PSMH use 1.22.

♦ i.e., ratio of distance to height. Example: @ 6.1 meter (20 foot) mounting height, 1 means 6.1 meter (20 foot); 2 means 12.2 meter (40 foot), etc.

♦ Photometric charts available on request.

# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W and 1500 W HID

For ordinary locations. NOT available for use in CEC governed locations.

**NEC:**  
Listed for Ordinary (Unclassified) Locations

### Applications

- Powerful, efficient weatherproof floodlights for large areas such as:
  - Shopping malls
  - Industrial complexes
  - Ship loading areas
  - Mining sites
  - Parking lots
  - Sports areas
- Suitable for wet locations.

### Features

- Highly efficient, integrally ballasted floodlight. Has compact, lightweight, yet rugged diecast aluminum construction. Combines architecturally beautiful design with rugged dependability, simple installation and maintenance.
- Easy to install and service.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- One-piece housing.
- One-piece lens cover. Secured by four 1/4" Dia. captive stainless steel slotted hex-head bolts.
- Thermal shock and impact resistant glass lens.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Heavy duty mogul-base porcelain socket with heavy gauge brass, nickel-plated, double lamp-grip screw shell and spring-loaded center contact.
- Compound parabolic, double segment, finished aluminum reflector for optimum efficiency.
- Mounting choice:
  - (1) Yoke mount, zinc plated steel yoke with architectural bronze polyester finish.
  - (2) Pole mount, built-in slip-fitter, for internal wiring, adjustable laterally and vertically, slip fits 2" or 2-1/2" pipe, architectural bronze polyester finish.
- 3/4" NPT tapped hub for power entry.



Yoke



Slip-Fit

Projected Area: 0.31 Sq. M (3.36 Sq. Ft.)

### Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

### Standard Finishes

- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: nickel-plated

### NEC Certifications and Compliances

- UL Standard: UL 1598
- UL Listed: E85142

Order using catalog numbering guide below or select catalog number from tables on following pages.

#### Catalog Numbering Guide For Areamaster 1000 Floodlights

GAM	86	1	H	MT	FN
Series: Areamaster 1000 Series	Wattage: 86 - 1000 W HPS, MH, PSMH 96 - 1500 W MH	Mounting: 1 - Yoke 5 - Integral Pole Slip-fit ①	Lamp Type: H - Metal Halide L - High Pressure Sodium P - Pulse Start Metal Halide	Voltage: MT - 120/208/240/277 - 60 Hz, CWA 48 - 480 - 60 Hz, CWA	Options: FN - 120V Integral Fuse FP - 208V Integral Fuse FS - 240V Integral Fuse FT - 277V Integral Fuse FF - 480V Integral Fuse L - HID Lamp PR - Photocontrol Receptacle

① Slip-fits 2" or 2-1/2" pipe-size tenons.

# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W and 1500 W HID

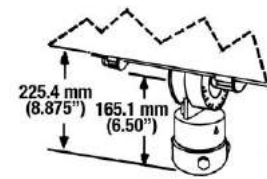
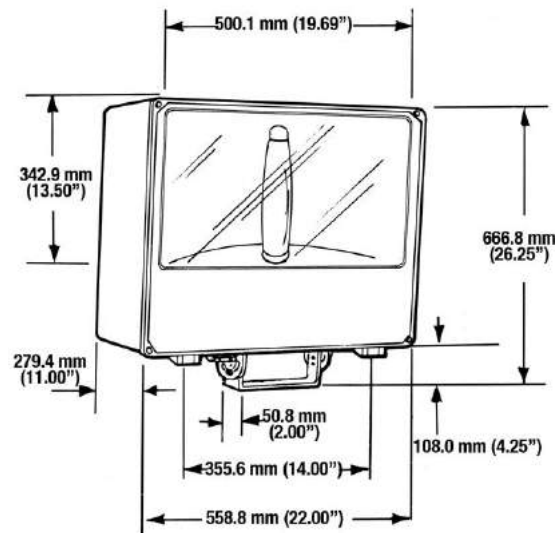
For ordinary locations. NOT available for use in CEC governed locations.

### NEC:

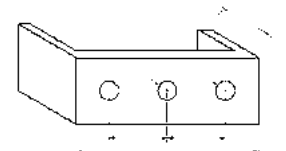
Listed for Ordinary (Unclassified) Locations

Lamp Watts	Line Voltage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Yoke Mount Catalog Number	Slip-Fit Mount Catalog Number ①
High Pressure Sodium					
1000	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM861L-MT	G-AM865L-MT
1000	480			G-AM861L-48	G-AM865L-48
Metal Halide					
1000	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM861H-MT	G-AM865H-MT
1000	480			G-AM861H-48	G-AM865H-48
1500	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM961H-MT	G-AM965H-MT
1500	480			G-AM961H-48	G-AM965H-48
Pulse Start Metal Halide					
1000	120/208/240/277	29.48 (65.0)	75.7 (4620)	G-AM861P-MT	G-AM865P-MT
1000	480			G-AM861P-48	G-AM865P-48

### Dimensions in Millimeters (Inches)



Slip-Fit Mount



Yoke Mount







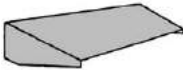
① Slip-fits 2" or 2-1/2" pipe-size tenons.

# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W and 1500 W HID

For ordinary locations. NOT available for use in CEC governed locations.

**NEC:**  
Listed for Ordinary (Unclassified) Locations

	Description	Catalog Numbers
<b>Crossarm Mounting Bracket</b>		
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	<b>G-AM-8-CA</b>
<b>Pipe or Wall Mount Bracket</b>		
	Used with G-AM-8-CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-WB</b>
<b>Poletop Slip-Fitter</b>		
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	<b>G-SF20</b>
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-SF</b>
<b>Locking-Type Photocontrol Receptacle</b>		
	For NEMA type photocontrol, with installation hardware and instructions.	<b>G-1PCR</b>
<b>Vandal Shield</b>		
	UV stabilized polycarbonate, with installation hardware and instructions.	<b>G-AM-8-NVS</b>
<b>Top Visor</b>		
	Easy to install with hardware supplied. Aluminum, with architectural bronze polyester finish.	<b>G-AM-6-NV</b>

HID/FLOODLIGHT: NEC/CEC ORDINARY LOCATION

Appleton®

# Areamaster™ 1000 Floodlights

## Integrally Ballasted. 1000 W and 1500 W HID

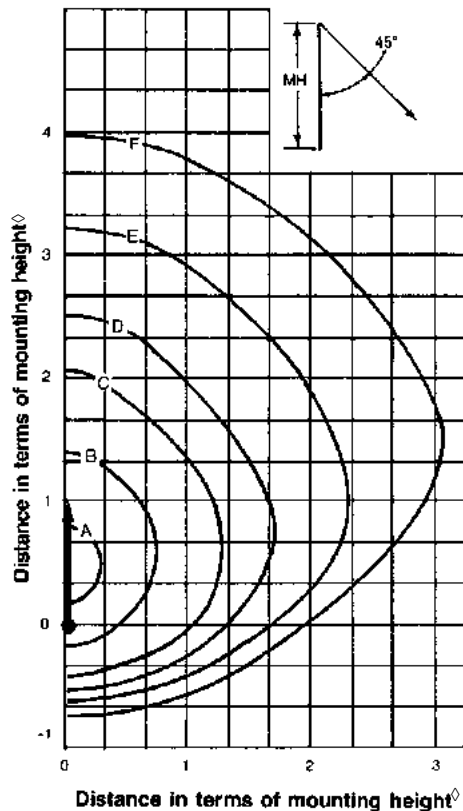
For ordinary locations. NOT available for use in CEC governed locations.

NEC:

Listed for Ordinary (Unclassified) Locations

### Photometric Data

#### Typical Footcandle Values ①



Mtg. Ht. M (Ft)	Footcandle Values for Iso Footcandle Lines					
	A	B	C	D	E	F
<b>1000W HPS Clear, 140,000 Lumens, Cat. No. G-AM861L-MT</b>						
18.3 (60)	8.0	3.0	1.0	0.5	0.20	0.10
15.2 (50)	11.5	4.6	1.5	0.72	0.27	0.15
12.2 (40)	17.3	6.8	2.4	1.0	0.45	0.21
9.1 (30)	31.5	12	4.1	1.9	0.80	0.30
<b>1000W MH Clear, 110,000 Lumens, Cat. No. G-AM861H-MT</b>						
18.3 (60)	6.0	3	1.0	0.5	0.20	0.10
15.2 (50)	8.2	4.2	1.4	0.8	0.28	0.15
12.2 (40)	12.6	7.9	2.3	1.2	0.42	0.19
9.1 (30)	23.0	11.6	4.0	2.1	0.70	0.25

#### Photometric Data ①

	HPS	MH	PSMH
Horiz. Spread	134°	133°	
Vert. Spread	131°	124°	
Beam Lumens	77,440	62,112	
Beam Effic.	55.3%	56.5%	
Max. CP	40,251	45,909	
Avg. Max. CP	38,396	38,490	
Total Lumens	80,846	66,008	
Total Effic.	57.7%	60.0%	

#### Electrical Specifications

Lamp Type	Line Voltage	Type of Ballast	Starting Amps	Operating Amps	Total Watts
<b>1000 Watt High Pressure Sodium</b>					
HPS	120	CWA	6.35	9.50	1100
HPS	208	CWA	3.80	5.50	1100
HPS	240	CWA	3.20	4.25	1100
HPS	277	CWA	2.75	4.20	1100
HPS	347	CWA	2.20	3.30	1100
HPS	480	CWA	1.80	2.45	1100
<b>1000 Watt Metal Halide</b>					
MH	120	CWA	8.00	9.20	1080
MH	208	CWA	4.60	5.30	1080
MH	240	CWA	4.00	4.60	1080
MH	277	CWA	3.50	4.00	1080
MH	347	CWA	2.50	3.20	1080
MH	480	CWA	2.00	2.30	1080
<b>1500 Watt Metal Halide</b>					
MH	120	C.W.A.	13.50	14.00	1610
MH	208	C.W.A.	7.70	8.00	1610
MH	240	C.W.A.	6.70	7.00	1610
MH	277	C.W.A.	5.90	6.00	1610
MH	480	C.W.A.	3.30	3.50	1610
<b>1000 Watt Pulse Start</b>					
PSMH	120	Super CWA	7.00	9.00	1080
PSMH	208	Super CWA	4.00	5.30	1080
PSMH	240	Super CWA	3.50	4.50	1080
PSMH	277	Super CWA	3.00	3.90	1080
PSMH	480	Super CWA	N/A	N/A	1080

① Photometric charts available on request.

② i.e., ratio of distance to height. Example: @ 6.1 meters (20 feet) mounting height, 1 means 6.1 meters (20 feet); 2 means 12.2 meters (40 feet), etc.

# Beam-Master™ Floodlights

## General Purpose and Heavy Duty.

Ballast for 1000 W, 1500 W MH; 400 W, 1000 W HPS.

### NEC/CEC:

Listed for Ordinary (Unclassified) Locations

### Applications

- To illuminate large areas such as:
  - Building facades
  - Ship loading docks
  - Truck terminals
  - Security lighting
  - Airports
  - Athletic stadiums
  - Sports fields

### Features

- General purpose and heavy duty units available for 1000 W or 1500 W metal halide lamps or 400 W and 1000 W high pressure sodium lamps. Choice of five different NEMA beam spreads (1000 W HPS, two beam spreads).
- Compact design combines reflector assembly and ballast housing as a single unit — easier to wire and install.
- Balanced weight distribution allows swing-over design for easy relamping and servicing.
- Sturdy and rugged — withstands high vibration and rugged usage.
- Breather openings allow unit to breathe, yet keep dirt and moisture out.
- Floodlights have aiming device, plus 180° vertical positioning scale. Fully adjustable horizontally with crossarm bracket or poletop mount.
- Swing-over design with a “memory” locking device for accurate return to pre-aimed position after servicing.
- Mogul base porcelain socket has heavy gauge brass, nickel plated, double lamp-grip screw shell and spring-loaded center contact.
- Heavy duty models have heavy shroud for protection against severe weather, such as high winds and hail.
- Cord enters through a weatherproof cord grip.
- Yoke is rugged 6061-T6 aluminum alloy. Crossarm bracket and poletop slip-fitter are malleable iron.
- Ballasts are Class H insulated, UL Listed, C.W.A. type, available multi-tapped 120, 208, 240, or 277 Volts, or single-tap for 480 Volts.

### Standard Materials

- Reflectors: aluminum
- Lens: shock and impact resistant glass
- Gasket: one-piece silicone rubber gasket
- Frame and clamps: stainless steel
- Socket/ballast: cast aluminum
- Housing: malleable Iron

### Standard Finishes

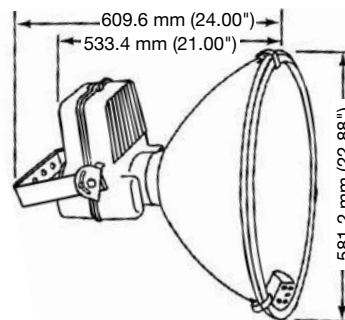
- Reflectors: natural finish
- Ballast: white powder coated polyester finish
- Housing: zinc plated, chromate sealed, architectural bronze polyester finish

### NEC/CEC Certifications and Compliances

- UL Listed: E85142
- UL Standard: 1598
- CSA Certified: LR9349



### Dimensions in Millimeters (Inches)



### Mounting Options



Poletop Slip-Fitter Mounting



Crossarm Mounting

# Beam-Master™ Floodlights

## General Purpose and Heavy Duty.

Ballast for 1000 W, 1500 W MH; 400 W, 1000 W HPS.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

NEMA Type	Beam Spread Horiz x Vert.	Beam Lumens	Beam Efficacy	Candlepower		Line Voltage	Catalog Number	
				Avg. Max. CP	Max CP		General Purpose	Heavy Duty
With Ballast for 1000 W Metal Halide Lamp ②								
II	20.2° x 21.1°	37,577	34.2%	1,332,312	1,547,349	120/208/240/277 480	G-SM821H-MTN ① G-SM821H-48N	G-SM821HH-MTN ① G-SM821HH-48N
III	45.1° x 45.1°	55,104	50.1%	481,977	638,600	120/208/240/277 480	G-SM831H-MTN ① G-SM831H-48N	G-SM831HH-MTN ① G-SM831HH-48N
IV	58.6° x 59.3°	61,562	56.0%	213,277	266,126	120/208/240/277 480	G-SM841H-MTN ① G-SM841H-48N	G-SM841HH-MTN ① G-SM841HH-48N
V	73.6° x 74.0°	66,843	60.8%	128,822	160,661	120/208/240/277 480	G-SM851H-MTN ① G-SM851H-48N	G-SM851HH-MTN ① G-SM851HH-48N
VI	111.5° x 111.2°	74,020	67.3%	76,050	82,363	120/208/240/277 480	G-SM861H-MTN ① G-SM861H-48N	G-SM861HH-MTN ① G-SM861HH-48N
With Ballast for 1500 W Metal Halide Lamp ②								
II	20.2° x 21.1°	52,950	34.2%	1,877,349	2,180,356	120/208/240/277 480	G-SM921H-MTN ① G-SM921H-48N	G-SM921HH-MTN ① G-SM921HH-48N
III	45.1° x 45.1°	77,646	50.1%	679,149	899,846	120/208/240/277 480	G-SM931H-MTN ① G-SM931H-48N	G-SM931HH-MTN ① G-SM931HH-48N
IV	58.6° x 59.3°	86,746	56.0%	300,526	374,996	120/208/240/277 480	G-SM941H-MTN ① G-SM941H-48N	G-SM941HH-MTN ① G-SM941HH-48N
V	73.6° x 74.0°	94,188	60.8%	181,522	226,386	120/208/240/277 480	G-SM951H-MTN ① G-SM951H-48N	G-SM951HH-MTN ① G-SM951HH-48N
VI	111.5° x 111.2°	104,301	67.3%	107,161	116,057	120/208/240/277 480	G-SM961H-MTN ① G-SM961H-48N	G-SM961HH-MTN ① G-SM961HH-48N
With Ballast for 1000 W High Pressure Sodium Lamp								
V	69.1° x 65.2°	63,710	45.5%	175,347	302,942	120/208/240/277 480	G-SM851L-MTN ① G-SM851L-48N	G-SM851LH-MTN ① G-SM851LH-48N
VI	110.3° x 104.6°	81,722	58.4%	81,998	107,556	120/208/240/277 480	G-SM861L-MTN ① G-SM861L-48N	G-SM861LH-MTN ① G-SM861LH-48N
With Ballast for 400 W High Pressure Sodium Lamp								
II	—	—	—	—	—	120/208/240/277 480	G-SM721L-MTN ① G-SM721L-48N	G-SM721LH-MTN ① G-SM721LH-48N
III	—	—	—	—	—	120/208/240/277 480	G-SM731L-MTN ① G-SM731L-48N	G-SM731LH-MTN ① G-SM731LH-48N
IV	—	—	—	—	—	120/208/240/277 480	G-SM741L-MTN ① G-SM741L-48N	G-SM741LH-MTN ① G-SM741LH-48N
V	—	—	—	—	—	120/208/240/277 480	G-SM751L-MTN ① G-SM751L-48N	G-SM751LH-MTN ① G-SM751LH-48N
VI	—	—	—	—	—	120/208/240/277 480	G-SM761L-MTN ① G-SM761L-48N	G-SM761LH-MTN ① G-SM761LH-48N

① For tri-tap 120/277/347 V, change suffix -MTN to -TTN.

② Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# Beam-Master™ Floodlights

## General Purpose and Heavy Duty.

Ballast for 1000 W, 1500 W MH; 400 W, 1000 W HPS.

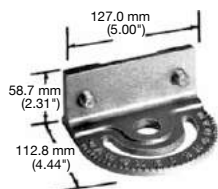
### NEC/CEC:

Listed for Ordinary (Unclassified) Locations

### Mounting Fittings and Accessories

Description	Catalog Number
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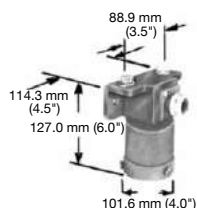
#### Crossarm Mounting Bracket



180° horizontal adjustment — degree-marked.  
Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB.  
Includes floodlight yoke bolts.

**G-AM-8-CA**

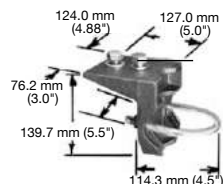
#### Poletop Slip-Fitter



Slip-fits 50.8 or 63.5 mm (2" or 2-1/2") poletop tenons.  
Includes floodlight yoke bolts, 3 locking bolts and cord grip.

**G-AM-8-SF**

#### Pipe or Wall Mount Bracket



Used with G-AM-8-CA.  
Clamps to 25.4 to 50.8 mm (1" to 2") pipe, vertical or horizontal, or mounts on flat surfaces.  
Includes U-bolt and crossarm bracket bolts.

**G-AM-8-WB**

#### Fuse and Cartridge



Cartridges are furnished complete with two 254 mm (10") long high temperature wire leads and 600 Volt fuse.

10 Amp

**G-F10**

20 Amp

**G-F20**

### Electrical Specifications

Line Volts	Start	Metal Halide — C.W.A. ① Ballast Amps						High Pressure Sodium — C.W.A. ① Ballast Amps					
		1000 W			1500 W			400 W			1000 W		
		Start	Operating	Total Watts	Start	Operating	Total Watts	Start	Operating	Total Watts	Start	Operating	Total Watts
120	8.0	9.20	1080	13.50	14.0	1610	3.30	3.80	465	6.35	9.50	1100	
208	4.6	5.30	1080	7.70	8.00	1610	1.80	2.20	465	3.80	5.50	1100	
240	4.0	4.60	1080	6.70	7.00	1610	1.60	1.90	465	3.20	4.80	1100	
277	3.50	4.00	1080	5.90	6.00	1610	1.40	1.70	465	2.75	4.20	1100	
480	2.00	2.30	1080	2.25	3.50	1610	0.80	1.00	465	1.80	2.45	1100	

① C.W.A. — Constant Wattage Autotransformer.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

## Applications

- Enclosed and gasketed fixtures suitable for use in marine and wet locations, and in a wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present under conditions defined by the National Electrical Code as Class I, Division 2; Class II, Division 1 and 2; and Class III. The method of protection for the Zone 2 Mercmaster is AEx nA nR – Restricted Breathing/Nonsparking.
- For use in areas of low clearance, low ceiling heights or where fixture weights must be minimized.
- Suited for use in non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust or corrosive atmospheres are present.
- Typical applications include oil refineries, pulp and paper mills, chemical plants, food-processing areas, inspection facilities, foundries, power plants, storage areas, waste and sewage treatment, parking garages, and other areas where dust, water, dirt and rough usage are a problem.

## Features

- Energy-efficient, compact fluorescent light sources possess superior lamp efficiency.
- Fluorescent provides long lamp life, thereby reducing relamping costs.
- “Instant on” nature of this electronically ballasted fluorescent eliminates the possibility of an extended blackout due to a momentary power dip.
- High efficacies (up to 75 lumens per Watt) offer a desirable low-glare/instant-on alternative to low wattage HID sources.
- High output under widely varying conditions: Greater than 90% of rated lumens in ambient temperatures from -5 °C to +54 °C (+23 °F to +130 °F).
- Excellent color rendering (82 CRI) makes it the best choice for food processing and inspection facilities.
- A wide variety of lamp wattages: 26 W, 32 W, 42 W, 52 W, 64 W, 84 W.
- Electronic ballast permits low operating costs with power factor greater than 99%. Also allows flicker-free starting.
- Cold weather starting to a minimum temperature of -18 °C (0 °F).
- Fixtures are available for operation from an external 125 Vdc source.
- Compact, light-weight low profile design creates ease of installation and maintenance.
- Modular design, with multiple mounting hoods, optics and reflectors, permits a wide array of fixtures to meet installation and lighting needs.
- Body gaskets and optic gaskets are high temperature silicone O-Rings that provide superior sealing.
- Mounting hoods have a high hinge for added safety during installation and servicing.
- Choice of heat-resistant prismatic glass refractor (NEMA I, III or V), heat-resistant clear globes, color globes or polymeric refractors (NEMA II, III, IV or V). (Polymeric refractors are not listed for Zone 2.)



Pendant Mount Fixture  
with Glass Globe



Ceiling Mount Fixture with  
Prismatic Glass Refractor

## Standard Materials

- Standard dome or 30° angle reflectors: highly reflective fiberglass reinforced white polyester to provide strength, corrosion resistance and excellent photometrics
- Fixture housing, mounting hoods, and guards: die-cast, copperfree (4/10 of 1% max.) aluminum with epoxy finish for corrosion resistance
- Exposed hardware: stainless steel. Latch assemblies have stainless steel bolt and captive nut; reflectors and guards attach with stainless steel screws threading into stainless steel inserts
- Globes and glass refractors: heat-resistant prismatic glass
- Polymeric refractor: spun aluminum reflector and a lens made of an engineered thermoplastic

## Standard Finishes

- Epoxy powder coat finish electrostatically applied for complete, uniform surface protection

## Options

- Fuse can be field installed. Kits include fuse block, wire connectors and screws for attachment to mounting hood.
  - Fixtures with fuses do not comply with UL 1598A for marine listing
  - Canadian Electrical Code does NOT allow fusing in hazardous locations
- Guards with gray epoxy painted to match fixtures, supplied with stainless steel screws. Add suffix **-G**.
- Reflectors are available as standard dome and 30° angle polyester. Order separately.

## NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844, UL 60079-0, UL 60079-15
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137, CAN E60079-0, CAN E60079-15
- CSA Certified: 025428

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

## Illustrated Features



### Globe Chamber

Completely sealed from the ballast housing and outside vapors/air (nA nR).

### Epoxy Finish

Ballast housing, hoods and guards are copperfree aluminum with epoxy powder coat finish.

### Photocell

Installs through knock-out in mounting hoods except cone and ceiling mount. Provides continuous on-off dusk-to-dawn control. Not for use in hazardous (classified) areas. Hazardous location rated photocells also available. See Accessories page.



### Stainless Steel Latch Assembly

Captive, stainless steel latch assembly bolt and nut closes securely, resists attack of corrosive atmospheres. Swing-away design simplifies servicing.



### Vented Reflectors

Reflectors are thick, tough fiberglass-reinforced white polyester, vented for cooler operation. Quickly attach with furnished stainless steel screws.

### Terminal Blocks (Zone 2)

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24 AWG.

### Stainless Steel Inserts

Ballast bodies have stainless steel threaded inserts to receive stainless steel screws for reflectors and guard. Prevents "freezing", allowing guards and reflectors to be easily removed and replaced at any time, without damage to the housing.

### Prismatic Glass Globes and Refractors

Heat-resistant globes and glass refractors and polymeric refractors thread directly into ballast housing and seal against a high temperature silicone rubber gasket. (Polymeric refractors are not listed for Zone 2 areas.)



### Ballast Assembly

Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

### Hood/Ballast Gasket

Silicone rubber gasket seals out moisture, dirt and dust. Stays flexible, withstands high temperatures. Closure design assures uniform gasket compression.

### Electrical Protection

Ground wire provided to bond mounting hood to ballast housing.



### Cooler Operating Cone Hood

Larger sloped surface sheds dusts, dirt and combustible fibers providing better heat dissipation.



### Fuses

Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included.



### "Safety" High Hinge

Extra-high hinge provides additional protection against accidental ballast housing disengagement during installation or maintenance.



# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

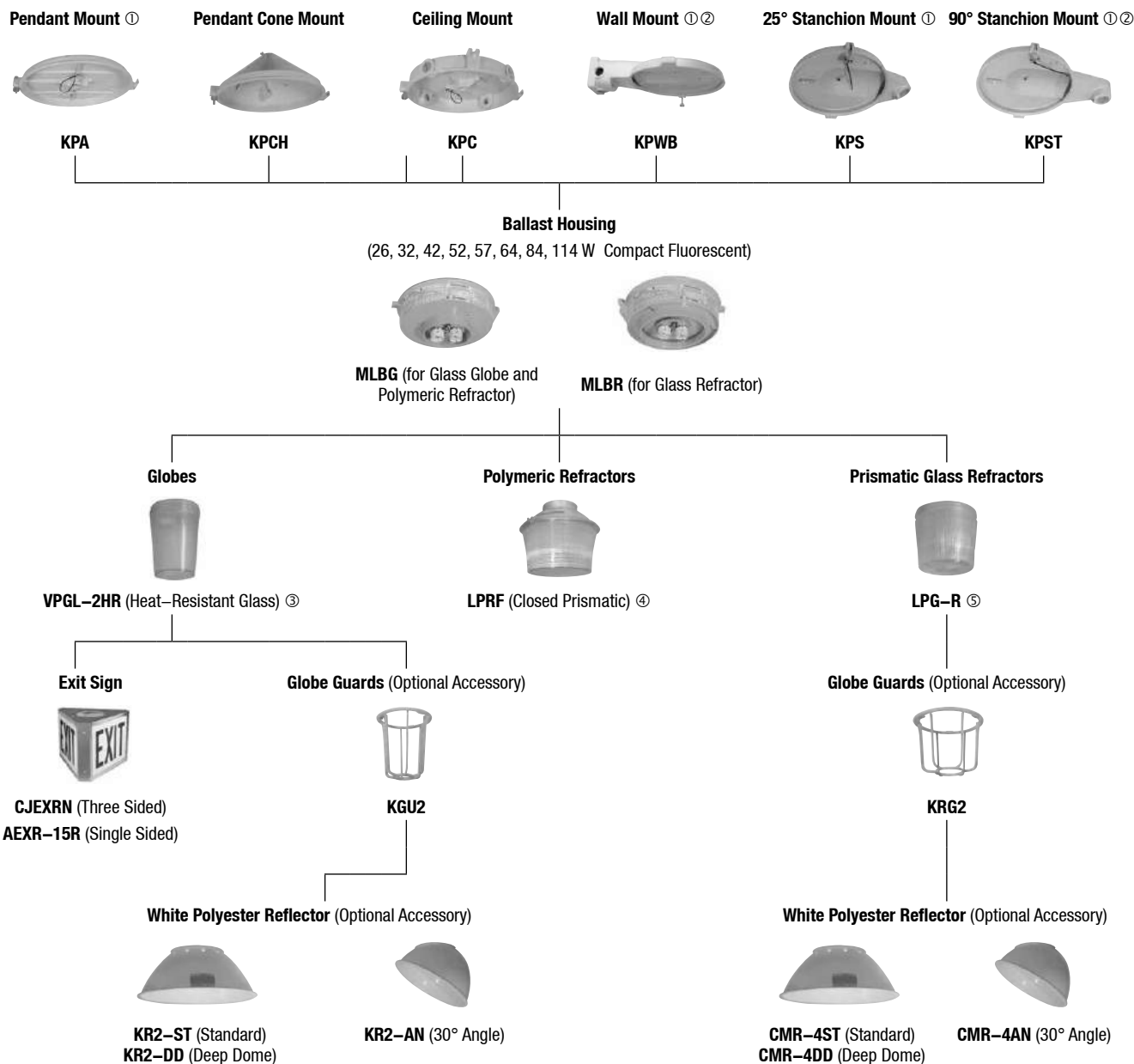
### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

### Mercmaster III Low Profile Compact Fluorescent Family Tree



① Mounting hood with a 120 V or 208-277 V factory installed photocell is available.

② Standard and deep dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods..

③ Available in clear, amber, blue, green and red.

④ Available in NEMA Type II, III, IV and V. Polymeric Refractor suitable for Class II, Groups F and G, NEMA 4X and Marine Type Electric Fixtures Outside Type (Salt Water) only (100 W PSMH Max.).

⑤ Available in NEMA Type I, III and V.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

## NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

## CEC:

Class I, Zone 2, Ex nR IIC (Z)

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For Zone 2 Mercmaster III Compact Fluorescent Luminaires

ML	A	F	84	2	G2	G	BU	L	Z2
Series: ML - Mercmaster III Low Profile	Lamp Type: F - Fluorescent	Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT Stanchion 5 - 1-1/2" NPT Stanchion	Guard Options: G - Cast Guard (Glass Refractor and Globe only) N - No Guard	Lamp Options: L - Lamp(s) included Blank - Lamp(s) excluded					
Mounting Hood: A - Pendant (Rigid or Flexible) C - Ceiling D - Pendant Cone R - 90° Stanchion S - 25° Stanchion W - Wall	Wattage: 26 - One 26 Watt PL-T 32 - One 32 Watt PL-T 42 - One 42 Watt PL-T 52 - Two 26 Watt PL-T 57 - One 57 Watt PL-T ④ 64 - Two 32 Watt PL-T 84 - Two 42 Watt PL-T 114 - Two 57 Watt PL-T ④	Optical Assembly: ① G2 - VPGL2HR Globe (not for 57, 114 Watt) G4 - VPGL4HR Globe (57, 114 Watt only) ④ J1 - NEMA I Glass Refractor J3 - NEMA III Glass Refractor J5 - NEMA V Glass Refractor P2 - NEMA II Polymeric Refractor P3 - NEMA III Polymeric Refractor P4 - NEMA IV Polymeric Refractor P5 - NEMA V Polymeric Refractor	Voltage: BU - 120 to 277 V, 50/60 Hz and 125 Vdc A5 - 347 V, 60 Hz ④	Suffix: DP - Safety Cable SC - Safety Chain Z2 - Zone 2 Suffix (Required for AEx nA nR rating) C - Safety Cable ④ F - Fused Mtg. Hood ③④ (Non-Haz. Loc. only) P - Non-Haz. Photocell (Specify Voltage) ④ Q - Division 2 Haz. Photocell (Specify Voltage) ④ T - Terminal Blocks ④ V - Vibration Protection ④ X - Appledapter ② Mounting Hood Adapter ④ Z - Zone 2 suffix (required for Ex nR) ④					

① Polymeric refractors suitable for Class II, Groups F and G; NEMA 4X; and Marine Type Electric Fixture Outside Type (Salt Water) only.

Reflectors ordered separately (for use with globe fixtures only): Standard Dome: KR2-ST 30-degree Angle: KR2-AN

② Appledapter is available for use with the pendant, ceiling and angled stanchion mounting only.

③ Canadian Electrical Code (CEC) does NOT allow fusing in hazardous locations.

④ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Class I, Division 2; Class II, Division 1; Simultaneous Exposure to Hazardous Conditions

Temperature identification numbers of Mercmaster III Low Profile Fluorescent Fixtures

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

### Thermal Performance

Lamp Watts	Ambient Temp °C (°F) ①	Class I, Division 2				Class II, Division 1 Groups E, F and G ②				Simultaneous Exposure (Class I, Div 2 and Class II, Division 1)			
		Globe	Reflector	Glass Refractor	Polymeric Refractor	Globe	Reflector	Glass Refractor	Polymeric Refractor	Globe	Reflector	Glass Refractor	Polymeric Refractor
26	40 °C (104 °F)	T3	T3	T3	—	T5	T5	T5	T6	T3	T3	T3	—
32	40 °C (104 °F)	T3	T3	T3	—	T5	T5	T5	T6	T3	T3	T3	—
42	40 °C (104 °F)	T3	T3	T3	—	T5	T5	T5	T6	T3	T3	T3	—
52	40 °C (104 °F)	T2D	T2D	T3	—	T4A	T4A	T4A	T6	T2C	T2C	T2C	—
	55 °C (151 °F)	T2C	T2C	T2C	—	T4	T4	T4	—	T2C	T2C	T2C	—
57 ③	40 °C (104 °F)	T2D	T2D	T3	—	T4A	T4A	T4A	T6	—	—	—	—
64	40 °C (104 °F)	T2D	T2D	T3	—	T4A	T4A	T4A	T6	T2C	T2C	T2C	—
	55 °C (151 °F)	T2C	T2C	T2C	—	T4	T4	T4	—	—	—	—	—
84	40 °C (104 °F)	T2C	T2C	T2D	—	T3C	T3C	T3C	T6	T2B	T2B	T2B	—
114 ③	40 °C (104 °F)	T2C	T2C	T2D	—	T3C	T3C	T3C	T6	—	—	—	—

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

Lamp Watts	Supply Wire Temp. °C (°F)	Ambient Temp. °C (°F)	Class I, Zone 2, AEx nA nR — Ex nR		
			Globe	Globe and Reflector	Refractor
26	75 °C (167 °F)	40 °C (104 °F)	T5	T5	T6
32	75 °C (167 °F)	40 °C (104 °F)	T5	T5	T6
42	75 °C (167 °F)	40 °C (104 °F)	T5	T5	T6
52	75 °C (167 °F)	40 °C (104 °F)	T5	T5	T6
	75 °C (167 °F)	55 °C (131 °F)	T4	T4	T4
57 ③	75 °C (167 °F)	40 °C (104 °F)	T6	T6	T6
64	75 °C (167 °F)	40 °C (104 °F)	T5	T5	T6
	75 °C (167 °F)	55 °C (131 °F)	T4	T4	T4
84	75 °C (167 °F)	40 °C (104 °F)	T5	T5	T6
114 ③	75 °C (167 °F)	40 °C (104 °F)	T6	T6	T6

“T” Numbers Represent the Maximum Surface Temperature for Luminaires with AEx nA nR Rating

“T” Number	T1	T2	T3	T4	T5	T6
Temperature Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temperature Range (°F)	574-842	394-572	277-392	214-275	187-212	185

① Use +75 °C (+167 °F) rated supply wire.

② Fixtures with Polymeric Refractor are listed for Groups F and G only.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires



## Enclosed and Gasketed. For Hazardous and Wet Locations

High Power Factor Electronic Ballast (Min. P.F. 99%), PL-T Lamps.

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

**NEC/CEC:**  
Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

**CEC:**  
Class I, Zone 2, Ex nR IIC (Z)

		Hub Size (Inches)	With Globe ① ④	Catalog Numbers ② ③ With Type V 8" Glass Refractor ① ④ ⑤	With Type V Polymeric Refractor ⑥
Pendant — One Hub (Rigid or Flexible Mounting)					
	1 x 26 W	3/4	MLAF262G2N	MLAF262J5N	MLAF262P5N
		1	MLAF263G2N	MLAF263J5N	MLAF263P5N
	1 x 32 W	3/4	MLAF322G2N	MLAF322J5N	MLAF322P5N
		1	MLAF323G2N	MLAF323J5N	MLAF323P5N
	1 x 42 W	3/4	MLAF422G2N	MLAF422J5N	MLAF422P5N
		1	MLAF423G2N	MLAF423J5N	MLAF423P5N
	2 x 26 W	3/4	MLAF522G2N	MLAF522J5N	MLAF522P5N
		1	MLAF523G2N	MLAF523J5N	MLAF523P5N
	1 x 57 W	3/4	MLAF572G4N ⑦	MLAF572J5N ⑦	MLAF572P5N ⑦
		1	MLAF573G4N ⑦	MLAF573J5N ⑦	MLAF573P5N ⑦
	2 x 32 W	3/4	MLAF642G2N	MLAF642J5N	MLAF642P5N
		1	MLAF643G2N	MLAF643J5N	MLAF643P5N
	2 x 42 W	3/4	MLAF842G2N	MLAF842J5N	MLAF842P5N
		1	MLAF843G2N	MLAF843J5N	MLAF843P5N
	2 x 57 W	3/4	MLAF1142G4N ⑦	MLAF1142J5N ⑦	MLAF1142P5N ⑦
		1	MLAF1143G4N ⑦	MLAF1143J5N ⑦	MLAF1143P5N ⑦
Pendant Cone — One Hub (Rigid or Flexible Mounting)					
	1 x 26 W	3/4	MLDF262G2N	MLDF262J5N	MLDF262P5N
		1	MLDF263G2N	MLDF263J5N	MLDF263P5N
	1 x 32 W	3/4	MLDF322G2N	MLDF322J5N	MLDF322P5N
		1	MLDF323G2N	MLDF323J5N	MLDF323P5N
	1 x 42 W	3/4	MLDF422G2N	MLDF422J5N	MLDF422P5N
		1	MLDF423G2N	MLDF423J5N	MLDF423P5N
	2 x 26 W	3/4	MLDF522G2N	MLDF522J5N	MLDF522P5N
		1	MLDF523G2N	MLDF523J5N	MLDF523P5N
	1 x 57 W	3/4	MLDF572G4N ⑦	MLDF572J5N ⑦	MLDF572P5N ⑦
		1	MLDF573G4N ⑦	MLDF573J5N ⑦	MLDF573P5N ⑦
	2 x 32 W	3/4	MLDF642G2N	MLDF642J5N	MLDF642P5N
		1	MLDF643G2N	MLDF643J5N	MLDF643P5N
	2 x 42 W	3/4	MLDF842G2N	MLDF842J5N	MLDF842P5N
		1	MLDF843G2N	MLDF843J5N	MLDF843P5N
	2 x 57 W	3/4	MLDF1142G4N ⑦	MLDF1142J5N ⑦	MLDF1142P5N ⑦
		1	MLDF1143G4N ⑦	MLDF1143J5N ⑦	MLDF1143P5N ⑦



Shown with Glass Globe



Shown with 8" Glass Refractor

① For fixtures with guard, substitute **G** for **N** before adding voltage suffix.

② Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.

③ Add **L** after voltage suffix to include lamp.

④ Add **Z2** suffix for factory-sealed non-sparking/restricted breathing protection (Aex nA nR).

⑤ To order fixture with NEMA Type I or III glass refractor, change **J5** to **J1** or **J3** respectively.

⑥ To order fixture with NEMA Type II, III, or IV polymeric refractor, change **P5** to **P2**, **P3** or **P4** respectively. Polymeric refractor fixtures are UL Listed and CSA Certified for Class II, Division 1 and 2, Groups F and G; Class III; Marine Outdoor Salt Water (UL1598A); NEMA 4X and CSA Type 4X.

⑦ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

High Power Factor Electronic Ballast (Min. P.F. 99%), PL-T Lamps.

**NEC/CEC:**



Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

**NEC/CEC:**

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

**CEC:**

Class I, Zone 2, Ex nR IIC (Z)

		Catalog Numbers ②③		
Lamp Watts	Hub Size (Inches)	With Globe ①④	With Type V 8" Glass Refractor ①④⑤	With Type V Polymeric Refractor ⑥
<b>Ceiling — Five Hubs, Four Close-Up Plugs</b>				
	1 x 26 W	MLCF262G2N	MLCF262J5N	MLCF262P5N
	1	MLCF263G2N	MLCF263J5N	MLCF263P5N
	1 x 32 W	MLCF322G2N	MLCF322J5N	MLCF322P5N
	1	MLCF323G2N	MLCF323J5N	MLCF323P5N
	1 x 42 W	MLCF422G2N	MLCF422J5N	MLCF422P5N
	1	MLCF423G2N	MLCF423J5N	MLCF423P5N
	2 x 26 W	MLCF522G2N	MLCF522J5N	MLCF522P5N
	1	MLCF523G2N	MLCF523J5N	MLCF523P5N
	1 x 57 W	MLCF572G4N ⑦	MLCF572J5N ⑦	MLCF572P5N ⑦
	1	MLCF573G4N ⑦	MLCF573J5N ⑦	MLCF573P5N ⑦
	2 x 32 W	MLCF642G2N	MLCF642J5N	MLCF642P5N
	1	MLCF643G2N	MLCF643J5N	MLCF643P5N
	2 x 42 W	MLCF842G2N	MLCF842J5N	MLCF842P5N
	1	MLCF843G2N	MLCF843J5N	MLCF843P5N
<b>Shown with Polymeric Refractor</b>				
	2 x 57 W	MLCF1142G4N ⑦	MLCF1142J5N ⑦	MLCF1142P5N ⑦
	1	MLCF1143G4N ⑦	MLCF1143J5N ⑦	MLCF1143P5N ⑦
<b>Wall Bracket — Five Hubs, Four Close-Up Plugs</b>				
	1 x 26 W	MLWF262G2N	MLWF262J5N	MLWF262P5N
	1	MLWF263G2N	MLWF263J5N	MLWF263P5N
	1 x 32 W	MLWF322G2N	MLWF322J5N	MLWF322P5N
	1	MLWF323G2N	MLWF323J5N	MLWF323P5N
	1 x 42 W	MLWF422G2N	MLWF422J5N	MLWF422P5N
	1	MLWF423G2N	MLWF423J5N	MLWF423P5N
	2 x 26 W	MLWF522G2N	MLWF522J5N	MLWF522P5N
	1	MLWF523G2N	MLWF523J5N	MLWF523P5N
	1 x 57 W	MLWF572G4N ⑦	MLWF572J5N ⑦	MLWF572P5N ⑦
	1	MLWF573G4N ⑦	MLWF573J5N ⑦	MLWF573P5N ⑦
	2 x 32 W	MLWF642G2N	MLWF642J5N	MLWF642P5N
	1	MLWF643G2N	MLWF643J5N	MLWF643P5N
	2 x 42 W	MLWF842G2N	MLWF842J5N	MLWF842P5N
	1	MLWF843G2N	MLWF843J5N	MLWF843P5N
<b>Shown with 8" Glass Refractor</b>				
	2 x 57 W	MLWF1142G4N ⑦	MLWF1142J5N ⑦	MLWF1142P5N ⑦
	1	MLWF1143G4N ⑦	MLWF1143J5N ⑦	MLWF1143P5N ⑦

① For fixtures with guard, substitute **G** for **N** before adding voltage suffix.

② Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.

③ Add **L** after voltage suffix to include lamp.

④ Add **Z2** suffix for factory-sealed non-sparking/restricted breathing protection (Aex nA nR).

⑤ To order fixture with NEMA Type I or III glass refractor, change **J5** to **J1** or **J3** respectively.

⑥ To order fixture with NEMA Type II, III, or IV polymeric refractor, change **P5** to **P2**, **P3** or **P4** respectively. Polymeric refractor fixtures are UL Listed and CSA Certified for Class II, Division 1 and 2, Groups F and G; Class III; Marine Outdoor Salt Water (UL1598A); NEMA 4X and CSA Type 4X.

⑦ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires



## Enclosed and Gasketed. For Hazardous and Wet Locations

High Power Factor Electronic Ballast (Min. P.F. 99%), PL-T Lamps.

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

**NEC/CEC:**  
Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

**CEC:**  
Class I, Zone 2, Ex nR IIC (Z)

		Catalog Numbers ② ③				
		Lamp Watts	Hub Size (Inches)	With Globe ① ④	With Type V 8" Glass Refractor ① ④ ⑤	With Type V Polymeric Refractor ⑥
25° Stanchion						
	1 x 26 W	3/4	MLSF264G2N	MLSF264J5N	MLSF264P5N	
		1	MLSF265G2N	MLSF265J5N	MLSF265P5N	
	1 x 32 W	3/4	MLSF324G2N	MLSF324J5N	MLSF324P5N	
		1	MLSF325G2N	MLSF325J5N	MLSF325P5N	
	1 x 42 W	3/4	MLSF424G2N	MLSF424J5N	MLSF424P5N	
		1	MLSF425G2N	MLSF425J5N	MLSF425P5N	
	2 x 26 W	3/4	MLSF524G2N	MLSF524J5N	MLSF524P5N	
		1	MLSF525G2N	MLSF525J5N	MLSF525P5N	
	1 x 57 W	3/4	MLSF574G4N ⑦	MLSF574J4N ⑦	MLSF574P4N ⑦	
		1	MLSF575G4N ⑦	MLSF575J4N ⑦	MLSF575P4N ⑦	
	2 x 32 W	3/4	MLSF644G2N	MLSF644J5N	MLSF644P5N	
		1	MLSF645G2N	MLSF645J5N	MLSF645P5N	
	2 x 42 W	3/4	MLSF844G2N	MLSF844J5N	MLSF844P5N	
		1	MLSF845G2N	MLSF845J5N	MLSF845P5N	
	2 x 57 W	3/4	MLSF1144G4N ⑦	MLSF1144J4N ⑦	MLSF1144P4N ⑦	
		1	MLSF1145G4N ⑦	MLSF1145J4N ⑦	MLSF1145P4N ⑦	
90° Stanchion						
	1 x 26 W	3/4	MLRF264G2N	MLRF264J5N	MLRF264P5N	
		1	MLRF265G2N	MLRF265J5N	MLRF265P5N	
	1 x 32 W	3/4	MLRF324G2N	MLRF324J5N	MLRF324P5N	
		1	MLRF325G2N	MLRF325J5N	MLRF325P5N	
	1 x 42 W	3/4	MLRF424G2N	MLRF424J5N	MLRF424P5N	
		1	MLRF425G2N	MLRF425J5N	MLRF425P5N	
	2 x 26 W	3/4	MLRF524G2N	MLRF524J5N	MLRF524P5N	
		1	MLRF525G2N	MLRF525J5N	MLRF525P5N	
	1 x 57 W	3/4	MLRF574G4N ⑦	MLRF574J4N ⑦	MLRF574P4N ⑦	
		1	MLRF575G4N ⑦	MLRF575J4N ⑦	MLRF575P4N ⑦	
	2 x 32 W	3/4	MLRF644G2N	MLRF644J5N	MLRF644P5N	
		1	MLRF645G2N	MLRF645J5N	MLRF645P5N	
	2 x 42 W	3/4	MLRF844G2N	MLRF844J5N	MLRF844P5N	
		1	MLRF845G2N	MLRF845J5N	MLRF845P5N	
	2 x 57 W	3/4	MLRF1144G4N ⑦	MLRF1144J4N ⑦	MLRF1144P4N ⑦	
		1	MLRF1145G4N ⑦	MLRF1145J4N ⑦	MLRF1145P4N ⑦	

① For fixtures with guard, substitute **G** for **N** before adding voltage suffix.

② Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.

③ Add **L** after voltage suffix to include lamp.

④ Add **Z2** suffix for factory-sealed non-sparking/restricted breathing protection (Aex nA nR).

⑤ To order fixture with NEMA Type I or III glass refractor, change **J5** to **J1** or **J3** respectively.

⑥ To order fixture with NEMA Type II, III, or IV polymeric refractor, change **P5** to **P2**, **P3** or **P4** respectively. Polymeric refractor fixtures are UL Listed and CSA Certified for Class II, Division 1 and 2, Groups F and G; Class III; Marine Outdoor Salt Water (UL1598A); NEMA 4X and CSA Type 4X.

⑦ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III



### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

### Ballast Bodies

		Catalog Numbers		
		Lamp Wattage	For Glass Globe or Polymeric Refractor ① ②	For Glass Refractor ②
Compact PL-T Fluorescent — 120 V to 277 V, 50/60 Hz and 125 Vdc				
		1 x 26 W	MLBG26FBU	MLBR26FBU
		1 x 32 W	MLBG32FBU	MLBR32FBU
		1 x 42 W	MLBG42FBU	MLBR42FBU
		2 x 26 W	MLBG52FBU	MLBR52FBU
		1 x 57 W	—	MLBR57F ③
		2 x 32 W	MLBG64FBU	MLBR64FBU
		2 x 42 W	MLBG84FBU	MLBR84FBU
		2 x 57 W	—	MLBR114F ③
Ballast Body for Glass Globe or Polymeric Refractor ①				
Ballast Body for Glass Refractor				

① Polymeric refractor not listed for Class I, Zone 2 areas.

② Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III







### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

### Mounting Hoods

	Description	Hub Size (Inches)	Catalog Number
<b>Pendant</b> 	One Hub, Rigid or Flexible Mounting	3/4	<b>KPA-75</b>
		1	<b>KPA-100</b>
<b>Pendant Cone</b> 	Five Hubs, Four Close-Up Plugs	3/4	<b>KPCH-75</b>
		1	<b>KPCH-100</b>
<b>Ceiling</b> 	Five Hubs, Four Close-Up Plugs	3/4	<b>KPC-75</b>
		1	<b>KPC-100</b>
<b>Wall</b> 	Five Hubs, Four Close-Up Plugs	3/4	<b>KPWB-75</b>
		1	<b>KPWB-100</b>
<b>25° Stanchion</b> 	One Hub	1-1/4	<b>KPS-125</b>
		1-1/2	<b>KPS-150</b>
<b>90° Stanchion</b> 	One Hub	1-1/4	<b>KPST-125</b>
		1-1/2	<b>KPST-150</b>

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:









Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

Item	Description	Catalog Number ③
<b>White Polyester Reflectors</b>		
 Standard Dome	For Globe Fixtures	
	Standard Dome 30° Angle	KR2-ST KR2-AN
 30° Angle Dome	For Glass Refractor Fixtures ①	
	Standard Dome 30° Angle	CMR-4ST ② CMR-4AN ②
<b>Prismatic Glass Globes — Heat-Resistant ③</b>		
	Clear	VPGL-2HR
	Amber ④	VPGL-2AM
	Blue ④	VPGL-2BL
	Green ④	VPGL-2GR
	Red ④	VPGL-2RE
	Clear — 57/114 Watt ⑤	VPGL-4HR
<b>Closed Prismatic Glass Refractors — All Heat-Resistant ③</b>		
	NEMA Type I	LPG-R1
	NEMA Type III	LPG-R3
	NEMA Type V	LPG-R5
<b>Closed Prismatic Polymeric Refractors — Not Listed for Class I, Zone 2 Areas</b>		
	NEMA Type II	LPRF-2CP
	NEMA Type III	LPRF-3CP
	NEMA Type IV	LPRF-4CP
	NEMA Type V	LPRF-5CP
<b>Guards</b>		
 Globe Guard	Globe Guard	KGU2
 Glass Refractor Guard	Glass Refractor Guard	KRG2
 Globe Guard for 57 W Only	Globe Guard — 57/114 W ⑤	KPGU400

① Fixtures with refractors are not UL Listed when used with reflectors.

② Standard dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods.

③ Silicone or Teflon coated globes are available. Contact your local sales representative.

④ Non hazardous rated globes for special applications.

⑤ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:








Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

Item	Description	Catalog Number		
Replacement Optic Gaskets — Silicone rubber				
	Globe and Polymeric Refractor Gasket	VPGL-GK		
	Glass Refractor Gasket	KRF-GK		
Replacement Lamp				
	Mercmaster III Low Profile Compact Fluorescent			
	Lamp Type	Lamp Base	Wattage	Catalog Number
	PL-T	GX24q-3	26	PLT26
	PL-T	GX24q-3	32	PLT32
	PL-T	GX24q-4	42	PLT42
	PL-T	GX24q-5	57	PLT57 ③
Replacement Socket				
	For 26 W, 32 W and 42 W PLT Lamps listed above	PLT32RS		
	For 57 W PLT Lamp	PLT57RS ③		
Three-Way Exit Sign ①				
	Epoxy enameled steel – 152.4 mm (6”) high red lettering	CJEXRN		
	Mounts to Globe Ballast Housing in place of guard.			
Single Sided Exit Sign ①				
	Epoxy enameled steel – 152.4 mm (6”) high red lettering	AEXR-15R		
	Mounts to Globe Ballast Housing in place of guard			
Retrofit Pendant Mounting Adapter				
	Permits use of Mercmaster III pendant hood with 3/4” hub on existing V-51 mounting hood	LPAD-1		
Fuse Kit ②				
	2 Amp time delay fuse	MLF2		

① Consult your local sales representative for classified area suitability. Not listed for Zone 2 areas.

② Canadian Electrical Code does NOT allow fusing in hazardous locations.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### CEC:

Class I, Zone 2, Ex nR IIC (Z)

Line Voltage	Type of Ballast	Starting and Operating Amps	Total Watts
<b>26 Watt PL-T Fluorescent</b>			
120	Electronic	.250	28
277	Electronic	.110	28
347	Electronic	.080	27
<b>32 Watt PL-T Fluorescent</b>			
120	Electronic	.300	36
277	Electronic	.130	36
347	Electronic	.150	36
<b>42 Watt PL-T Fluorescent</b>			
120	Electronic	.410	48
277	Electronic	.180	48
347	Electronic	.140	43
<b>52 Watt PL-T Fluorescent</b>			
120	Electronic	.460	56
277	Electronic	.220	56
347	Electronic	.170	54
<b>57 Watt PL-T Fluorescent</b> ①			
120	Electronic	.480	58
277	Electronic	.210	57
347	Electronic	.180	61
<b>64 Watt PL-T Fluorescent</b>			
120	Electronic	.580	69
277	Electronic	.260	69
347	Electronic	.190	66
<b>84 Watt PL-T Fluorescent</b>			
120	Electronic	.760	91
277	Electronic	.320	91
347	Electronic	.280	86
<b>114 Watt PL-T Fluorescent</b> ①			
120	Electronic	.960	116
277	Electronic	.420	114
347	Electronic	.360	122

Fuse catalog number: MLF2 (1 required for 120 V or 277 V) – 2-Amp fuse, time delay.

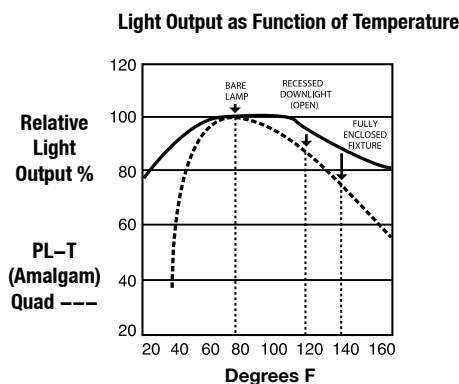
Minimum starting temperature: -18 °C (0 °F).

### Energy Efficiency and Lamp Life Comparison

Lamp Type	Watts	Lumens	Rated Average Life (Hours)
Incandescent	100	1750	750
Incandescent	150	2880	750
Incandescent	200 (PS-25, PS-30)	3710	750
Incandescent	200 (A-23)	4010	750
PL-T Fluorescent	26	1800	10,000
PL-T Fluorescent	32	2400	10,000
PL-T Fluorescent	42	3200	10,000
PL-T Fluorescent	52	3600	10,000
PL-T Fluorescent	57 ①	4300	12,000
PL-T Fluorescent	64	4800	10,000
PL-T Fluorescent	84	6400	10,000
PL-T Fluorescent	114 ①	8600	12,000

① Certified to meet the Canadian Electrical Code (CEC) only.

### Lumen Output Comparison



High lumen output of the amalgam technology lamp vs. the reduced light output at variable temperatures from a typical compact fluorescent lamp.

# Mercmaster™ III Low Profile Compact Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

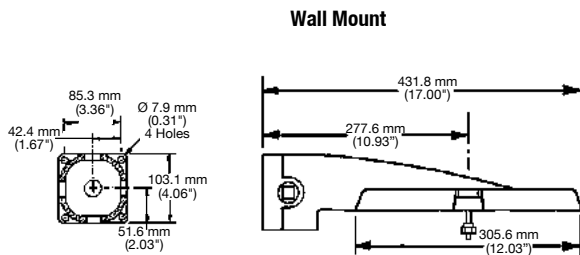
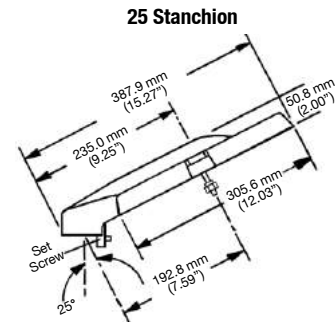
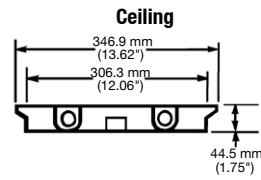
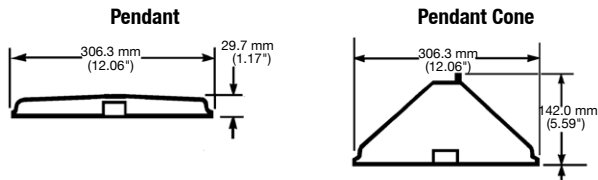
### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

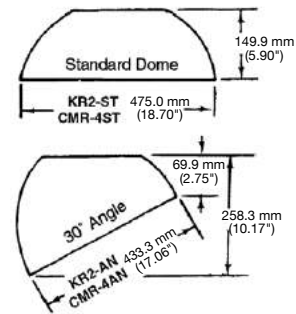
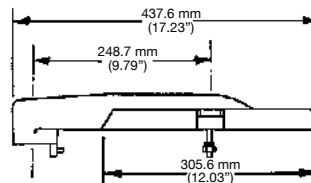
### CEC:

Class I, Zone 2, Ex nR IIC (Z)

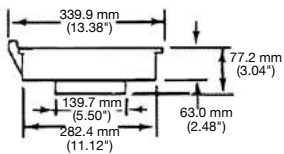
### Dimensions in Millimeters (Inches)



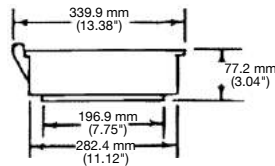
### Polyester Reflector



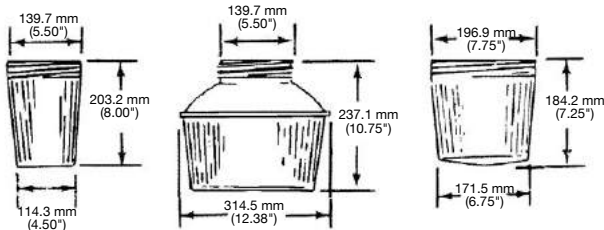
### Globe or Polymeric Refractor Ballast Housing



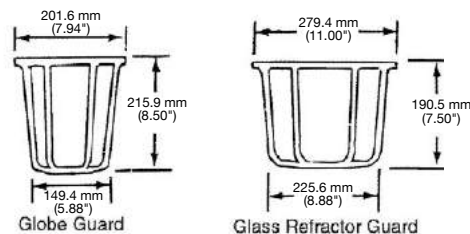
### 8" Glass Refractor Ballast Housing



### Globe and Refractors



### Aluminum Guards



### Accessory Weights ①

Ballast Housings and Mounting Hoods	Wt. Kgs (Lbs)	Refractors, Globe, Guards and Reflectors	Wt. Kgs (Lbs)
Pendant	1.0 (2.20)	8" Glass Refractor	2.4 (5.29)
Pendant Cone	1.1 (2.43)	Glass Globe	1.7 (3.75)
Ceiling	1.4 (3.09)	Glass Globe — 57/114 W ③	3.8 (8.38)
Wall Mount	1.8 (3.97)	Polymeric Refractor ②	1.1 (2.43)
25° Stanchion	1.5 (3.31)	Glass Refractor Guard	0.5 (1.10)
90° Stanchion	1.7 (3.75)	Globe Guard	0.5 (1.10)
Globe/Polymeric Refractor Housing	2.5 (5.51)	Globe Guard — 57/114 W ③	0.9 (1.98)
Glass Refractor Housing	2.9 (6.39)	Standard Dome	1.1 (2.43)
		30° Angle	1.1 (2.43)
		Exit Sign ②	2.3 (5.07)

① Weights are approximate.

② Not listed for Class I, Zone 2 areas.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# FV Series Nonmetallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G  
Class I, Zone 2, Group IIC

### NEC/CEC:

Marine Type Electric Fixture  
Outside Type (Salt Water)  
Type 4X  
Wet Locations

### Applications

- For use in hazardous locations defined by the NEC and CEC as Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; Marine Outdoor Salt Water; UL1598A and Type 4X. As well as hazardous locations defined by the CEC as Class I, Zone 2 II C.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor or outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include oil refineries, petrochemical facilities, pulp and paper mills, food processing plants, warehouses, underground tunnels and general manufacturing facilities.

### Features

- Stainless steel hubs (3/4") provided as standard.
- Ballast options for nearly all U.S. and foreign voltage and frequency combinations are available.
- Low operating costs provide more lumens per Watt than incandescent fixtures.
- Impact-resistant polycarbonate lens is hinged to allow easy access to lamp compartment.
- Corrosion-resistant fiberglass reinforced polyester housing.
- Actuator allows access to lamps and ballast compartment – no tools required.
- Latch assembly and elastomer type gasket provide positive seal from water ingress.
- Safety switch (supplied as standard) disconnects power to lamps and ballast when lens is open.
- Reflector is hinged for easy single-handed entry to ballast compartment.
- Actuator can be removed for tamper-resistant applications.

### Standard Materials

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate
- Gasket: elastomer
- Hubs: stainless steel
- Lampholders: polycarbonate
- Internal reflector: highly reflective white polycarbonate
- Fixed surface mount: (2) 14-gauge stainless steel
- Adjustable wall mount: (2) copperfree (4/10 of 1% max.) aluminum
- 45° fixed wall mount: (2) 11-gauge (1/8") stainless steel
- Chain ring bolt: set of 2 zinc plated steel (internal diameter .78")

### Options

- Individually fused ballast. Add suffix **-F**.
- Terminal block. Add suffix **-T**.
- Emergency battery pack. Add suffix **-EL**.
- Emergency light capability in moments of power interruption. Luminaire automatically switches to emergency mode, keeping one lamp illuminated for a minimum of 90 minutes. When AC power is restored, battery automatically recharges in 24 hours. Initial light output is 600-700 lumens.



### NEC/CEC Compliances and Certifications

- UL Standard: UL 1598, UL 844, UL 60079-0, UL 60079-15, Marine Listed UL 1598A ①
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137, CAN E60079-0, CAN E60079-15
- cUL Listed: E10794

① Does not apply to fixtures with fusing.

# FV Series Nonmetallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G

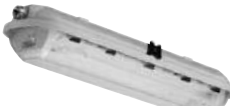

**NEC/CEC:**  
Marine Type Electric Fixture  
Outside Type (Salt Water)  
Type 4X  
Wet Locations

**CEC:**  
Class I, Zone 2, Group IIC

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For FV Series Nonmetallic Fluorescent Luminaires

<b>FV</b>	<b>P</b>	<b>2</b>	<b>32</b>	<b>BU</b>	<b>SS</b>	<b>F</b>
Series: FV - FV Series	Lamp Type: P - "PL" Fluorescent (F40BX) R - Rapid Start H - High Output	Number of Lamps: 2 - 2 Lamps 3 - 3 Lamps (32 W only) 4 - 4 Lamps (40 W only, F40BX)	Wattage: 32 - 32 W (T8) 40 - 40 W (T12-RS, F40BX) 44 - 44 W (T8-HO) 60 - 60 W (T12-HO)	Voltage ②: 347 - 347 V 60 Hz ⑤ BU - 120-277 V 50/60 Hz ③	Ballast Type: SS - Solid State (for 347 V T-12)	Options: F - Fuse T - Terminal Block (6 Point) EL - Emergency Battery Pack ④

	Number of Lamps	Lamp Watts	Lamp Type	Hub Size (Inches)	Overall Fixture Length Millimeters (Inches)	Volts	Catalog Number
	2	40	F40BX	3/4	787.4 (31)	120-277	<b>FVP240BU</b>
	2	40	F40BX	3/4	787.4 (31)	347	<b>FVP240-347</b> ⑤
	4	40	F40BX	3/4	1397.0 (55)	120-277	<b>FVP440BU</b>
	4	40	F40BX	3/4	1397.0 (55)	347	<b>FVP440-347</b> ⑤
	2	32	T8	3/4	1397.0 (55)	120-277	<b>FVR232BU</b>
	2	32	T8	3/4	1397.0 (55)	347	<b>FVR232-347SS</b> ⑤
	2	44	T8-HO	3/4	1397.0 (55)	120-277	<b>FVH244BU</b>
	2	44	T8-HO	3/4	1397.0 (55)	347	<b>FVH244-347SS</b> ⑤
	2	40	T12	3/4	1397.0 (55)	120-277	<b>FVR240BU</b>
	2	40	T12	3/4	1397.0 (55)	347	<b>FVR240-347SS</b> ⑤
	2	60	T12-HO	3/4	1397.0 (55)	120-277	<b>FVH260BU</b>
	2	60	T12-HO	3/4	1397.0 (55)	347	<b>FVH260-347SS</b> ⑤
	3	32	T8	3/4	1397.0 (55)	120-277	<b>FVR332BU</b>
	3	32	T8	3/4	1397.0 (55)	347	<b>FVR332-347SS</b> ⑤

Note: BU ballasts are auto-sensing, solid state for any voltage between 120 and 277 V, 50 or 60 Hz.

① Does not apply to fixtures with fusing.

② Consult factory for availability of specific voltages.

③ 32 W SS Octron and F40BX only.

④ 4' fixture only.

⑤ Certified to meet the Canadian Electrical Code (CEC) only.





# FV Series Nonmetallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G

**NEC/CEC:**  
Marine Type Electric Fixture  
Outside Type (Salt Water)  
Type 4X  
Wet Locations

**CEC:**  
Class I, Zone 2, Group IIC

	Description	Standard Materials	Catalog Number
	Surface Mount (set of 2)	14-gauge stainless steel	FVSM
	Adjustable Wall Mount (set of 2)	Copperfree (4/10 of 1% max.) aluminum	FVWAM
	Fixed 45° Wall Mount (set of 2)	11-gauge (1/8") stainless steel	FVWFM
	Chain Mount (set of 2)	Zinc plated steel M8 ring bolts (chain not provided)	FVCM

### Technical Data — Thermal Performance of FV Series Fixtures

For supply connection, use wire rated +75 °C (+167 °F).

Fixture	Quantity	Lamp Watt	Type	Lamp Lumens	Min. Start Temp °C (°F)	Ambient Temp. °C (°F)	"T" Numbers
FVP240BU	2	40	F40BX	3300	-18 (0)	+40 (+104)	T4
FVP240-347 ②	2	40	F40BX	3300	-18 (0)	+40 (+104)	T4
FVP440BU	4	40	F40BX	3300	-18 (0)	+40 (+104)	T4
FVP440-347 ②	4	40	F40BX	3300	-18 (0)	+40 (+104)	T4
FVR232BU	2	32	T8-RS	2850	-18 (0)	+40 (+104)	T6
FVR232-347S0	2	32	T8-RS	2850	-18 (0)	+40 (+104)	T6
FVH244-BU	2	44	T8-HO	4050	-10 (+14)	+40 (+104)	T6
FVH244-347S0 ②	2	44	T8-HO	4050	-10 (+14)	+40 (+104)	T6
FVR240BU	2	40	T12-RS	3050	-18 (0)	+55 (+131)	T4A
FVR240-347SS ②	2	40	T12-HO	3050	+10 (+50)	+55 (+131)	T4A
FVH260BU	2	60	T12-HO	4050	-28 (-20)	+40 (+104)	T4A
FVH260-347SS ②	2	60	T12-HO	4050	-28 (-20)	+40 (+104)	T4A
FVR332BU	3	32	T8-RS	2850	-18 (0)	+40 (+104)	T6

① Does not apply to fixtures with fusing.

② Certified to meet the Canadian Electrical Code (CEC) only.

# FV Series Nonmetallic Fluorescent Luminaires

For Hazardous and Adverse Locations

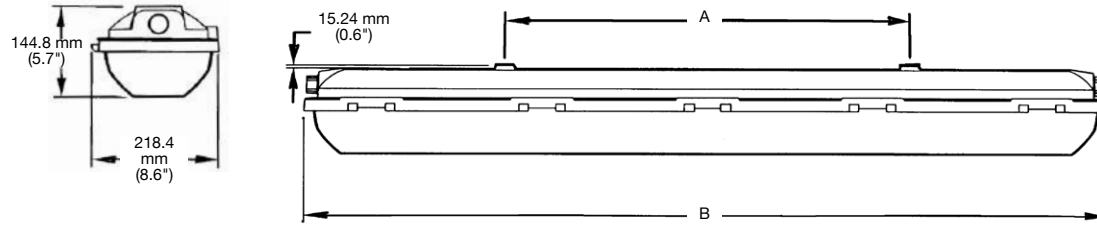
**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G

**NEC/CEC:**  
Marine Type Electric Fixture  
Outside Type (Salt Water)  
Type 4X  
Wet Locations

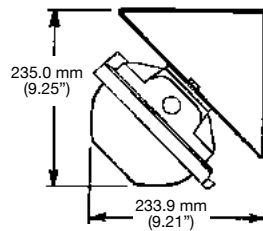
**CEC:**  
Class I, Zone 2, Group IIC

## Dimensions in Millimeters (Inches)

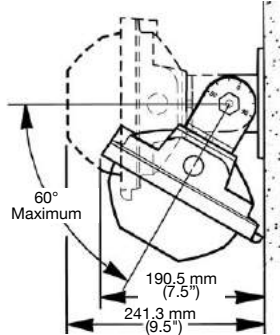
### FV Series



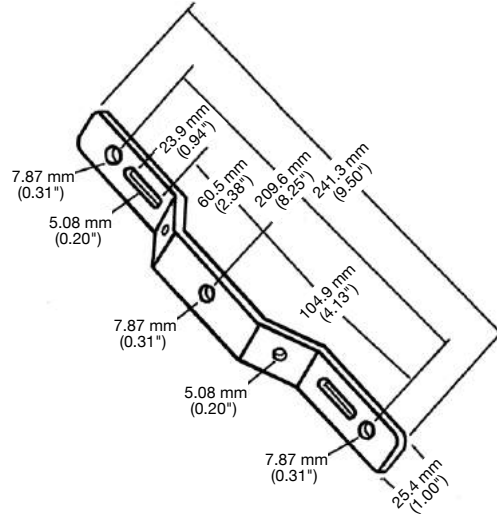
#### FVWFM



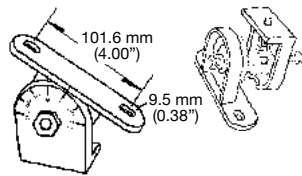
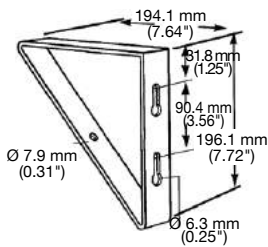
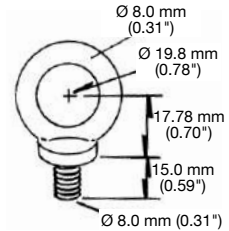
#### FVWAM



#### FVSM



#### FVCM



## Mounting Centers and Overall Length in Millimeters (Inches)

	A	B
2 Foot Luminaire	401.3 mm (15.80")	787.4 mm (31.00")
4 Foot Luminaire	701.0 mm (27.60")	1397.0 mm (55.00")

# FV Series Nonmetallic Fluorescent Luminaire Photometric Data

## For Hazardous and Adverse Locations

**NEC/CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G

**NEC/CEC:**  
Marine Type Electric Fixture  
Outside Type (Salt Water)  
Type 4X  
Wet Locations

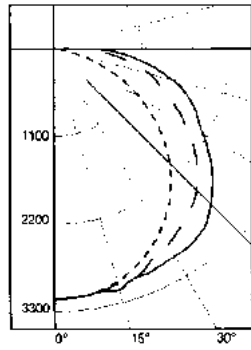
**CEC:**  
Class I, Zone 2, Group IIC

### Photometric Data

CIE TYPE – DIRECT

PLANE: 0 DEG. 90 DEG.  
SPACING CRITERIA: 1.2 1.5

CANDELA DISTRIBUTION			
0.0	45.0	90.0	ZONAL LUMENS
0	1705	1705	1705
5	1701	1698	1687
15	1635	1642	1688
25	1513	1581	1660
35	1324	1492	1623
45	1085	1361	1516
55	806	1161	1292
65	490	888	1065
75	197	644	821
85	32	360	497
90	12	257	399

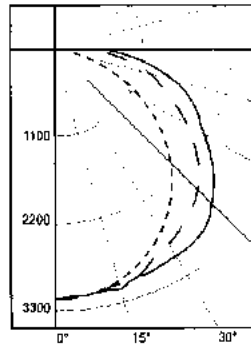


FVP 240, Two 40 W PL Lamps • Total Luminaire Efficiency = 92.7%																			
Room Cavity Ratio	% Floors Rfc	% Ceiling Rcc	% Walls Rww	20															
				80				70				50				30			
				70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
0	1.10	1.10	1.10	1.10	1.08	1.08	1.08	1.08	1.03	1.03	1.03	.99	.99	.99	.95	.95	.95	.95	.93
1	.99	.93	.89	.84	.96	.91	.87	.83	.87	.83	.80	.83	.80	.78	.80	.78	.75	.73	.73
2	.89	.80	.73	.67	.86	.78	.72	.66	.75	.69	.64	.72	.67	.63	.69	.65	.61	.59	.59
3	.80	.69	.61	.54	.78	.68	.60	.54	.65	.58	.53	.62	.57	.52	.60	.55	.51	.49	.49
4	.73	.61	.52	.45	.71	.60	.51	.44	.57	.50	.44	.55	.49	.44	.53	.48	.43	.41	.41
5	.67	.54	.45	.39	.65	.53	.45	.38	.51	.44	.38	.49	.43	.37	.47	.42	.37	.35	.35
6	.62	.49	.40	.33	.60	.48	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.32	.30	.30
7	.57	.44	.35	.29	.55	.43	.35	.29	.42	.34	.29	.40	.34	.29	.39	.33	.28	.26	.26
8	.53	.40	.32	.26	.52	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.23	.23
9	.50	.37	.29	.23	.48	.36	.28	.23	.35	.28	.23	.34	.27	.23	.33	.27	.23	.21	.21
10	.46	.34	.26	.21	.45	.33	.26	.21	.32	.25	.21	.31	.25	.21	.30	.24	.20	.19	.19

CIE TYPE – DIRECT

PLANE: 0 DEG. 90 DEG.  
SPACING CRITERIA: 1.2 1.5

CANDELA DISTRIBUTION			
0.0	45.0	90.0	ZONAL LUMENS
0	3152	3152	3152
5	3139	3138	3130
15	3030	3060	3036
25	2798	2910	3041
35	2470	2740	2091
45	2043	2517	2760
55	1523	2130	2373
65	941	1656	1976
75	378	1234	1532
85	49	679	901
90	10	474	694

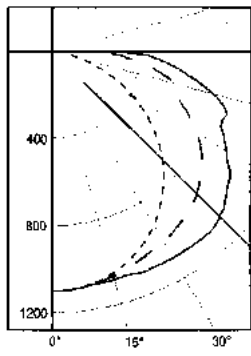


FVP 440, Four 40 W PL Lamps • Total Luminaire Efficiency = 85.8%																			
Room Cavity Ratio	% Floors Rfc	% Ceiling Rcc	% Walls Rww	20															
				80				70				50				30			
				70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
0	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	.95	.95	.95	.91	.91	.91	.88	.88	.88	.86	.86
1	.99	.93	.89	.84	.96	.91	.87	.83	.87	.83	.80	.83	.80	.78	.80	.78	.75	.73	.73
2	.89	.80	.73	.67	.86	.78	.72	.66	.75	.69	.64	.72	.67	.63	.69	.65	.61	.59	.59
3	.74	.64	.56	.50	.72	.63	.56	.50	.60	.54	.49	.58	.52	.48	.55	.51	.47	.45	.45
4	.68	.56	.48	.42	.66	.55	.48	.42	.53	.46	.41	.51	.45	.40	.49	.44	.40	.38	.38
5	.62	.50	.42	.36	.60	.49	.41	.35	.47	.40	.35	.46	.39	.35	.44	.39	.44	.32	.32
6	.57	.45	.37	.31	.55	.44	.36	.31	.42	.36	.30	.41	.35	.30	.40	.34	.30	.28	.28
7	.53	.41	.33	.27	.51	.40	.32	.27	.38	.32	.27	.37	.31	.26	.36	.30	.26	.24	.24
8	.49	.37	.29	.24	.48	.36	.29	.24	.35	.28	.24	.34	.28	.24	.33	.27	.23	.22	.22
9	.46	.34	.26	.21	.45	.33	.26	.21	.32	.26	.21	.31	.25	.21	.30	.25	.21	.19	.19
10	.43	.31	.24	.19	.42	.31	.24	.19	.30	.23	.19	.29	.23	.19	.28	.23	.19	.175	.175

CIE TYPE – DIRECT

PLANE: 0 DEG. 90 DEG.  
SPACING CRITERIA: 1.2 1.5

CANDELA DISTRIBUTION			
0.0	45.0	90.0	ZONAL LUMENS
0	1101	1101	1101
5	1098	1098	1097
15	1056	1069	1085
25	976	1026	1093
35	856	985	1096
45	710	928	1075
55	528	830	986
65	328	681	849
75	132	567	757
85	14	340	499
90	4	252	397

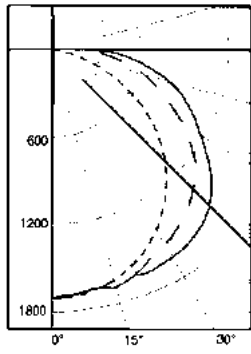


FVR 232, Two T8 32 W Lamps* • Total Luminaire Efficiency = 77.4%																			
Room Cavity Ratio	% Floors Rfc	% Ceiling Rcc	% Walls Rww	20															
				80				70				50				30			
				70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
0	.92	.92	.92	.92	.90	.90	.90	.90	.86	.86	.86	.82	.82	.82	.79	.79	.79	.77	.77
1	.81	.77	.72	.68	.79	.75	.71	.67	.71	.68	.65	.68	.66	.63	.65	.63	.61	.59	.59
2	.73	.65	.59	.53	.71	.64	.58	.53	.61	.56	.51	.58	.54	.50	.56	.52	.49	.47	.47
3	.65	.56	.49	.44	.63	.55	.49	.43	.53	.47	.43	.51	.46	.42	.49	.45	.41	.39	.39
4	.60	.49	.42	.36	.58	.48	.41	.35	.46	.40	.35	.44	.39	.34	.42	.38	.34	.32	.32
5	.55	.44	.37	.31	.53	.43	.36	.31	.41	.35	.31	.40	.34	.30	.38	.34	.30	.28	.28
6	.50	.39	.31	.26	.49	.38	.31	.26	.35	.30	.26	.35	.30	.25	.34	.29	.25	.23	.23
7	.47	.35	.28	.23	.45	.35	.28	.23	.33	.27	.22	.32	.26	.22	.31	.26	.22	.20	.20
8	.43	.32	.25	.20	.42	.31	.25	.20	.30	.24	.20	.29	.24	.20	.28	.23	.19	.18	.18
9	.40	.29	.22	.18	.39	.29	.22	.18	.28	.22	.18	.27	.21	.18	.26	.21	.17	.16	.16
10	.38	.27	.20	.16	.37	.26	.20	.16	.26	.20	.16	.25	.20	.16	.24	.19	.16	.14	.14

CIE TYPE – DIRECT

PLANE: 0 DEG. 90 DEG.  
SPACING CRITERIA: 1.2 1.4

CANDELA DISTRIBUTION			
0.0	45.0	90.0	ZONAL LUMENS
0	1780	1780	1780
5	1767	1773	1771
15	1700	1732	1757
25	1574	1661	1734
35	1388	1554	1652
45	1150	1388	1556
55	860	12001	3671
65	53	6949	1116
75	214	698	914
85	21	443	637
90	7	319	491



FVR 332, Three T8 32 W Lamps • Total Luminaire Efficiency = 75.7%																			
% Floors	Rfc	20																	
% Ceiling	Rcc	80				70				50			30			10			0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio	0	.90	.90	.90	.90	.88	.88	.88	.88	.84	.84	.84	.81	.81	.81	.77	.77	.77	.76
	1	.80	.76	.72	.68	.78	.74	.70	.67	.71	.68	.65	.68	.65	.63	.65	.63	.61	.59
	2	.72	.65	.59	.54	.70	.63	.58	.53	.61	.56	.52	.58	.54	.51	.56	.52	.50	.48
	3	.65	.56	.49	.44	.63	.55	.49	.43	.53	.47	.43	.51	.46	.42	.49	.45	.41	.39
	4	.60	.50	.42	.37	.58	.48	.42	.36	.47	.41	.36	.45	.39	.35	.43	.38	.35	.33
	5	.55	.44	.37	.31	.53	.43	.36	.31	.41	.35	.31	.40	.34	.30	.38	.34	.30	.28
	6	.50	.39	.32	.27	.49	.39	.32	.27	.37	.31	.27	.36	.30	.26	.35	.30	.26	.24
	7	.46	.36	.29	.24	.45	.35	.28	.23	.34	.28	.23	.33	.27	.23	.32	.27	.23	.21
	8	.43	.32	.26	.21	.42	.32	.25	.21	.31	.25	.21	.30	.24	.21	.29	.24	.20	.19
	9	.40	.30	.23	.19	.39	.29	.23	.19	.28	.23	.19	.27	.22	.18	.27	.22	.18	.17
10	.38	.27	.21	.17	.37	.27	.21	.17	.26	.21	.17	.25	.20	.17	.25	.20	.17	.15	

# FR, FZ and FD Luminaires

## Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

**NEC/CEC — FR Series**  
Wet Locations  
IP65 when used with optional polycarbonate lens

**NEC/CEC — FZ Series**  
Class I, Zone 2, IIC  
AEx nA IIC T5 IP65  
Ex nA IIC T5 IP65

**NEC/CEC — FD Series**  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, IIC

### Applications

- For use in locations where a high degree of corrosion resistance is required.
- FR Series:
  - For use in areas where high humidity or water vapor are present
  - Typical uses include meat- or food-processing plants, dairy or drug plants, breweries, kitchens, chemical plants, car washes, laundries and parking garages.
  - Can be used indoors or outdoors in protected locations (wet locations).
  - Operates safely in 38 °C (100 °F) ambient temperature areas.
- FZ and FD Series:
  - For use in hazardous locations defined by the NEC as Class I, Division 2; and Class I, Zone 2.
  - For wet-location use where protection against dirt, water and moisture is necessary.
  - Typical applications include oil refineries, petrochemical facilities, pulp and paper mills, food-processing plants, warehouses, underground tunnels and general manufacturing facilities.
- FZ Series is UL Listed for Class I, Zone 2.
- FD Series fixture is UL listed for Class I, Division 2.

### Features

- Fixtures are available with ballasts to support T12 and T8 lamps for nearly all U.S. and foreign voltage and frequency combinations.
- Low operating costs provide more lumens per Watt than incandescent fixtures.
- Housing is smooth, seamless, one-piece injection molded.
- Lens comes in high-impact polycarbonate plastic or impact-resistant acrylic.
- Fixtures are washable, non-conductive and corrosion-resistant.
- Enclosure is rated at IP65 (using polycarbonate lens), dust-proof and protected against water spray.
- A compressible, one-piece, non-thixotropic polyol gasket is bonded to the housing around the entire perimeter. It forms a continuous tight seal with the lens to keep out dirt, vapor and moisture.
- Lens is securely clamped to fixture using six captive corrosion-proof molded celcon tension latches. Lens is impact-resistant acrylic to protect lamps against breakage, and protect work area from broken lamp glass.
- Electrical components are mounted on a metallic wireway. Reflector is supported by internal safety springs to simplify installation and servicing.
- Optional fusing protects circuitry against occasional line voltage spikes.
- FR Series fixtures are available with one or two watertight 1/2" hubs for electrical-feed mounting or single-entry mounting.
- FZ fixtures are available with either 1/2" NPT or cable gland entries.
  - Cable glands are not available with FD series.

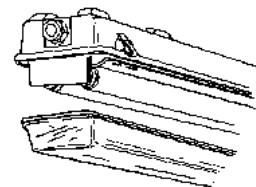
### Standard Materials

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate or acrylic. (Fixture has IP65 rating with polycarbonate lens.) Acrylic lens supplied as standard
- Latches: celcon
- Ceiling mounting bracket: stainless steel
- Adjustable wall mount: copperfree (4/10 of 1% max.) aluminum
- Fixed wall mount: stainless steel



### Illustrated Features

**Non-thixotropic polyol gasket is bonded to housing. With plastic latches closed, it forms a continuous, tight seal with lens. Keeps out moisture, vapor and dirt. Allows fast, easy fixture washing.**



- Chain mount: zinc plated steel
- Gasket: non-thixotropic polyol
- Hubs: zinc plated steel with neoprene o-ring
- Lampholders: polycarbonate

### Standard Finishes

- Housing: white color finish
- Celcon latches: white color finish
- Adjustable wall mount: epoxy powder coat

### Options:

- Add Suffix **-F** for Fused
- Add Suffix **-T** for Terminal Blocks
- Add Suffix **-P** for Polycarbonate Lens for IP65 Rating
- Add Suffix **-E** for Emergency Battery Pack capability in moments of power interruption. Luminaire automatically switches to emergency mode, keeping two lamps illuminated for a minimum of 90 minutes. When AC power is restored, battery automatically recharges in 24 hours. Initial light output is 600-700 lumens.

### NEC/CEC Compliances and Certifications

- FR Series:
  - UL Standard: UL 1598
  - UL Listed: E187946
  - CSA Standard: C22.2 No. 250
  - cUL Listed: E187946
- FZ Series:
  - UL Standard: UL 1598, UL 844, UL 60079-0, UL 60079-15
  - UL Listed: E10794
  - CSA Standard: C22.2 No. 250, C22.2 No. 137, CAN E60079-0, CAN E60079-15
  - cUL Listed: E10794
- FD Series:
  - UL Standard: UL 1598, UL 844
  - UL Listed: E10794
  - CSA Standard: C22.2 No. 250, C22.2 No. 137
  - cUL Listed: E10794

# FR, FZ and FD Luminaires

## Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

### NEC/CEC — FR Series

Wet Locations

IP65 when used with optional polycarbonate lens

### NEC/CEC — FZ Series

Class I, Zone 2, IIC

AEx nA IIC T5 IP65

Ex nA IIC T5 IP65

### NEC/CEC — FD Series

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2, IIC

Order using catalog numbering guide below.

### Catalog Numbering Guide For FR, FZ And FD Nonmetallic Fluorescent Lighting Fixtures

FZ	N1	C	2	4	08	S	BU	2	F
Series: FR - Wet Location FZ - Zone 2, AEx nA, Ex nA ⑦ FD - Class I, Division 2 ①	Conduit/Cable Entry: N1 - 1/2" NPT Conduit Single Entry M1 - Cable Gland Single Entry ⑤⑦ N2 - 1/2" NPT Conduit (2 hubs provided) M2 - Cable Gland Feed Thru ⑥⑦	Mounting Configuration: C - Ceiling P - Pendant	Number of Lamps: 2 - 2 Lamps	Lamp Length: 4 - 4 Feet	Lamp Type: 08 - T8, 32 W, 265MA 12 - T12, 40 W, 430MA	Ballast Type: S - Solid State ②	Voltage: 347 - 347 V, 60 Hz ③ BU - 120-277 V, 50/60 Hz (-18 °C (0 °F) start) ⑥	Number of Ballasts: Blank - Single 2 - Double	Options: F - Fused ⑧ T - Terminal Blocks ④ P - Polycarbonate lens ③ for IP65 EL - Emergency Battery Pack

① Fixture is not available with M1 or M2 cable entry options

② Cold weather standard for T8.

③ Use polycarbonate lens for IP65 rating. Polycarbonate lens is standard on FZ Series.

④ Standard equipment for FZ series

⑤ Fixture will be supplied with a 1.5 m (5') length of #14/3 cord and 3 prong plug (120 V) pre-installed when ordered with cable gland. Fixture with cable gland can only be used with hook and chain mounting.

⑥ T8-RS only.

⑦ FZ Series fixtures are not UL Listed for Class I, Division 2 when used with cable glands. FZ Series fixtures are UL Classified for Class I, Zone 2 when used with cable glands.

⑧ Canadian Electrical Code does NOT allow fusing in hazardous locations.

⑨ Certified to meet the Canadian Electrical Code (CEC) only.

# FR, FZ and FD Luminaires

## Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

NEC/CEC — FR Series

Wet Locations

IP65 when used with optional polycarbonate lens

NEC/CEC — FZ Series

Class I, Zone 2, IIC





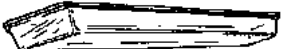


AEx nA IIC T5 IP65

Ex nA IIC T5 IP65

NEC/CEC — FD Series

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2, IIC

Item	Description	Catalog Number
Hub		
	1/2" NPT watertight conduit hub	FHUB
Cable Gland		
	Cable gland	FGLAND
Lampholder		
	32 W (T8) and 40 W (T12) lampholder	FS0C40
Lens Clip		
	Standard plastic clips	FPCLIP
Lens		
	Acrylic lens cover	FLENS
	Polycarbonate lens cover ①	FPLENS
Ceiling Mounting Bracket (Supplied standard with product)		
	Stainless steel bracket with mounting hardware (set of 2)	FBRACKET
Fixed 45° Wall Mount		
	11 gauge (1/8") stainless steel (set of 2)	FWWFM

① Polycarbonate lens standard for FZ series. When used with FD series, fixture has an IP65 rating.

# FR, FZ and FD Luminaires

## Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

### NEC/CEC — FR Series

Wet Locations

IP65 when used with optional polycarbonate lens

### NEC/CEC — FZ Series

Class I, Zone 2, IIC

AEx nA IIC T5 IP65

Ex nA IIC T5 IP65

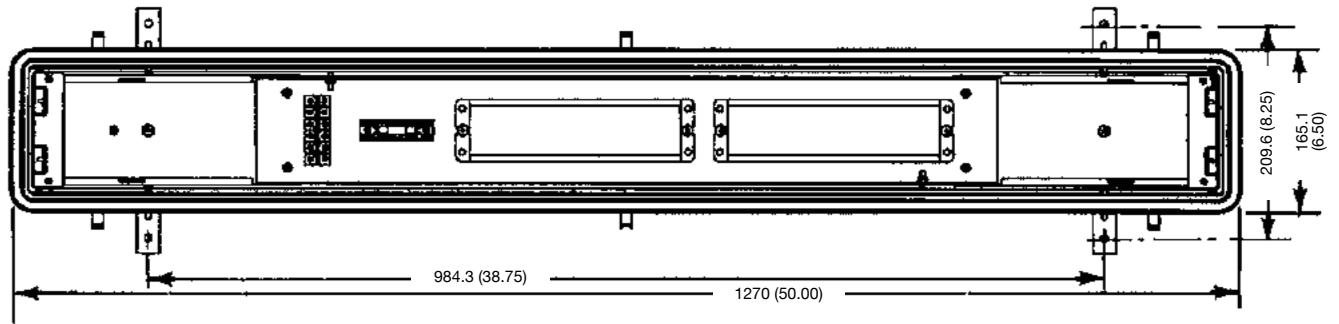
### NEC/CEC — FD Series

Class I, Division 2, Groups A, B, C, D

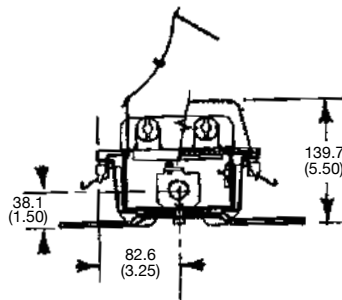
Class I, Zone 2, IIC

### Dimensions in Millimeters (Inches)

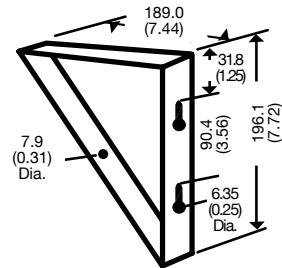
View of Fixture Cover



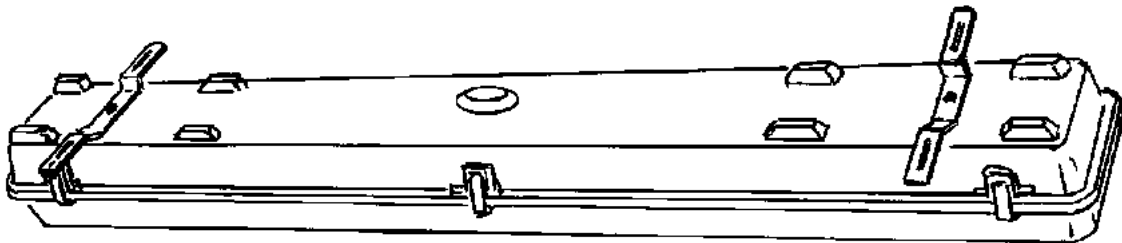
Side View



Fixed 45° Wall Mount — FVWFM



View of Fixture Mounting



# FR, FZ and FD Luminaires

## Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

### NEC/CEC — FR Series

Wet Locations

IP65 when used with optional polycarbonate lens

### NEC/CEC — FZ Series

Class I, Zone 2, IIC

AEx nA IIC T5 IP65

Ex nA IIC T5 IP65

### NEC/CEC — FD Series

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2, IIC

## Photometric Data

CANDELA DISTRIBUTION					
0.0	22.5	45.0	67.5	90.0	Flux
0	1155	1155	1155	1155	1155
5	1159	1153	1150	1148	1148
15	1118	1118	1124	1134	1137
25	1036	1049	1071	1109	1125
35	918	945	1010	1087	1114
45	766	812	927	1026	1056
55	569	652	788	900	927
65	342	450	598	719	753
75	148	259	432	567	604
85	25	133	318	444	473
90	4	98	270	376	412
95	5	84	258	372	414
105	2	42	182	292	341
115	0	13	69	139	182
125	0	3	22	36	50
135	0	0	9	15	19
145	0	0	2	7	9
155	0	0	0	0	2
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

TOTAL LUMINAIRE EFFICIENCY = 84.6%

CIE Type — Semi-Direct

Plane: 0° 90°

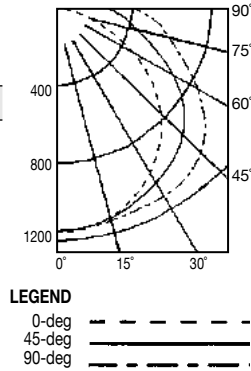
Spacing Criteria: 1.3 1.5

Shielding Angles: 1 0



### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-30	926
0-40	1562
0-60	2962
0-90	4282
90-120	509
90-130	529
90-150	538
90-180	539
0-180	4820



REPORT NUMBER: ITL 47240

Lamps: Two 32 W, 4-foot F32T8/TL735 fluorescents, 2850 lumens per lamp with acrylic lens.

### COEFFICIENTS OF UTILIZATION — ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

% Ceiling RC		80				70				50				30				10				0
% Walls	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
	0	.98	.98	.98	.98	.95	.95	.95	.95	.89	.89	.89	.83	.83	.83	.78	.78	.78	.75			
	1	.88	.83	.78	.74	.84	.80	.76	.72	.75	.71	.68	.70	.67	.65	.65	.63	.61	.58			
	2	.79	.71	.65	.59	.76	.69	.63	.58	.64	.59	.55	.60	.56	.52	.56	.52	.50	.47			
	3	.71	.62	.54	.48	.68	.60	.53	.47	.56	.50	.45	.52	.47	.43	.49	.45	.41	.39			
	4	.65	.54	.46	.40	.62	.52	.45	.39	.49	.43	.38	.46	.41	.36	.43	.38	.35	.32			
	5	.60	.48	.40	.34	.57	.47	.39	.33	.44	.37	.32	.41	.35	.31	.38	.34	.30	.28			
	6	.55	.43	.35	.29	.53	.52	.34	.29	.39	.33	.28	.37	.31	.27	.35	.30	.26	.24			
	7	.51	.39	.31	.26	.49	.38	.30	.25	.36	.29	.24	.33	.28	.24	.32	.27	.23	.21			
	8	.47	.35	.28	.23	.45	.34	.27	.22	.32	.26	.22	.31	.25	.21	.29	.24	.20	.19			
	9	.44	.32	.25	.20	.42	.31	.25	.20	.30	.24	.19	.28	.23	.19	.27	.22	.18	.17			
	10	.41	.30	.23	.18	.40	.29	.22	.18	.27	.22	.17	.26	.21	.17	.25	.20	.16	.15			

CANDELA DISTRIBUTION					
0.0	22.5	45.0	67.5	90.0	Flux
0	566	566	566	566	566
5	568	565	564	563	563
15	548	549	550	554	555
25	506	512	523	543	552
35	448	461	495	535	549
45	374	396	458	509	525
55	283	324	399	457	475
65	177	241	318	393	409
75	72	142	211	259	267
85	6	63	150	212	228
90	1	46	118	167	186
95	1	43	122	176	198
105	0	20	84	131	154
115	0	5	33	74	92
125	0	1	10	18	24
135	0	0	5	9	10
145	0	0	1	4	5
155	0	0	0	1	1
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

TOTAL LUMINAIRE EFFICIENCY = 83.6%

CIE Type — Semi-Direct

Plane: 0° 90°

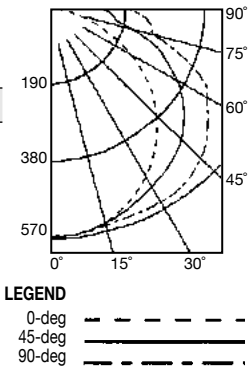
Spacing Criteria: 1.3 1.5

Shielding Angles: 1 0



### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-30	453
0-40	765
0-60	1464
0-90	2126
90-120	241
90-130	251
90-150	256
90-180	256
0-180	2383



REPORT NUMBER: ITL 47241

Lamps: Two 32 W, 4-foot F32T8/TL735 fluorescents, 2850 lumens per lamp with polycarbonate lens.

### COEFFICIENTS OF UTILIZATION — ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

% Ceiling RC		80				70				50				30				10				0
% Walls	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0		.97	.97	.97	.97	.94	.94	.94	.94	.88	.88	.88	.82	.82	.82	.77	.77	.77	.75			
1		.87	.82	.78	.74	.84	.79	.75	.72	.74	.71	.68	.69	.67	.64	.65	.63	.61	.58			
2		.78	.70	.64	.58	.75	.68	.62	.57	.63	.59	.54	.59	.55	.52	.55	.52	.49	.47			
3		.71	.61	.53	.48	.68	.59	.52	.47	.55	.49	.45	.52	.47	.43	.48	.44	.41	.38			
4		.64	.54	.46	.40	.62	.52	.44	.39	.48	.42	.37	.45	.40	.36	.43	.38	.34	.32			
5		.59	.47	.39	.34	.56	.46	.39	.33	.43	.37	.32	.40	.35	.31	.38	.33	.29	.27			
6		.54	.42	.35	.29	.52	.41	.34	.28	.39	.32	.27	.36	.31	.27	.34	.29	.26	.24			
7		.50	.38	.31	.25	.48	.37	.30	.25	.35	.29	.24	.33	.27	.23	.31	.26	.22	.21			
8		.46	.35	.27	.22	.45	.34	.27	.22	.32	.26	.21	.30	.25	.21	.28	.24	.20	.18			
9		.43	.32	.25	.20	.42	.31	.24	.20	.29	.23	.19	.28	.22	.18	.26	.21	.18	.16			
10		.41	.29	.22	.18	.39	.28	.22	.18	.27	.21	.17	.26	.20	.17	.24	.20	.16	.15			



# FR, FZ and FD Luminaires

## Nonmetallic Fluorescent

4 foot, 2 lamp fixtures. High-impact fiberglass reinforced polyester fixtures suitable for use in wet and damp locations.

### NEC/CEC — FR Series

Wet Locations

IP65 when used with optional polycarbonate lens

### NEC/CEC — FZ Series

Class I, Zone 2, IIC

AEx nA IIC T5 IP65

Ex nA IIC T5 IP65

### NEC/CEC — FD Series

Class I, Division 2, Groups A, B, C, D

Class I, Zone 2, IIC

### Photometric Data

CANDELA DISTRIBUTION TOTAL LUMINAIRE EFFICIENCY = 80.7%

0.0 22.5 45.0 67.5 90.0 Flux

0 1224 1224 1224 1224 1224

5 1228 1223 1221 1219 1218 116

15 1185 1190 1204 1219 1222 341

25 1097 1122 1158 1200 1214 535

35 974 1020 1090 1166 1192 683

45 811 881 993 1094 1122 759

55 600 701 837 943 967 729

65 358 476 625 736 761 595

75 154 271 443 566 600 441

85 25 136 325 455 490 321

90 5 101 285 401 442

95 5 84 260 372 415 253

105 2 45 187 294 343 184

115 0 14 85 163 204 91

125 0 3 23 53 81 28

135 0 0 9 16 20 7

145 0 0 0 5 7 2

155 0 0 0 0 0 0

165 0 0 0 0 0 0

175 0 0 0 0 0 0

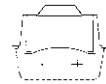
180 0 0 0 0 0 0

CIE Type — Semi-Direct

Plane: 0° 90°

Spacing Criteria: 1.3 1.5

Shielding Angles: 1 0



#### ZONAL LUMEN SUMMARY

ZONE LUMENS

0-30 992

0-40 1676

0-60 3164

0-90 4521

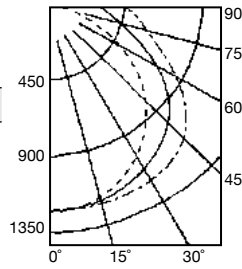
90-120 528

90-130 556

90-150 564

90-180 564

0-180 5085



LEGEND  
0-deg ---  
45-deg ---  
90-deg ---

REPORT NUMBER: ITL 47242

Lamps: Two 40 W, 4-foot F40WW fluorescents,  
3150 lumens per lamp with acrylic lens.

#### COEFFICIENTS OF UTILIZATION — ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

% Ceiling RC		80				70				50				30				10				0
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
% Walls RW																						
	0	.94	.94	.94	.94	.91	.91	.91	.91	.85	.85	.85	.79	.79	.79	.74	.74	.74	.72			
	1	.84	.79	.75	.71	.81	.76	.73	.69	.71	.68	.65	.67	.64	.62	.62	.60	.58	.56			
	2	.76	.68	.62	.57	.72	.66	.60	.55	.61	.57	.53	.57	.53	.50	.54	.50	.48	.45			
	3	.68	.59	.52	.46	.66	.57	.51	.45	.53	.48	.43	.50	.45	.41	.47	.43	.40	.37			
	4	.62	.52	.44	.39	.60	.50	.43	.38	.47	.41	.36	.44	.39	.35	.41	.37	.33	.31			
	5	.57	.46	.39	.33	.55	.45	.38	.32	.42	.36	.31	.39	.34	.30	.37	.32	.29	.27			
	6	.53	.41	.34	.28	.50	.40	.33	.28	.38	.32	.27	.35	.30	.26	.33	.29	.25	.23			
	7	.49	.37	.30	.25	.47	.36	.29	.24	.34	.28	.24	.32	.27	.23	.30	.26	.22	.20			
	8	.45	.34	.27	.22	.43	.33	.26	.22	.31	.25	.21	.29	.24	.20	.28	.23	.20	.18			
	9	.42	.31	.24	.20	.40	.30	.24	.19	.29	.23	.19	.27	.22	.18	.26	.21	.18	.16			
	10	.39	.28	.22	.18	.38	.28	.22	.17	.26	.21	.17	.25	.20	.16	.24	.19	.16	.14			

### CANDELA DISTRIBUTION

0.0 22.5 45.0 67.5 90.0 Flux

0 1188 1188 1188 1188 1188

5 1188 1186 1186 1184 1183 113

15 1146 1155 1165 1177 1181 330

25 1060 1085 1122 1165 1178 519

35 940 984 1055 1135 1161 663

45 782 850 970 1073 1102 738

55 589 687 836 950 977 725

65 367 500 652 765 791 618

75 145 293 437 548 563 431

85 12 132 306 428 464 302

90 4 106 270 381 421

95 5 86 244 348 389 240

105 2 42 178 278 321 172

115 0 8 82 163 201 88

125 0 1 19 54 82 27

135 0 0 8 16 18 6

145 0 0 1 5 8 2

155 0 0 0 0 0 0

165 0 0 0 0 0 0

175 0 0 0 0 0 0

180 0 0 0 0 0 0

TOTAL LUMINAIRE EFFICIENCY = 78.9%

CIE Type — Semi-Direct

Plane: 0° 90°

Spacing Criteria: 1.3 1.5

Shielding Angles: 1 0



#### ZONAL LUMEN SUMMARY

ZONE LUMENS

0-30 961

0-40 1624

0-60 3087

0-90 4438

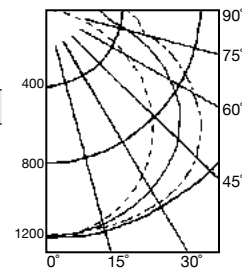
90-120 500

90-130 527

90-150 535

90-180 535

0-180 4973



LEGEND  
0-deg ---  
45-deg ---  
90-deg ---

REPORT NUMBER: ITL 47243

Lamps: Two 40 W, 4-foot F40WW fluorescents,  
3150 lumens per lamp with polycarbonate lens.

#### COEFFICIENTS OF UTILIZATION — ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

% Ceiling RC		80				70				50				30				10				0
% Walls	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
	0	.92	.92	.92	.92	.89	.89	.89	.89	.83	.83	.83	.78	.78	.78	.73	.73	.73	.70			
	1	.82	.78	.74	.70	.79	.75	.71	.68	.70	.67	.64	.65	.63	.61	.61	.59	.57	.55			
	2	.74	.67	.61	.55	.71	.64	.59	.54	.60	.55	.52	.56	.52	.49	.53	.49	.47	.44			
	3	.67	.58	.51	.45	.64	.56	.49	.44	.52	.47	.42	.49	.44	.41	.46	.42	.39	.37			
	4	.61	.51	.43	.38	.58	.49	.42	.37	.46	.40	.35	.43	.38	.34	.40	.36	.33	.31			
	5	.56	.45	.38	.32	.53	.44	.37	.31	.41	.35	.30	.38	.33	.29	.36	.32	.28	.26			
	6	.51	.40	.33	.28	.49	.39	.32	.27	.37	.31	.26	.35	.29	.25	.33	.28	.24	.23			
	7	.47	.36	.29	.24	.46	.35	.29	.24	.33	.27	.23	.31	.26	.22	.30	.25	.21	.20			
	8	.44	.33	.26	.21	.42	.32	.26	.21	.30	.25	.20	.29	.23	.20	.27	.23	.19	.17			
	9	.41	.30	.24	.19	.39	.29	.23	.19	.28	.22	.18	.26	.21	.18	.25	.20	.17	.16			
	10	.38	.28	.21	.17	.37	.27	.21	.17	.26	.20	.16	.24	.19	.16	.23	.19	.15	.14			

# RigMaster™ Metallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

Suitable for Use in Wet Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

### NEC:

*Class I, Division 2, Groups A, B, C, D*

*NEMA Type 4X*

*Marine Type Electric Fixture Non-Recessed*

*Outside Type (Salt Water) ①②*

### Applications

- Enclosed and gasketed fixtures for use where vapors, moisture, dirt or corrosive atmospheres are encountered.
- For use in hazardous locations defined by the NEC as Class I, Division 2, Groups A, B, C and D; Marine Type Electric Fixture Non-Recessed Outside Type (Salt Water); UL1598A; and Type 4X.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor/outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include:
  - Oil drilling rigs
  - Marine loading terminals
  - Processing plants
  - Pipeline pumping stations
  - Water treatment plants
  - Lubrication pits

### Features

- Choice of mountings: end brackets, swivel brackets and straight brackets.
- Thick 1/8" clear acrylic lens protects against possible broken glass from lamps.
- RigMaster fixtures are supplied with the following ballast:
  - Class P low energy (E) ballasts which are equipped with an automatic thermally-activated protective device; offers protection against excessive voltage, internal ballast short circuiting, inadequate lamp maintenance and improper fixture application.
  - 220- and 240-volt options are available in both 50 and 60 Hz.
- High-temperature nickel-cadmium battery has a life expectancy of 7 to 10 years.
- Battery charger indicator light and test switch are mounted inside the enclosure and visible through the clear lens.
- Heavy-duty telescoping lampholders.
- Fixtures are shipped complete with lamps.
- Swivel End Mount fixture comes standard with eyebolt on fixture end for connecting safety cable.
- Swivel Center Mount and Straight Center Mount fixtures come standard with cast mounts on fixture end for connecting safety cable.
- Fixture is equipped with 2 NPT conduit entries; one on each end.

### Standard Materials

- Reflector housings: extruded aluminum
- Door frame: 1/8" extruded aluminum
- Door clamps: heavy-duty plated spring steel
- Lampholders: white urea plastic
- Gasket: neoprene



RM2232BUSW

### Illustrated Feature



Four plated steel latches on each side of door assure integrity of fixture for areas as classified.

### Options

- Individually fused ballast: suffix **-F**.
- Emergency battery pack: suffix **-EL** ①.
- Emergency Battery Pack capability in moments of power interruption. Luminaire automatically switches to emergency mode, keeping one lamp illuminated for a minimum of 90 minutes. When AC power is restored, battery automatically recharges in 24 hours. Initial light output is 600-700 lumens.

### NEC Certifications and Compliances

- UL Standard: UL 1598, UL 844, UL 924
- UL Listed: E10794

① Fixtures with emergency ballast are not recommended where the ambient temperature may fall below 0 °C (+32 °F) for extended periods.

② Does not apply to fixtures with fusing.

# RigMaster™ Metallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

Suitable for Use in Wet Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

### NEC:

Class I, Division 2, Groups A, B, C, D

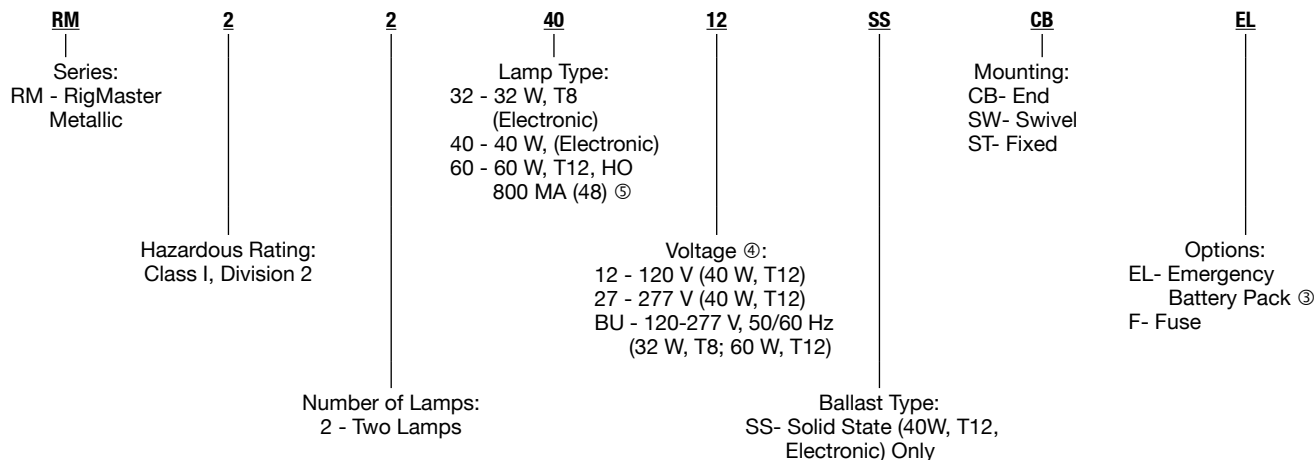
NEMA Type 4X

Marine Type Electric Fixture Non-Recessed

Outside Type (Salt Water) ① ②

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For RigMaster Metallic Fluorescent Lighting Fixtures



### Thermal Performance RigMaster Fixtures

Fixture	Quantity	Lamp		Ambient Temp °C (°F)	“T” Numbers	Hazardous Classification
		Watt	Type			
RM2232	2	32	265MA-RS	40 °C (104 °F)	<b>T-4</b>	Class I, Division 2, Groups A, B, C, D
RM2240	2	40	430MA-RS	140 °C (104 °F)	<b>T-4</b>	Class I, Division 2, Groups A, B, C, D
RM2260	2	60	800MA-HO	40 °C (104 °F)	<b>T-4</b>	Class I, Division 2, Groups A, B, C, D

① Fixtures with emergency ballast are not recommended where the ambient temperature may fall below 0 °C (+32 °F) for extended periods.

② Does not apply to fixtures with fusing.

③ For 50 Hz with Emergency Battery Pack, consult factory for certification.

④ BU for 32 W, T8 and 60 W, T12 only. Voltage must be specified for 40 W, T12.




⑤ CW suffix not needed for 60 W since -28 °C (-20 °F) starting provided as a standard.

# RigMaster™ Metallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

Suitable for Use in Wet Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

**NEC:**  
 Class I, Division 2, Groups A, B, C, D  
 NEMA Type 4X  
 Marine Type Electric Fixture Non-Recessed  
 Outside Type (Salt Water) ① ②

	No. of Lamps ③	Lamp Wattage	Lamp Type	Volts	Bracket Type	Catalog Number
 Swivel End Bracket	2	32	T8	120-277 V, 50/60 Hz	end	RM2232BUCB
	2	40	T12	120 V, 60 Hz	end	RM224012SSCB
	2	40	T12	277 V, 60 Hz	end	RM224027SSCB
	2	60	T12	120-277 V, 50/60 Hz	end	RM2260BUCB
 Swivel Center Bracket	2	32	T8	120-277 V, 50/60 Hz	swivel	RM2232BUSW
	2	40	T12	120 V, 60 Hz	swivel	RM224012SSSW
	2	40	T12	277 V, 60 Hz	swivel	RM224027SSSW
	2	60	T12	120-277 V, 50/60 Hz	swivel	RM2260BUSW
 Straight Center Bracket	2	32	T8	120-277 V, 50/60 Hz	straight	RM2232BUST
	2	40	T12	120 V, 60 Hz	straight	RM224012SSST
	2	40	T12	277 V, 60 Hz	straight	RM224027SSST
	2	60	T12	120-277 V, 50/60 Hz	straight	RM2260BUST

### Replacement Parts

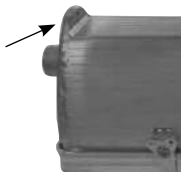
	Description	Catalog Number
<b>Lens</b>	Lens and Frame Assembly	RIGLENS
<b>Mounting Brackets</b>	Straight Bracket	RM3002SEM
	Angle Bracket	RM3002AEM
	Swivel Bracket	RMBMSW
	Back-Straight Bracket	RMBMST
<b>Sockets</b>	60 W Spring Loaded	RM60SRS
	60 W Fixed Replacement	RM60FRS
	32 W Replacement	RM32RS

### Mounting Accessories — Safety Cable

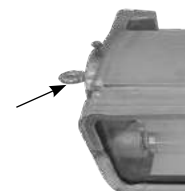
Galvanized Steel Cable	Catalog Number	Stainless Steel Cable	Catalog Number
0.9 m (2.95 ft)	RMSC3GASL	0.9 m (2.95 ft)	RMSC3STSL
1.2 m (3.94 ft)	RMSC4GASL	1.2 m (3.94 ft)	RMSC4STSL

### Connecting Safety Cable

Swivel Center Mount and Straight Center Mount fixture comes standard with cast mounts on fixture end for connecting safety cable.



Swivel End Mount fixture comes standard with eyebolt on fixture end for connecting safety cable.



- ① Fixtures with emergency ballast are not recommended where the ambient temperature may fall below 0 °C (+32 °F) for extended periods.  
 ② Does not apply to fixtures with fusing.  
 ③ Fixtures shipped complete with lamps.

# RigMaster™ Metallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

Suitable for Use in Wet Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

### NEC:

Class I, Division 2, Groups A, B, C, D

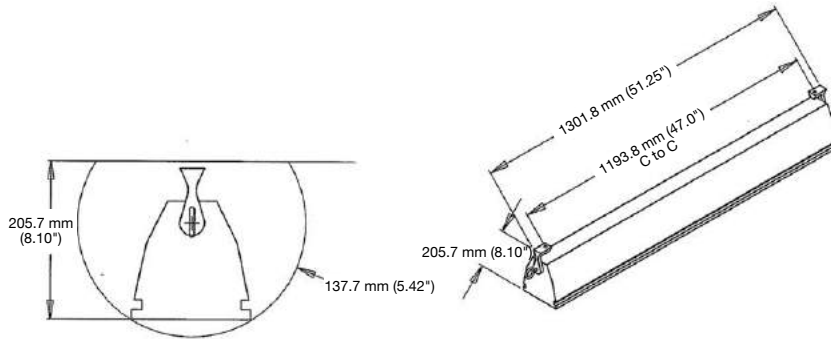
NEMA Type 4X

Marine Type Electric Fixture Non-Recessed

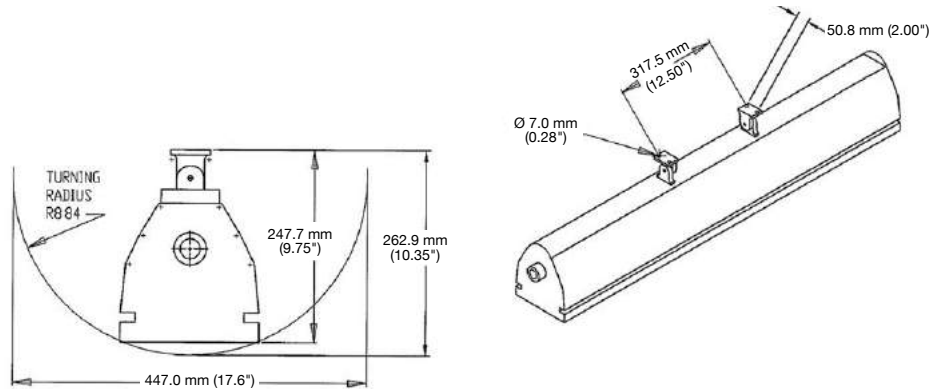
Outside Type (Salt Water) ① ②

### Dimensions in Millimeters (Inches)

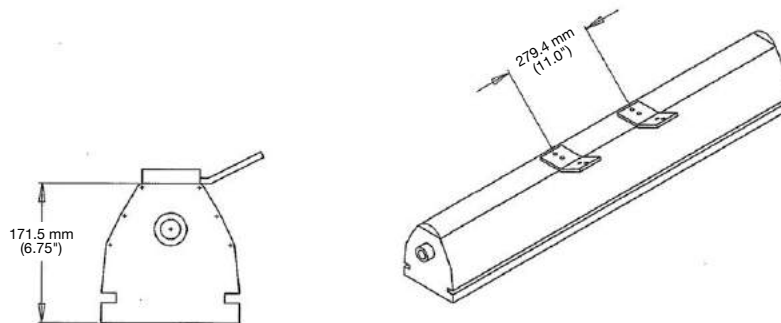
#### End Bracket Mounting



#### Swivel Bracket Mounting



#### Straight Bracket Mounting



Fixture Bracket Type	Weight in kg (lb)
End	15.9 (35)
Swivel	15.9 (35)
Straight	15.9 (35)

① Fixtures with emergency ballast are not recommended where the ambient temperature may fall below 0 °C (+32 °F) for extended periods.

② Does not apply to fixtures with fusing.

# RigMaster™ Metallic Fluorescent Luminaires

## For Hazardous and Adverse Locations

Suitable for Use in Wet Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

### NEC:

Class I, Division 2, Groups A, B, C, D

NEMA Type 4X

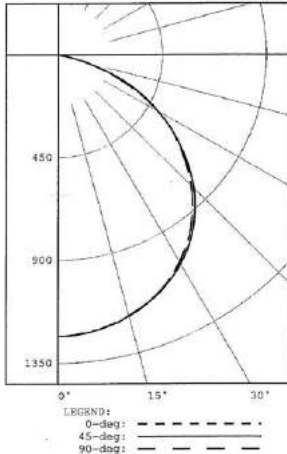
Marine Type Electric Fixture Non-Recessed

Outside Type (Salt Water) ①②

### Photometric Data

#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	Flux
0	1234	1234	1234	1234	1234	
5	1234	1228	1227	1228	1224	117
15	1183	1187	1185	1187	1183	335
25	1106	1110	1109	1110	1106	512
35	984	990	996	990	984	620
45	813	823	830	823	813	634
55	612	619	614	619	612	550
65	364	375	381	375	364	368
75	124	126	112	126	124	133
85	9	7	7	7	9	12
90	1	1	1	1		



#### CATALOG NUMBER: RM2232BU

**Luminaire:** Class I, Division 2 fluorescent fixture with glass lens (4 foot, T-8. 32 Watt) tested at 120 V

**Lamps:** Two Phillips 32 W, 4-foot F32T8/TL741fluorescents

**Ballast:** Advance T-8, 32 Watt, catalog number ICN-2P32-SC 50/60 Hz, Instant Start, 120-277 V

**Ambient Temperature:** 24 °C (75 °F)

**Mounting:** With Bracket

**Based on:** 2,850 Lumens per Lamp

**TOTAL LUMINAIRE EFFICIENCY = 57.6%**

**CIE Type – Direct**

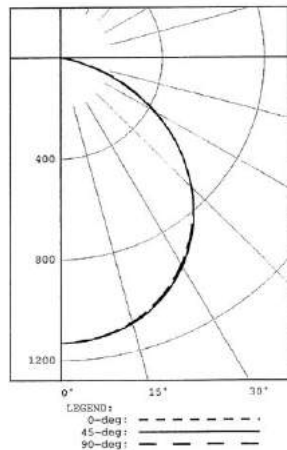
<b>Plane:</b>	0°	90°
<b>Spacing Criteria:</b>	1.3	1.3
<b>Shielding Angles:</b>	1.0	0.0

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT.
0- 30	964	16.9	29.4
0- 40	1584	27.8	48.3
0- 60	2767	48.6	84.3
0- 90	3281	57.6	100.0
90-180	0	0.0	0.0
0-180	3281	57.6	100.0

#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	Flux
0	1132	1132	1132	1132	1132	
5	1124	1128	1126	1128	1124	107
15	1085	1089	1090	1089	1085	308
25	1003	1010	1011	1010	1003	465
35	882	889	888	889	882	555
45	726	730	726	730	726	561
55	535	535	533	535	535	477
65	322	316	311	316	322	314
75	121	112	104	112	121	121
85	9	7	6	7	9	11
90	0	0	0	0	0	



#### CATALOG NUMBER: RM2232BU

**Luminaire:** Class I, Division 2 fluorescent fixture with glass lens (4 foot, T-12. 34 Watt) tested at 120 V

**Lamps:** 2 Philips 34 Watt (4 foot, T-12) F40CW/RS/EW

**Ballast:** Advance T-12, 34 Watt, catalog number REL-2S40-SC 50/60 Hz, Instant Start, 120 V

**Ambient Temperature:** 24 °C (75 °F)

**Mounting:** With Bracket

**Based on:** 2,650 Lumens per Lamp

**TOTAL LUMINAIRE EFFICIENCY = 55.1%**

**CIE Type – Direct**

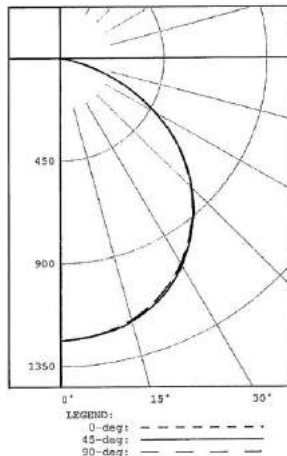
<b>Plane:</b>	0°	90°
<b>Spacing Criteria:</b>	1.2	1.2

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT.
0- 30	880	16.6	30.1
0- 40	1435	27.1	49.2
0- 60	2473	46.7	84.7
0- 90	2919	55.1	100.0
90-180	0	0.0	0.0
0-180	2919	55.1	100.0

#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	Flux
0	1237	1237	1237	1237	1237	
5	1227	1231	1229	1231	1227	117
15	1188	1194	1193	1194	1188	337
25	1100	1108	1111	1108	1100	511
35	968	977	976	977	968	610
45	800	806	805	806	800	619
55	591	593	594	593	591	529
65	351	352	351	352	351	347
75	122	116	106	116	122	127
85	10	8	6	8	10	12
90	0	0	0	0	0	



#### CATALOG NUMBER: RM2260BU

**Luminaire:** Class I, Division 2 fluorescent fixture with glass lens (4 foot, T-12. 60 Watt) tested

**Lamps:** 2 Philips 60 Watt (4 foot, T-12) F48T12CWHO ALTO

**Ballast:** Advance T-12, 60 Watt, catalog number VEL-2S110

**Ambient Temperature:** 24 °C (75 °F)

**Mounting:** With Bracket

**Based on:** 4,050 Lumens per Lamp

**TOTAL LUMINAIRE EFFICIENCY = 39.6%**

**CIE Type – Direct**

<b>Plane:</b>	0°	90°
<b>Spacing Criteria:</b>	1.2	1.2

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT.
0- 30	965	11.9	30.1
0- 40	1574	19.4	49.1
0- 60	2722	33.6	84.8
0- 90	3208	39.6	100.0
90-180	0	0.0	0.0
0-180	3208	39.6	100.0

① Fixtures with emergency ballast are not recommended where the ambient temperature may fall below 0 °C (+32 °F) for extended periods.

② Does not apply to fixtures with fusing.

# RigMaster™ 304 Stainless Steel Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Adverse Locations

Suitable for use in Wet or Marine (Salt Water) Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

### CEC:

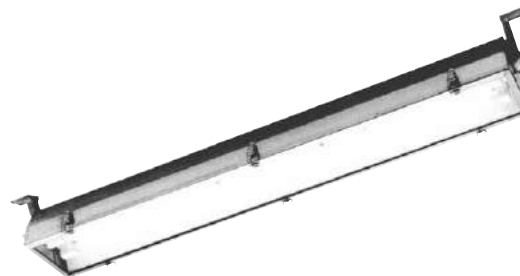
Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA Enclosure 3

### Applications

- Appleton Rigmaster is designed for the requirements of the oil drilling industry.
- For use on seashore, offshore or land based drilling rigs.
- Suitable for industrial applications requiring a highly corrosion-resistant fluorescent fixture.
- Approved for outdoor use.
- Ideal for shipboard use. (Salt water environment).
- For use in high vibration installations.
- Can be installed to illuminate work areas, stairways and ladders, pumps and instrument panels, chemical plants and refineries or for shipboard deck lighting.

### Features

- Corrosion-resistant durable seam welded 304 stainless steel construction.
- Vibration resistant – spring loaded sockets hold lamps securely with maximum shock and vibration protection.
- Positive seal lens assembly provides a secure gasketed seal around the lens. Lexan, impact resistant lens is standard.
- CG series watertight cord connectors grip the cable securely at the point of entrance to prevent insulation wear and strain on connections made within the enclosure. CG connectors seal out oil, water and other harmful atmospheres containing moisture to keep the enclosure clean and dry.
- Stainless steel snap action clips permit relamping without tools. Three clips serve as hinges allowing unobstructed access to the fixture interior.
- The highly polished finished reflector has excellent light distribution and high efficiency.
- Access to the ballast and wiring chamber is quick and easy, requiring the removal of two screws.
- Rigmasters are provided with feed-thru wiring, eliminating the need for a junction box.



### Standard Materials

- Fixture body, snap clips, hardware, lens frame: 304 stainless steel
- Mounting brackets, CG connectors, reflector: copperfree (4/10 of 1% max.) aluminum

### Standard Finishes

- All components have a natural finish

### Options

- Emergency battery, operates lamps at 60% for 90 minutes during power outages, suffix **-E**.
- Fabricated from 316 stainless steel, suffix **-316**.
- 60 Watt high output ballast available -29 °C (-20 °F) starting temperature).
- Lens: tempered glass, suffix **-GN**. ②

### CEC Certifications and Compliances

- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

Order using catalog numbering guide below or select catalog number from tables on following pages.

#### Catalog Numbering Guide For RigMaster Stainless Steel Fluorescent Lighting Fixtures — Bracket Mounted

ARM	2	4	A	BU	GN
Series: ARM - RigMaster Stainless Steel	Number of Lamps: 2 - Two Lamps	Lamp Type: ① 32 - 32 W, T8 (Electronic) 40 - 40 W, T12 (Rapid Start) 60 - 60 W, T12 (High Output)	Cable Entry Jacket Range: A - .312" to .437" B - .375" to .500" C - .500" to .625"	Voltage: BU - 120-277 V 50/60 Hz A5 - 347 V 60 Hz	Factory Installed Options: EL - Emergency Back-up Battery 316 - 316 Stainless Steel GN - Tempered Glass Lens ②

① Lamps not furnished with fixture.

② Fixture with tempered glass lens suitable only for ordinary locations.

# RigMaster™ 304 Stainless Steel Fluorescent Luminaires

## Enclosed and Gasketed. For Hazardous and Adverse Locations

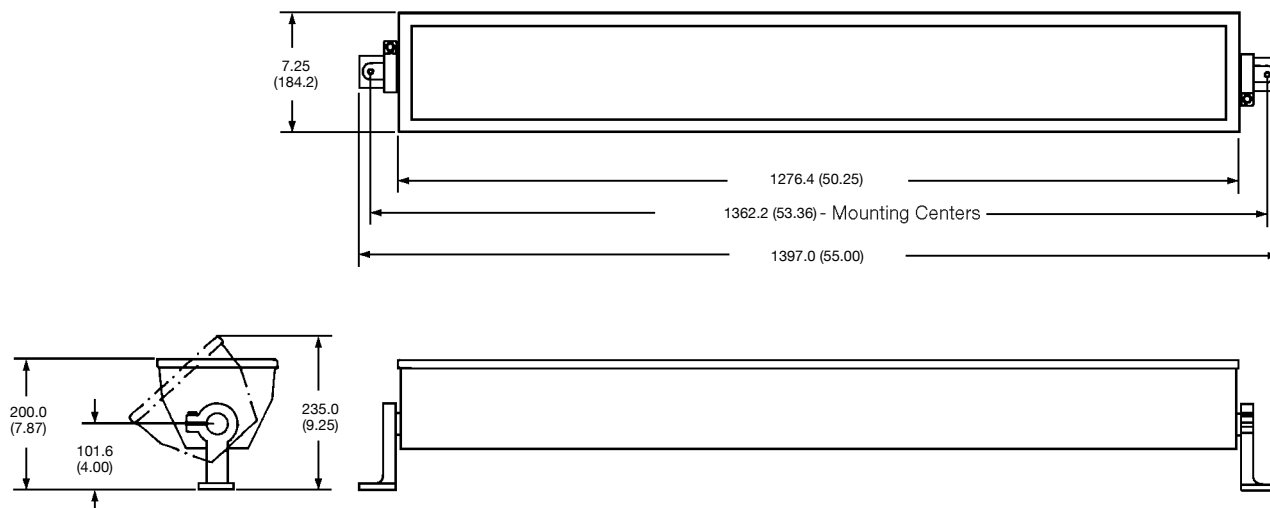
Suitable for use in Wet or Marine (Salt Water) Locations. 32 W, 40 W and 60 W Two-Lamp Fixtures.

### CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA Enclosure 3

No. of Lamps ①	Lamp Wattage	Lamp Type	Volts	Operating Amps	Input Watts	Cable Range	Catalog Number
<b>Rapid Start — 48" — T8 — Minimum Starting Temperature -18 °C (0 °F)</b>							
2	32	T8	120-277 V	0.49 - 0.19	59 - 55	.312-.437	<b>ARM232ABU</b>
2	32	T8	347 V	0.21	62	.312-.437	<b>ARM232AA5</b>
2	32	T8	120-277 V	0.49 - 0.19	59 - 55	.375-.500	<b>ARM232BBU</b>
2	32	T8	347 V	0.21	62	.375-.500	<b>ARM232BA5</b>
2	32	T8	120-277 V	0.49 - 0.19	59 - 55	.500-.625	<b>ARM232CBU</b>
2	32	T8	347 V	0.21	62	.500-.625	<b>ARM232CA5</b>
<b>Rapid Start — 48" — F48T12/CW — Minimum Starting Temperature -30 °C (-22 °F)</b>							
2	40	T12	120-277 V	0.7 - 0.26	84 - 70	.312-.437	<b>ARM240ABU</b>
2	40	T12	347 V	0.28	96	.312-.437	<b>ARM240AA5</b>
2	40	T12	120-277 V	0.7 - 0.26	84 - 70	.375-.500	<b>ARM240BBU</b>
2	40	T12	347 V	0.28	96	.375-.500	<b>ARM240BA5</b>
2	40	T12	120-277 V	0.7 - 0.26	84 - 70	.500-.625	<b>ARM240CBU</b>
2	40	T12	347 V	0.28	96	.500-.625	<b>ARM240CA5</b>
<b>Rapid Start — 48" — 800 mA — F48T12/CW/HO — Minimum Starting Temperature -30 °C (-22 °F)</b>							
2	60	T12	120-277 V	1.05 - 0.40	122 - 108	.312-.437	<b>ARM260ABU</b>
2	60	T12	347 V	0.45	144	.312-.437	<b>ARM260AA5</b>
2	60	T12	120-277 V	1.05 - 0.40	122 - 108	.375-.500	<b>ARM260BBU</b>
2	60	T12	347 V	0.45	144	.375-.500	<b>ARM260BA5</b>
2	60	T12	120-277 V	1.05 - 0.40	122 - 108	.500-.625	<b>ARM260CBU</b>
2	60	T12	347 V	0.45	144	.500-.625	<b>ARM260CA5</b>

### Dimensions in Inches (Millimeters)



① Lamps not furnished with fixture.

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

## Applications

- Ideal for use in chemical and petrochemical plants, such as manufacturers of plastics, paints and thinners; in refineries; and in other process areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- Suitable for use in wet locations.

## Features

- Auxiliary (emergency) lighting should be used to provide a lighted means of egress for personnel in walkways, catwalks, stairs, doorways, tunnels, ramps and aisles.
- Auxiliary (emergency) lighting should be used to provide “instant on” illumination during power failures.
- Arrangement of heat-producing components results in more efficient heat dissipation for cooler fixture operation.
- Safe, easy servicing without disconnecting any wiring. Patented “wireless” design means the threading of the fixture unit onto mounting hood makes electrical connection. This allows for the fixture unit to easily thread off mounting hood for convenient servicing or for immediate replacement with a “stand-by” unit. Only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws; (b) make wire connections; and (c) reposition connection block.
- Acme double-lead threads speed installation and fixture removal from mounting hood – only half as many turns are required as for single-lead threads. The threads do not stick or gall, eliminating the troublesome problems often encountered with single-lead threads during fixture unit removal.
- All threaded joints are flame-tight.
- Factory sealed. External seals not required.
- Fluorescent light source reduces energy costs.
- Fluorescent lamp life of 10,000 hours reduces relamping costs compared to incandescent.
- Strategic location of lamp sockets in combination with the interior prism design of the glass globe provides optimum light distribution and control.
- Superior corrosion resistance with epoxy powder coat finish.
- Choice of mountings: pendant, ceiling, bracket and stanchion.
- Fiberglass-reinforced polyester reflectors in standard dome, deep dome or 30° angle are ideal in installations where luminaire is subject to exceptionally severe corrosive atmospheres. The high bay aluminum reflector is designed for installations where mounting height work planes range from 6 to 9 m (20 to 30 ft).
- Optional guards protect globes from damage. Guards secure to fixture with three screws.
- Fixture (52, 64 or 84 W) is available for semi-continuous operation (one AC ballast permits two-lamp illumination when power is on and one battery pack permits one-lamp illumination when AC power is interrupted).
- Minimum operating temperature: 0 °C (32 °F).
- Maximum operating temperature: 40 °C (104 °F).

## Battery Pack Information

- Long life, high temperature, nickel-cadmium (Ni-Cad) battery.
- Dual voltage (120/277 V, 60 Hz) solid state charger on open circuit board.
- Five-year life expectancy.
- Wiring instructions for “Push-To-Test” button are supplied with fixture.



## Illustrated Features



- Remote “Push-To-Test” switch is available to verify emergency operation (order separately, see F3-82).
- Red indicator light is provided with each battery pack to indicate when the battery is charging.

## Standard Materials

- Ballast bodies, guards and pendant mounting hoods: copperfree (4/10 of 1% max.) aluminum
- Ceiling, bracket and stanchion mounting hoods: sand-cast copperfree (4/10 of 1% max.) aluminum
- Reflectors: aluminum or fiberglass reinforced polyester

## Standard Finishes

- Ballast bodies, guards and mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform corrosion protection

## Options

- Fuse kit CF2 for field installation.

## NEC Certifications and Compliances

- UL Standard: UL 924, UL 844, UL 1598
- UL Listed: E165014

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

### Classified Area Suitability of Code•Master 2 Emergency Series (Suitability includes use of reflector)

Lamp Type	Lamps Watts	Ambient Temp °C (°F)	Class I, Division 1 and 2 With Globe or with Globe and Reflector UL/NEC Temp. Ident. No.		Class II, Division 1 and 2 With Globe or with Globe and Reflector UL/NEC Temp. Ident. No.	
			Nameplate Marking	Groups	Nameplate Marking	Groups
PLT	52	40 (104)	T6	C, D	T4	E, F, G
	64	40 (104)	T6	C, D	T4	E, F, G
	84	40 (104)	T6	C, D	T4	E, F, G

“T” Numbers Represent the Maximum Surface Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

### Fixture and Accessory Weights in kg (lb)

Fixture Size	Fixture Weight	Reflector Weight	Guard Weight
52 W	20.4 (44.97)	1.4 (3.09)	0.9 (1.98)
64 W	20.4 (44.97)	1.4 (3.09)	0.9 (1.98)
84 W	20.4 (44.97)	1.4 (3.09)	0.9 (1.98)

### Mounting Hood Weights kg (lb)

Pendant	Ceiling	Bracket	Stanchion
0.9 (1.98)	1.8 (3.97)	2.7 (5.95)	0.9 (1.98)

### Electrical Specification for AC Operation

Fixture Wattage	Line Voltage (V)	Frequency (Hz)	Type of Ballast	Line Amps (A)	Maximum Wattage (W/W)	Catalog Number ①
52	120	60	PLT Electronic	0.49	52	CMBFS5212
52	277	60	PLT Electronic	0.20	52	CMBFS5227
64	120	60	PLT Electronic	0.57	64	CMBFS6412
64	277	60	PLT Electronic	0.24	64	CMBFS6427
84	120	60	PLT Electronic	0.73	84	CMBFS8412
84	277	60	PLT Electronic	0.31	84	CMBFS8427

① For optional fusing, order kit -CF2.

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof






52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

	Lamp Watts	Lamp Type	Hub Size (Inches)	Catalog Number ②③	
Pendant					
	52	PLT	3/4	CFPS5275	
			1	CFPS5210	
	64	PLT	3/4	CFPS6475	
			1	CFPS6410	
	84	PLT	3/4	CFPS8475	
			1	CFPS8410	
Ceiling					
	52	PLT	3/4	CFCS5275	
			1	CFCS5210	
	64	PLT	3/4	CFCS6475	
			1	CFCS6410	
	84	PLT	3/4	CFCS8475	
			1	CFCS8410	
Bracket					
	52	PLT	3/4	CFBS5275	
			1	CFBS5210	
	64	PLT	3/4	CFBS6475	
			1	CFBS6410	
	84	PLT	3/4	CFBS8475	
			1	CFBS8410	
25° Stanchion					
	52	PLT	1-1/4 or 1-1/2 ①	CFSS52150	
	64	PLT	1-1/4 or 1-1/2 ①	CFSS64150	
	84	PLT	1-1/4 or 1-1/2 ①	CFSS84150	
Fixture Units					
Ballast body with globe. Indicate voltage desired by adding voltage suffix to Fixture Unit catalog number listed below.					
	Lamp Watts	Lamp Type	Unit Catalog Number	Add Voltage Suffixes	
				120 V	277 V
	52	PLT	CMBFS52	12	27
	64	PLT	CMBFS64	12	27
	84	PLT	CMBFS84	12	27

① 1-1/2" tapped hub furnished with 1-1/2" to 1-1/4" reducer.

② To order fixture with guard, add suffix -G before adding voltage suffix.

③ Add voltage suffix -12L for 120 V with lamp; or -27L for 277 V with lamp.

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.






### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

### Mounting Hoods

		Hub Size Inches	Catalog Number
Pendant			
	One Hub	3/4	CAP-75
		1	CAP-100
Ceiling			
	Four hubs, Three Close-Up Plugs	3/4	CAC-75
		1	CAC-100
Bracket			
	Four hubs, Three Close-Up Plugs	3/4	CALB-75
		1	CALB-100
25° Stanchion			
	One Hub	1-1/4 or 1-1/2 ①	CAS-150
Mounting Adapter with Connection Block			
	Permits use of existing A-51 mounting hoods (AAC Ceiling or AALB Bracket) with the new Code•Master 2 Fixture Unit. After removing existing Fixture Unit and adapter, screw in the new CMAD-1 Adapter. Then thread the new Fixture Unit into the CMAD-1.		CMAD-1

① 1-1/2" tapped hub furnished with 1-1/2" to 1-1/4" reducer.

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

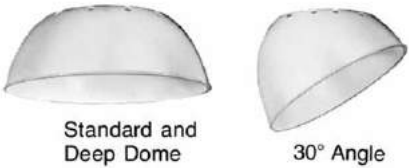





52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

	Description	Catalog Number
<b>Polyester Reflectors</b>		
 <p>Standard and Deep Dome</p> <p>30° Angle</p>	Standard Dome	CMR-4ST
	Deep Dome	CMR-4DD
	30° Angle	CMR-4AN
<b>Aluminum High Bay Reflectors</b>		
		CMR-4HB
<b>Prismatic Glass Globes</b>		
	52, 64, 84 W PLT	CGL-400
<b>Aluminum Guards</b>		
	52, 64, 84 W PLT	CGU4
<b>Connection Block — For Code•Master 2 PLT Fixtures</b>		
	52 W - 84 W	PLT32RS
	52 W - 84 W	VPT-7

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.

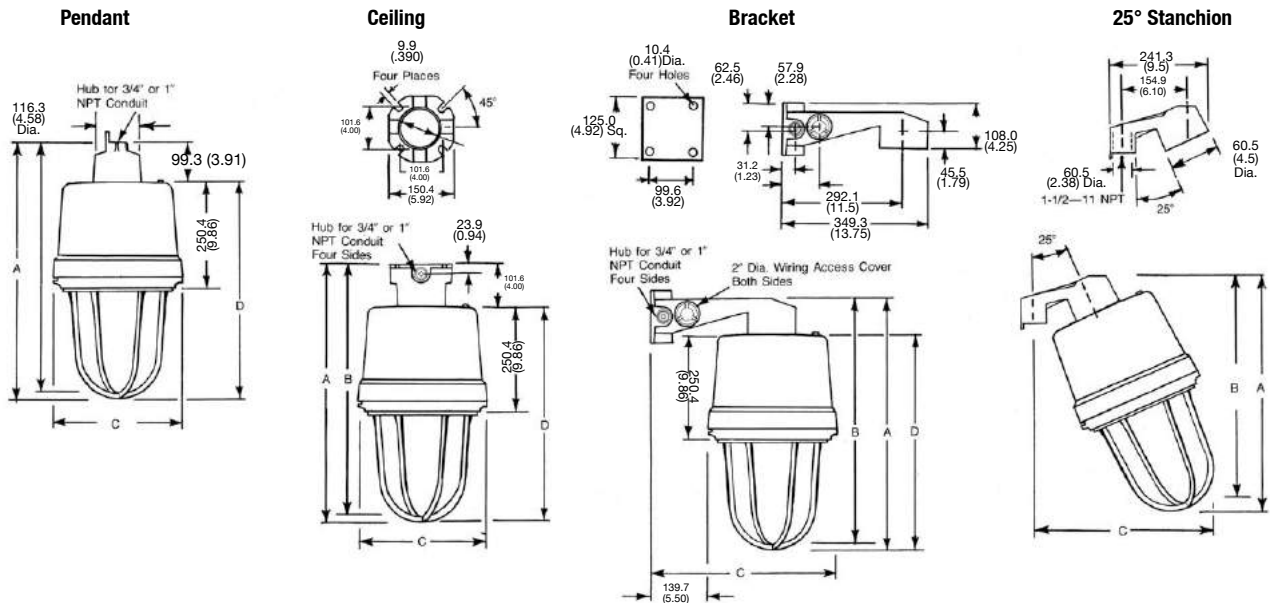
### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

### Dimensions in Millimeters (Inches)



	Pendant				Ceiling				Bracket				25° Stanchion		
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C
52-84 W	622.3 (24.50)	596.9 (23.50)	304.8 (12.00)	517.1 (20.36)	618.7 (24.36)	593.3 (23.36)	304.8 (12.00)	517.1 (20.36)	625.1 (24.61)	599.7 (23.61)	444.5 (17.50)	517.1 (20.36)	563.9 (22.20)	538.5 (21.20)	444.5 (17.50)

### Reflector Dimensions in Millimeters (Inches)

Type Reflector	A	B	C	Standard and Deep Dome	30° Angle	High Bay
Standard Dome	284.5 (11.20)	149.9 (5.90)	475.0 (18.70)	177.8 (7.00)	268.2 (10.56)	278.4 (10.96)
Deep Dome	268.2 (10.56)	177.8/ (7.00)	515.6 (20.30)	268.2 (10.56)	347.7 (13.70)	337.8 (13.30)

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Photometric data is based on a fixture with two 32 W Compact Fluorescent PL-T lamps (2,400 lumens each). For candlepower values of fixtures with two 26 W PL-T lamps (1,800 lumens each), multiply by 0.75. For Candlepower values of fixtures with two 42 W PL-T Lamps, (3,200 lumens each) multiply by 1.34.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

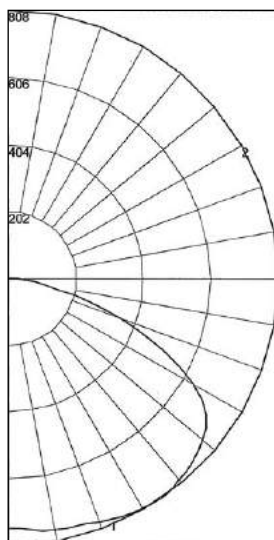
### Photometric Data

Total Luminaire Efficiency = 79.8%

CIE Type – Semi-Direct

Plane	Spacing Criteria
0-180	2.88
90-270	2.88
Diagonal	2.82

Zone	Lumens
0-10	17.70
10-20	61.05
20-30	132.44
30-40	236.78
40-50	336.66
50-60	421.68
60-70	485.34
70-80	517.29
80-90	513.72
90-100	468.70
100-110	352.77
110-120	200.85
120-130	73.54
130-140	11.28
140-150	1.12
150-160	0.31
160-170	0.06
170-180	0.00



Maximum Candela = 493  
Located at Horizontal Angle = 0, Vertical Angle = 70  
#1 – Vertical Plane through Horizontal Angles (0-180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (70)  
(Through Max. Cd.)

REPORT NUMBER: CMBF64G

64 W (two 32 W lamps) Fluorescent Fixture with Globe only \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	90	90	90	90	90	85	85	85	85	76	76	76	68	68	68	60	60	60	57			
1	76	70	65	60	60	71	66	61	57	58	54	51	51	48	45	45	42	40	36			
2	67	58	51	45	45	63	55	48	42	48	43	38	42	37	34	36	32	29	26			
3	60	49	41	35	35	56	46	39	33	40	34	29	35	30	26	30	26	23	20			
4	54	43	34	28	28	50	40	32	26	35	28	23	30	25	21	26	21	18	15			
5	49	37	29	23	23	46	35	27	22	31	24	19	26	21	17	23	18	15	12			
6	45	33	25	19	19	42	31	23	18	27	21	16	23	18	14	20	16	12	10			
7	41	29	22	16	16	38	28	20	15	24	18	14	21	16	12	18	14	10	8			
8	38	26	19	14	14	36	25	18	13	22	16	12	19	14	10	16	12	9	7			
9	35	24	17	12	12	33	23	16	11	20	14	10	17	12	9	15	11	8	9			
10	33	22	15	11	11	31	21	14	10	18	13	9	16	11	8	14	10	7	5			

### Zonal Lumen Summary

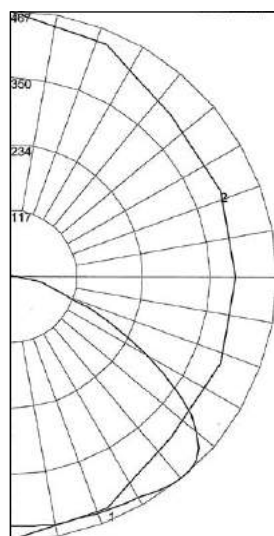
Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	211.19	4.4	5.5	90-120	1022.32	21.3	26.7
0-40	447.97	9.3	11.7	90-130	1095.85	22.8	28.6
0-60	1206.31	25.1	31.5	90-150	1108.26	23.1	28.6
0-90	2722.64	56.7	71.1	90-180	1108.63	23.1	28.9
				0-180	3831.28	79.8	100.0

Total Luminaire Efficiency = 66.5%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.62
90-270	1.62
Diagonal	1.74

Zone	Lumens
0-10	73.25
10-20	220.57
20-30	368.60
30-40	505.61
40-50	603.19
50-60	638.42
60-70	497.24
70-80	226.17
80-90	57.98
90-100	1.64
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Maximum Candela = 808  
Located at Horizontal Angle = 0, Vertical Angle = 35  
#1 – Vertical Plane through Horizontal Angles (0-180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (35)  
(Through Max. Cd.)

REPORT NUMBER: CMBF64ST

64 W (two 32 W lamps) Fluorescent Fixture with Globe and Standard Dome Reflector \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	79	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	66			
1	72	69	66	63	63	70	67	64	62	64	62	60	62	60	58	59	58	56	55			
2	65	59	54	50	50	63	58	53	49	55	52	48	53	50	47	51	48	46	45			
3	59	51	45	41	41	57	50	45	40	48	43	40	46	42	39	44	41	38	37			
4	53	45	38	34	34	52	44	38	33	42	37	33	40	36	32	39	35	32	30			
5	49	39	33	28	28	47	39	33	28	37	32	28	36	31	28	35	31	27	26			
6	45	35	29	24	24	43	34	29	24	33	28	24	32	27	24	31	27	23	22			
7	41	32	25	21	21	40	31	25	21	30	25	21	29	24	21	28	24	20	19			
8	38	29	23	19	19	37	28	22	18	27	22	18	26	22	18	26	21	18	17			
9	35	26	20	16	16	34	26	20	16	25	20	16	24	19	16	23	19	16	15			
10	33	24	18	15	15	32	24	18	15	23	18	15	22	18	15	22	17	14	13			

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	662.42	13.8	20.7	90-120	1.64	0.0	0.1
0-40	1168.03	24.3	36.6	90-130	1.64	0.0	0.1
0-60	2409.64	50.2	75.5	90-150	1.64	0.0	0.1
0-90	3191.04	66.5	99.9	90-180	1.64	0.0	0.1
				0-180	3192.68	66.5	100.0

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Photometric data is based on a fixture with two 32 W Compact Fluorescent PL-T lamps (2,400 lumens each). For candlepower values of fixtures with two 26 W PL-T lamps (1,800 lumens each), multiply by 0.75. For Candlepower values of fixtures with two 42 W PL-T Lamps, (3,200 lumens each) multiply by 1.34.

**NEC:**  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

**NEC:**  
Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

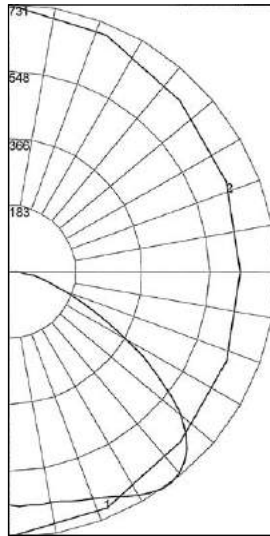
### Photometric Data

Total Luminaire Efficiency = 57.4%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.52
90-270	1.70
Diagonal	1.62

Zone	Lumens
0-10	62.13
10-20	187.93
20-30	317.49
30-40	428.14
40-50	471.22
50-60	454.23
60-70	384.77
70-80	276.31
80-90	157.68
90-100	13.45
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Maximum Candela = 731  
Located at Horizontal Angle = 90, Vertical Angle = 37.5  
#1 – Vertical Plane through Horizontal Angles (90–270)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (37.5)  
(Through Max. Cd.)

REPORT NUMBER: **CMBF64AN**

64 W (two 32 W lamps) Fluorescent Fixture with Globe and  
30° Angle Dome Reflector \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	68	68	68	68	68	67	67	67	67	64	64	64	61	61	61	58	58	58	57	57	57	57
1	61	58	55	52	59	56	54	51	54	51	49	51	49	48	49	48	48	46	45	45	45	45
2	55	49	45	41	53	48	44	40	46	43	39	44	41	39	42	40	38	36	36	36	36	36
3	50	43	37	33	48	42	37	33	40	36	32	38	35	32	37	34	31	30	30	30	30	30
4	45	37	32	28	44	37	31	27	35	31	27	34	30	27	32	29	26	25	25	25	25	25
5	41	33	28	23	40	32	27	23	31	27	23	30	26	23	29	25	22	21	21	21	21	21
6	38	30	24	20	37	29	24	20	28	23	20	27	23	20	26	22	19	18	18	18	18	18
7	35	27	21	18	34	26	21	18	25	21	17	24	20	17	24	20	17	16	16	16	16	16
8	32	24	19	16	32	24	19	15	23	19	15	22	18	15	22	18	15	14	14	14	14	14
9	30	22	17	14	29	22	17	14	21	17	14	20	16	14	20	16	13	12	12	12	12	12
10	28	20	16	12	28	20	15	12	19	15	12	19	15	12	18	15	12	11	11	11	11	11

### Zonal Lumen Summary

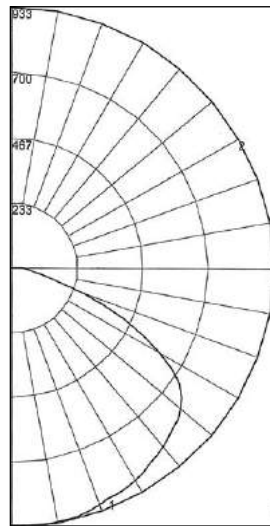
Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	567.55	11.8	20.6	90-120	13.45	0.3	0.5
0-40	995.69	20.7	36.2	90-130	13.45	0.3	0.5
0-60	1921.14	40.0	69.8	90-150	13.45	0.3	0.5
0-90	2739.90	57.1	99.5	90-180	13.45	0.3	0.5
				0-180	2753.35	57.4	100.0

Total Luminaire Efficiency = 67.2%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.44
90-270	1.44
Diagonal	1.60

Zone	Lumens
0-10	88.95
10-20	260.61
20-30	413.34
30-40	539.82
40-50	630.36
50-60	641.74
60-70	436.60
70-80	164.84
80-90	47.37
90-100	1.92
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Maximum Candela = 933  
Located at Horizontal Angle = 0, Vertical Angle = 7.5  
#1 – Vertical Plane through Horizontal Angles (0–180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (7.5)  
(Through Max. Cd.)

REPORT NUMBER: **CMBF64DD**

64 W (two 32 W lamps) Fluorescent Fixture with Globe and  
Deep Dome Reflector \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	80	80	80	80	78	78	78	78	75	75	75	71	71	71	69	69	69	67	67	67	67	67
1	73	70	67	65	71	68	66	63	66	63	61	63	61	60	60	59	58	56	56	56	56	56
2	66	61	56	52	65	59	55	52	57	53	50	55	52	49	53	50	48	47	47	47	47	47
3	60	53	47	43	59	52	47	43	50	45	42	48	44	41	46	43	40	39	39	39	39	39
4	55	47	41	36	53	46	40	36	44	39	35	42	38	35	41	37	34	33	33	33	33	33
5	50	41	35	31	49	41	35	30	39	34	30	38	33	30	37	33	29	28	28	28	28	28
6	46	37	31	26	45	36	30	26	35	30	26	34	29	26	33	29	25	24	24	24	24	24
7	43	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	22	21	21	21	21	21
8	40	30	24	20	38	30	24	20	29	24	20	28	23	20	27	23	20	19	19	19	19	19
9	37	28	22	18	36	27	22	18	26	21	18	26	21	18	25	21	18	16	16	16	16	16
10	34	25	20	16	34	25	20	16	24	19	16	24	19	16	23	19	16	15	15	15	15	15

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	762.91	15.9	23.7	90-120	1.92	0.0	0.1
0-40	1302.73	27.1	40.4	90-130	1.92	0.0	0.1
0-60	2574.82	53.6	79.8	90-150	1.92	0.0	0.1
0-90	3223.63	67.2	99.9	90-180	1.92	0.0	0.1
				0-180	3225.55	57.4	100.0

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Photometric data is based on a fixture with two 32 W Compact Fluorescent PL-T lamps (2,400 lumens each). For candlepower values of fixtures with two 26 W PL-T lamps (1,800 lumens each), multiply by 0.75. For Candlepower values of fixtures with two 42 W PL-T Lamps, (3,200 lumens each) multiply by 1.34.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

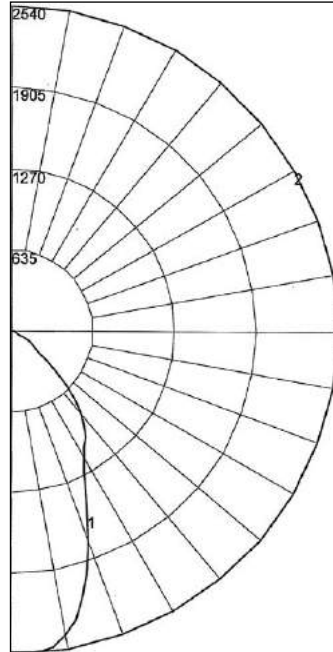
### Photometric Data

Total Luminaire Efficiency = 58.9%

#### CIE Type – Direct

Plane	Spacing Criteria
0-180	0.82
90-270	0.82
Diagonal	0.92

Zone	Lumens
0-10	239.15
10-20	599.67
20-30	645.20
30-40	625.54
40-50	452.95
50-60	185.71
60-70	58.40
70-80	15.26
80-90	4.25
90-100	0.69
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Maximum Candela = 2540  
Located at Horizontal Angle = 0, Vertical Angle = 5  
#1 – Vertical Plane through Horizontal Angles (0–180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (5)  
(Through Max. Cd.)

REPORT NUMBER: **CMBF64HB**

64 W (two 32 W lamps) Fluorescent Fixture with Globe and High Bay Reflector \*

#### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	70	70	70	70	70	68	68	68	68	65	65	65	63	63	63	60	60	60	60	60	60	59
1	66	64	63	61	61	65	63	62	60	61	59	58	58	57	57	56	56	55	54	54	54	54
2	62	59	56	54	54	61	58	55	53	56	54	52	54	52	51	52	51	50	49	49	49	49
3	58	54	51	48	48	57	53	50	47	51	49	47	50	48	46	49	47	45	44	44	44	44
4	55	50	46	43	43	54	49	45	43	48	44	42	46	44	42	45	43	41	40	40	40	40
5	51	46	42	39	39	50	45	41	39	44	41	38	43	40	38	42	39	37	36	36	36	36
6	48	42	38	35	35	47	42	38	35	41	37	35	40	37	35	39	36	34	33	33	33	33
7	46	39	35	32	32	45	39	35	32	38	35	32	37	34	32	37	34	32	31	31	31	31
8	43	37	33	30	30	42	36	32	30	36	32	30	35	32	29	34	31	29	28	28	28	28
9	41	34	30	28	28	40	34	30	28	33	30	27	33	30	27	32	29	27	26	26	26	26
10	38	32	28	26	26	38	32	28	26	31	28	26	31	28	25	30	27	25	25	25	25	25

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	1484.03	30.9	52.5	90-120	0.69	0.0	0.0
0-40	2109.57	43.9	74.6	90-130	0.69	0.0	0.0
0-60	2748.23	57.3	97.2	90-150	0.69	0.0	0.0
0-90	2826.12	58.9	100.0	90-180	0.69	0.0	0.0
				0-180	2628.80	58.9	100.0

Appleton®

FLUORESCENT/AREA: NEC/CEC EXPLOSIONPROOF

# Code•Master™ PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

Integrally Ballasted. 26 W, 32 W, 42 W, 52 W, 64 W, 84 W Compact Fluorescent. For use with Threaded Metal Conduit.

### NEC:

Class I, Division 1 and 2, Groups B♦, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4X

Suitable for use in wet locations

### CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

CSA 4X

## Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured, and in other areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- For use in areas where an instant-on white light is desired.
- Suitable for use in wet locations.
- Standard fixtures designed for 26 W, 32 W, 42 W, 52 W (two 26 W), 64 W (two 32 W), and 84 W (two 42 W) PLT lamps.
- Cold weather starting to a minimum temperature of -18 °C (0 °F) for the Code•Master Jr. PLT and -30 °C (-22 °F) for the Code•Master 2 PLT.

## Features

- Fixtures operate safely in high ambient temperatures.
- Arrangement of heat-producing components results in efficient heat dissipation for cooler fixture operation.
- Patented “wireless” design. Threading of fixture unit onto mounting hood makes electrical connection. The only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws; (b) make wire connections; and (c) reposition connection block.
- Safe, easy servicing without disconnecting any wiring.
- “Wireless” fixture unit threads off mounting hood for convenient servicing or for immediate replacement with a “stand-by” unit.
- Acme double-lead threads speed installation and fixture removal from mounting hood – only half as many turns are required as for single-lead threads. The threads do not stick, or gall, eliminating problems often encountered with single-lead threads during fixture unit removal.
- All threaded joints are flame-tight.
- Factory sealed. External seals not required for Groups C and D.
- Fixtures for use in Group B locations are furnished complete with UL required sealing fitting for Code•Master Jr. PLT only.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Fluorescent light source reduces energy cost.
- Strategic location of lamp socket, in combination with interior prism design of the glass globe, provides optimum light distribution and control.
- Choice of mountings – pendant, ceiling, bracket and stanchion.
- Optional guards protect globes from damage. Secured to fixture with three stainless steel screws.
- Fiberglass reinforced polyester reflectors, in standard dome or 30° angle styles, are ideal in installations where luminaire is subject to exceptionally severe corrosive atmospheres. The high bay aluminum reflector is intended for installations where mounting height work planes range from 6 to 9 m (20 to 30 ft).
- Fluorescent lamp life of 10,000 hours reduces relamping cost compared to incandescent, and provides superior T numbers.

## Standard Materials

- Ballast bodies and guards: copperfree (4/10 of 1% max.) aluminum
- Pendant mounting hoods: diecast copperfree (4/10 of 1% max.) aluminum
- Ceiling, bracket and stanchion mounting hoods: sand cast copperfree (4/10 of 1% max.) aluminum
- Reflectors: fiberglass reinforced polyester (white) or aluminum



26–42W Code•Master Jr. PLT



52–84W Code•Master 2 PLT

## Illustrated Features



As Fixture unit is threaded into mounting hood an automatic electrical connection is made.

## Standard Finishes

- Ballast bodies, guards and mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform corrosion protection

## NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

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Integrally Ballasted. 26 W, 32 W, 42 W, 52 W, 64 W, 84 W Compact Fluorescent. For use with Threaded Metal Conduit.

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Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4X

Suitable for use in wet locations

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Class II, Division 1 and 2, Groups E, F, G

Class III

CSA 4X

### Catalog Numbering Guide

CJ	F	P	26	75	G	BU	L
Series: CJ - Code•Master Jr. ♦ C - Code•Master 2 ①	Lamp Type: F - Fluorescent	Mousing: P - Pendant C - Ceiling B - Bracket S - Stanchion PB - Group B Pendant ♦ SB - Group B Stanchion ♦	Wattage: 26 - 26 Watts 32 - 32 Watts 42 - 42 Watts 52 - 52 Watts ② 64 - 64 Watts ② 84 - 84 Watts ②	Hub Size: 75 - 3/4" 10 - 1" 150 - 1-1/2" or 1-1/4"	Guard: G - Guard provided Blank - Guard not provided	Voltage: BU - 120-277 V 50/60 Hz A5 - 347 V 60 Hz ③	Options: L - Lamps Provided F - Fused Z - Zone 1 Exd IIB + H <sub>2</sub> ③

### Classified Area Suitability of Code•Master™ Series PLT Fixtures — Suitability includes use of reflector

Lamp Type	Lamp Watts	Supply Wire °C (°F)	Ambient Temp °C (°F)	Class I, Division 1 and 2 with Globe or with Globe and Reflector UL/NEC Temp. Ident. No.		Class II, Division 1 and 2 with Globe or with Globe and Reflector UL/NEC Temp. Ident. No.	
				Nameplate Marking	Groups	Nameplate Marking	Groups
PLT (4-pin)	26	75 (167)	40 (104)	T6	B♦,C,D	T4A	E, F, G
PLT (4-pin)	32	75 (167)	40 (104)	T6	B♦,C,D	T4A	E, F, G
PLT (4-pin)	42	75 (167)	40 (104)	T6	B♦,C,D	T4A	E, F, G
PLT (4-pin)	52 (2 x 26)	75 (167)	40 (104)	T6	C, D	T4	E, F, G
		75 (167)	55 (131)	T5	C, D	—	—
		75 (167)	65 (149)	T5	C, D	—	—
PLT (4-pin)	64 (2 x 32)	75 (167)	40 (104)	T6	C, D	T4	E, F, G
		75 (167)	55 (131)	T5	C, D	—	—
		75 (167)	65 (149)	T5	C, D	—	—
PLT (4-pin)	84 (2 x 42)	75 (167)	40 (104)	T6	C, D	T4	E, F, G
		75 (167)	55 (131)	T5	C, D	—	—
		75 (167)	65 (149)	T5	C, D	—	—

“T” Numbers Represent the Maximum Surface Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

① Available only for 52, 64 and 84 watt fixtures.

② Available in Codemmaster 2 Only

③ Certified to meet the Canadian Electrical Code (CEC) only.

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Class II, Division 1 and 2, Groups E, F, G

Class III


NEMA 4X

Suitable for use in wet locations

	Lamp Watts	Hub Size (Inches)	Catalog Number with Globe ①
<b>Pendant — One Hub, Rigid or Flexible Mounting</b>			
	26	3/4	<b>CJFPB2675BU</b>
	32	3/4	<b>CJFPB3275BU</b>
	42	3/4	<b>CJFPB4275BU</b>

<b>25° Stanchion</b>	One Hub			
	26	1-1/2	<b>CJFSB26150BU</b>	
	32	1-1/2	<b>CJFSB32150BU</b>	
	42	1-1/2	<b>CJFSB42150BU</b>	

### Mounting Hoods

	Hub Size Inches	Catalog Number
<b>Pendant — One Hub</b>		
	3/4	<b>CAP-75B</b>

<b>25° Stanchion — One Hub ②</b>		
	1-1/2	<b>CAS-150B</b>

NOTE: Fixture units are the same as listed on following pages.

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

① To order fixture with lamp(s), add suffix -L after voltage suffix.

② Malleable iron sealing fittings are available in the Fittings Section.

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Class III

NEMA 4X

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### CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

CSA 4X

	Lamp Watts	Hub Size (Inches)	NEC Catalog Number with Globe ①③	CEC Catalog Number with Globe ①③
<b>Pendant — One Hub, Rigid or Flexible Mounting</b>				
	26 (1 x 26)	3/4	CJFP2675BU	CJFP2675A5
		1	CJFP2610BU	CJFP2610A5
	32 (1 x 32)	3/4	CJFP3275BU	CJFP3275A5
		1	CJFP3210BU	CJFP3210A5
	42 (1 x 42)	3/4	CJFP4275BU	CJFP4275A5
		1	CJFP4210BU	CJFP4210A5
	52 (2 x 26)	3/4	CFP5275BU	CFP5275A5
		1	CFP5210BU	CFP5210A5
26–42 W Shown	64 (2 x 32)	3/4	CFP6475BU	CFP6475A5
		1	CFP6410BU	CFP6410A5
	84 (2 x 42)	3/4	CFP8475BU	CFP8475A5
		1	CFP8410BU	CFP8410A5
<b>Ceiling — Four Hubs, Three Close-Up Plugs</b>				
	26 (1 x 26)	3/4	CJFC2675BU	CJFC2675A5
		1	CJFC2610BU	CJFC2610A5
	32 (1 x 32)	3/4	CJFC3275BU	CJFC3275A5
		1	CJFC3210BU	CJFC3210A5
	42 (1 x 42)	3/4	CJFC4275BU	CJFC4275A5
		1	CJFC4210BU	CJFC4210A5
	52 (2 x 26)	3/4	CFC5275BU	CFC5275A5
		1	CFC5210BU	CFC5210A5
52–84 W Shown	64 (2 x 32)	3/4	CFC6475BU	CFC6475A5
		1	CFC6410BU	CFC6410A5
	84 (2 x 42)	3/4	CFC8475BU	CFC8475A5
		1	CFC8410BU	CFC8410A5
<b>Bracket — Four Hubs, Three Close-Up Plugs</b>				
	26 (1 x 26)	3/4	CJFB2675BU	CJFB2675A5
		1	CJFB2610BU	CJFB2610A5
	32 (1 x 32)	3/4	CJFB3275BU	CJFB3275A5
		1	CJFB3210BU	CJFB3210A5
	42 (1 x 42)	3/4	CJFB4275BU	CJFB4275A5
		1	CJFB4210BU	CJFB4210A5
	52 (2 x 26)	3/4	CFB5275BU	CFB5275A5
		1	CFB5210BU	CFB5210A5
26–42 W Shown	64 (2 x 32)	3/4	CFB6475BU	CFB6475A5
		1	CFB6410BU	CFB6410A5
	84 (2 x 42)	3/4	CFB8475BU	CFB8475A5
		1	CFB8410BU	CFB8410A5
<b>25° Stanchion — One Hub</b>				
	26 (1 x 26)	1-1/4 or 1-1/2 ②	CJFS26150BU	CJFS26150A5
	32 (1 x 32)	1-1/4 or 1-1/2 ②	CJFS32150BU	CJFS32150A5
	42 (1 x 42)	1-1/4 or 1-1/2 ②	CJFS42150BU	CJFS42150A5
	52 (2 x 26)	1-1/4 or 1-1/2 ②	CFS52150BU	CFS52150A5
	64 (2 x 32)	1-1/4 or 1-1/2 ②	CFS64150BU	CFS64150A5
	84 (2 x 42)	1-1/4 or 1-1/2 ②	CFS84150BU	CFS84150A5
52–84 W Shown				

◆ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

① To order fixture with guard, add suffix -G before adding voltage suffix. To order fixture with lamp(s), add suffix -L after voltage suffix.

② 1-1/2" tapped hub furnished with 1-1/2" to 1-1/4" reducer.

③ BU is 120 through 277 V, 50/60 Hz and 125 Vdc. A5 is 347 V, 60 Hz.

Shaded items are suitable for Class I, Group D ONLY.

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FLUORESCENT/AREA: NEC/CEC EXPLOSIONPROOF

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**NEC:**  
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Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Suitable for use in wet locations

**CEC:**  
Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA 4X

### Mounting Hoods

	Hub Size (Inches)	Catalog Number
<b>Pendant</b>		
	3/4	<b>CAP-75</b>
	1	<b>CAP-100</b>
<b>Ceiling</b>		
	3/4	<b>CAC-75</b>
	1	<b>CAC-100</b>
<b>Bracket</b>		
	3/4	<b>CALB-75</b>
	1	<b>CALB-100</b>
<b>25° Stanchion</b>		
	1-1/4 or 1-1/2 ①	<b>CAS-150 ①</b>
<b>Mounting Adapter with Connection Block</b>		
		<b>CMAD-1</b>

### Fixture Units

	Line Voltage	Hz	Catalog Number
<b>Ballast body with globe</b>			
	120-277	50/60	<b>CJB26FBU ②</b>
	120-277	50/60	<b>CJB32FBU ②</b>
	120-277	50/60	<b>CJB42FBU ②</b>
	120-277	50/60	<b>CMBF52BU</b>
	120-277	50/60	<b>CMBF64BU</b>
	120-277	50/60	<b>CMBF84BU</b>

### Electrical Specification

Lamp Wattage	Line Voltage	Frequency (Hz)	Line Amps	Input Watts	Min. Starting Temp
26 (1 x 26)	120-277	50/60	0.25-0.11	28	-18 °C (0 °F)
32 (1 x 32)	120-277	50/60	0.27-0.12	36	-18 °C (0 °F)
42 (1 x 42)	120-277	50/60	0.35-0.16	48	-18 °C (0 °F)
52 (2 x 26)	120-277	50/60	0.49-0.20	55	-30 °C (-22 °F)
64 (2 x 32)	120-277	50/60	0.57-0.24	67	-30 °C (-22 °F)
84 (2 x 42)	120-277	50/60	0.73-0.31	87	-30 °C (-22 °F)

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

① 1-1/2" tapped hub furnished with 1-1/2" to 1-1/4" reducer.

② Denotes items that are suitable for Class I, Group B in addition to Class I, Groups C and D; and Class II, Groups E, F and G.

Shaded items are suitable for Class I, Group C in addition to Class I, Group D; Class II, Groups E, F and G; and Class III.

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CSA 4X

Description				Catalog Number	
White Polyester Reflectors					
		For Globe Fixtures	Standard Dome	26, 32, 42 W	KR2-ST
			30°Angle	26, 32, 42 W	KR2-AN
			Standard Dome	52, 64, 84 W	CMR-4ST
			30°Angle	52, 64, 84 W	CMR-4AN
			Deep Dome	52, 64, 84 W	CMR-4DD
Standard Dome	30° Angle Dome				
Aluminum Reflectors					
		High Bay		52, 64, 84 W	CMR-4HB
Prismatic Glass Globe and Ring Assembly					
				26, 32, 42 W	CJGL-175
				52, 64, 84 W	CGL-400
CJGL-175	CGL-400				
Aluminum Guards					
				26, 32, 42 W	CJGU-15
				52, 64, 84 W	CGU4
CJGU-15	CGU-4				
Three-Way Exit Sign					
		Epoxy enameled steel — 6"-high red lettering Mounts to fixture units in place of guard.			
				26, 32, 42 W	CJEXRN
				52, 64, 84 W	EXR400
Single Sided Exit Sign					
		Epoxy enameled steel — 6"-high red lettering Mounts to fixture units in place of guard. <i>Contact your sales representative regarding hazardous location suitability.</i>			
				26, 32, 42 W	AEXR-15R

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Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA 4X

Description	Catalog Number
-------------	----------------

### Replacement Parts – 26 W, 32 W, 42 W, 52 W, 64 W and 84 W



PLT32RS



CJSA42

Socket (lampholder) G24Q-4

26 thru 84 W

PLT32RS



CSA84

Single Socket Bracket Assembly

26, 32, 42 W

CJSA42

Double Socket Bracket Assembly

52, 64, 84 W

CSA84

### Lamps



1 lamp = 26 W; 2 lamps = 52 W

26 W

PLT26

1 lamp = 32 W; 2 lamps = 64 W

32 W

PLT32

1 lamp = 42 W; 2 lamps = 84 W

42 W

PLT42

### Connection Block



For all Code•Master fixtures

VPT-7

### Fixture and Accessory Weights kg (lb)

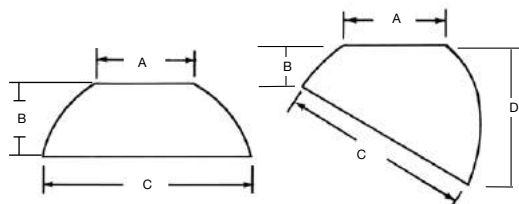
Fixture Size	Fixture Weight	Reflector Weight	Guard Weight
26 W, 32 W, 42 W	6.6 (14.55)	1.4 (3.09)	0.5 (1.10)
52 W, 64 W, 84 W	15.9 (35.05)	1.4 (3.09)	1.1 (2.43)

### Mounting Hood Weights kg (lb)

Pendant	Ceiling	Bracket	Stanchion
0.9 (1.98)	1.8 (3.97)	2.7 (5.95)	0.9 (1.98)

### Reflector Dimensions

Catalog Number	Description	Dimensions in mm (in)				Standard and Deep Dome	30° Angle
A	B	C	D				
<b>Standard Dome</b>							
KR2-ST	26, 32, 42 W	203.2 (8.00)	152.4 (6.00)	429.3 (16.90)	—		
CMR-4ST	52, 64, 84 W	284.5 (11.20)	149.9 (5.90)	475.0 (18.70)	—		
<b>Deep Dome</b>							
CMR-4DD	52, 64, 84 W	268.2 (10.56)	177.8 (7.00)	515.6 (20.30)	—		
<b>30° Angle</b>							
KR2-AN	26, 32, 42 W	203.2 (8.00)	69.9 (2.75)	378.5 (14.90)	258.3 (10.17)		
CMR-4AN	52, 64, 84 W	268.2 (10.56)	127 (5.00)	410.5 (16.16)	247.7 (9.75)		



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### CEC:

Class I, Division 1 and 2, Groups B, C, D

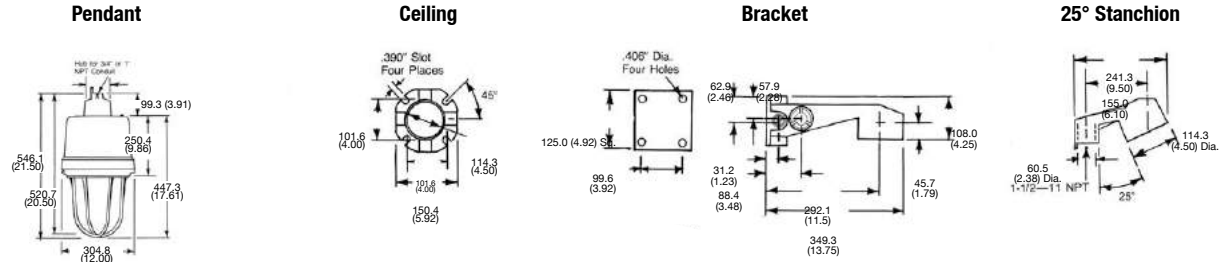
Class II, Division 1 and 2, Groups E, F, G

Class III

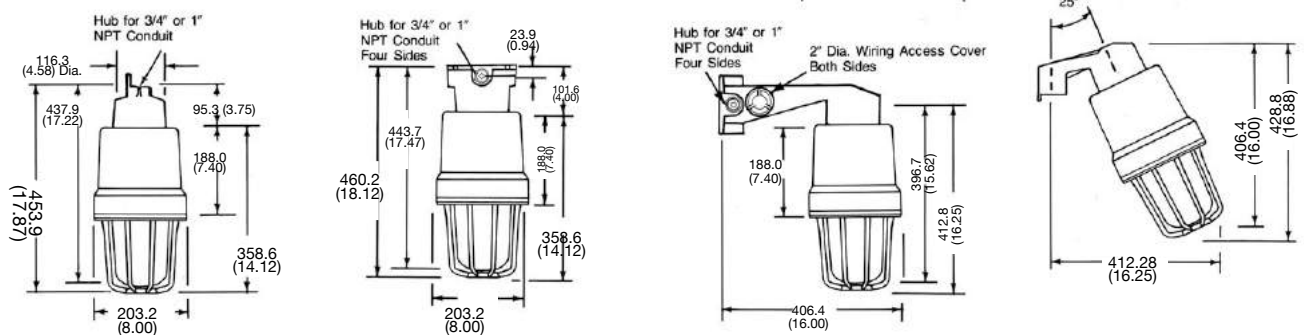
CSA 4X

## Dimensions in Millimeters (Inches)

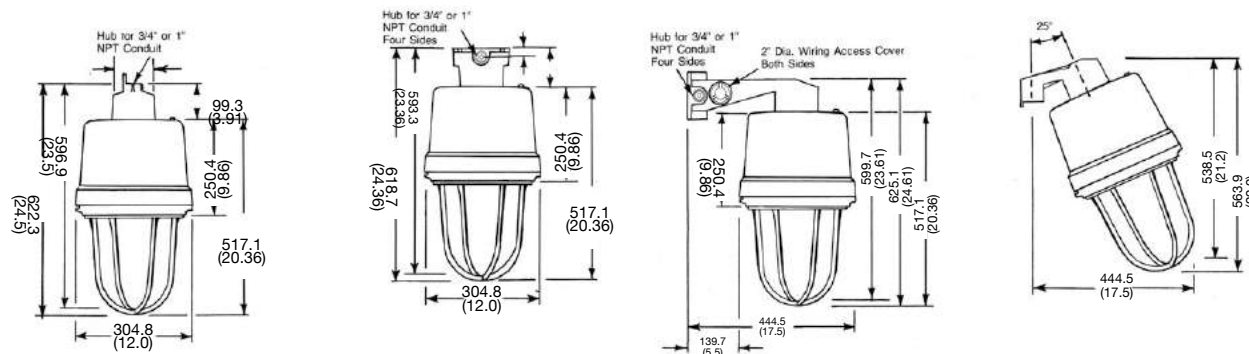
### Mounting Hoods



### 26, 32, 42 W Fixture



### 52, 64, 84 W Fixture



### Exit Signs



♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

# Code•Master™ PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Photometric data is based on a fixture with a 32 W compact fluorescent PL-T lamp (2,400 lumens). For candlepower values of fixtures with 26 W PL-T lamps (1,800 lumens), multiply by 0.75. For candlepower values of fixtures with a 42 W PL-T Lamp (3,200 lumens), multiply by 1.34.

### NEC:

Class I, Division 1 and 2, Groups B♦, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Suitable for use in wet locations

### CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA 4X

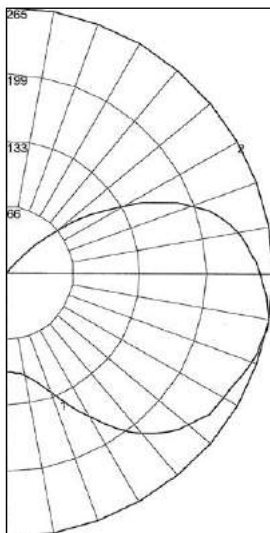
### Photometric Data

Total Luminaire Efficiency = 92.9%

CIE Type – Semi-Direct

Plane	Spacing Criteria
0-180	2.76
90-270	2.76
Diagonal	2.72

Zone	Lumens
0-10	9.75
10-20	32.89
20-30	68.63
30-40	119.65
40-50	174.44
50-60	219.68
60-70	252.32
70-80	278.38
80-90	283.11
90-100	266.38
100-110	231.16
110-120	166.66
120-130	91.63
130-140	31.38
140-150	2.95
150-160	0.19
160-170	0.00
170-180	0.00



REPORT NUMBER: CJB32G

32 W Fluorescent Lamp with Globe only \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	103	103	103	103	103	97	97	97	97	85	85	85	74	74	74	65	65	65	60	60	60	60
1	88	81	75	70	82	76	70	65	65	61	57	56	53	50	48	45	42	38	38	35	31	27
2	78	67	59	52	72	63	55	49	54	48	43	46	41	37	38	35	31	27	27	24	20	20
3	69	57	48	41	64	53	45	38	46	39	33	39	33	29	32	28	24	20	20	19	16	16
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6	52	38	29	23	48	36	27	21	31	24	18	26	20	16	21	17	13	10	10	9	9	9
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9	41	28	20	14	38	26	19	14	23	16	12	19	14	10	16	12	8	6	6	5	5	5
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### Zonal Lumen Summary

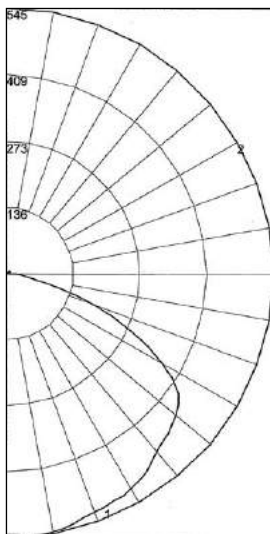
Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	111.27	4.6	5.0	90-120	664.20	27.7	29.8
0-40	230.92	9.6	10.4	90-130	755.83	31.5	33.9
0-60	625.05	26.0	28.0	90-150	790.17	32.9	33.9
0-90	1438.87	60.0	64.5	90-180	790.36	32.9	35.5
				0-180	2229.23	92.9	100.0

Total Luminaire Efficiency = 80.7%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.42
90-270	1.42
Diagonal	1.60

Zone	Lumens
0-10	51.88
10-20	151.03
20-30	240.04
30-40	312.02
40-50	361.09
50-60	377.88
60-70	278.20
70-80	119.22
80-90	23.81
90-100	0.68
100-110	4.48
110-120	6.82
120-130	5.50
130-140	3.07
140-150	0.09
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: CJB32ST

32 W Fluorescent Lamp with Globe and Standard Dome Reflector \*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	96	96	96	96	93	93	93	93	89	89	89	85	85	85	82	82	82	80	80	80	80	80
1	87	84	80	77	85	82	78	76	78	75	73	75	73	71	72	70	68	67	67	65	65	65
2	79	72	67	62	77	71	66	61	68	63	60	65	61	58	62	59	57	55	55	53	53	53
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9	44	33	26	21	43	32	26	21	31	25	21	30	25	21	29	24	21	19	19	17	17	17
10	41	30	23	19	40	30	23	19	29	23	19	28	23	19	27	22	19	17	17	15	15	15

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	442.95	18.5	22.9	90-120	11.98	0.5	0.6
0-40	754.97	31.5	39.0	90-130	17.48	0.7	0.9
0-60	1493.95	62.2	77.2	90-150	20.63	0.9	0.9
0-90	1915.18	79.8	98.9	90-180	20.63	0.9	1.1
				0-180	1935.81	80.7	100.0

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

# Code•Master™ PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Photometric data is based on a fixture with a 32 W compact fluorescent PL-T lamp (2,400 lumens). For candlepower values of fixtures with 26 W PL-T lamps (1,800 lumens), multiply by 0.75. For candlepower values of fixtures with a 42 W PL-T Lamp (3,200 lumens), multiply by 1.34. \*\* Photometric data is based on a fixture with two 32 W Compact Fluorescent PL-T lamps (2,400 lumens each). For candlepower values of fixtures with two 26 W PL-T lamps (1,800 lumens each), multiply by 0.75. For Candlepower values of fixtures with two 42 W PL-T Lamps. (3,200 lumens each) multiply by 1.34.

### NEC:

Class I, Division 1 and 2, Groups B ♦, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4X

Suitable for use in wet locations

### CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

CSA 4X

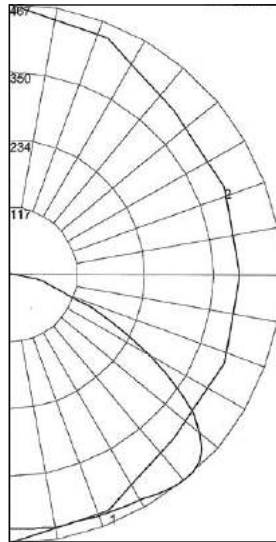
### Photometric Data

Total Luminaire Efficiency = 76.6%

#### CIE Type – Direct

Plane	Spacing Criteria
0-180	1.48
90-270	1.62
Diagonal	1.54

Zone	Lumens
0-10	42.08
10-20	124.46
20-30	205.20
30-40	273.31
40-50	299.53
50-60	283.93
60-70	240.60
70-80	181.91
80-90	110.47
90-100	50.28
100-110	18.05
110-120	5.01
120-130	1.80
130-140	1.13
140-150	0.05
150-160	0.00
160-170	0.00
170-180	0.00



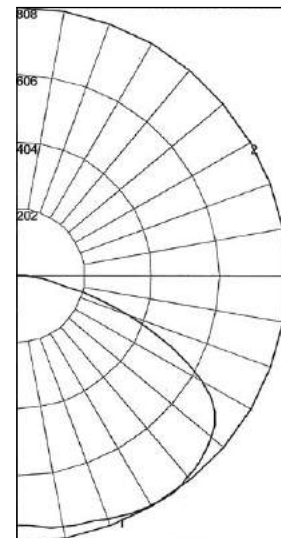
Maximum Candela = 467  
Located at Horizontal Angle = 90, Vertical Angle = 40  
#1 – Vertical Plane through Horizontal Angles (90–270)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (40)  
(Through Max. Cd.)

Total Luminaire Efficiency = 79.8%

#### CIE Type – Semi-Direct

Plane	Spacing Criteria
0-180	2.88
90-270	2.88
Diagonal	2.82

Zone	Lumens
0-10	17.70
10-20	61.05
20-30	132.44
30-40	236.78
40-50	336.66
50-60	421.68
60-70	485.34
70-80	517.29
80-90	513.72
90-100	468.70
100-110	352.77
110-120	200.85
120-130	73.54
130-140	11.28
140-150	1.12
150-160	0.31
160-170	0.06
170-180	0.00



Maximum Candela = 493  
Located at Horizontal Angle = 0, Vertical Angle = 70  
#1 – Vertical Plane through Horizontal Angles (0–180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (70)  
(Through Max. Cd.)

REPORT NUMBER: CJBFB32AN

32 W Fluorescent Lamp with Globe and 30° Angle Dome Reflector \*

#### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	90	90	90	90	88	88	88	88	83	83	83	79	79	79	75	75	75	73	73	73	73	0
1	81	76	72	69	78	74	71	67	70	67	64	67	64	62	63	61	59	58	58	58	58	0
2	73	65	59	54	70	64	58	53	60	56	52	57	53	50	54	51	48	46	46	46	46	0
3	66	57	50	44	63	55	49	44	52	47	42	50	45	41	47	43	40	38	38	38	38	0
4	60	50	42	37	58	48	42	36	46	40	35	44	39	35	42	37	34	32	32	32	32	0
5	55	44	37	31	53	43	36	31	41	35	30	39	34	30	37	33	29	27	27	27	27	0
6	50	39	32	27	49	39	32	27	37	31	26	35	30	26	34	29	25	23	23	23	23	0
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9	40	30	23	18	39	29	23	18	28	22	18	27	22	18	26	21	18	16	16	16	16	0
10	38	27	21	17	36	27	21	17	26	20	16	25	20	16	24	19	16	14	14	14	14	0

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	371.75	15.5	20.2	90-120	73.34	3.1	4.0
0-40	645.06	26.9	35.1	90-130	75.13	3.1	4.1
0-60	1228.52	51.2	66.8	90-150	76.32	3.2	4.1
0-90	1761.50	73.4	95.8	90-180	76.32	3.2	4.2
				0-180	1837.81	76.6	100.0

REPORT NUMBER: CMBF64G

64 W (two 32 W lamps) Fluorescent Fixture with Globe only \*\*

#### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	90	90	90	90	85	85	85	85	76	76	76	68	68	68	60	60	60	57	57	57	57	0
1	76	70	65	60	71	66	61	57	58	54	51	51	48	45	45	42	40	36	36	36	36	0
2	67	58	51	45	63	55	48	42	48	43	38	42	37	34	36	32	29	26	26	26	26	0
3	60	49	41	35	56	46	39	33	40	34	29	35	30	26	30	26	23	20	20	20	20	0
4	54	43	34	28	50	40	32	26	35	28	23	30	25	21	26	21	18	15	15	15	15	0
5	49	37	29	23	46	35	27	22	31	24	19	26	21	17	23	18	15	12	12	12	12	0
6	45	33	25	19	42	31	23	18	27	21	16	23	18	14	20	16	12	10	10	10	10	0
7	41	29	22	16	38	28	20	15	24	18	14	21	16	12	18	14	10	8	8	8	8	0
8	38	26	19	14	36	25	18	13	22	16	12	19	14	10	16	12	9	7	7	7	7	0
9	35	24	17	12	33	23	16	11	20	14	10	17	12	9	15	11	8	6	6	6	6	0
10	33	22	15	11	31	21	14	10	18	13	9	16	11	8	14	10	7	5	5	5	5	0

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	211.19	4.4	5.5	90-120	1022.32	21.3	26.7
0-40	447.97	9.3	11.7	90-130	1095.85	22.8	28.6
0-60	1206.31	25.1	31.5	90-150	1108.26	23.1	28.6
0-90	2722.64	56.7	71.1	90-180	1108.63	23.1	28.9
				0-180	3831.28	79.8	100.0

◆ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

# Code•Master™ PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\*\* Photometric data is based on a fixture with two 32 W Compact Fluorescent PL-T lamps (2,400 lumens each). For candlepower values of fixtures with two 26 W PL-T lamps (1,800 lumens each), multiply by 0.75. For Candlepower values of fixtures with two 42 W PL-T lamps (3,200 lumens each) multiply by 1.34.

### NEC:

Class I, Division 1 and 2, Groups B♦, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Suitable for use in wet locations

### CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA 4X

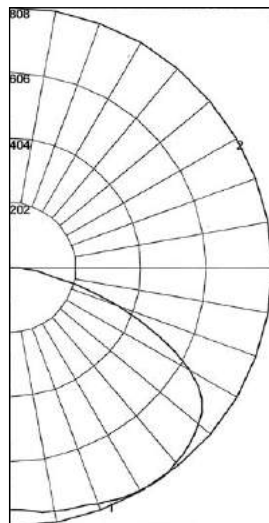
### Photometric Data

Total Luminaire Efficiency = 66.5%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.62
90-270	1.62
Diagonal	1.74

Zone	Lumens
0-10	73.25
10-20	220.57
20-30	368.60
30-40	505.61
40-50	603.19
50-60	638.42
60-70	497.24
70-80	226.17
80-90	57.98
90-100	1.64
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



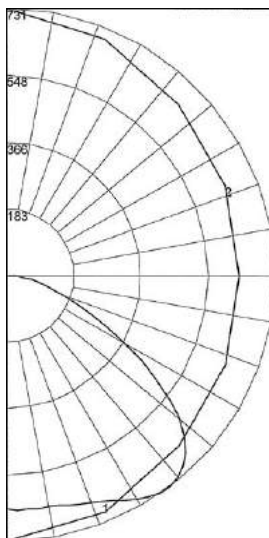
Maximum Candela = 808  
Located at Horizontal Angle = 0, Vertical Angle = 35  
#1 – Vertical Plane through Horizontal Angles (0–180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (35)  
(Through Max. Cd.)

Total Luminaire Efficiency = 57.4%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.52
90-270	1.70
Diagonal	1.62

Zone	Lumens
0-10	62.13
10-20	187.93
20-30	317.49
30-40	428.14
40-50	471.22
50-60	454.23
60-70	384.77
70-80	276.31
80-90	157.68
90-100	13.45
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Maximum Candela = 731  
Located at Horizontal Angle = 90, Vertical Angle = 37.5  
#1 – Vertical Plane through Horizontal Angles (90–270)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (37.5)  
(Through Max. Cd.)

REPORT NUMBER: CMBF64ST

64 W (two 32 W lamps) Fluorescent Fixture with Globe and Standard Dome Reflector \*\*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	79	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	66	68	68	66
1	72	69	66	63	63	70	67	64	62	64	62	60	62	60	58	59	58	56	55	58	56	55
2	65	59	54	50	50	63	58	53	49	55	52	48	53	50	47	51	48	46	45	48	46	45
3	59	51	45	41	41	57	50	45	40	48	43	40	46	42	39	44	41	38	37	41	38	37
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7	41	32	25	21	21	40	31	25	21	30	25	21	29	24	21	28	24	20	19	24	20	19
8	38	29	23	19	19	37	28	22	18	27	22	18	26	22	18	26	21	18	17	21	18	17
9	35	26	20	16	16	34	26	20	16	25	20	16	24	19	16	23	19	16	15	19	16	15
10	33	24	18	15	15	32	24	18	15	23	18	15	22	18	15	22	17	14	13	17	14	13

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	662.42	13.8	20.7	90-120	1.64	0.0	0.1
0-40	1168.03	24.3	36.6	90-130	1.64	0.0	0.1
0-60	2409.64	50.2	75.5	90-150	1.64	0.0	0.1
0-90	3191.04	66.5	99.9	90-180	1.64	0.0	0.1
0-180	3192.68	66.5	100.0				

REPORT NUMBER: CMBF64AN

64 W (two 32 W lamps) Fluorescent Fixture with Globe and 30° Angle Dome Reflector \*\*

### Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	68	68	68	68	68	67	67	67	67	64	64	64	61	61	61	58	58	58	57	58	58	57
1	61	58	55	52	52	59	56	54	51	54	51	49	51	49	48	49	48	46	45	48	46	45
2	55	49	45	41	41	53	48	44	40	46	43	39	44	41	39	42	40	38	36	40	38	36
3	50	43	37	33	33	48	42	37	33	40	36	32	38	35	32	37	34	31	30	34	31	30
4	45	37	32	28	28	44	37	31	27	35	31	27	34	30	27	32	29	26	25	29	26	25
5	41	33	28	23	23	40	32	27	23	31	27	23	30	26	23	29	25	22	21	25	22	21
6	38	30	24	20	20	37	29	24	20	28	23	20	27	23	20	26	22	19	18	22	19	18
7	35	27	21	18	18	34	26	21	18	25	21	17	24	20	17	24	20	17	16	20	17	16
8	32	24	19	16	16	32	24	19	15	23	19	15	22	18	15	22	18	15	14	18	15	14
9	30	22	17	14	14	29	22	17	14	21	17	14	20	16	14	20	16	13	12	16	13	12
10	28	20	16	12	12	28	20	15	12	19	15	12	19	15	12	18	15	12	11	15	12	11

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	567.55	11.8	20.6	90-120	13.45	0.3	0.5
0-40	995.69	20.7	36.2	90-130	13.45	0.3	0.5
0-60	1921.14	40.0	69.8	90-150	13.45	0.3	0.5
0-90	2739.90	57.1	99.5	90-180	13.45	0.3	0.5
0-180	2753.35	57.4	100.0				

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

# Code•Master™ PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\*\* Photometric data is based on a fixture with two 32 W Compact Fluorescent PL-T lamps (2,400 lumens each). For candlepower values of fixtures with two 26 W PL-T lamps (1,800 lumens each), multiply by 0.75. For Candlepower values of fixtures with two 42 W PL-T Lamps, (3,200 lumens each) multiply by 1.34.

### NEC:

Class I, Division 1 and 2, Groups B♦, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Suitable for use in wet locations

### CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA 4X

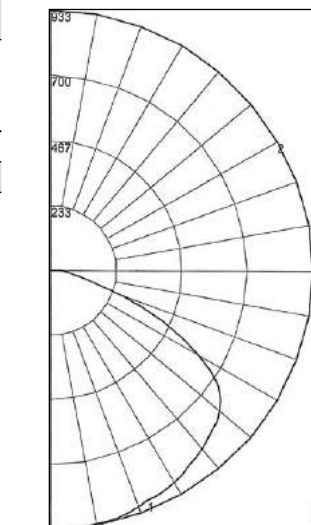
### Photometric Data

Total Luminaire Efficiency = 67.2%

#### CIE Type – Direct

Plane	Spacing Criteria
0-180	1.44
90-270	1.44
Diagonal	1.60

Zone	Lumens
0-10	88.95
10-20	260.61
20-30	413.34
30-40	539.82
40-50	630.36
50-60	641.74
60-70	436.60
70-80	164.84
80-90	47.37
90-100	1.92
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



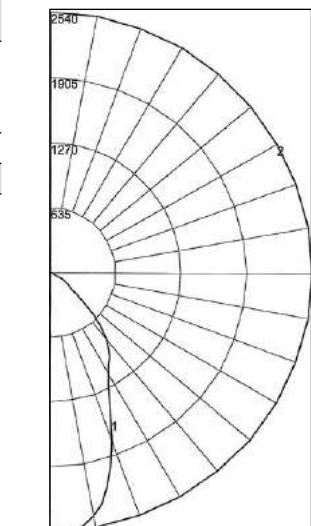
Maximum Candela = 933  
Located at Horizontal Angle = 0, Vertical Angle = 7.5  
#1 – Vertical Plane through Horizontal Angles (0–180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (7.5)  
(Through Max. Cd.)

Total Luminaire Efficiency = 58.9%

#### CIE Type – Direct

Plane	Spacing Criteria
0-180	0.82
90-270	0.82
Diagonal	0.92

Zone	Lumens
0-10	239.15
10-20	599.67
20-30	645.20
30-40	625.54
40-50	452.95
50-60	185.71
60-70	58.40
70-80	15.26
80-90	4.25
90-100	0.69
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



Maximum Candela = 2540  
Located at Horizontal Angle = 0, Vertical Angle = 5  
#1 – Vertical Plane through Horizontal Angles (0–180)  
(Through Max. Cd.)  
#2 – Horizontal Cone through Vertical Angle (5)  
(Through Max. Cd.)

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

REPORT NUMBER: CMBF64DD

64 W (two 32 W lamps) Fluorescent Fixture with Globe and Deep Dome Reflector \*\*

#### Coefficients of Utilization – Zonal Cavity Method

##### Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	80	80	80	80	80	78	78	78	78	75	75	75	71	71	71	69	69	69	67	67	67	67
1	73	70	67	65	65	71	68	66	63	66	63	61	63	61	60	60	59	58	56	56	56	56
2	66	61	56	52	52	65	59	55	52	57	53	50	55	52	49	53	50	48	47	47	47	47
3	60	53	47	43	43	59	52	47	43	50	45	42	48	44	41	46	43	40	39	39	39	39
4	55	47	41	36	36	53	46	40	36	44	39	35	42	38	35	41	37	34	33	33	33	33
5	50	41	35	31	31	49	41	35	30	39	34	30	38	33	30	37	33	29	28	28	28	28
6	46	37	31	26	26	45	36	30	26	35	30	26	34	29	26	33	29	25	24	24	24	24
7	43	33	27	23	23	41	33	27	23	32	27	23	31	26	23	30	26	22	21	21	21	21
8	40	30	24	20	20	38	30	24	20	29	24	20	28	23	20	27	23	20	19	19	19	19
9	37	28	22	18	18	36	27	22	18	26	21	18	26	21	18	25	21	18	16	16	16	16
10	34	25	20	16	16	34	25	20	16	24	19	16	24	19	16	23	19	16	15	15	15	15

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	762.91	15.9	23.7	90-120	1.92	0.0	0.1
0-40	1302.73	27.1	40.4	90-130	1.92	0.0	0.1
0-60	2574.82	53.6	79.8	90-150	1.92	0.0	0.1
0-90	3223.63	67.2	99.9	90-180	1.92	0.0	0.1
0-180	3225.55	57.4	100.0				

REPORT NUMBER: CMBF64HB

64 W (two 32 W lamps) Fluorescent Fixture with Globe and High Bay Reflector \*\*

#### Coefficients of Utilization – Zonal Cavity Method

##### Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	70	70	70	70	70	68	68	68	68	65	65	65	63	63	63	60	60	60	59	59	59	59
1	66	64	63	61	61	65	63	62	60	61	59	58	58	57	57	56	56	55	54	54	54	54
2	62	59	56	54	54	61	58	55	53	56	54	52	54	52	51	52	51	50	49	49	49	49
3	58	54	51	48	48	57	53	50	47	51	49	47	50	48	46	49	47	45	44	44	44	44
4	55	50	46	43	43	54	49	45	43	48	44	42	46	44	42	45	43	41	40	40	40	40
5	51	46	42	39	39	50	45	41	39	44	41	38	43	40	38	42	39	37	36	36	36	36
6	48	42	38	35	35	47	42	38	35	41	37	35	40	37	35	39	36	34	33	33	33	33
7	46	39	35	32	32	45	39	35	32	38	35	32	37	34	32	37	34	32	31	31	31	31
8	43	37	33	30	30	42	36	32	30	36	32	30	35	32	29	34	31	29	28	28	28	28
9	41	34	30	28	28	40	34	30	28	33	30	27	33	30	27	32	29	27	26	26	26	26
10	38	32	28	26	26	38	32	28	26	31	28	26	31	28	25	30	27	25	25	25	25	25

#### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	1484.03	30.9	52.5	90-120	0.69	0.0	0.0
0-40	2109.57	43.9	74.6	90-130	0.69	0.0	0.0
0-60	2748.23	57.3	97.2	90-150	0.69	0.0	0.0
0-90	2826.12	58.9	100.0	90-180	0.69	0.0	0.0
0-180	2628.80	58.9	100.0				

# ELS Series Emergency Lighting System

## Explosionproof, Dust-Ignitionproof

Remote and direct mounted fixtures for hazardous location applications

### NEC:

Class I, Division 1 and 2, Groups B ①, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

### Applications

- ELS Series features an emergency lighting power unit that is designed to provide safe operation in the presence of hazardous gases, vapors or dusts, defined by the National Electrical Code as Class I, Groups C and D, and Class II, Groups E, F and G.
- Typical applications include all means of egress (such as walkways, exit ramps, stairs and aisles) for hazardous areas which include oil refineries, petrochemical facilities, pulp and paper mills, chemical storage areas, wastewater treatment facilities and grain elevators.

### Features

- The electronics consist of a solid-state charger, transfer circuit and low-voltage battery disconnect circuit.
- The unit test switch and AC "On" indicator light are housed in a separate module that may be attached directly to the unit housing or mounted remotely for ease of testing.
- All ELS Series units are rated for operation in NEC Class I, Division 1 and 2, Groups C and D; and Class II, Division 1 and 2, Groups E, F, and G environments.
- Housing provisions allow for the attachment of two optional explosionproof lighting fixtures.
- Unit capacity is sufficient for the connection of up to four 6- or 12- volt, 18-watt fixtures.
- Units provide 90 minutes of emergency operation.
- The solid-state charger maintains battery at full charge.
- Upon failure of utility voltage, the DC emergency lighting load is connected to the battery.
- During emergency operation, automatic battery protection from deep discharge damage is provided by a low-voltage battery disconnect (LVD) circuit.
- Upon restoration of normal power, the charger will begin a recharge cycle. It will bring the battery to full capacity within acceptable UL time standards.
- A pilot light indicates the presence of AC line voltage, and a test switch is provided for checking transfer operation. Lock-out type guard on push button accepts locks with up to 6.5 mm (1/4 in) hasp.
- A universal transformer allows operation on 120 or 277 Vac lines.
- Emergency power source is a maintenance-free, sealed, pure-lead battery suited for harsh temperature environments for 0 °C to +40 °C (+32 °F to +104 °F).
  - Never necessary to add water.
  - Expected life is 10 years
  - Compact in design
- Standard illumination is provided during power failure only using fixtures specially designed for emergency lighting in hazardous environments, supplied with double contact bayonet base 18- or 28-watt incandescent lamps.
- Designed for easy installation. Provided with 4 mounting holes for attachment to a wall or other suitable surface. Mounting hardware not included.
- Housing is drilled and tapped for installation of utility 12.7 mm (1/2 in) NPT conduit.
- Quick access to internal wiring and components is provided by thread-on cover.
- All necessary fittings for test switch/ pilot light module supplied standard.



### Standard Materials

- Battery enclosure, fixtures, guards and pendant mount: copperfree (4/10 of 1% max.) aluminum.
- Ceiling and bracket mounts: malleable iron with aluminum adapter
- Reflectors: porcelain enameled steel
- Test Switch: copperfree (4/10 of 1% max.) aluminum with stainless steel hardware

### Standard Finishes

- Enclosure, fixtures and test station: epoxy powder coat finish electrostatically applied for complete and uniform surface protection
- Reflectors: white porcelain enamel

### Options

- The fixture may be adapted to serve as an exit sign through use of an Auxiliary Exit Housing.
- Time Delay Relay (15 minutes) available to permit normal lighting to re-establish brightness. Add suffix **-T1** for 120 Vac, or **-T2** for 277 Vac.

### NEC Certifications and Compliances

- UL Standard: UL 924, UL 844, UL 1598
- UL Listed: 175025

① Contact your sales representative for Class I, Group B rating.

# ELS Series Emergency Lighting System

## Explosionproof, Dust-Ignitionproof

Remote and direct mounted fixtures for hazardous location applications

### NEC:

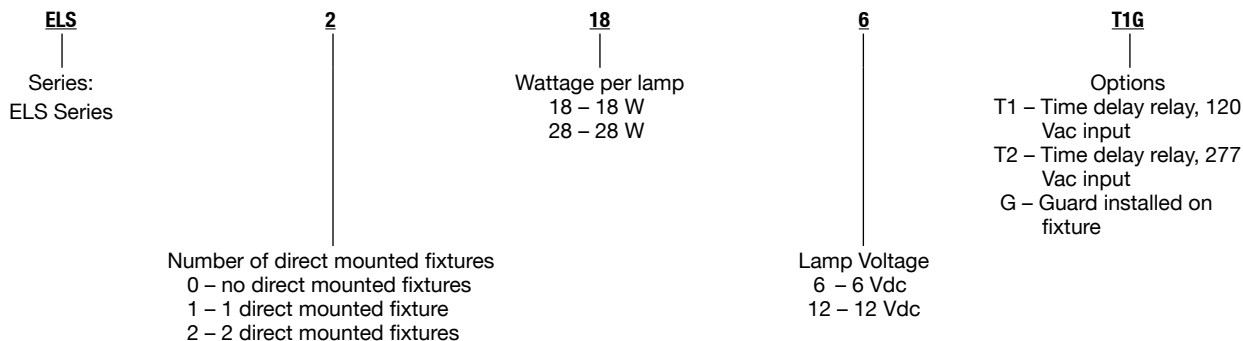
Class I, Division 1 and 2, Groups B ①, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide



### Capacity of standard ELS unit (75 W for 90 minutes)

Up to 2 fixtures may be direct mounted. The remainder must be remote mounted.

Combination Number	Number of Fixtures	Wattage per Fixture	Total Wattage
1	1	18	18
2	1	28	28
3	2	18	36
4	2	28	56
5	3	18	54
6	1	28	64
6	2	18	64
7	4	18	72

Lamp Watts	Supply Wire Temp °C (°F)	Ambient Temp °C (°F)	Class I, Division 1 and 2 Operating Temperature	Class II, Division 1 and 2 (Groups E, F and G) Operating Temperature
18	125 (257)	40 (104)	T5	T3C
28	125 (257)	40 (104)	T5	T3C

### “T” Numbers Represent the Maximum Surface Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

NOTE: The maximum operating temperature of the fixture must not exceed the ignition temperature of the gas, vapor or dust to be encountered per the National Electrical Code. Operating temperatures are with and without reflectors and guards.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

① Contact your sales representative for Class I, Group B rating.

# ELS Series Emergency Lighting System


## Explosionproof, Dust-Ignitionproof

Remote and direct mounted fixtures for hazardous location applications


### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III


### Emergency Lighting System with Direct Mounted Fixtures

	Number of Fixtures	Watts per Lamp	Lamp Voltage	Input Voltage	Catalog Number (Lamp(s) Included)
	2	18	6 Vdc	120/277 Vac	<b>ELS2186</b> ①②③④
	2	28	6 Vdc	120/277 Vac	<b>ELS2286</b> ①②③④
	2	18	12 Vdc	120/277 Vac	<b>ELS21812</b> ①②③④
	2	28	12 Vdc	120/277 Vac	<b>ELS22812</b> ①②③④
	1	18	6 Vdc	120/277 Vac	<b>ELS1186</b> ②③④
	1	28	6 Vdc	120/277 Vac	<b>ELS1286</b> ①②③④
	1	18	12 Vdc	120/277 Vac	<b>ELS11812</b> ①②③④
	1	28	12 Vdc	120/277 Vac	<b>ELS12812</b> ①②③④

### Emergency Lighting System Enclosure with Battery and Charger

	Lamp Voltage	Input Voltage	Catalog Number with Push-to-Test (Incl. Fittings)
	6 Vdc	120/277 Vac	<b>ELS06</b> ①②③
	12 Vdc	120/277 Vac	<b>ELS012</b> ①②③

### Emergency Lighting System Fixture for Direct Mounting to Enclosure Includes all necessary fittings and lamp.

	Watts Per Lamp	Lamp Voltage	Catalog Number (Lamp Included)
	18	6 Vdc	<b>AP1050-186-DM</b> ④
	28	6 Vdc	<b>AP1050-286-DM</b> ④
	18	12 Vdc	<b>AP1050-1812-DM</b> ④
	28	12 Vdc	<b>AP1050-2812-DM</b> ④

① 1/2" NPT provided for AC input.

② Add suffix **T1** for time delay relay for 120 Vac input.

③ Add suffix **T2** for time delay relay for 277 Vac input.

④ To order fixtures with guard installed add suffix **-G**. Reflectors and exit signs are ordered separately. See Accessories page.

# ELS Series Emergency Lighting System






## Explosionproof, Dust-Ignitionproof

Remote and direct mounted fixtures for hazardous location applications

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Emergency Lighting System Fixture for Remote Mounting — Lamp Included — Shown with Optional Guard

	Mounting Type	Watts Per Lamp	Lamp Voltage	Catalog Number (Lamp Included) ①
<b>Pendant — One 1/2" Hub</b>				
		18	6 Vdc	AP1050-186
		28	6 Vdc	AP1050-286
		18	12 Vdc	AP1050-1812
		28	12 Vdc	AP1050-2812
<b>Ceiling — Four 1/2" Hubs, Three Close-Up Plugs</b>				
		18	6 Vdc	AC1050-186
		28	6 Vdc	AC1050-286
		18	12 Vdc	AC1050-1812
		28	12 Vdc	AC1050-2812
<b>Long Bracket — Four 1/2" Hubs, Three Close-Up Plugs</b>				
		18	6 Vdc	ALB1050-186
		28	6 Vdc	ALB1050-286
		18	12 Vdc	ALB1050-1812
		28	12 Vdc	ALB1050-2812
<b>Short Bracket — 15 degrees — Two 1/2" Hubs, One Close-Up Plug</b>				
		18	6 Vdc	ASB1050-186
		28	6 Vdc	ASB1050-286
		18	12 Vdc	ASB1050-1812
		28	12 Vdc	ASB1050-2812
<b>Emergency Lighting System Replacement Fixtures — Lamp included — Fits existing mounting hood</b>				
		Watts Per Lamp	Lamp Voltage	Catalog Number (Lamp Included) ①
		18	6 Vdc	AAU1N-186
		28	6 Vdc	AAU1N-286
		18	12 Vdc	AAU1N-1812
		28	12 Vdc	AAU1N-2812

① To order fixtures with guard installed, add suffix **-G**. Reflectors and exit signs are ordered separately. See Accessories page.

# ELS Series Emergency Lighting System

## Explosionproof, Dust-Ignitionproof







Remote and direct mounted fixtures for hazardous location applications

### NEC:

Class I, Division 1 and 2, Groups B ①, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

Description		Catalog Number
Guard		AAGU-1
Three-Way Exit Sign	 <p>Epoxy enameled steel — 6"-high red lettering Mounts to fixture units in place of guard.</p>	CJEXRN
Single-Sided Exit Sign	 <p>Epoxy enameled steel — 6"-high red lettering Mounts to fixture units in place of guard.</p>	AEXR-15R
30° Angle Reflector		AARW15AN
Standard Dome Reflector		AARW15ST
Push-to-Test Station	 <p>Complete Push-to-Test Station</p> <p>Cover with Switch and Pilot Light</p> <p>Switch Only</p> <p>Pilot Light Only</p>	EFDCB150J1U1-T-A EFKB-J1U1-TEST SPBB-U1-Q SPLNS-RE-B

① Contact your sales representative for Class I, Group B rating.

# ELS Series Emergency Lighting System

## Explosionproof, Dust-Ignitionproof

Remote and direct mounted fixtures for hazardous location applications

### NEC:

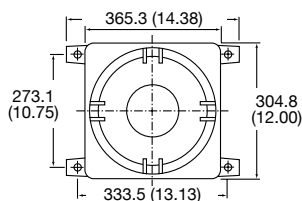
Class I, Division 1 and 2, Groups B ①, C, D

Class II, Division 1 and 2, Groups E, F, G

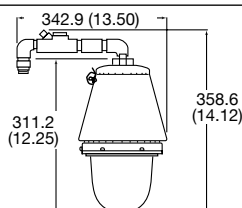
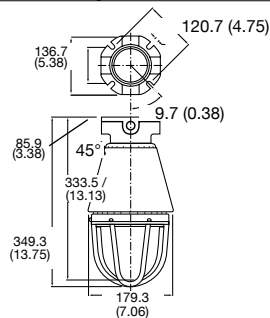
Class III

Weight kg (lb)	Catalog Number	Weight kg (lb)	Catalog Number
23.6 (52.03)	ELS06, ELS012	3.4 (7.50)	AAU1N-186
5.0 (11.02)	AP1050-186-DM	0.2 (0.44)	AAGU1
4.1 (9.04)	AP1050-186	2.3 (5.07)	AEXR-15R
5.7 (12.57)	AC1050-186	2.3 (5.07)	CJEXRN
7.5 (16.53)	ALB1050-186	1.0 (2.20)	AARW15AN
5.7 (12.57)	ASB1050-186	1.0 (2.20)	AARW15ST
1.8 (3.97)	EFDCB150J1U1-T-A		

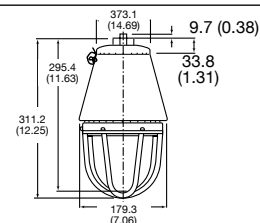
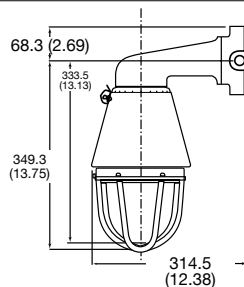
### Dimensions in Millimeters (Inches)



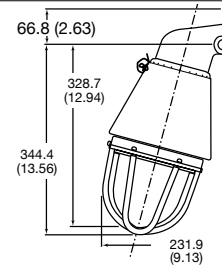
**Battery Enclosure**



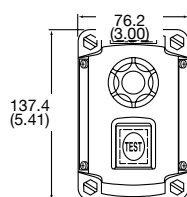
**Direct Mount fixture**



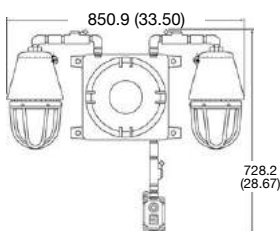
**Pendant Mount**



**Ceiling Mount**

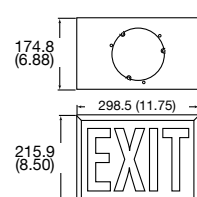


**EFDCB150J1JU1-T-A**

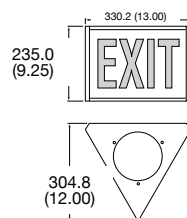


**ELS with 2 direct mounted fixtures**

**Long Bracket Mount**

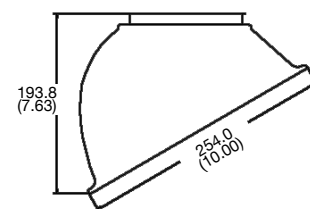


**AEXR-15R**

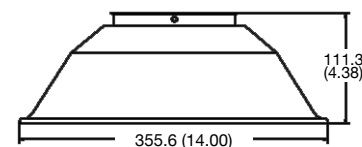


**CJEXRN**

**Short Bracket Mount**



**AARW15AN**



**AARW15ST**

① Contact your sales representative for Class I, Group B rating.

# APL Two and Four Lamp Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

120-277 V, 120 V, 277 V, 347 V, 50/60 Hz. For use with Threaded Metal Conduit. Suitable for Wet Locations and Paint Spray Booths.

### NEC/CEC:

Class I, Division 1 and 2, Groups C,D

Class II, Division 1 and 2, Groups E,F,G

Class III

Marine Type Electric Fixture Inside Drip-Proof

Type

### Applications

- Classified areas where ignitable gases and vapors, dusts, paint residue, paint powder, or corrosive atmospheres may be present, or where excessive moisture is a problem.
- Approved for mounting directly inside a paint spray booth. Complies with NEC 516-3(b) and NFPA No. 33.
- Typical applications include refineries, chemical and petrochemical plants, textile mills, grain elevators and other grain-processing facilities, pharmaceutical plants, and paint spray areas.

### Features

- Factory sealed fixture. No external seals needed for classified areas.
- Two lamp:
  - Compact size
  - Uses two single-ended biaxial 40 W fluorescent lamps in a fixture only 29"/736.6 mm long
  - Available for 120-277 V, 50/60 Hz
  - Available for 120 V, 277 V, 347 V, 50/60 Hz ③
- Four lamp:
  - Uses four single-ended biaxial 40 W fluorescent lamps mounted tandem in a 1333.5 mm (52-1/2 in) long fixture
  - Available for 120-277 V, 50/60 Hz
  - Available for 120 V, 277 V, 347 V, 50/60 Hz ③
- Easy to install. Has three 19.1 mm (3/4) in conduit hubs on each end of fixture. Two close-up plugs per end are furnished. Mounts straight down, or at 45° angle to either side. Can be mounted horizontally, or mounted vertically on wall. Gasketed end caps remove easily for wiring or relamping.
- Explosionproof, heat-resistant and impact-resistant glass tubes protect lamps.
- Cool-operating fluorescent lamps provide excellent color rendition and high lumen output per watt. Average lamp life is 20,000 hours. Lamps are furnished.
- Corrosion resistant.
- Reflector (optional) is designed for efficient distribution. Installs and removes using only a screwdriver.
- Appleton APL fixtures are supplied with energy-saving Class P ballasts, equipped with an automatic thermally activated protective device.

### Standard Materials

- End housing: copperfree (4/10 of 1% max.) aluminum
- Housing hood and optional reflectors: heavy gauge aluminum
- Wire guard: stainless steel

### Standard Finishes

- End housings and hood: two-coat baked gray epoxy finish
- Reflector: white baked powder coat polyester reflecting surface

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428



Two Lamp APL



Two Lamp APL with Optional Reflector



Four Lamp APL



Four Lamp APL with Optional Reflector

### Illustrated Feature



APL Fixture shown with explosionproof, gasketed end caps removed, allowing access for wiring and relamping.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# APL Two and Four Lamp Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

120-277 V, 120 V, 277 V, 347 V, 50/60 Hz. For use with Threaded Metal Conduit. Suitable for Wet Locations and Paint Spray Booths.

### NEC/CEC:






Class I, Division 1 and 2, Groups C,D

Class II, Division 1 and 2, Groups E,F,G

Class III

Marine Type Electric Fixture Inside Drip-Proof

Type

	Lamps (Included)	Volts	Hub Size (Inches)	Temperature Rating	Supply Wire °C (°F)	Catalog Number
Luminaires Without Reflector						
	Two Lamp					
	(2) 40 W F40BX	120-277	3/4	T-6	60 (140)	APL240BU
	(2) 40 W F40BX	3477	3/4	T-6	60 (140)	APL240347 ①
	Four Lamp					
	(4) 40 W F40BX	120-277	3/4	T6	60 (140)	APL440BU
	(4) 40W F40BX	347	3/4	T-6	60°C	APL440347 ①
Aluminum reflector with white powder coat polyester finish						
	Two Lamp					APL2R
	Four Lamp					APL4R
Wire Guard						
	Two Lamp — 0.61 m (2') long					APL2GUSS
	Four Lamp — 1.22 m (4') long					ARSGUSS
Exit Sign — 6" red lettering on white enamel field						
	Two Lamp Only					APLEXR

① Certified to meet the Canadian Electrical Code (CEC) only.

# APL Two Lamp Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

120-277 V, 120 V, 277 V, 347 V, 50/60 Hz. For use with Threaded Metal Conduit. Suitable for Wet Locations and Paint Spray Booths.

### NEC/CEC:

Class I, Division 1 and 2, Groups C,D

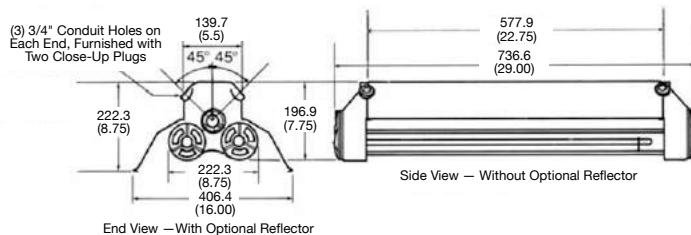
Class II, Division 1 and 2, Groups E,F,G

Class III

Marine Type Electric Fixture Inside Drip-Proof

Type

### Dimensions in Millimeters (Inches)



APL240

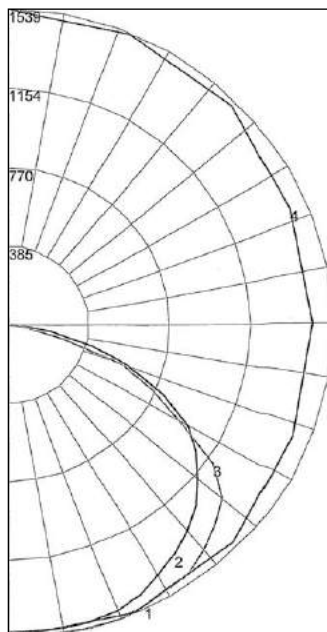
### Photometric Data

Total Luminaire Efficiency = 81.4%

CIE Type - Direct

Plane	Spacing Criteria
0-180	1.28
90-270	1.50
Diagonal	1.54

Zone	Lumens
0-10	143.58
10-20	422.85
20-30	667.66
30-40	852.03
40-50	948.58
50-60	920.43
60-70	709.76
70-80	373.12
80-90	87.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: APL240R

Lamps: Two 40 W Two-Foot Explosionproof Fluorescent

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	80				70				50				30				10				0
% Walls R <sub>w</sub>	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	97	97	97	97	95	95	95	95	90	90	90	87	87	87	83	83	83	81	81	81	81
1	88	84	81	77	86	82	79	76	79	76	74	76	73	71	73	71	69	68	68	68	68
2	80	73	67	62	78	71	66	62	68	64	60	66	62	59	63	60	57	56	56	56	56
3	72	64	57	51	70	62	56	51	60	54	50	58	53	49	55	51	48	46	46	46	46
4	66	56	49	43	64	55	48	43	53	47	42	51	46	41	49	45	41	39	39	39	39
5	61	50	42	37	59	49	42	36	47	41	36	45	40	35	44	39	35	33	33	33	33
6	56	44	37	32	54	44	37	31	42	36	31	41	35	31	40	34	31	29	29	29	29
7	52	40	33	28	50	39	33	28	38	32	27	37	31	27	36	31	27	25	25	25	25
8	48	37	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22	22	22	22
9	45	33	27	22	43	33	26	22	32	26	22	31	26	22	30	25	21	20	20	20	20
10	42	31	24	20	41	30	24	20	29	24	20	29	23	19	28	23	19	18	18	18	18

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	1234.09	19.6	24.1	90-120	0.00	0.0	0.0
0-40	2086.12	33.1	40.7	90-130	0.00	0.0	0.0
0-60	3955.13	62.8	77.2	90-150	0.00	0.0	0.0
0-90	5125.31	81.4	100.0	90-180	0.00	0.0	0.0
				0-180	5125.32	81.4	100.0

# APL Four Lamp Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

120-277 V, 120 V, 277 V, 347 V, 50/60 Hz. For use with Threaded Metal Conduit. Suitable for Wet Locations and Paint Spray Booths.

### NEC/CEC:

Class I, Division 1 and 2, Groups C,D

Class II, Division 1 and 2, Groups E,F,G

Class III

Marine Type Electric Fixture Inside Drip-Proof

Type

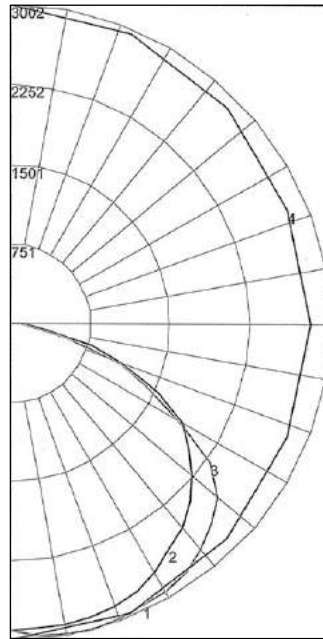
### Photometric Data

Total Luminaire Efficiency = 79.9%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.30
90-270	1.50
Diagonal	1.54

Zone	Lumens
0-10	277.70
10-20	817.61
20-30	1291.05
30-40	1648.83
40-50	1837.13
50-60	1787.64
60-70	1379.79
70-80	722.47
80-90	148.89
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



# EFU Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit Suitable for use in Wet Locations

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Applications

- Classified areas such as inside paint spray booths, in pharmaceutical firms, paint-manufacturing plants, printing plants or any location where ignitable dust, fumes, gases, paint residue, paint powder or corrosive atmospheres may be present.

### Features

- Factory sealed unit – no external seals required. Installation is easy.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Three hubs on each end of fixture provide for straight-down mounting or at 45° to either side. Two close-up plugs furnished for each end of fixture.
- Explosionproof, impact-resistant and heat-resistant glass tubes protect lamps.
- Reflectors can easily be removed for replacement or cleaning using only a screwdriver.
- Appleton EFU fixtures are supplied with Class P ballasts, equipped with an automatic thermally activated protective device. They offer protection against excessive voltage, internal ballast short circuiting, inadequate lamp maintenance and improper fixture application.
- Non-sparking exterior surfaces for safer operation.

### Standard Materials

- Hood, housings and reflectors: copperfree (4/10 of 1% max.) aluminum
- Hood and housings: gray epoxy finish
- Reflectors: white baked enamel inside and gray epoxy outside

### Options

- Emergency battery pack. Suffix -EL.
- Fusing: ARS, AH and AVH fixtures supplied as standard with Class P ballasts with built-in protective device. Additional external fusing available at extra cost. Suffix -F.

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 65182



Explosionproof caps easily removed  
(shown with caps removed) for easy access.  
Allows quick wiring or relamping.

# EFU Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit Suitable for use in Wet Locations

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

	Lamp	Volts	Hub Size (Inches)	Temperature Rating	Supply Wire °C (°F)	Catalog Number ②
<b>Two Lamps</b>						
	<b>32 W</b>					
	Rapid Start	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	ARS232-BU ①
	T8 Bi-Pin					
	1.22 m (4') 265MA	347 V, 60 Hz	3/4	T-6	60 (140)	ARS232-347 ③①
	<b>40 W</b>					
	Rapid Start	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	ARS240-BU ①
	T12 Bi-Pin					
	1.22 m (4') 430MA	347 V, 60 Hz	3/4	T-6	60 (140)	ARS240-347 ③①
	<b>60 W</b>					
	Rapid Start High Output	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	AH260-BU
	T-12 Recessed Double Contact					
	1.22 m (4') 800MA	347 V, 60 Hz	3/4	T-6	60 (140)	AH260-347 ③
	<b>110 W</b>					
	Rapid Start VHO-SHO	120 V, 60 Hz	3/4	T-6	60 (140)	AVH210-118
	T-12 Recessed Double Contact	277 V, 60 Hz	3/4	T-6	60 (140)	AVH210-277
	1.22 m (4') 1500MA	347 V, 60 Hz	3/4	T-6	60 (140)	AVH210-347 ③
<b>Three Lamps</b>						
	<b>32 W</b>					
	Rapid Start	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	ARS332-BU ①
	T8 Bi-Pin					
	1.22 m (4') 265MA	347 V, 60 Hz	3/4	T-6	60 (140)	ARS332-347 ③①
	<b>40 W</b>					
	Rapid Start	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	ARS340-BU
	T12 Bi-Pin					
	1.22 m (4') 430MA	347 V, 60 Hz	3/4	T-6	60 (140)	ARS340-347 ③
	<b>60 W</b>					
	Rapid Start High Output	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	AH360-BU
	T-12 Recessed Double Contact					
	1.22 m (4') 800MA	347 V, 60 Hz	3/4	T-6	60 (140)	AH360-347 ③
<b>Four Lamps</b>						
	<b>32 W</b>					
	Rapid Start	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	ARS432-BU ①
	T8 Bi-Pin					
	1.22 m (4') 265MA	347 V, 60 Hz	3/4	T-6	60 (140)	ARS432-347 ③①
	<b>40 W</b>					
	Rapid Start	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	ARS440-BU
	T12 Bi-Pin					
	1.22 m (4') 430MA	347 V, 60 Hz	3/4	T-6	60 (140)	ARS440-347 ③
	<b>60 W</b>					
	Rapid Start High Output	120-277 V, 50/60 Hz	3/4	T-6	60 (140)	AH460-BU
	T-12 Recessed Double Contact					
	1.22 m (4') 800MA	347 V, 60 Hz	3/4	T-6	60 (140)	AH460-347 ③
	<b>110 W</b>					
	Rapid Start Very High Output	120 V, 60 Hz	3/4	T-6	60 (140)	AVH410-118
	T-12 Recessed Double Contact	277 V, 60 Hz	3/4	T-6	60 (140)	AVH410-277
	1.22 m (4') 1500MA	347 V, 60 Hz	3/4	T-6	60 (140)	AVH410-347 ③
<b>Protector for two-lamp fluorescent fixture</b>						
	Fits two lamp 1.22 m (4') fixtures only (ARS, AH and AVH series) UV stabilized polycarbonate					EFP248
	Wire guard— use 1 piece for 2 lamp fixtures, 2 pieces for 4 lamp fixtures (not available for 3 lamp fixtures)					ARSGUSS

NOTE: In paint spray areas, solvents and thinners may "cloud" the polycarbonate. Light transmission characteristics may be reduced.

① For Emergency Battery Pack, add suffix -EL.

② Fluorescent lamps are not included. Supplied with automatic resetting dual protected "Class P" ballast. For additional external fusing, add suffix -F.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# EFU Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

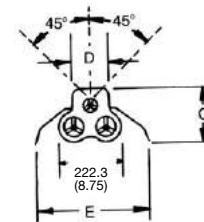
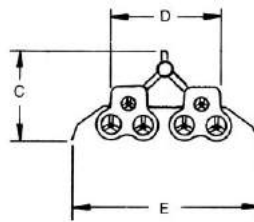
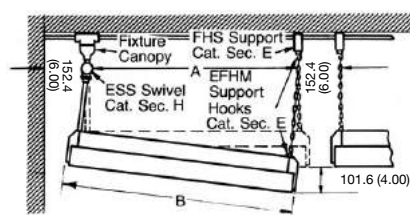
UNILETS® for use with Threaded Metal Conduit Suitable for use in Wet Locations

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

Lamps	Hz	Voltage	Operating Amps	Input Watts	Starting Temperature °C (°F)	Catalog Number
<b>32 W Rapid Start T-8 Bi-Pin 48" 265 mA</b>						
2	50/60	120-277	.52-.22	62-60	-18 (0)	ARS232-BU
2	60	347	.20	59	-18 (0)	ARS232-347 ①
3	50/60	120-277	.78-.33	93-93	-18 (0)	ARS332-BU
3	60	347	.30	86	-18 (0)	ARS332-347 ①
4	50/60	120-277	1.03-.43	124-120	-18 (0)	ARS432-BU
4	60	347	.40	118	-18 (0)	ARS432-347 ①
<b>40 W Rapid Start T-12 Bi-Pin 48" 430 mA</b>						
2	50/60	120-277	.70-.35	84-42	10 (50)	ARS240-BU
2	60	347	.30	96	10 (50)	ARS240-347 ①
3	50/60	120-277	.99-.45	114	10 (50)	ARS340-BU
3	60	347	.50	140	10 (50)	ARS340-347 ①
4	50/60	120-277	1.40-.70	168-84	10 (50)	ARS440-BU
4	60	347	.60	192	10 (50)	ARS440-347 ①
<b>60 W Rapid Start High Output T-12 Bi-Pin 48" 800 mA</b>						
2	50/60	120-277	1.05-.55	122-86	-29 (-20)	AH260-BU
2	60	347	.50	145	-29 (-20)	AH260-347 ①
3	50/60	120-277	1.54-.66	182	-29 (-20)	AH360-BU
3	60	347	.90	256	-29 (-20)	AH360-347 ①
4	50/60	120-277	2.10-1.10	244-172	-29 (-20)	AH460-BU
4	60	347	1.00	290	-29 (-20)	AH460-347 ①
<b>110 W Rapid Start VHO-SHO T-12 Bi-Pin 48" 1500 mA</b>						
2	60	120	2.60	300	-29 (-20)	AVH210-118
2	60	277	.98	250	-29 (-20)	AVH210-277
2	60	347	.90	250	-29 (-20)	AVH210-347 ①
4	60	120	5.20	600	-29 (-20)	AVH410-118
4	60	277	1.96	500	-29 (-20)	AVH410-277
4	60	347	1.80	500	-29 (-20)	AVH410-347 ①

### Dimensions in Millimeters (Inches)



No. of Lamps	A	B	C	D	E
2	1184.4 (46.63)	1332.0 (52.44)	222.3 (8.75)	139.7 (5.50)	381.0 (15.00)
3	1184.4 (46.63)	1332.0 (52.44)	222.3 (8.75)	139.7 (5.50)	489.0 (19.25)
4	1184.4 (46.63)	1332.0 (52.44)	290.6 (11.44)	355.6 (14.00)	596.9 (23.50)

① Certified to meet the Canadian Electrical Code (CEC) only.

# EFU Fluorescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

\* Data is based on F32 TB Rapid Start Lamps. For other lamps use the following multipliers: 60 W Cool White – 1.50; and 110 W VHO – 2.19. Candlepower distribution curves and other coefficients of utilization tables are available on request.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Photometric Data

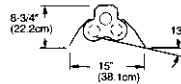
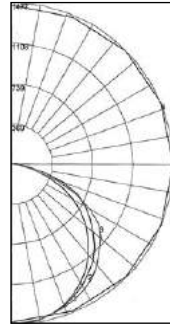
**Zone Lumens** Total Luminaire Efficiency = 78.6%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.28
90-270	1.36
Diagonal	1.44

**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0-30	1162.26	20.4	25.9
100-110	0.00	0.00	0.00
110-120	0.00	0.00	0.00
120-130	0.00	0.00	0.00
130-140	0.00	0.00	0.00
140-150	0.00	0.00	0.00
150-160	0.00	0.00	0.00
160-170	0.00	0.00	0.00
170-180	0.00	0.00	0.00



REPORT NUMBER: **ARS232**

Lamps: Two 32 W Explosionproof Fluorescent with Reflector \*

**Coefficients of Utilization – Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	% Walls	Rw	80	70	50	30	10	0
0	94	94	94	94	91	91	91	91
1	86	82	78	75	83	80	77	74
2	78	71	66	61	76	70	65	60
3	71	62	56	51	69	61	55	50
4	65	55	48	43	63	54	47	42
5	59	49	42	36	58	48	41	36
6	55	44	37	32	53	43	36	32
7	51	40	33	28	49	39	32	28
8	47	36	29	25	46	36	29	25
9	44	33	27	22	43	33	26	22
10	41	31	24	20	40	30	24	20

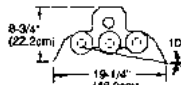
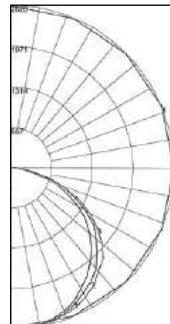
**Zone Lumens** Total Luminaire Efficiency = 96.8%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.26
90-270	1.38
Diagonal	1.46

**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0-30	2098.20	25.0	25.8
100-110	0.00	0.00	0.00
110-120	0.00	0.00	0.00
120-130	0.00	0.00	0.00
130-140	0.00	0.00	0.00
140-150	0.00	0.00	0.00
150-160	0.00	0.00	0.00
160-170	0.00	0.00	0.00
170-180	0.00	0.00	0.00



REPORT NUMBER: **ARS332**

Lamps: Three 32 W Explosionproof Fluorescent with Reflector \*

**Coefficients of Utilization – Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	% Walls	Rw	80	70	50	30	10	0
0	115	115	115	115	113	113	113	113
1	105	101	97	93	103	99	95	91
2	96	87	81	75	93	86	80	74
3	87	77	69	62	84	75	68	62
4	79	68	59	52	77	66	58	52
5	73	60	51	45	71	59	51	45
6	67	54	45	39	65	53	45	39
7	62	49	40	34	60	49	40	34
8	58	44	36	30	56	44	36	30
9	54	41	33	27	53	40	32	27
10	50	38	30	25	49	37	30	25

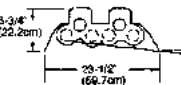
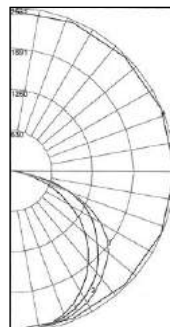
**Zone Lumens** Total Luminaire Efficiency = 70.9%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.28
90-270	1.42
Diagonal	1.48

**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0-30	2011.34	17.6	24.9
100-110	0.00	0.00	0.00
110-120	0.00	0.00	0.00
120-130	0.00	0.00	0.00
130-140	0.00	0.00	0.00
140-150	0.00	0.00	0.00
150-160	0.00	0.00	0.00
160-170	0.00	0.00	0.00
170-180	0.00	0.00	0.00



REPORT NUMBER: **ARS432**

Lamps: Four 32 W Explosionproof Fluorescent with Reflector \*

**Coefficients of Utilization – Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	% Walls	Rw	80	70	50	30	10	0
0	84	84	84	84	82	82	82	82
1	77	74	70	68	75	72	69	67
2	70	64	59	55	68	62	58	54
3	63	56	50	45	62	54	49	44
4	58	49	43	38	56	48	42	37
5	53	44	37	32	51	43	37	32
6	49	39	33	28	47	38	32	28
7	45	35	29	24	44	35	29	24
8	42	32	26	22	41	32	26	22
9	39	29	23	19	38	29	23	19
10	37	27	21	18	36	27	21	17

# PAPL Portable Two and Four Lamp Factory Sealed Fluorescent Luminaire

## Explosionproof, Dust-Ignitionproof

120 V. Suitable for Wet Locations and Paint Spray Booths. UL Listed for Horizontal use only.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D

### Applications

- Classified areas where ignitable gases and vapors, dusts, paint residue, paint powder, or corrosive atmospheres may be present, or where excessive moisture is a problem.
- Approved for using directly inside a paint-spray booth. Complies with NEC 516-3(c) and NFPA No. 33.
- Typical applications include aircraft manufacturing and maintenance facilities, refineries, chemical and petrochemical plants, textile mills, grain elevators and other grain-processing facilities, pharmaceutical plants, paint-spray areas, and where the permanent mounting of a fixture is not practical.
- UL approved for horizontal use only.

### Features

- Factory sealed fixture. No external seals needed for classified areas.
- Compact size. Uses two or four single-ended biaxial 40 W fluorescent lamps in a portable fixture. (2 lamp cart overall length is 978 mm (38-1/2 in), 4 lamp cart overall length is 1575 mm (62 in)).
- Gasketed end caps remove easily for wiring and relamping.
- Teflon-coated stainless steel wire guard supplied standard.
- Adjustable aluminum mounting frame allows fixtures to pivot at 45° increments in a 180° horizontal plane.
- 50' of 16-3 SOW cord with nonmetallic explosionproof plug prewired for 120 V.
- Static discharge wheels.
- Explosionproof, heat-resistant and impact-resistant glass tubes help protect the lamp.
- Cool-operating fluorescent lamps provide excellent color rendition and high lumen output per watt. Average lamp life is 20,000 hours.
- Corrosion resistant.
- Reflectors (optional) are designed for efficient distribution. Easily installed using only a screwdriver.
- Energy-saving Class P ballasts, with automatic thermally activated protective device.
- Fixture uses Appleton's ECP1523 Plug, which is UL Classified for use with Killark® UGR and Crouse-Hinds® ENR series receptacles, as well as Appleton's U-Line receptacles.

### Standard Materials

- End housing, cord grip and elbow: copperfree (4/10 of 1% max.) aluminum
- Housing hood, frame and optional reflectors: heavy gauge aluminum
- Wheels: static discharge rubber
- Guard: Teflon coated stainless steel
- Plug: aluminum

### Standard Finishes

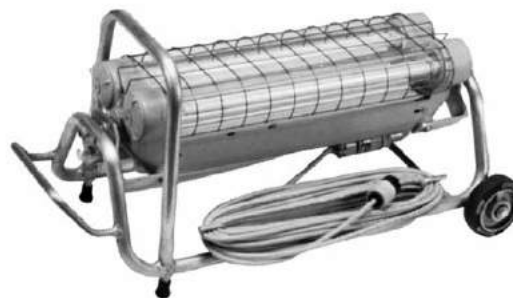
- End housings and hood: two-coat baked gray epoxy finish
- Reflector: white baked powder coat polyester
- Frame assembly: natural aluminum

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E59147
- CSA Standard: C22.2 No. 12, C22.2 No. 137
- cUL Listed: E59147



4-Lamp Luminaire



2-Lamp Luminaire


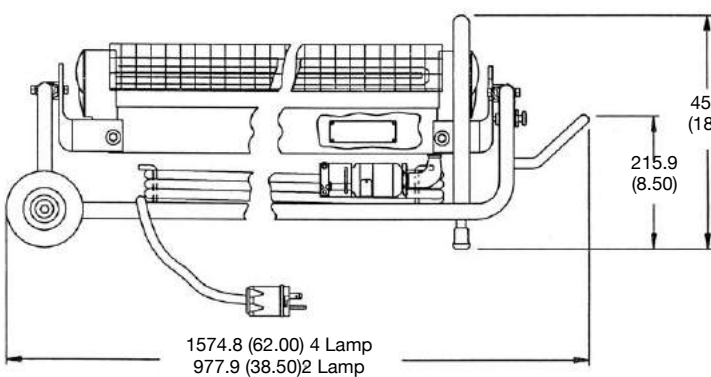
# PAPL Portable Two and Four Lamp Factory Sealed Fluorescent Luminaire

## Explosionproof, Dust-Ignitionproof

120 V. Suitable for Wet Locations and Paint Spray Booths. UL Listed for Horizontal use only.

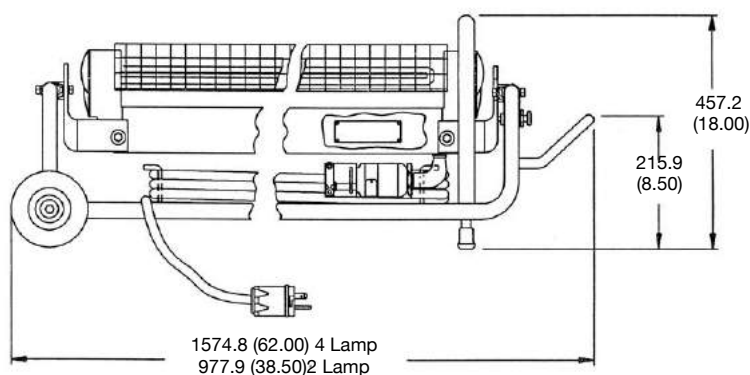
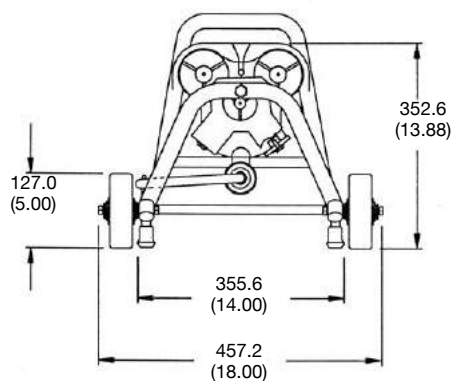
NEC/CEC:

Class I, Division 1 and 2, Groups C, D

	Lamps Included	Volts	Temperature Rating	Catalog Number
	<b>Two-Lamp Luminaires Less Reflector</b>			
	(2) 40 W F40BX	120	T6	PAPL240-120
	<b>Reflector Only</b>			
	Aluminum reflector with white powder coat polyester finish			APL2R
	<b>Four-Lamp Luminaires Less Reflector</b>			
	(4) 40 W F40BX	120	T6	PAPL440-120
	<b>Reflector Only</b>			
	Aluminum reflector with white powder coat polyester finish			APL4R

Two-Lamp Luminaire Illustrated

### Dimensions in Millimeters (Inches)



Appleton®

FLUORESCENT/AREA: NEC/CEC EXPLOSIONPROOF

# ATX™ FL Series Light Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 and 22

ATEX:  
Zone 2 and 22  
II 3 GD  
ATEX - IEC IP65/67

### Applications

- Light duty luminaire ideal for commercial and light industrial locations including hazardous areas designated as Zone 2 or 22 environments.
- Typical applications include oil refineries petrochemical plants, pulp and paper mills, tunnels and other light duty manufacturing locations.

### Features

- Utilizes two 26 mm (T8) bi-pin fluorescent lamps.
- Fiberglass reinforced polyester housing.
- Instant start 95% power factor ballast.
- Available in various lengths and wattages ranging from 18 to 58. Pre-impregnated fiberglass reinforced white polyester housing.
- Closing system using stainless steel clips.
- Electrostatically applied white powder painted steel reflector provides optimal lighting distribution.
- Poured-in-place elastomer gasket secures IP65/67 ingress protection.

### Standard Material

- Fiberglass reinforced polyester (FRP) housing
- Polycarbonate lens
- White powder painted sheet steel reflector
- Elastomer gasket
- Polycarbonate lampholders
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

### Options

- Available in 3 hours emergency version, including multi-tap ballast with built-in monthly self test. Test results through multi-colored LED.
- Plug-in battery pack is easy to remove for maintenance.
- Battery voltage is 6 volts and 4 Ah capacity.
- One fluorescent tube remains lit for up to 3 hours and up to 29% light intensity for 18 Watt, 15% for 36 Watt and 9% for 58 Watt.
- All emergency units supplied with cut off switch to battery when fixture is opened.

### ATEX Certifications and Compliances

- Certification Type: EFn (Standard Version) / EFn-EM (Emergency Version)
- Gas: Zone 2
  - Conforming to ATEX 94/9/CE: II 3 G
  - ATEX/IEC Protection: Ex nR II or Ex nA II
  - T Rating: T4 for nA protection mode. (T3 for 2x58W Version)

See temperature chart for nR protection mode

- Dust: Zone 22
  - Conforming to ATEX 94/9/CE: II 3 D
  - Type of Protection: Ex tD A22
  - Surface Temperature: (See table)
- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- CE Declaration of Conformity: 50213/50219
- ATEX Certificate EFn (Standard Version): LCIE 08.6005X
- ATEX Certificate EFn-EM (Emergency Version): LCIE 08.6063X
- Index of Protection (solid and liquid): IP65 / 67

### EURASEC Certification

- EURASEC N° TC RU C-FR.1505.B.00912



2 x 58 W



2 x 18 W

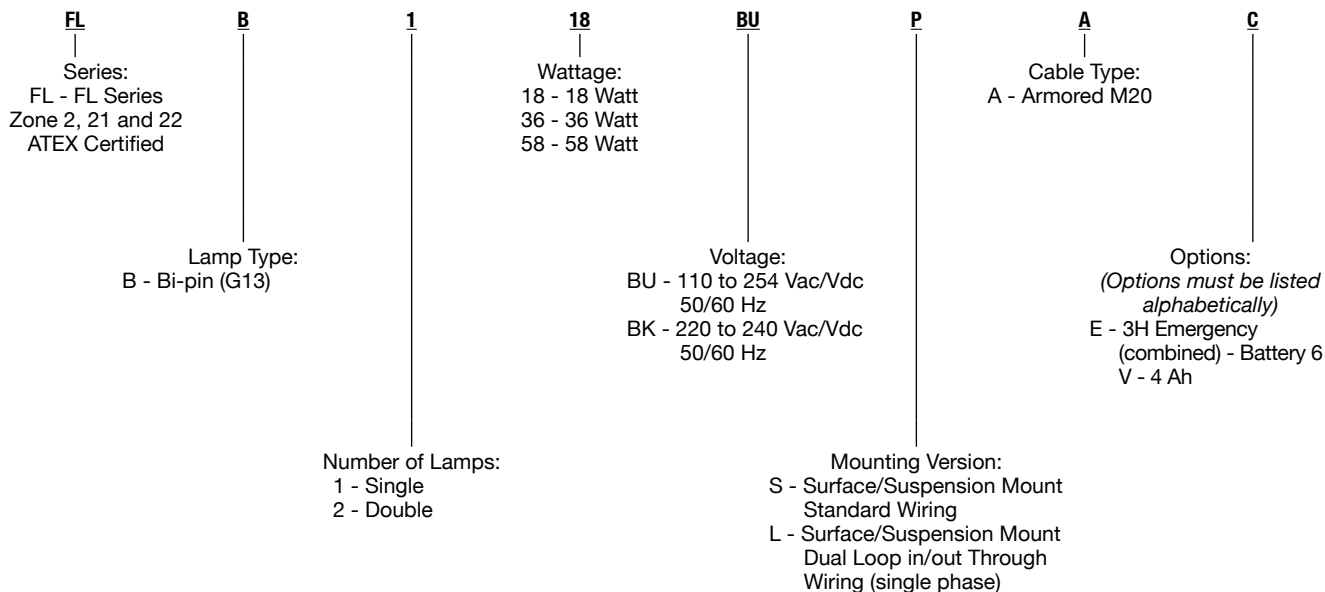
# ATX™ FL Series Light Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 and 22

ATEX:  
Zone 2 and 22  
II 3 GD  
ATEX - IEC IP65/67

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For FL Non-Metallic Fluorescent Lighting Fixtures



Temperature Chart

Version	Dust Surface Temperature	T Rating for Ta = 40° C (104° F)	Gas T Rating for Ta = 50° C (122° F)	T Rating for Ta = 55° C (131° F)
1 x 18 W	75°C (167°F)	T6	T6	T6
2 x 18 W		T6	T5	T5
1 x 36 W	83°C (181°F)	T6	T6	T5
2 x 36 W		T6	T6	T5
1 x 58 W	91°C (196°F)	T5	T5	T5
2 x 58 W		T5	T5	T5

# ATX™ FL Series Light Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 and 22

ATEX:  
Zone 2 and 22  
II 3 GD  
ATEX - IEC IP65/67

FLUORESCENT/AREA: ATEX/IECex STANDARD AND EMERGENCY BACK-UP

### Standard Version for Armored and Unarmored Cable

Supplied with one M20 cable entry at each end plus two locknuts, two earth continuity and one blanking plug.  
Also supplied with one 2 x 3 x 2.5 mm<sup>2</sup> (0.004 x 0.003 in<sup>2</sup>) max. flexible or rigid connection terminal block.

Number of Lamps	Watts	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Pack.	Catalog Number
1	18	220/240	2.3 (5.07)	22.3 (1360.83)	1	FLB118BKSA
2	18	220/240	2.3 (5.07)	22.3 (1360.83)	1	FLB218BKSA
2	18	110/254	2.3 (5.07)	22.3 (1360.83)	1	FLB218BUSA
1	36	220/240	2.8 (6.17)	38.0 (2318.90)	1	FLB136BKSA
1	36	110/254	2.8 (6.17)	38.0 (2318.90)	1	FLB136BUSA
2	36	220/240	3.6 (7.94)	38.0 (2318.90)	1	FLB236BKSA
2	36	110/254	3.6 (7.94)	38.0 (2318.90)	1	FLB236BUSA
1	58	220/240	3.4 (7.50)	45.0 (2746.07)	1	FLB158BKSA
1	58	110/254	3.4 (7.50)	45.0 (2746.07)	1	FLB158BUSA
2	58	220/240	4.4 (9.70)	45.0 (2746.07)	1	FLB258BKSA
2	58	110/254	4.4 (9.70)	45.0 (2746.07)	1	FLB258BUSA

### Emergency Version for Armored and Unarmored Cable


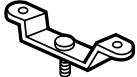



Supplied with one M20 entries with earth continuity at each end. Also supplied with two M20 locknuts and one blanking plug.  
Equipped with one 2 x (5 x 2.5 mm<sup>2</sup> / 0.008 x 0.003 in<sup>2</sup>) max. flexible or rigid connection terminal block

Number of Lamps	Watts	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Pack.	Catalog Number
2	18	110/254	4.5 (9.92)	22.3 (1360.83)	1	FLB218BUSAE
2	36	110/254	7.0 (15.4)	38.0 (2318.90)	1	FLB236BUSAE
2	58	110/254	7.5 (16.53)	45.0 (2746.07)	1	FLB258BUSAE

# ATX™ FL Series Light Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 and 22

ATEX:  
Zone 2 and 22  
II 3 GD  
ATEX - IEC IP65/67

	Description	Pack	Catalog Number
<b>Fixing Brackets</b>			
	Set of two brackets for surface installation		
	Zinc plated steel	1	FEFBZ
	316 stainless steel	1	FEFBS
<b>Brackets for Surface Mounting</b>			
	Set of two		
	Aluminum (gray painted)	1	FESBA
	316 stainless steel	1	FESBS
<b>M8 Ring Bolts</b>			
	Set of two		
	Zinc plated steel	1	FERBM8Z
<b>Half Clamps Brackets for Pole Mounting</b>			
	Set of two		
	Dia. 42 to 49 mm (1.65 to 1.93 in) pole (31.8 to 38.1 mm (1.25 to 1.5 in) tube)		
	Zinc plated steel	1	FEHC49Z
	316 stainless steel	1	FEHC49S
	Dia. 60 mm (2.36 in) pole (50.8mm (2 in) tube)		
	Zinc plated steel	1	FEHC60Z
	316 stainless steel	1	FEHC60S
<b>Hinged Brackets</b>			
	Set of two brackets for adjusting luminaire		
	Aluminum	1	FEHBA
	316 stainless steel	1	FEHBS
<b>Fall Prevention Kit</b>			
	1.20 M stainless steel chain	1	FDSCS

FLUORESCENT / AREA: ATEX / IECX STANDARD AND EMERGENCY BACK-UP

Appleton®

# ATX™ FL Series Light Duty Nonmetallic Fluorescent Luminaires

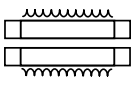
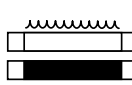

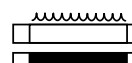
## Standard and Emergency Back-Up. Zone 2 and 22

ATEX:  
Zone 2 and 22  
II 3 GD  
ATEX - IEC IP65/67

FLUORESCENT/AREA: ATEX/IECEx STANDARD AND EMERGENCY BACK-UP

Appleton®

### Emergency Function Diagram — Emergency Function 2 Tubes

Mains	Lighting Switch ON	Lighting Switch OFF
Fluorescent Luminaire ON		
Fluorescent Luminaire OFF		

### Photometric Data

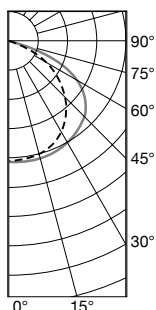
Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

--- Longitudinal  
— Transverse

1 x 18 W  
Efficiency 67.8%  
NF C 71-121: 0.58 H + 0.09 T

#### CANDELA DISTRIBUTION

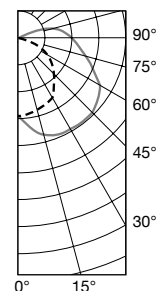
	0-180	90-270
0	142	142
5	142	142
10	139	140
15	135	135
20	130	132
25	123	128
30	113	126
35	102	128
40	90	132
45	78	136
50	66	134
55	54	131
60	43	129
65	33	119
70	23	110



2 x 18 W  
Efficiency 68.9%  
NF C 71-121: 0.60 H + 0.09 T

#### CANDELA DISTRIBUTION

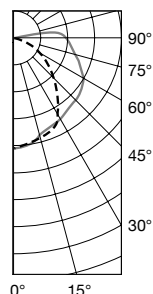
	0-180	90-270
0	116	116
5	115	119
10	113	133
15	110	150
20	105	156
25	100	157
30	94	158
35	88	159
40	81	158
45	74	157
50	65	152
55	55	145
60	45	137
65	35	128
70	25	114



2 x 36 W  
Efficiency 64.1%  
NF C 71-121: 0.57 H + 0.07 T

#### CANDELA DISTRIBUTION

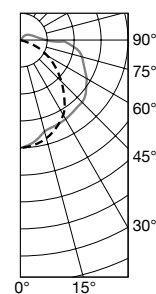
	0-180	90-270
0	163	163
5	162	162
10	160	159
15	155	145
20	149	140
25	142	139
30	132	139
35	120	138
40	104	134
45	80	133
50	60	129
55	50	125
60	40	120
65	31	108
70	23	95



2 x 58 W  
Efficiency 63.6%  
NF C 71-121: 0.56 H + 0.07 T

#### CANDELA DISTRIBUTION

	0-180	90-270
0	160	160
5	159	160
10	157	157
15	153	146
20	148	140
25	141	139
30	132	139
35	121	138
40	107	134
45	85	132
50	68	127
55	56	122
60	45	117
65	35	107
70	24	90



# ATX™ FN Series Heavy Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 - 21 and 22

ATEX/IECEX:  
Zone 2 - 21 and 22  
II 3 GD and II 2 D  
IP66/67 - IK10

### Applications

- Can be installed in hazardous areas designated as Zone 2, 21 and 22.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor/outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include oil refineries, petrochemical facilities, pulp and paper mills, food processing plants, warehouses, underground tunnels and general manufacturing facilities.

### Features

- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens.
- High impact resistance housing (20 Joules - IK10) from -40°C to +55 °C (-40° F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- Latch assembly and elastomer gasket seals against water and dust ingress, IP66/67.
- Easily accessed for maintenance using Allen key or straight blade screw driver.
- Central opening with unique patented release system to prevent damage.
- Hinged parabolic reflector for high lumen output efficiency.
- Vibration resistant spring loaded lampholders for Bi-pin (G13) or mono-pin (Fa6) versions.
- Electronic multi-tap ballast 110 to 254 Vac/Vdc +/- 10% 50/60 Hz, for global applications. High power factor electronic ballast (>0.95). EOL (End Of Life) protection in accordance to the latest EN/IEC 60079-7 standard.
- Also available with electronic ballast 220/240 Vac/Vdc +/- 10% 50/60 Hz. High power factor electronic ballast (>0.95). EOL.
- Available in 3 hours emergency version, including multi-tap ballast with built-in monthly self test. Test results through multi-color LED.

### Standard Material

- Fiberglass reinforced polyester housing
- Polycarbonate lens
- Elastomer gasket
- Highly reflective white polycarbonate internal reflector
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

### Options

- Silicone coating for added protection in H<sub>2</sub>S hydrogen sulfide environments.
- Without safety switch.
- Level gauge light fitting.
- 316 stainless steel fixing inserts.



2 x 58 W



2 x 36 W



2 x 18 W

### ATEX/IECEX Certifications and Compliances

- Certification Type: FLn
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: Ⓢ II 3 G
    - Type of Protection 'nA' : Ex nA IIC T6 Gc
    - Type of Protection 'nR' : Ex nR IIC T4 Gc
    - T-Rating: T6 (nA) or T4 (nR)
    - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F) ①
  - Dust: Zone 21
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T75 °C (T167 °F)
    - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) ①
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: II 3 D
    - Type of Protection: Ex t IIC Dc
    - Surface Temperature: T75 °C (T167 °F)
- Ambient Temperature: -20 °C to +55 °C (-40 °F to +131 °F) ①
- CE Declaration of Conformity: 50212
- ATEX Certificate Zone 2-22: LCIE 03 ATEX 6072
- ATEX Certificate Zone 21: LCIE 02 ATEX 6067
- IECEx Certificate Zone 2-22: IECEx LCI 04.0021
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK10

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC11.0815 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ FN Series Heavy Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 - 21 and 22

ATEX/IECEX:  
Zone 2 - 21 and 22  
II 3 GD and II 2 D  
IP66/67 - IK10

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For FN Non-Metallic Fluorescent Lighting Fixtures

FN	B	1	18	BU	P	A	C
Series: FN - FN Series Zones 2 and 22: ATEX/IECEX certified Zone 21: ATEX certified	Lamp Type: B - Bi-pin (G13) C - PL Compact Lamps (2G11) ②	Number of Lamps: 1 - Single 2 - Double 3 - Three Lamps	Wattage: 18 - 18 Watt 36 - 36 Watt 58 - 58 Watt 55 - 55 Watt 80 - 80 Watt	Voltage: BU - 110 to 254 Vac/Vdc 50/60 Hz BK - 220 to 240 Vac/Vdc 50/60 Hz	Mounting Version: P - Pole Mount ① S - Surface/Suspension Mount Standard Wiring T - Surface/Suspension Mount Through Wiring L - Surface/Suspension Mount Dual Loop in/out Through Wiring (single phase)	Cable Type: A - Armored M20 N - Unarmored M25 U - Unarmored M20	Options: (Options must be listed alphabetically) C - Silicon Coating for Diffuser E - 3H Emergency (combined) - Battery 6 V - 4 Ah N - No Switch ③ X - 4 Entries ④

① Only 2 x 18 W and 2 x 36 W with M25 entry versions.

② Only 55 W and 80 W standard versions.

③ Only for standard versions.

④ Only for S, T and L mounting versions.

# ATX™ FN Series Heavy Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 - 21 and 22

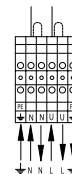
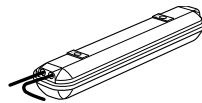
ATEX/IECEX:  
Zone 2 - 21 and 22  
II 3 GD and II 2 D  
IP66/67 - IK10

### Standard Version

#### Surface/Suspension Mounting and Standard Wiring Version

Connection via 1 x 6 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.006 in<sup>2</sup>/0.009 in<sup>2</sup>).



#### Unarmored Version - Bi-pin (G13)

Three M25 threaded entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland (dia. 8 to 18.5 mm (0.31 to 0.73 in)) and two M25 polyamide blanking plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	220/240	5.5 °C (12.13 °F)	32.3 (1971.07)	FNB218BKSNN
2	18	G13	110/254	5.5 °C (12.13 °F)	32.3 (1971.07)	FNB218BUSNN
2	36	G13	220/240	7.9 °C (17.42 °F)	54.2 (3307.49)	FNB236BKSNN
2	36	G13	110/254	7.9 °C (17.42 °F)	54.2 (3307.49)	FNB236BUSNN
2	58	G13	220/240	9 °C (19.84 °F)	65 (3966.54)	FNB258BKSNN
2	58	G13	110/254	11 °C (24.25 °F)	65 (3966.54)	FNB258BUSNN

#### Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 plugged clearance entry, supplied with two M20 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	220/240	5.5 °C (12.13 °F)	32.3 (1971.07)	FNB218BKSAN
2	18	G13	110/254	5.5 °C (12.13 °F)	32.3 (1971.07)	FNB218BUSAN
2	36	G13	220/240	7.9 °C (17.42 °F)	54.2 (3307.49)	FNB236BKSAN
2	36	G13	110/254	7.9 °C (17.42 °F)	54.2 (3307.49)	FNB236BUSAN
2	58	G13	220/240	9 °C (19.84 °F)	65 (3966.54)	FNB258BKSAN
2	58	G13	110/254	11 °C (24.25 °F)	65 (3966.54)	FNB258BUSAN

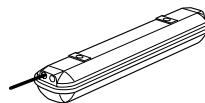
### Emergency Version

#### Surface/Suspension Mounting and Standard Wiring

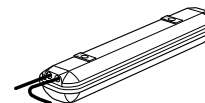
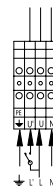
Connection via 1 x 4 terminals for 18 W version.

Connection via 1 x 8 terminals for 36 W and 58 W versions.

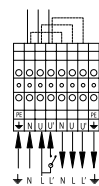
Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>.



18 W



36/58 W



#### Unarmored Version - Bi-pin (G13)

Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland (dia. 8 to 18.5 mm (0.31 to 0.73 in)) and two M25 polyamide blanking plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	G13	110/254	7.3 °C (16.09 °F)	32.3 (1971.07)	3 H	4 Ah	FNB218BUSNEN
2	36	G13	110/254	9.6 °C (21.16 °F)	54.2 (3307.49)	3 H	4 Ah	FNB236BUSNEN
2	58	G13	110/254	10.7 °C (23.59 °F)	65 (3966.54)	3 H	4 Ah	FNB258BUSNEN

#### Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 plugged clearance entry, supplied with two M20 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	G13	110/254	7.3 °C (16.09 °F)	32.3 (1971.07)	3 H	4 Ah	FNB218BUSAEN
2	36	G13	110/254	9.6 °C (21.16 °F)	54.2 (3307.49)	3 H	4 Ah	FNB236BUSAEN
2	58	G13	110/254	10.7 °C (23.59 °F)	65 (3966.54)	3 H	4 Ah	FNB258BUSAEN


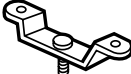


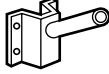

# ATX™ FN Series Heavy Duty Nonmetallic Fluorescent Luminaires

Standard and Emergency Back-Up. Zone 2 - 21 and 22

ATEX/IECEX:  
Zone 2 - 21 and 22  
II 3 GD and II 2 D  
IP66/67 - IK10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

Appleton®

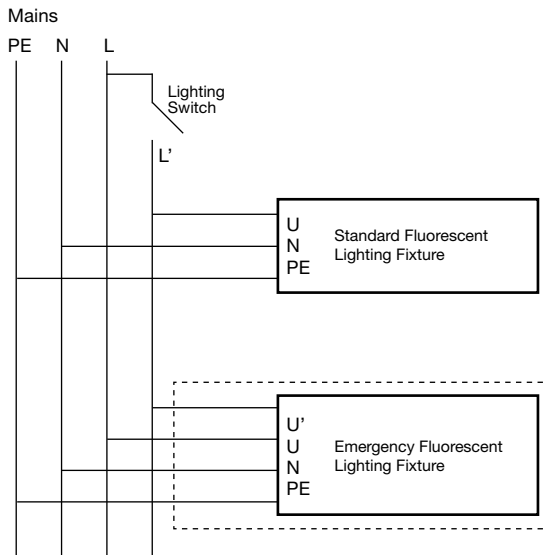
	Description	Pack	Catalog Number
<b>Fixing Brackets</b>			
	Set of two brackets for surface installation		
	Zinc plated steel	1	<b>FEFBZ</b>
	316 stainless steel	1	<b>FEFBS</b>
<b>Brackets for Surface Mounting</b>			
	Set of two		
	Aluminum (gray painted)	1	<b>FESBA</b>
	316 stainless steel	1	<b>FESBS</b>
<b>M8 Ring Bolts</b>			
	Set of two		
	Zinc plated steel	1	<b>FERBM8Z</b>
<b>Half Clamps Brackets for Pole Mounting</b>			
	Set of two		
	Dia. 42 to 49 mm (1.65 to 1.93") pole [31.8 to 38.1 mm (1.25 to 1.5 in) tube]		
	Zinc plated steel	1	<b>FEHC49Z</b>
	316 stainless steel	1	<b>FEHC49S</b>
	Dia. 2.36"/60 mm pole (50.8mm (2 in ) tube)		
	Zinc plated steel	1	<b>FEHC60Z</b>
	316 stainless steel	1	<b>FEHC60S</b>
<b>Wall Mounting Adaptor</b>			
	For pole mounting version (dia. 42 mm (1.65 in)		
	Galvanized steel	1	<b>FEWMG</b>
<b>Hinged Brackets</b>			
	Set of two brackets for adjusting luminaire		
	Aluminum	1	<b>FEHBA</b>
	316 stainless steel	1	<b>FEHBS</b>

# ATX™ FN Series Heavy Duty Nonmetallic Fluorescent Luminaires

Standard and Emergency Back-Up. Zone 2 - 21 and 22

ATEX/IECEX:  
Zone 2 - 21 and 22  
II 3 GD and II 2 D  
IP66/67 - IK10

## Wiring Diagram



## Emergency Function Diagram

### Two Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

### Three Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

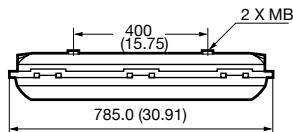
## LED Status

Color	Indication	Function
Green	LED glows	Batteries are connected
	LED blinks	Batteries are charged
Red	LED blinks	Batteries are not connected or defect
Yellow	LED blinks	Batteries are charging and discharging during automatic cycle

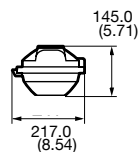
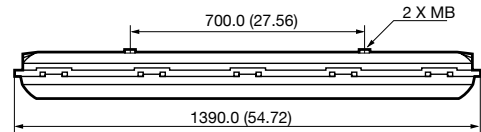
## Dimensions in Millimeters (Inches)

### Surface/Suspension Mounting

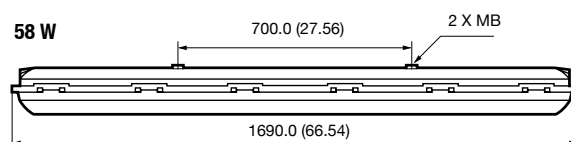
18 W



36 W



58 W



# ATX™ FN Series Heavy Duty Nonmetallic Fluorescent Luminaires

## Standard and Emergency Back-Up. Zone 2 - 21 and 22

ATEX/IECEX:  
Zone 2 - 21 and 22  
II 3 GD and II 2 D  
IP66/67 - IK10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Photometric Data

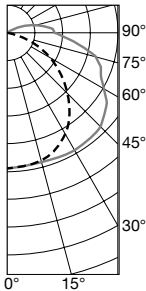
Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

--- Longitudinal  
— Transverse

2 x 18 W  
Efficiency 85.1%  
NF C 71-121: 0.78 H + 0.08 T

#### CANDELA DISTRIBUTION

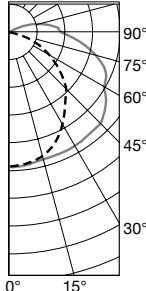
	0-180	90-270
0	195	195
5	195	194
10	192	192
15	187	192
20	181	193
25	173	194
30	163	194
35	152	193
40	138	192
45	124	191
50	108	182
55	91	176
60	73	163
65	55	150
70	37	145



2 x 36 W  
Efficiency 80.5%  
NF C 71-121: 0.73 H + 0.07 T

#### CANDELA DISTRIBUTION

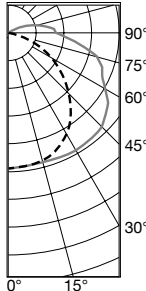
	0-180	90-270
0	185	185
5	185	184
10	182	182
15	178	181
20	172	183
25	164	183
30	154	183
35	143	183
40	131	183
45	117	179
50	102	173
55	85	166
60	68	155
65	51	145
70	35	141



2 x 58 W  
Efficiency 76.9%  
NF C 71-121: 0.70 H + 0.07 T

#### CANDELA DISTRIBUTION

	0-180	90-270
0	173	173
5	172	173
10	170	171
15	166	169
20	161	172
25	154	172
30	145	172
35	135	171
40	123	172
45	111	170
50	97	165
55	82	157
60	66	148
65	50	139
70	34	133



# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ⓢ II 2 GD  
IP66 - IK09/10

### Applications

- Designed for flush or surface mounting; most specifically clean room environments where a seamless smooth ceiling is mandatory.
- Typical applications include: the food industry, chemical plants, pharmaceuticals and delicate electronic manufacturing such as the aerospace industry.
- Ideal for use in rigorous corrosive environments, involving water, dust and extreme temperature variations.
- Can be installed in hazardous areas designated as Zone 1 and 2 - 21 and 22.

### Features

- One piece welded steel housing with integral frame to seal out contaminants.
- Allows recessed mounting in permanent ceilings from 55 mm to 130 mm (2.17 to 5.12 in).
- Frameless tempered 5 mm (1/4 in) thick lens. Lens secured to housing by internal metallic hinges and secured with captive 316L stainless steel screws, allowing for easy lamp replacement and fixture maintenance.
- Positive safety switch and Ex e battery with plug-in connector for safety and easy maintenance in hazardous locations.
- Designed for ease of installation and maintenance.
- Bi-pin G13 lampholder.
- Also available as surface mounting version.
- New ballast:
  - EOL (End Of Life) protection in accordance to the latest EN 60079-7 standard
  - Multi-tap 110 to 254 Vac/Vdc +/-10% 50/60 Hz
  - Two channel standard ballast (if one lamp fails the second lamp remains in operation)
  - Ex e plug-in connector for rapid and error free maintenance
  - Self test on 3 hours duration emergency version
  - High power factor electronic ballast (>0.95)
- Cable entries:
  - Three clearance holes for M20 cable gland supplied with M20 polyamide cable gland — cable diameter 6.5 to 14.5 mm (0.26 to 0.57 in) — and M20 polyamide blanking plug. See *Standard Cable Entry Accessories on following pages.*
  - One M6 earth stud.

### Standard Materials

- Housing and integral frame: one piece, welded steel
- Safety lens: 5 mm (0.20 in) thick tempered
- Gasket: silicone, 4 lips, completely sealed and contained in the fixture
- Internal reflector: white polycarbonate multi-parabolic
- Cable gland and blanking plug: polyamide

### Standard Finishes

- Housing and integral frame: white powder epoxy paint

### Options

- 3 hours emergency version - Battery 6 V - 4 Ah. Add suffix **-E**.
- 1 hour 30 emergency (combined) - Battery 6 V - 7 Ah. Add suffix **-E1**.
- 3H Emergency (combined) - Battery 6 V - 7 Ah. . Add suffix **-E7**.
- Without safety switch. Add suffix **-N**.
- White painted steel internal reflector. Add suffix **-P**.
- 316L stainless steel housing and integral frame, natural finish. Add suffix **-S**.



4 x 18 W Surface Mounting



2 x 36 W Recessed

### ATEX/IECEX Certifications and Compliances

- Certification Type: RE
  - Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
  - Type of Protection: Ex de IIC/ Ex demb IIC (emergency version)
  - T-Rating: T6 to T4 (See *Table on following page*)
- Dust: Zone 22
  - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
  - Type of Protection: Ex tD A21
  - Surface Temperature: T75 °C (T165 °F)
- Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F)
- CE Declaration of Conformity: 50276
- ATEX Certificate: LCIE 07 ATEX 6104
- IECEx Certificate: IECEx LCI 07.0019
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09 or IK10 depending on version

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC13.2672 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66 - IK09/10

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide — RE Series Recessed Fluorescent Luminaires

RE	B	1	18	BU	F	L	E
Series: RE - RE Series Zone 1 and 2 - 21 and 22 ATEX/IECEX Certified	Lamp Type: B - Bi-pin (G13)		Wattage: 18 - 18 Watt 36 - 36 Watt 58 - 58 Watt	Voltage: B3 - 100 to 130 Vac/ Vdc, 50/60 Hz BU - 110 to 254 Vac/ Vdc, 50/60 Hz BK - 220 to 240 Vac/ Vdc, 50/60 Hz		Termination/Wiring: L - Loop In/Loop Out T - Through wired ①	Options: E - 3H Emergency (combined) - Battery 6 V - 4 Ah E1 - 1 H 30 Emergency (combined) - Battery 6 V - 7 Ah E7 - 3H Emergency (combined) - Battery 6 V - 7 Ah N - No switch ② P - White painted steel internal reflector ③ S - 316L stainless steel housing
		Number of Lamps: 1 - Single 2 - Double 3 - Three Lamps 4 - Four Lamps			Mounting/Access: F - Recessed Front Access (U Shape) M - Surface Mounting Lighting		

① T/W and Loop in/Loop out - 3 cores (single phase).  
 ② Only for standard versions.  
 ③ As standard for 18 W emergency version and 4 lamp version.

# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09/10

### T Ratings

Version	Ambient Temperature					
	40 °C (104 °F)	Ceiling Position 50 °C (122 °F)	55 °C (131 °F)	40 °C (104 °F)	Wall Position 50 °C (122 °F)	55 °C (131 °F)
2 x 18 W ①	T6	T5	T5	T5	T5	T4
2 x 18 W Emergency ①	T5	T4	T4	T5	T5	T4
3 x 18 W	T5	T4	T4	T4	T4	T4
4 x 18 W	T5	T4	T4	T5	T4	T4
2 x 36 W ①	T5	T4	T4	T5	T4	T4
2 x 36 W Emergency ①	T5	T4	T4	T5	T4	T4
3 x 36 W	T4	T4	T4	T4	T4	T4
4 x 36 W	T5	T4	T4	T5	T4	T4
2 x 58 W ①	T4	T4	T4	T4	T4	T4
2 x 58 W Emergency ①	T4	T4	T4	T4	T4	T4
3 x 58 W	T4	T4	T4	T4	T4	T4
4 x 58 W	T4	T4	T4	T4	T4	T4

### Termination and Wiring

- Terminal capacity: 4 mm<sup>2</sup> (0.006 in<sup>2</sup>) flexible or 6 mm<sup>2</sup> (0.009 in<sup>2</sup>) solid.
- Loop in/Loop out: One terminal block ②
  - Standard version:  
2 (L) + 2 (N) + 2 (PE)
  - Emergency version:  
2 (LP) + 2 (L) + 2 (N) + 2 (PE)
- Through wired: Two terminal blocks (one at each end) ②
  - Standard version:  
2 (L) + 2 (N) + 2 (PE)  
1 (L) + 1 (N) + 1 (PE)
  - Emergency version:  
2 (LP) + 2 (L) + 2 (N) + 2 (PE)  
1 (LP) + 1 (L) + 1 (N) + 1 (PE)

### Standard Cable Entry Accessories

Version	Cable Gland	Blanking Plug	Nickel Plated Brass Locknut
Loop	1	1	3
Through	2	1	3

① T Rating for single lamp version is the same as twin lamp version.  
② PE: Earth; N: Neutral. L: Live. LP: Permanent Live for emergency version.

# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09/10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Recessed — 110/254 Vac/Vdc, 50/60 Hz — Front Access — White Painted Steel Housing



Version	Reflector	Wiring	Weight kg (lb)	Volume dm³ (in³)	Catalog Number ①②③④⑤⑥⑦
Standard Version — Bi-pin Lamps (G13)					
2 x 18 W	Polycarbonate	Loop	14 (30.86)	64 (3905.52)	REB218BUFL
		Through	14 (30.86)	64 (3905.52)	REB218BUFT
4 x 18 W	White Painted Steel	Loop	21 (46.30)	93 (5675.21)	REB418BUFLP
		Through	21 (46.30)	93 (5675.21)	REB418BUFTP
2 x 36 W	Polycarbonate	Loop	19 (41.89)	108 (6590.56)	REB236BUFL
		Through	19 (41.89)	108 (6590.56)	REB236BUFT
4 x 36 W	White Painted Steel	Loop	29 (63.93)	158 (9641.75)	REB436BUFLP
		Through	29 (63.93)	158 (9641.75)	REB436BUFTP
2 x 58 W	Polycarbonate	Loop	22 (48.50)	130 (7933.09)	REB258BUFL
		Through	22 (48.50)	130 (7933.09)	REB258BUFT
4 x 58 W	White Painted Steel	Loop	32 (70.55)	190 (11594.51)	REB458BUFLP
		Through	32 (70.55)	190 (11594.51)	REB458BUFTP
3 Hours Emergency Version — Bi-pin Lamps (G13)					
2 x 18 W	Polycarbonate	Loop	14 (30.86)	64 (3905.52)	REB218BUFLEP
		Through	14 (30.86)	64 (3905.52)	REB218BUFTEP
4 x 18 W	White Painted Steel	Loop	21 (46.30)	93 (5675.21)	REB418BUFLEP
		Through	21 (46.30)	93 (5675.21)	REB418BUFTEP
2 x 36 W	Polycarbonate	Loop	19 (41.89)	108 (6590.56)	REB236BUFLE
		Through	19 (41.89)	108 (6590.56)	REB236BUFTE
4 x 36 W	White Painted Steel	Loop	29 (63.93)	158 (9641.75)	REB436BUFLEP
		Through	29 (63.93)	158 (9641.75)	REB436BUFTEP
2 x 58 W	Polycarbonate	Loop	22 (48.50)	130 (7933.09)	REB258BUFLE
		Through	22 (48.50)	130 (7933.09)	REB258BUFTE
4 x 58 W	White Painted Steel	Loop	32 (70.55)	190 (11594.51)	REB458BUFLEP
		Through	32 (70.55)	190 (11594.51)	REB458BUFTEP

- ① For surface mounting lighting, replace letter **F** with letter **M** in the 9th position; example: REB218BUML.
- ② For 3 hours emergency version - Battery 6 V - 4 Ah, add suffix **E** to the end of the catalog number; example: REB218BUFLE.
- ③ For 1 hour 30 emergency (combined) - Battery 6 V - 7 Ah, add suffix **E1** to the end of the catalog number; example: REB218BUFL1.
- ④ For 3H Emergency (combined) - Battery 6 V - 7 Ah, add suffix **E7** to the end of the catalog number; example: REB218BUFL7.
- ⑤ For fixture without a safety switch, add suffix **N** to the end of the catalog number; example: REB218BUFLN.
- ⑥ For fixture with a white painted steel internal reflector, add suffix **P** to the end of the catalog number; example: REB218BUFLP.
- ⑦ For fixture with 316L stainless steel housing and integral frame and natural finish, add suffix **S** to the end of the catalog number; example: REB218BUFLS.

# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09/10

Accessories and Replacement Parts			
	Description	Weight kg (lb)	Catalog Number
<b>Fixing Brackets - Set of four</b>			
	Zinc plated steel	0.60 (1.32)	REFBST
	316 stainless steel	0.60 (1.32)	REFBSS
<b>Ceiling Mounting Brackets - Set of two</b>			
	Zinc plated steel	2.00 (4.41)	RECMST
	316 stainless steel	2.00 (4.41)	RECMSS
<b>M8 Eye Bolts - Set of four</b>			
	Zinc plated steel	0.25 (0.55)	REEBST
	316 stainless steel	0.25 (0.55)	REEBSS

FLUORESCENT / AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

 **Appleton**

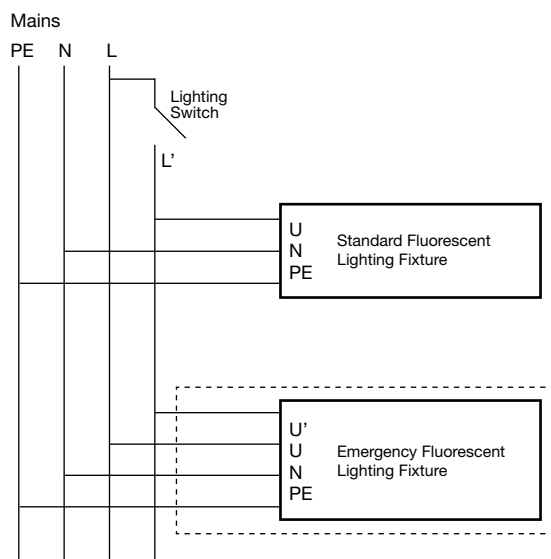
# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09/10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Wiring Diagram



### Emergency Function Diagram

#### Two Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

#### Three Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

### LED Status

Color	Indication	Function
Green	LED glows	Batteries are connected
	LED blinks	Batteries are charged
Red	LED blinks	Batteries are not connected or defect
Yellow	LED blinks	Batteries are charging and discharging during automatic cycle

### Emergency Light Duration

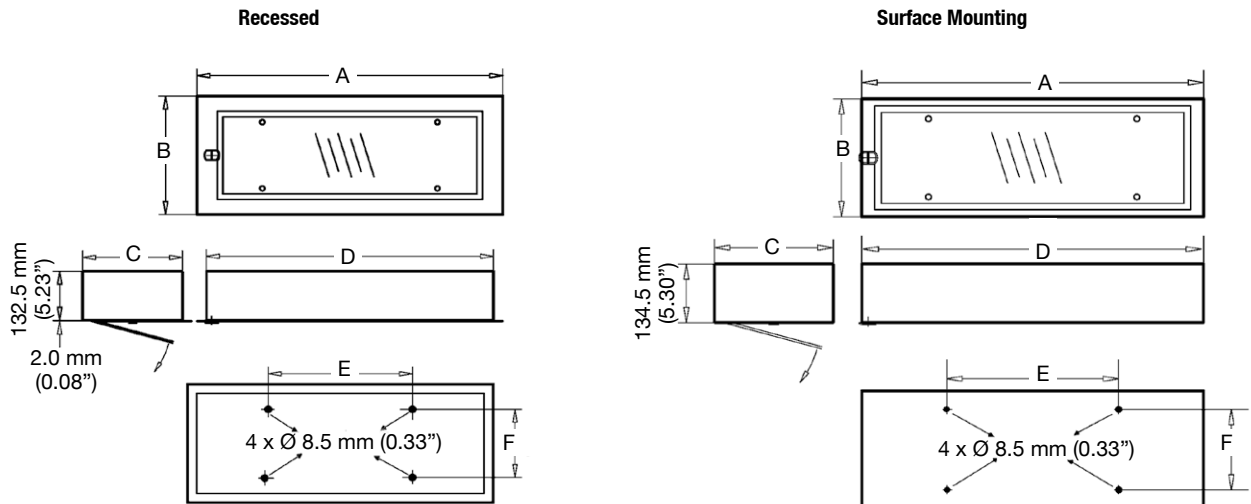
Version	Battery Capacity	Duration	Light Output
2 x 18 W	4 Ah – 6 V	3 hours	45%
	7 Ah – 6 V	3 hours	15%
2 x 36 W	4 Ah – 6 V	3 hours	25%
	7 Ah – 6 V	3 hours	9%
2 x 58 W	4 Ah – 6 V	3 hours	15%
	7 Ah – 6 V	3 hours	15%

# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

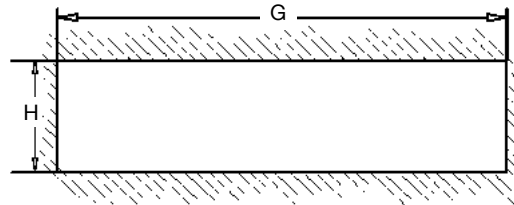
## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66 - IK09/10

### Dimensions in Millimeters (Inches)



### Ceiling Cut-out



Versions	A	B	C	D	E	F	G	H
18 W (1, 2, 3 lamps)	826 (32.52)	320 (12.60)	270 (10.63)	776 (30.55)	390 (15.35)	184 (7.24)	786 (30.94)	280 (11.02)
18 W (4 lamps)	826 (32.52)	490 (19.29)	440 (17.32)	776 (30.55)	390 (15.35)	354 (13.94)	786 (30.94)	450 (17.72)
36 W (1, 2, 3 lamps)	1436 (56.54)	320 (12.60)	270 (10.63)	1386 (54.57)	1000 (39.37)	184 (7.24)	1396 (54.96)	280 (11.02)
36 W (4 lamps)	1436 (56.54)	490 (19.29)	440 (17.32)	1386 (54.57)	1000 (39.37)	354 (13.94)	1396 (54.96)	450 (17.72)
58 W (1, 2, 3 lamps)	1736 (68.35)	320 (12.60)	270 (10.63)	1686 (66.38)	1300 (51.18)	184 (7.24)	1696 (66.77)	280 (11.02)
58 W (4 lamps)	1736 (68.35)	490 (19.29)	440 (17.32)	1686 (66.38)	1300 (51.18)	354 (13.94)	1696 (66.77)	450 (17.72)

FLUORESCENT / AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

Appleton

# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09/10

### Photometric Data

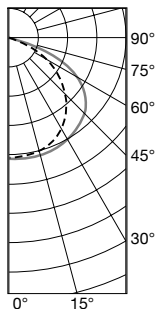
Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

--- Longitudinal  
— Transverse

1 x 18 W  
Efficiency 67.1%  
NF C 71-121: 0.67 E

#### CANDELA DISTRIBUTION

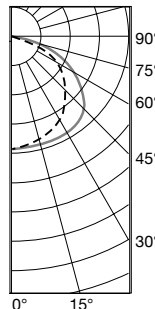
	0-180	90-270
0	209	209
5	208	208
10	205	208
15	201	207
20	194	205
25	186	203
30	176	201
35	164	197
40	151	192
45	136	185
50	120	177
55	102	164
60	83	141
65	63	115
70	43	77



2 x 18 W  
Efficiency 62%  
NF C 71-121: 0.62 E

#### CANDELA DISTRIBUTION

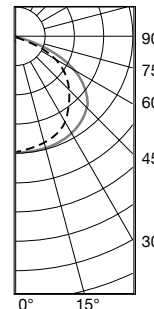
	0-180	90-270
0	205	205
5	204	203
10	202	203
15	197	202
20	191	201
25	182	201
30	173	200
35	161	192
40	148	183
45	133	177
50	117	173
55	99	168
60	80	168
65	61	163
70	41	154



3 x 18 W  
Efficiency 61.2%  
NF C 71-121: 0.61 E

#### CANDELA DISTRIBUTION

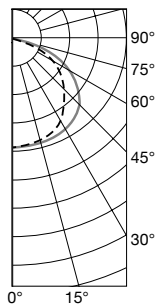
	0-180	90-270
0	201	201
5	200	201
10	197	201
15	193	200
20	187	197
25	179	195
30	169	192
35	158	189
40	145	181
45	131	170
50	115	155
55	98	132
60	80	107
65	61	80
70	41	53



2 x 18 W  
Efficiency 60.5%  
NF C 71-121: 0.60 F

#### CANDELA DISTRIBUTION

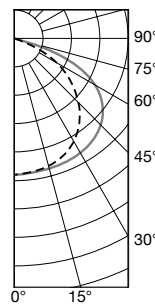
	0-180	90-270
0	196	196
5	195	196
10	193	195
15	189	195
20	183	193
25	175	191
30	166	187
35	155	182
40	143	174
45	129	162
50	114	147
55	98	131
60	79	109
65	60	85
70	40	62



4 x 18 W  
Efficiency 63.7%  
NF C 71-121: 0.63 E

#### CANDELA DISTRIBUTION

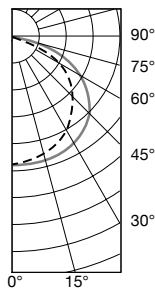
	0-180	90-270
0	194	194
5	193	194
10	191	195
15	186	195
20	181	193
25	173	192
30	164	190
35	153	185
40	141	179
45	128	171
50	113	160
55	96	146
60	78	127
65	60	106
70	40	82



4 x 36 W  
Efficiency 61.5%  
NF C 71-121: 0.61 E

#### CANDELA DISTRIBUTION

	0-180	90-270
0	190	190
5	289	190
10	287	190
15	183	189
20	177	188
25	170	186
30	162	182
35	151	178
40	139	172
45	126	163
50	111	152
55	96	138
60	78	121
65	60	102
70	42	80



# ATX™ RE Series Recessed and Surface Mounting Fluorescent Luminaires

## Standard and Emergency Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09/10

### Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

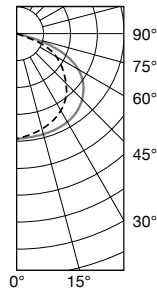
--- Longitudinal  
— Transverse

1 x 36 W  
Efficiency 64.4%  
NF C 71-121: 0.64 E

#### CANDELA DISTRIBUTION

0-180 90-270

0	196	196
5	195	196
10	192	196
15	188	194
20	182	192
25	174	189
30	165	188
35	154	185
40	152	181
45	129	176
50	114	170
55	97	159
60	80	143
65	61	116
70	43	76

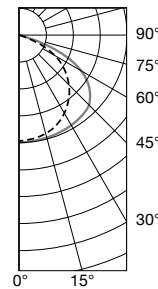


2 x 36 W  
Efficiency 64.8%  
NF C 71-121: 0.64 E

#### CANDELA DISTRIBUTION

0-180 90-270

0	198	198
5	197	198
10	194	198
15	190	197
20	184	196
25	176	195
30	167	195
35	156	194
40	144	191
45	130	184
50	115	172
55	98	154
60	80	129
65	62	101
70	43	72

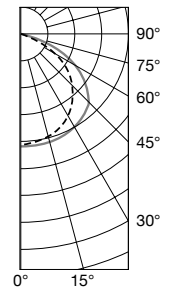


3 x 36 W  
Efficiency 63.7%  
NF C 71-121: 0.63 F

#### CANDELA DISTRIBUTION

0-180 90-270

0	207	207
5	207	208
10	204	208
15	199	206
20	193	204
25	185	202
30	175	200
35	164	196
40	151	189
45	136	178
50	120	162
55	103	139
60	84	112
65	65	83
70	45	55

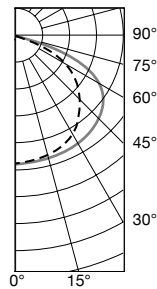


1 x 58 W  
Efficiency 64.9%  
NF C 71-121: 0.65 E

#### CANDELA DISTRIBUTION

0-180 90-270

0	189	189
5	188	189
10	187	188
15	184	187
20	181	186
25	176	185
30	170	185
35	162	184
40	150	180
45	136	175
50	119	169
55	102	162
60	83	146
65	63	122
70	43	85

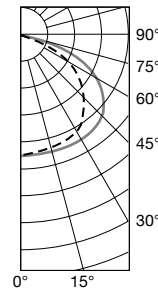


2 x 58 W  
Efficiency 61.8%  
NF C 71-121: 0.62 E

#### CANDELA DISTRIBUTION

0-180 90-270

0	182	182
5	182	183
10	181	183
15	178	182
20	174	182
25	170	182
30	164	181
35	156	181
40	145	178
45	131	172
50	116	162
55	99	148
60	81	126
65	52	99
70	43	70

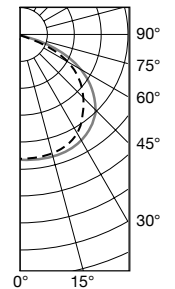


3 x 58 W  
Efficiency 57.8%  
NF C 71-121: 0.58 E

#### CANDELA DISTRIBUTION

0-180 90-270

0	185	185
5	185	185
10	183	185
15	181	184
20	177	182
25	172	180
30	166	178
35	159	174
40	147	168
45	133	158
50	118	144
55	100	125
60	82	101
65	63	75
70	43	49



FLUORESCENT / AREA: ATEX / IECEX STANDARD AND EMERGENCY BACK-UP

Appleton

# ATX™ FD Series Cylindrical Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ⓜ II 2 GD  
IP66/68

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Applications

- Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor/outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include:
  - Oil refineries
  - Petrochemical facilities
  - Pulp and paper, mills
  - Painting, sewage and water treatment facilities
  - Warehouses
  - Underground tunnels
  - General manufacturing facilities

### Features

- Impact resistant borosilicate glass sealed tube.
- Easy access to lamps through gray painted Zamak threaded entry cap.
- Supplied with O-ring for improved ingress protection.
- Corrosion-resistant gray painted Zamak.
- Supplied with energy efficient and self induction ferromagnetic ballast on a removable gear tray.
- Quick and easy installation of fluorescent lighting fixtures with 2G11 and G13 lamp holders.
- Supplied with external and internal ground/earth connection.
- Fixture supplied with one M20 blanking plug.
- Easy connection to wire and disconnect with plug-in terminal blocks.
- Bi-pin (G13) 18 and 36 W magnetic ballast versions operate at 70 °C (158°F) ambient temperature with T4 rating.
- Magnetic ballast versions 230 V 50 Hz or 240 V 50 Hz or 220 V 60 Hz or 230 V 60 Hz.
- Electronic ballast versions 110 to 254 Vac/Vdc, 50/60 Hz.
- 3 hour emergency version with automatic self test every month
- Plug in battery pack (6 V 4 Ah) is easy to remove for maintenance.

### Standard Materials

- End caps and cover: aluminum
- Glass tube: tempered borosilicate glass (18 W), or borosilicate glass (36 W and 58 W)
- Internal reflector: white powder coated galvanized steel
- Mounting accessories: several accessories in different material such as zinc plated steel, galvanized steel or 316 stainless steel

### Options

- 3 lamp versions.
- 8 W fluorescent (Bi-pin G5) available, see section HBDC series.



2 x 58 W



2 x 36 W



2 x 18 W

### ATEX/IECEX Certifications and Compliances

- Certification Type: FLd
  - Gas: Zone 1 and 2:
    - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
    - Type of Protection: Ex d IIB, Ex d IIB+H<sub>2</sub>, Ex d IIC
    - T-Rating: See Table on following page
  - Dust: Zone 21 and 22:
    - Conforming to ATEX 94/9/CE: Ⓜ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See Table on following page
- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- CE Declaration of Conformity: 50203
- ATEX Certificate: LCIE 97 ATEX 6012
- IECEx Certificate: IECEx LCI 04.0018
- Index of Protection according EN/IEC 60529: IP66/68
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00910

### Other Certification

- INMETRO Certificate: BVC11.0492 ①

### Related Products

- For labels see *Labels for Emergency Lighting Units*, *ATX Self-Adhesive Signaling Labels for Emergency Lighting Units*.

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ FD Series Cylindrical Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide — FD Series Cylindrical Fluorescent Luminaires

FD	B	1	18	BU	M	E
Series: FD - FD Series Zone 1 and 2 - 21 and 22 ATEX/IECEX Certified	Lamp Type: B - Bi-pin (G13) Fluorescent C - Compact Fluorescent (2G11) F - Bi-pin (G5) Fluorescent	Number of Lamps: 1 - Single 2 - Double 3 - Three Lamps	Wattage: 18 - 18 Watt 36 - 36 Watt 58 - 58 Watt	Voltage (50/60 Hz): Standard versions: AA - 220 Vac, 60 Hz XC - 230 Vac, 50 Hz X3 - 240 Vac, 50 Hz BU - 110 to 254 Vac/ Vdc, 50/60 Hz ②	Cable Entry: M - Metric M20 N - NPT 3/4"	Options: (Options must be listed alphabetically) E - 3h Emergency (combined) - Battery 6 V 4 Ah ②

T Rating (Gas) and Surface Temperature (Dust) Table

Model	Lamp Type	Gas – T Rating					Dust – Surface Temperature	
		Without External Reflector			With External Reflector		Without External Reflector	With External Reflector
		Ta = 40 °C (104 °F)	Ta = 55 °C (131 °F)	Ta = 70 °C (158 °F)	Ta = 40 °C (104 °F)	Ta = 55 °C (131 °F)		
0.3	Compact Fluorescent 2G11 18 W max.	T6	T5	N.A.	T5	T4	95 °C (203 °F)	130 °C (266 °F)
	a) Fluorescent G13 Magnetic Ballast 1 x 18 W/2 x 18 W	T6	T5	T4	T6	T5	97 °C (207 °F)	95 °C (203 °F)
0.6	b) Fluorescent G13 Electronic Ballast 1 x 18 W/2 x 18 W/3 x 18 W	T6	T6	N.A.	T6	T5	78 °C (172 °F)	95 °C (203 °F)
	c) Compact Fluorescent 2G11 1 x 36 W 2 x 36 W	T6	T5	N.A.	T6 T5	T4	95 °C (203 °F)	130 °C (266 °F)
1.2	a) Fluorescent G13 Magnetic Ballast 1 x 36 W/2 x 36 W/3 x 36 W	T6	T5	T4	T6	T5	110 °C (230 °F)	95 °C (203 °F)
	b) Fluorescent G13 Electronic Ballast 1 x 36 W/2 x 36 W/3 x 36 W	T6	T6	N.A.	T6	T6	78 °C (172 °F)	80 °C (176 °F)
1.5	a) Fluorescent G13 Magnetic Ballast 1 x 58 W/2 x 58 W	T6	T6	N.A.	T6	T5	80 °C (176 °F)	95 °C (203 °F)
	b) Fluorescent G13 Electronic Ballast 1 x 58 W/2 x 58 W/3 x 58 W	T6	T5	N.A.	T6	T5	84 °C (183 °F)	95 °C (203 °F)

② The 3 hour emergency version is only available on fluorescent, 2 lamp fixtures with BU voltage - 110 to 254 Vac/Vdc, 50/60 Hz.

# ATX™ FD Series Cylindrical Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Flameproof

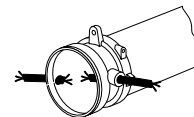
ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Ordering Information – Standard Versions

Two M20 threaded entries, supplied with one M20 aluminum blanking plug.  
Connection via 1 x 3 double deck terminals.  
Capacity (flexible/solid): 0.75 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (0.001 in<sup>2</sup> to 0.004 in<sup>2</sup>).

For Bi-pin (G13) Fluorescent Lamps - T8, 26 mm (1.02 in) or T12, 38 mm (1.50 in)  
230 V - 50 Hz – Magnetic Ballast – Starter Ignition  
Compensated power supply – power factor > 0.9



Wattage (W)	No. of Lamps	Gas Group	Model	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
18	1	IIC	0.6	9.0 (19.8)	58 (3539.38)	FDB118XCM
	2	IIC	0.6	9.7 (21.38)	58 (3539.38)	FDB218XCM
36	1	IIB+H <sub>2</sub>	1.2	14.7 (32.41)	99 (6041.35)	FDB136XCM
	2	IIB+H <sub>2</sub>	1.2	15.3 (33.73)	99 (6041.35)	FDB236XCM
58	1	IIB	1.5	17.0 (37.48)	119 (7261.83)	FDB158XCM
	2	IIB	1.5	18.2 (40.12)	119 (7261.83)	FDB258XCM

### 240 V - 50 Hz – Magnetic Ballast – Starter Ignition

Compensated power supply – power factor > 0.9

18	1	IIC	0.6	9.0 (19.8)	58 (3539.38)	FDB118X3M
	2	IIC	0.6	9.7 (21.38)	58 (3539.38)	FDB218X3M
36	1	IIB+H <sub>2</sub>	1.2	14.7 (32.41)	99 (6041.35)	FDB136X3M
	2	IIB+H <sub>2</sub>	1.2	15.3 (33.73)	99 (6041.35)	FDB236X3M
58	1	IIB	1.5	17.0 (37.48)	119 (7261.83)	FDB158X3M
	2	IIB	1.5	18.2 (40.12)	119 (7261.83)	FDB258X3M

### 220 V - 60 Hz – Magnetic Ballast – Starter Ignition

Compensated power supply – power factor > 0.9

18	2	IIC	0.6	9.7 (21.38)	58 (3539.38)	FDB218AAM
36	2	IIB+H <sub>2</sub>	1.2	15.3 (33.73)	99 (6041.35)	FDB236AAM
58	2	IIB	1.5	18.2 (40.12)	119 (7261.83)	FDB258AAM

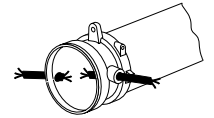
# ATX™ FD Series Cylindrical Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68

### Ordering Information – Standard Versions – Continued

Two M20 threaded entries, supplied with one M20 aluminum blanking plug.  
Connection via 1 x 3 double deck terminals.  
Capacity (flexible/solid): 0.75 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (0.001 in<sup>2</sup> to 0.004 in<sup>2</sup>).



For Bi-pin (G13) Fluorescent Lamps - T8, 26 mm (1.02 in) or T12, 38 mm (1.50 in)  
110 to 254 Vac/Vdc, 50/60 Hz – Electronic Ballast  
Power factor > 0.95

Wattage (W)	No. of Lamps	Gas Group	Model	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
18	2	IIC	0.6	9.7 (21.38)	58 (3539.38)	FDB218BUM
36	2	IIB	1.2	15.3 (33.73)	99 (6041.35)	FDB236BUM
	3	IIB	1.2	16.3 (35.94)	99 (6041.35)	FDB336BUM
	1	IIB	1.5	17.0 (37.48)	119 (7261.83)	FDB158BUM
58	2	IIB	1.5	18.2 (40.12)	119 (7261.83)	FDB258BUM
	3	IIB	1.5	19.2 (42.33)	119 (7261.83)	FDB358BUM

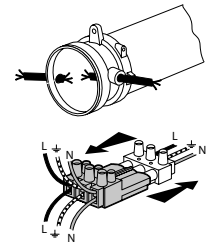
For 2G11 Compact Fluorescent Lamps – TC-L  
230 V - 50 Hz – Magnetic Ballast – Starter Ignition  
Compensated power supply – power factor > 0.9 – Lamps supplied

18	1	IIC	0.3	9.0 (19.8)	58 (3539.38)	FDC118XCM
	2	IIC	0.3	9.7 (21.38)	58 (3539.38)	FDC218XCM
36	1	IIB+H <sub>2</sub>	0.6	14.7 (32.41)	99 (6041.35)	FDC136XCM
	2	IIB+H <sub>2</sub>	0.6	15.3 (33.73)	99 (6041.35)	FDC236XCM

### Emergency Versions

Two M20 threaded entries, supplied with one M20 aluminum blanking plug.  
Connection via 1 x 4 double deck terminals.  
Capacity (flexible/solid): 0.75 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (0.001 in<sup>2</sup> to 0.004 in<sup>2</sup>).

For Bi-pin (G13) Fluorescent Lamps – T8, 26 mm (1.02 in) or T12, 38 mm (1.50 in)  
110 to 254 Vac/Vdc, 50/60 Hz – Electronic Ballast  
3 hour duration - battery pack 6 V 4 Ah - Power factor > 0.95 -  
Self test every month.



Wattage (W)	No. of Lamps	Gas Group	Model	Line Output	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
18	2	IIC	0.6	29%	11.6 (25.57)	58 (3539.38)	FDB218BUME
36	2	IIB	1.2	16%	17.2 (37.92)	99 (6041.35)	FDB236BUME
58	2	IIB	1.5	11%	20.2 (44.53)	119 (7261.83)	FDB258BUME

# ATX™ FD Series Cylindrical Fluorescent Luminaires



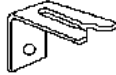


## Standard and Emergency Battery Back-Up. Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

Appleton®

### Accessories and Replacement Parts

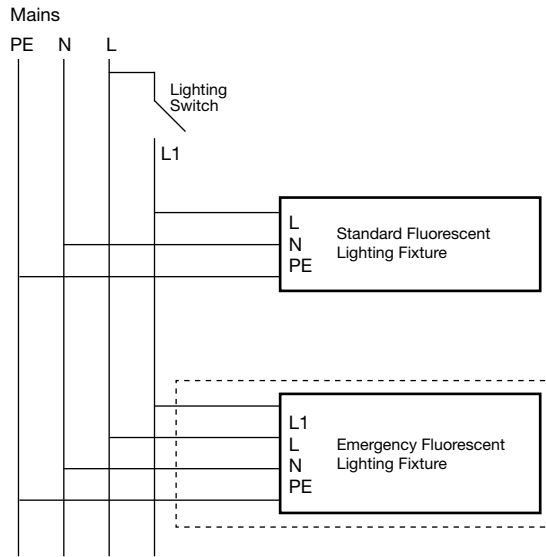
Description		Catalog Number
<b>External Reflector – White Painted Galvanized Steel</b>		
	Model 0.3	<b>FDER1G</b>
	Model 0.6	<b>FDER2G</b>
	Model 1.2	<b>FDER3G</b>
	Model 1.5	<b>FDER4G</b>
<b>Protective Guard – Zinc Plated Steel</b>		
	Model 0.3	<b>FDPG1Z</b>
	Model 0.6	<b>FDPG2Z</b>
	Model 1.2	<b>FDPG3Z</b>
	Model 1.5	<b>FDPG4Z</b>
<b>Fixing Brackets for Ease of Surface Installation – Set of Two</b>		
	Zinc plated steel	<b>FDFBZ</b>
	316 stainless steel	<b>FDFBS</b>
<b>Surface Mounting Brackets – Set of Two</b>		
	Zinc plated steel	<b>FDSBZ</b>
	316 stainless steel	<b>FDSBS</b>
<b>Half Clamp Brackets for Pole Mounting – Set of Two</b>		
	Pole diameter 42 to 49 mm (1.65 to 1.93 in) Tube diameter 31.8 to 38.1 mm (1.25 to 1.5 in)	
	Zinc plated steel	<b>FDHC49Z</b>
	316 stainless steel	<b>FDHC49S</b>
	Pole diameter 60 mm (2.36 in) Tube diameter 50.8 mm (2 in)	
	Zinc plated steel	<b>FDHC60Z</b>
	316 stainless steel	<b>FDHC60S</b>
<b>Fall Prevention Kit</b>		
	1.20 meter (3.94 foot) stainless steel chain	<b>FDSCS</b>

# ATX™ FD Series Cylindrical Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68

### Wiring Diagram



### Emergency Function Diagram

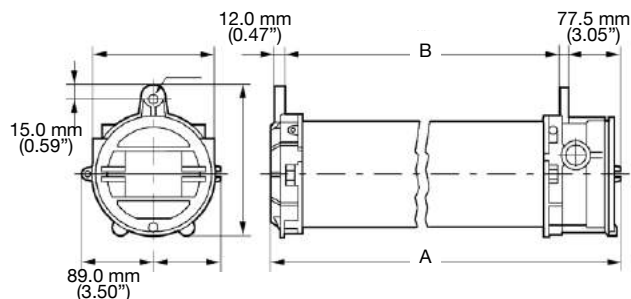
#### Two Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

### LED Status

Color	Indication	Function
Green	Blinking 1:1	Mains good, battery quick charging
	ON	Mains good, battery trickle charging
Red	Blinking 1:1	No battery connected or something is defective
	Flashing 1:1	Mains faulty, battery empty or lamp defective
	ON	Mains faulty, output ON
Yellow	OFF	No mains, battery completely empty
	Blinking 1:1	Mains good, performing self test
	ON	Result of self test was not good

### Dimensions in Millimeters (Inches)



Model	A	B
0.3	430 (16.93)	335 (13.19)
0.6	745 (29.33)	650 (25.59)
1.2	1365 (53.74)	1260 (49.61)
1.5	1655 (65.16)	1560 (61.42)

# ATX™ FD Series Cylindrical Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Photometric Data

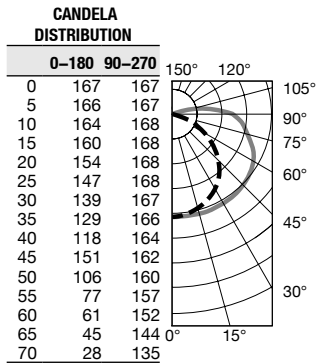
Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

--- Longitudinal  
— Transverse

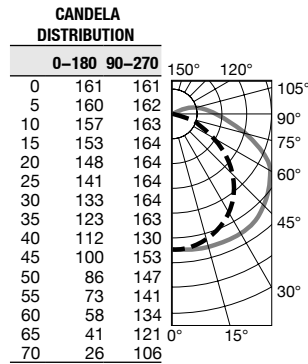
#### Bi-pin (G13) Fluorescent

#### 2G11 Compact Fluorescent

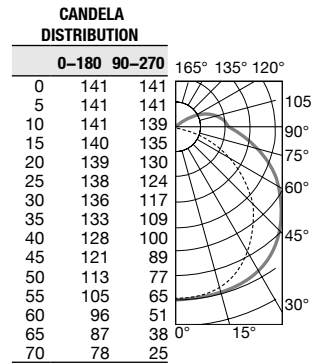
1 x 18 W  
Efficiency 75.3%  
NF C 71-121/0: 0.69 H + 0.06 T



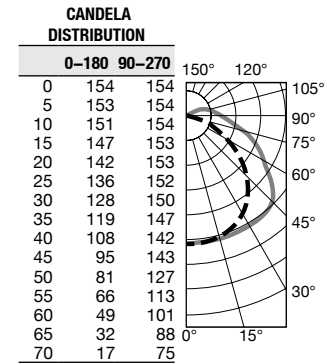
2 x 18 W  
Efficiency 68.1%  
NF C 71-121: 0.63 G + 0.06 T



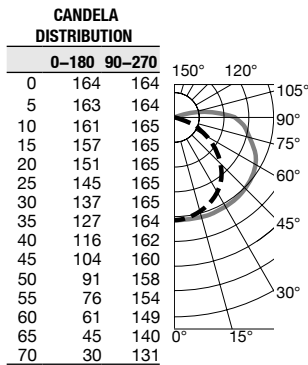
3 x 18 W  
Efficiency 57%  
NF C 71-121: 0.50 G + 0.07 T



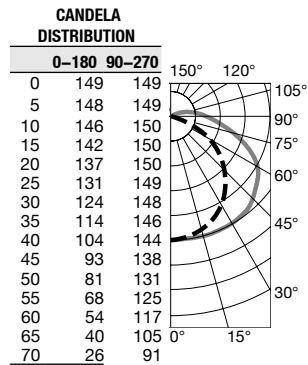
2 x 18 W  
Efficiency 56.2%  
NF C 71-121: 0.52 G + 0.04 T



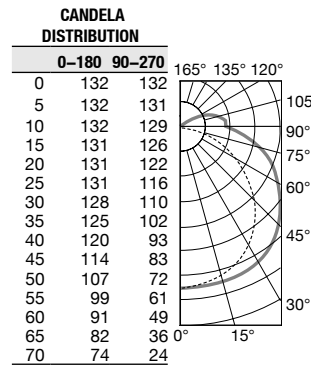
1 x 36 W  
Efficiency 74.3%  
NF C 71-121/0: 0.69 H + 0.05 T



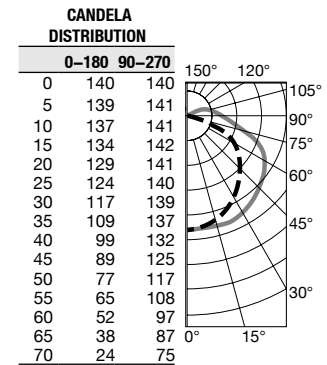
2 x 36 W  
Efficiency 61.5%  
NF C 71-121: 0.57 G + 0.04 T



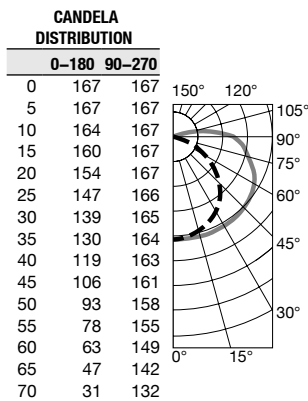
3 x 36 W  
Efficiency 53.3%  
NF C 71-121: 0.47 G + 0.06 T



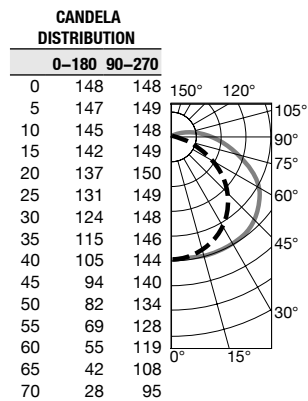
2 x 36 W  
Efficiency 53.6%  
NF C 71-121: 0.50 G + 0.04 T



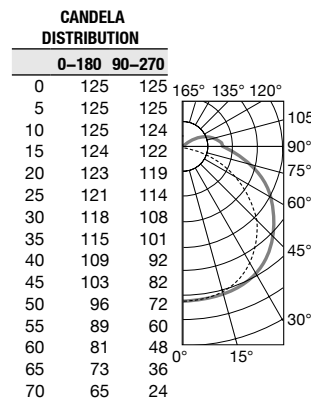
1 x 58 W  
Efficiency 74.5%  
NF C 71-121/0: 0.70 H + 0.05 T



2 x 36 W  
Efficiency 61.5%  
NF C 71-121: 0.57 G + 0.04 T



3 x 36 W  
Efficiency 53.3%  
NF C 71-121: 0.47 G + 0.06 T



# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ⓢ II 2 GD  
IP66/67 – IK10

### Applications

- Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor/outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include oil refineries, petrochemical facilities, pulp and paper mills, food processing plants, warehouses, underground tunnels and general manufacturing facilities.

### Features

- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens.
- High impact resistance housing (20 Joules – IK10) from -40 °C to +55 °C (-40 °F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- Latch assembly and elastomer gasket seals against water and dust ingress, IP66/67.
- Easily accessed for maintenance using Allen key or straight blade screwdriver.
- Central opening with unique patented release system to prevent damage.
- Can be horizontally or vertically mounted.
- Hinged parabolic reflector for high lumen output efficiency.
- Vibration resistant spring loaded lampholders for bi-pin (G13) or mono-pin (Fa6) versions.
- Positive safety switch disconnects power to lamps and ballast to allow maintenance in hazardous locations.
- Electronic multi-tap ballast 110 to 254 Vac/Vdc +/- 10% 50/60 Hz, for global applications. High power factor electronic ballast (>0.95). EOL (End Of Life) protection in accordance to the latest EN/IEC 60079-7 standard.
- Two channel ballast prevents dark areas by allowing one lamp to remain lit if one fails.
- Ballast plug-in with Ex e connector for quick and error-free maintenance.
- Available in 3 hour or 90 minute emergency versions, including multi-tap ballast with built-in monthly self test. Test results through multi-colored LED.
- Ex e battery with plug-in connector.

### Standard Materials

- Fiberglass reinforced polyester housing
- Polycarbonate lens
- Elastomer gasket
- Highly reflective white polycarbonate internal reflector
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

### Options

- Silicone coating for added protection in H<sub>2</sub>S hydrogen sulfide environments.
- ATEX/IEC version available without safety switch.
- Level gauge light fitting.
- 316 stainless steel fixing inserts.



2 x 58 W



2 x 36 W



2 x 18 W

### ATEX/IECEX Certifications and Compliances

- Certification Type: FLe
  - Gas: Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
    - Type of Protection: Ex de IIC or Ex demb IIC (emergency version)
    - T-Rating: T5 ② to T4
  - Dust: Zone 21 and 22:
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - Type of Protection: Ex t IIIC Db
    - Surface Temperature: +75 °C (+167 °F)
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50201
- ATEX Certificate: LCIE 07 ATEX 6017
- IECEX Certificate: IECEX LCI 04.0017
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK10

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00910

### Other Certification

- INMETRO Certificate: BVC11.0276 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

② With ceiling position use at +40 °C (+104 °F) ambient temperature.

# ATX™ FE Series Nonmetallic Fluorescent Luminaires

Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 - IK10

Order using catalog numbering guide below or select catalog number from tables on following pages.

## Catalog Numbering Guide — FE Nonmetallic Fluorescent Lighting Fixtures

FE	B	1	18	BU	P	A	C
Series: FE - FE Series Zone 1, 2, 21, 22 ATEX/IECEX Certified	Lamp Type: B - Bi-pin (G13) M - Mono Pin (Fa6)	Number of Lamps: 1 - Single 2 - Double 3 - Three Lamps	Wattage: 18 - 18 Watt 36 - 36 Watt 58 - 58 Watt	Voltage: BU - 110 to 254 Vac/ Vdc, 50/60 Hz	Mounting Version: P - Pole Mount ⑤ S - Surface/Suspension Mount Standard Wiring T - Surface/Suspension Mount Through Wiring L - Surface/Suspension Mount Dual Loop in/out Through Wiring (single phase)	Cable Type: A - Armored M20 N - Unarmored M25 U - Unarmored M20	Options: (options must be listed alphabetically) C - Silicon Coating for Diffuser E - 3 Hour Emergency Battery: 6 V - 4 Ah (18W) 6 V - 7 Ah (36W, 58W) E9 - 90 Minute Emergency Battery: 6 V - 4 Ah (18W) 6 V - 7 Ah (36W, 58W) L - Level Gauge Light Fitting ② N - No Switch ③ X - 4 Entries ④

② Only for single standard versions.

③ Only for standard versions.

④ Only for S, T and L mounting versions.

⑤ Only 2 x 18 W and 2 x 36 W with M25 entry versions.

# ATX™ FE Series Nonmetallic Fluorescent Luminares

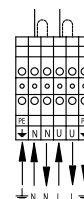
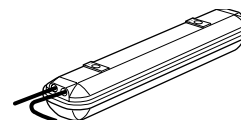
## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66/67 – IK10

### Surface/Suspension Mounting and Standard Wiring Version

Connection via 1 x 6 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup>  
 (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



### Unarmored Version - Bi-pin (G13)

Three M25 threaded entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter — and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
1	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB118BUSN
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB218BUSN
1	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB136BUSN
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB236BUSN
3	36	G13	110/254	9.9 (21.83)	54.2 (3307.49)	FEB336BUSN
1	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB158BUSN
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB258BUSN
3	58	G13	110/254	11.0 (24.30)	65.0 (3966.54)	FEB358BUSN

### Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 plugged clearance entry, supplied with two M20 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
1	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB118BUSA
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB218BUSA
1	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB136BUSA
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB236BUSA
3	36	G13	110/254	9.9 (21.83)	54.2 (3307.49)	FEB336BUSA
1	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB158BUSA
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB258BUSA
3	58	G13	110/254	11.0 (24.30)	65.0 (3966.54)	FEB358BUSA

FLUORESCENT / AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

Appleton

# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

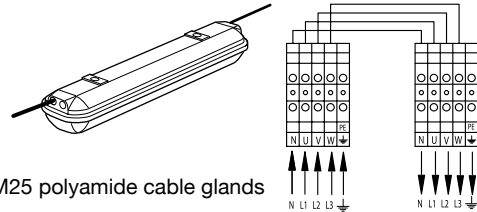
ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Surface/Suspension Mounting and Through Wiring Version (three phase)

Connection via 2 x 5 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



### Unarmored Version - Bi-pin (G13)

Three M25 threaded entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB218BUTN
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB236BUTN
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB258BUTN

### Armored Version - Bi-pin (G13)

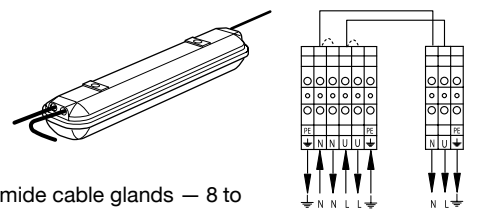
Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB218BUTA
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB236BUTA
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB258BUTA

### Surface/Suspension Mounting and Dual Loop In/Out Through Wiring Version (single phase):

Connection via 1 x 6 terminals and 1 x 3 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



### Unarmored Version - Bi-pin (G13)

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB218BULN
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB236BULN
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB258BULN

### Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB218BULA
2	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB236BULA
2	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB258BULA

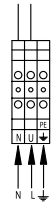
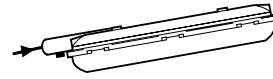
# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66/67 – IK10

### Pole Mounting Version

Connection via 1 x 3 terminals.  
 Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.  
 For mounting on 42 mm (1.65") diameter pole or tubular wall-mounting support, supplied with one integrated M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter.

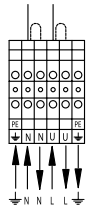
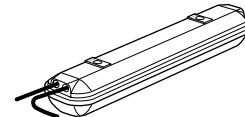


Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2	18	G13	110/254	6.2 (13.67)	34.1 (2080.91)	FEB218BUPN
2	36	G13	110/254	8.7 (19.18)	54.2 (3307.49)	FEB236BUPN

### Level Gauge Tank Light -

#### Surface/Suspension Mounting with Standard Wiring

Connection via 1 x 6 terminals.  
 Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



### Unarmored Version - Bi-pin (G13)

Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter — and two M25 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
1	18	G13	110/254	5.5 (12.13)	32.3 (1971.07)	FEB118BUSNL
1	36	G13	110/254	7.9 (17.42)	54.2 (3307.49)	FEB136BUSNL
1	58	G13	110/254	9.0 (19.84)	65.0 (3966.54)	FEB158BUSNL

FLUORESCENT / AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

Appleton

# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

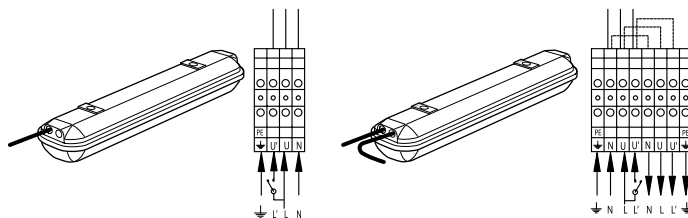
### Emergency Battery Backup

#### Surface/Suspension Mounting and Standard Wiring

Connection via 1 x 4 terminals for 18 W version.  
Connection via 1 x 8 terminals for 36 W and 58 W versions. Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.

#### Unarmored Version - Bi-pin (G13)

Three M25 entries, two at one end and one at opposite end, supplied with one M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter — and two M25 polyamide plugs.



Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	G13	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	FEB218BUSNE
2	36	G13	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	FEB236BUSNE
3	36	G13	110/254	11.6 (25.57)	54.2 (3307.49)	3 H	7Ah	FEB336BUSNE
2	58	G13	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BUSNE
3	58	G13	110/254	12.7 (28.00)	65.0 (3966.54)	3 H	7Ah	FEB358BUSNE

#### Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 plugged clearance entry, supplied with two M20 polyamide plugs.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	G13	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	FEB218BUSAE
2	36	G13	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	FEB236BUSAE
3	36	G13	110/254	11.6 (25.57)	54.2 (3307.49)	3 H	7Ah	FEB336BUSAE
2	58	G13	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BUSAE
3	58	G13	110/254	12.7 (28.00)	65.0 (3966.54)	3 H	7Ah	FEB358BUSAE

Appleton®

# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

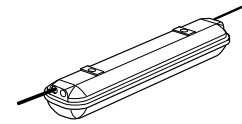
ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

### Emergency Battery Backup

#### Surface/Suspension Mounting and Through Wiring Version

Connection via 2 x 4 terminals.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



#### Unarmored Version - Bi-pin (G13):

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	FEB218BUTNE
2	36	Bi-pin	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	FEB236BUTNE
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BUTNE

#### Armored Version - Bi-pin (G13):

Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	7.3 (16.09)	32.3 (1971.07)	3 H	4Ah	FEB218BUTAE
2	36	Bi-pin	110/254	9.6 (21.16)	54.2 (3307.49)	3 H	7Ah	FEB236BUTAE
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BUTAE

FLUORESCENT / AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

Appleton

# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

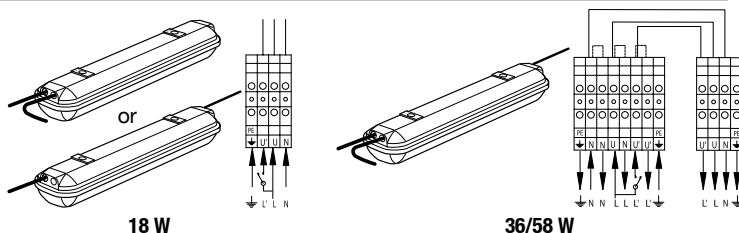
### Emergency Battery Backup

#### Surface/Suspension Mounting and Dual Loop In/Out Through Wiring Version (single phase)

Connection via 1 x 4 double deck terminals for 18 W version.

Connection via 1 x 8 terminals and 1 x 4 terminals for 36 W and 58 W versions.

Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



#### Unarmored Version - Bi-pin (G13)

Three M25 entries, two at one end and one at opposite end, supplied with two M25 polyamide cable glands — 8 to 18.5 mm (0.31 to 0.73") diameter — and one M25 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	7.6 (16.76)	32.3 (1971.07)	3 H	4Ah	FEB218BULNE
2	36	Bi-pin	110/254	9.9 (21.83)	54.2 (3307.49)	3 H	7Ah	FEB236BULNE
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BULNE

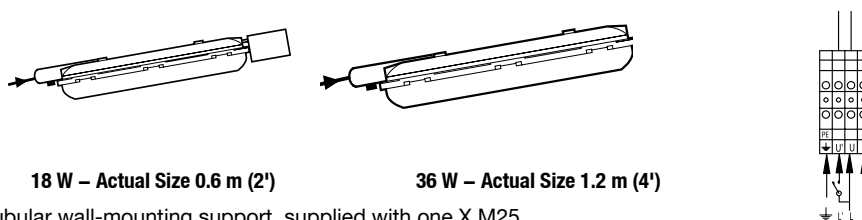
#### Armored Version - Bi-pin (G13)

Two M20 threaded entries with brass earth continuity plate at one end and one M20 threaded entry with brass earth continuity plate at opposite end, supplied with one M20 polyamide plug.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	7.6 (16.76)	32.3 (1971.07)	3 H	4Ah	FEB218BULAE
2	36	Bi-pin	110/254	9.9 (21.83)	54.2 (3307.49)	3 H	7Ah	FEB236BULAE
2	58	Bi-pin	110/254	10.7 (23.59)	65.0 (3966.54)	3 H	7Ah	FEB258BULAE

#### Pole Mounting Version

Connection via 1 x 4 terminals.  
Capacity (flexible/solid): 4 mm<sup>2</sup>/6 mm<sup>2</sup> (0.0062 in<sup>2</sup>/0.0093 in<sup>2</sup>) — 10/8 AWG.



For mounting on diameter 42 mm pole or tubular wall-mounting support, supplied with one X M25 polyamide cable gland — 8 to 18.5 mm (0.31 to 0.73") diameter.

Number of Lamps	Power (W)	Lamp Type	Voltage (V)	Weight kg (lbs)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Duration (Hours)	Battery Capacity	Catalog Number
2	18	Bi-pin	110/254	10.0 (22.05)	54.2 (3307.49)	3 H	4Ah	FEB218BUPNE ①
2	36	Bi-pin	110/254	10.4 (22.93)	54.2 (3307.49)	3 H	7Ah	FEB236BUPNE


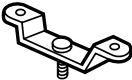


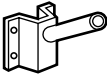


① 2 x 18 W is supplied with external battery pack (see dimensional data).

# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 - IK10

### Accessories and Replacement Parts

	Description	Catalog Number
<b>Fixing Brackets</b>		
	Set of two brackets for surface installation Zinc plated steel	<b>FEFBZ</b>
<b>Brackets for Surface Mounting</b>		
	Set of two 316 stainless steel	<b>FESBS</b>
<b>M8 Ring Bolts</b>		
	Set of two Zinc plated steel	<b>FERBM8Z</b>
<b>Half Clamps Brackets for Pole Mounting</b>		
	Set of two	
	Diameter for 1-1/4 to 1-1/2" pole: 42 mm (1.65 in) to 49 mm (1.93 in)	
	Zinc plated steel	<b>FEHC49Z</b>
	316 stainless steel	<b>FEHC49S</b>
	Diameter for 2" pole: 60 mm (2.36 in)	
	Zinc plated steel	<b>FEHC60Z</b>
	316 stainless steel	<b>FEHC60S</b>
<b>Wall Mounting Adaptor</b>		
	For pole mounting version Diameter for 2" pole: 60 mm (2.36 in) Galvanized steel	<b>FEWMG</b>
<b>Hinged Brackets</b>		
	Set of two brackets for adjusting luminaire	
	Aluminium	<b>FEHBA</b>
	316 stainless steel	<b>FEHBS</b>
<b>Fall Prevention Kit</b>		
	Safety chain retains fixture temporarily to ease installation	
	For M25 cable entry	<b>FESCM25</b>
	For M20 cable entry	<b>FESCM20</b>
<b>Adaptor for Fa8 Tube on Fa6 Lampholder</b>		
		<b>096905</b>

FLUORESCENT / AREA: ATEX / IECEx STANDARD AND EMERGENCY BACK-UP

 **Appleton**

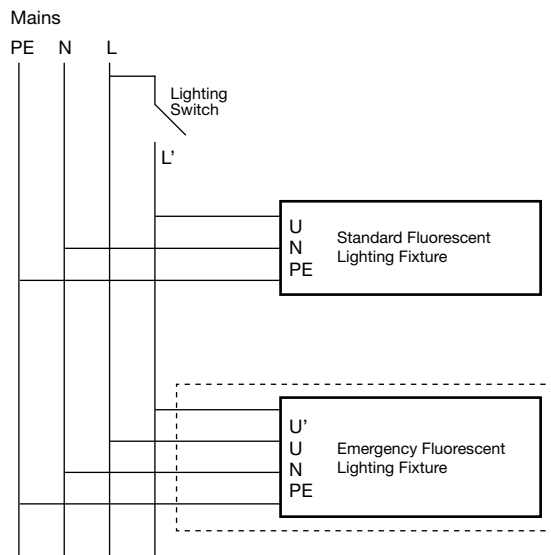
# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Wiring Diagram



### Emergency Function Diagram

#### Two Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

#### Three Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

### LED Status

Color	Indication	Function
Green	LED Blinking	Mains good – Battery quick charging
	LED Continuous	Mains good – Battery trickle charging
Red	LED Blinking	No battery connected <i>OR</i> Something is defective
	LED Continuous	Mains faulty – Output ON
	LED Flashing	Mains faulty – Battery empty <i>OR</i> Lamp is defective
Yellow	LED Blinking	Mains good – Performing self test
	LED Continuous	Self test was not okay
None (Off)	No Light Emitted	No mains – Battery completely empty

### Emergency Light Duration

Version	Battery Capacity	Duration	Light Output
2 x 18 W	4 Ah – 6 V	90 minute	80%
	4 Ah – 6 V	3 hour	40%
2 x 36 W	7 Ah – 6 V	90 minute	45%
	7 Ah – 6 V	3 hour	25%
2 x 58 W	7 Ah – 6 V	90 minute	30%
	7 Ah – 6 V	3 hour	15%

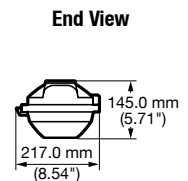
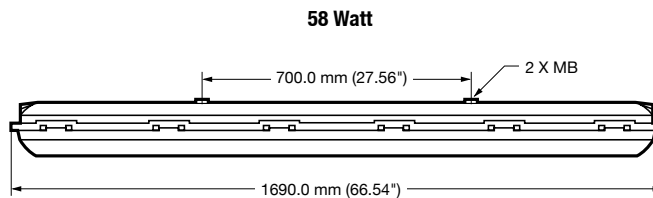
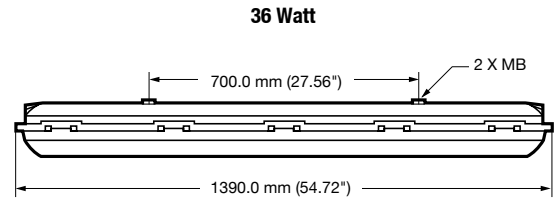
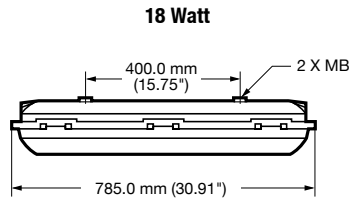
# ATX™ FE Series Nonmetallic Fluorescent Luminares

## Standard and Emergency Battery Back-Up. Increased Safety

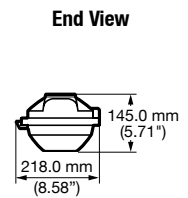
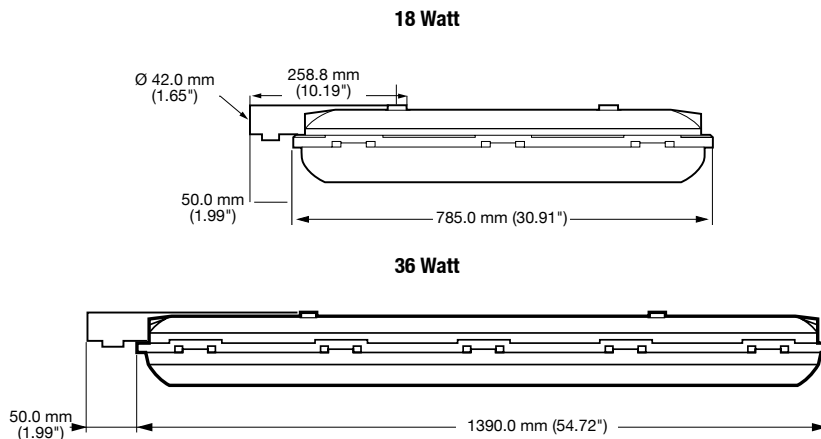
ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66/67 – IK10

### Dimensions in Millimeters (Inches)

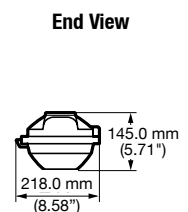
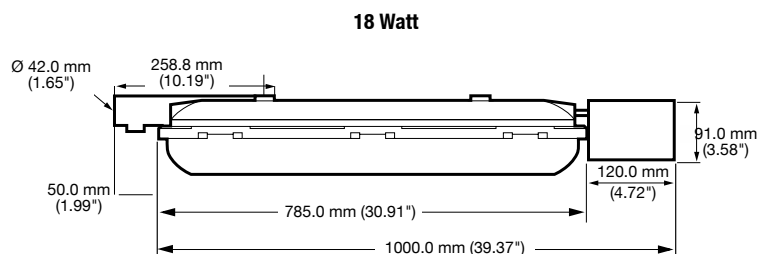
#### Surface/Suspension Mounting



#### Pole Mounting



#### Emergency Pole Mounting



# ATX™ FE Series Nonmetallic Fluorescent Luminaires

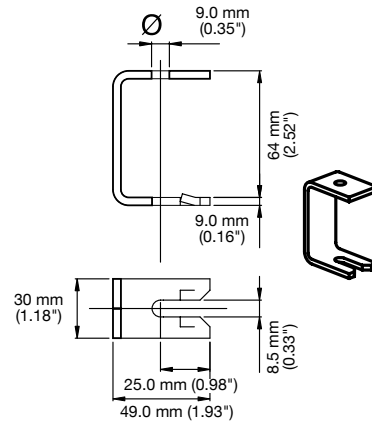
## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

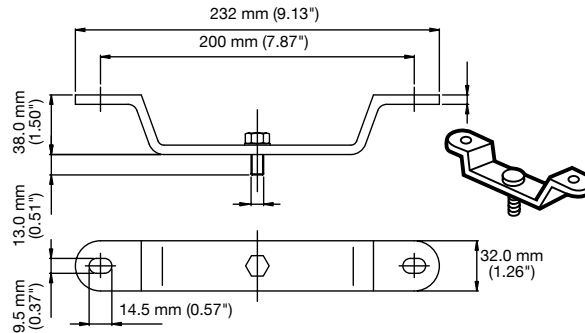
FLUORESCENT/AREA: ATEX/IECEX STANDARD AND EMERGENCY BACK-UP

### Mounting Data

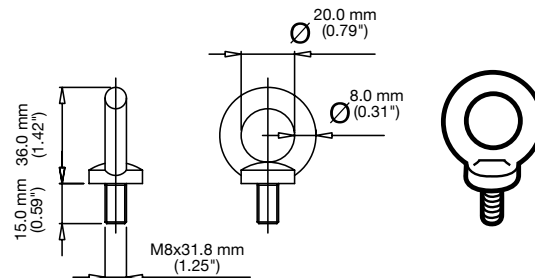
**FEFBZ:** zinc plated steel — Set of two quick fixing brackets for ease of surface mounting



**FESBS:** 316 stainless steel — Set of two brackets for surface mounting



**FERBM8Z:** zinc plated steel — Set of two ring bolts



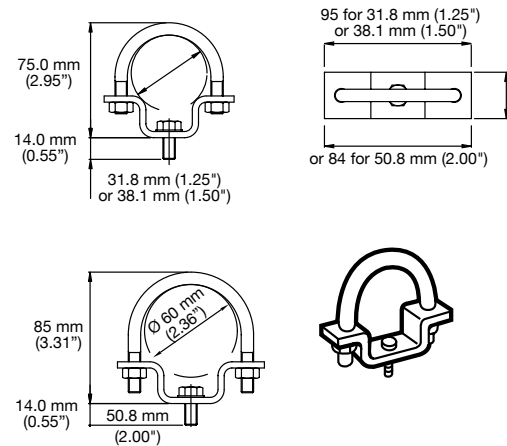
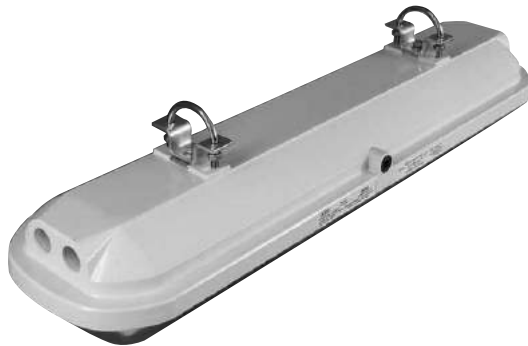
# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

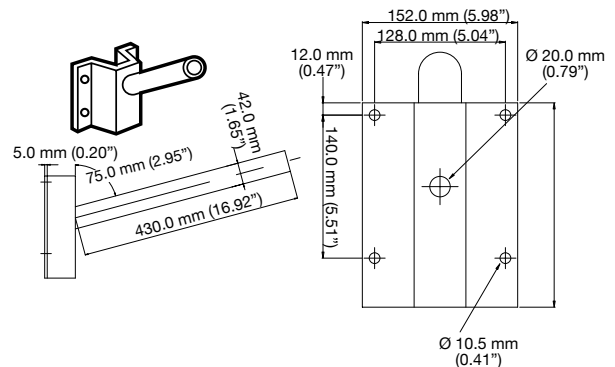
ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK10

### Mounting Data

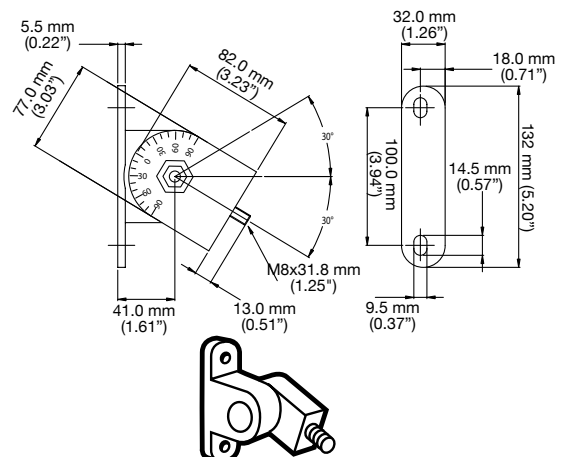
FEHC49Z: zinc plated steel or FEHC49S: 316 stainless steel — Set of two clamps for pole diameter 42 mm to 49 mm (for 1-1/4" to 1-1/2" pole).  
FEHC60Z: zinc plated steel or FEHC60S: 316 stainless steel — Set of two clamps for pole diameter 60 mm (for 2" pole).



FEWMG: galvanized steel — Wall mounting pole diameter 42 mm (1-1/4")



FEHBA: aluminum or FEHBS: 316 stainless steel — Set of two hinged brackets for adjusting luminaire.



# ATX™ FE Series Nonmetallic Fluorescent Luminaires

## Standard and Emergency Battery Back-Up. Increased Safety

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 - IK10

### Photometric Data

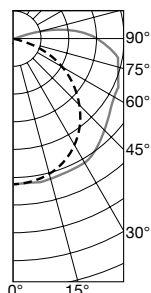
Polar curves for a 1000 lm flux, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

--- Longitudinal  
— Transverse

**1 x 18 Watt**  
TOTAL LUMINAIRE EFFICIENCY = 94.8%  
NF C 71-121: 0.86 H + 0.09 T

#### CANDELA DISTRIBUTION

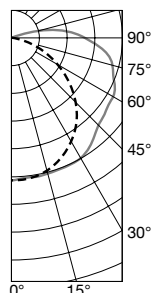
	0-180	90-270
0	215	215
5	214	214
10	211	215
15	207	213
20	200	211
25	191	209
30	181	208
35	169	202
40	155	196
45	139	187
50	122	181
55	103	175
60	83	174
65	62	173
70	42	165



**1 x 36 W**  
Efficiency 89.3%  
NF C 71-121: 0.81 H + 0.08 T

#### CANDELA DISTRIBUTION

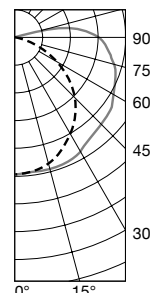
	0-180	90-270
0	205	205
5	204	203
10	202	203
15	197	202
20	191	201
25	182	201
30	173	200
35	161	192
40	148	183
45	133	177
50	117	173
55	99	168
60	80	168
65	61	163
70	41	154



**1 x 58 W**  
Efficiency 87.5%  
NF C 71-121: 0.80 H + 0.07 T

#### CANDELA DISTRIBUTION

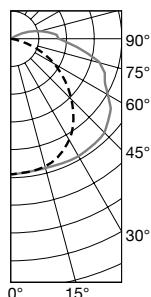
	0-180	90-270
0	198	198
5	197	197
10	194	198
15	190	197
20	184	195
25	176	194
30	166	193
35	155	187
40	142	180
45	128	174
50	113	170
55	96	167
60	78	163
65	59	157
70	41	151



**2 x 18 W**  
Efficiency 85.1%  
NF C 71-121: 0.78 H + 0.08 T

#### CANDELA DISTRIBUTION

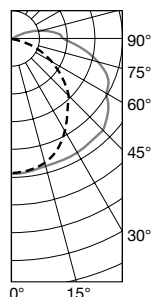
	0-180	90-270
0	195	195
5	195	194
10	192	192
15	187	192
20	181	193
25	173	194
30	163	194
35	152	193
40	138	192
45	124	191
50	108	183
55	91	176
60	73	163
65	55	150
70	37	145



**2 x 36 W**  
Efficiency 80.5%  
NF C 71-121: 0.73 H + 0.07 T

#### CANDELA DISTRIBUTION

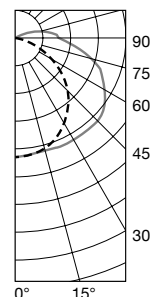
	0-180	90-270
0	185	185
5	185	184
10	182	182
15	178	181
20	172	183
25	164	183
30	154	183
35	143	183
40	131	183
45	117	179
50	102	173
55	85	166
60	68	155
65	51	145
70	35	141



**2 x 58 W**  
Efficiency 76.9%  
NF C 71-121: 0.70 H + 0.07 T

#### CANDELA DISTRIBUTION

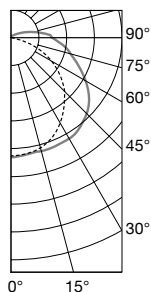
	0-180	90-270
0	173	173
5	172	173
10	170	171
15	166	169
20	161	172
25	154	172
30	145	172
35	135	171
40	123	172
45	111	170
50	97	165
55	82	157
60	66	148
65	50	139
70	34	133



**3 x 18 W**  
Efficiency 68.1%  
NF C 71-121: 0.63 G + 0.05 T

#### CANDELA DISTRIBUTION

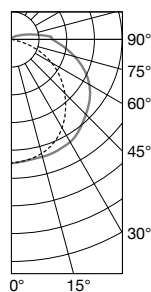
	0-180	90-270
0	173	173
5	172	172
10	169	170
15	135	169
20	160	169
25	153	168
30	144	167
35	135	162
40	123	158
45	110	153
50	96	146
55	82	136
60	66	123
65	50	111
70	34	100



**3 x 36 W**  
Efficiency 68.1%  
NF C 71-121: 0.63 G + 0.07 T

#### CANDELA DISTRIBUTION

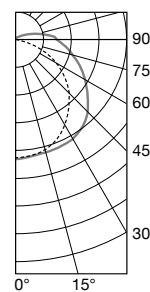
	0-180	90-270
0	174	174
5	174	174
10	171	173
15	167	171
20	162	171
25	155	170
30	146	168
35	136	163
40	125	159
45	112	153
50	98	145
55	83	135
60	67	123
65	51	110
70	35	100



**3 x 58 W**  
Efficiency 65.6%  
NF C 71-121: 0.61 H + 0.04 T

#### CANDELA DISTRIBUTION

	0-180	90-270
0	170	170
5	170	170
10	167	168
15	163	169
20	158	167
25	151	167
30	143	163
35	133	159
40	122	155
45	109	149
50	95	140
55	81	129
60	65	116
65	49	105
70	33	96



# ATX™ FDES Series Self-Contained Emergency Lighting Units

## Flameproof. Fluorescent

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ⓜ II 2 GD  
IP66/68 - IK08

### Applications

- Provides adequate lighting and/or visual indication of access on exit routes during an emergency evacuation in a hazardous environment.
- Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.
- Typical applications include oil refineries, petrochemical plants, pulp and paper mills.

### Features

- Power supply from 110 to 240 Vac 50/60 Hz versions.
- 3-hour duration.
- Threaded access cover with O-ring seal.
- Operates in any position.
- 8 W Fluorescent (1 or 2 lamps supplied).
- Charge indicator by 1 red LED (life time over 10 years).
- Termination 3 or 4 x 2.5 mm<sup>2</sup> (0.005 or 0.006 x 0.004 in<sup>2</sup>) terminals.
- Supplied with two fixing lugs.

### Standard Materials

- End caps and cover: aluminum
- O-ring seal: Nitrile
- Lens: tempered borosilicate glass
- Fixing brackets: zinc plated steel or 316 stainless steel
- Accessories: white painted galvanized steel
- Guard: zinc plated steel

### ATEX/IECEX Certifications and Compliances

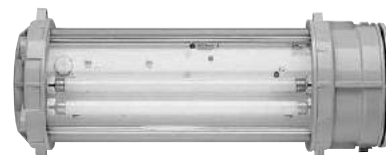
- Certification Type: FLd
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
    - Type of Protection: Ex d IIC
    - Temperature Class: T6
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: Ⓜ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T80 °C (T176 °F)
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50203
- ATEX Certificate: LCIE 97/ ATEX 6012
- IECEx Certificate: IECEx LCI 04.0018
- Index of Protection according EN/IEC 60529: IP66/68
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC11.0492 ①



2 x 8 W Fluorescent Sustained

FLUORESCENT/EMERGENCY: ATEX/IECEX INCREASED SAFETY

Appleton®

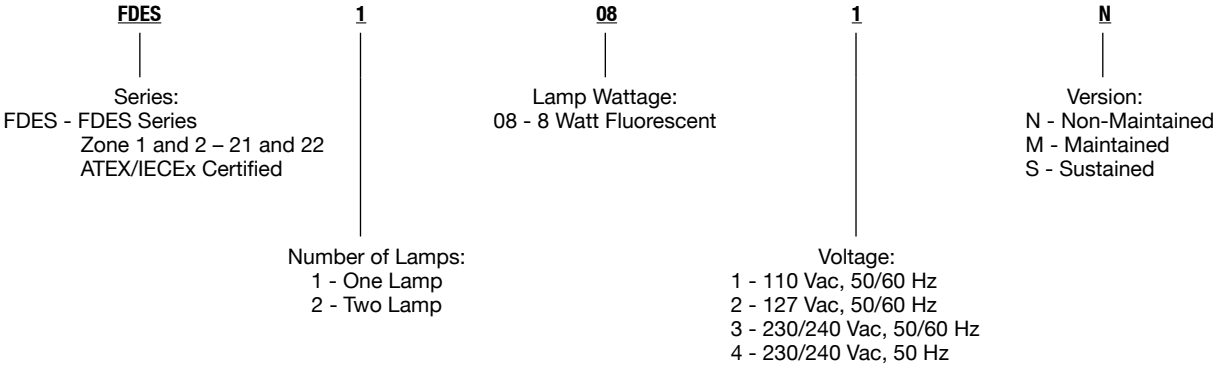
① Inmetro certification available on special request only. Contact your local sales representative for more information.

# **ATX™ FDES Series Self-Contained Emergency Lighting Units** **Flameproof. Fluorescent**

ATEX/IECEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66/68 - IK08

Order using catalog numbering guide below or select catalog number from tables on following pages.

**Catalog Numbering Guide — FDES Series Self-Contained Emergency Units**



3 Hour Duration — Two M20 Threaded Cable Entries With One M20 Blanking Plug

Type	Lumen Output	Voltage	Frequency	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
1 x 8 W Fluorescent Non-Maintained	230 lm	230/240 Vac	50/60 Hz	7.8 (17.20)	36 (2196.9)	<b>FDES1083N</b>
		127 Vac	50/60 Hz			<b>FDES1082N</b>
		110 Vac	50/60 Hz			<b>FDES1081N</b>
		220 Vac	60 Hz			—
1 x 8 W Fluorescent Maintained	180 lm	230/240 Vac	50/60 Hz	7.8 (17.20)	36 (2196.9)	<b>FDES1084M</b>
		127 Vac	50/60 Hz			<b>FDES1082M</b>
		110 Vac	50/60 Hz			<b>FDES1081M</b>
		220 Vac	60 Hz			—
2 x 8 W Fluorescent Sustained	230 lm	230/240 Vac	50 Hz	7.8 (17.20)	36 (2196.9)	<b>FDES2084S</b>
		220 Vac	60 Hz			—

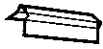





FLUORESCENT/EMERGENCY: ATEX/IECEX INCREASED SAFETY



# ATX™ FDES Series Self-Contained Emergency Lighting Units

## Flameproof. Fluorescent


ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68 - IK08

Accessories and Replacement Parts		
	Description	Catalog Number
	<b>Reflector</b> White painted galvanized steel	<b>FDER1G</b>
	<b>Protective Guard</b> Zinc plated steel	<b>FDPG1Z</b>
	<b>Fixing Brackets: Set of two for ease of surface installation</b> Zinc plated steel 316 stainless steel	<b>FDFBZ</b> <b>FDFBS</b>
	<b>Surface Mounting Brackets: Set of two</b> Zinc plated steel 316 stainless steel	<b>FDSBZ</b> <b>FDSBS</b>
	<b>Half Clamps: Set of two</b> Zinc plated steel versions: Diameter for 1-1/4 to 1-1/2" pole: 42 mm (16.65 in) to 49 mm (1.93 in) Diameter for 2" pole: 60 mm (2.36 in) 316 stainless steel versions: Diameter for 1-1/4 to 1-1/2" pole: 42 mm (16.65 in) to 49 mm (1.93 in) Diameter for 2" pole: 60 mm (2.36 in)	<b>FDHC49Z</b> <b>FDHC60Z</b>  <b>FDHC49S</b> <b>FDHC60S</b>
	<b>Spare Lamps</b> 8 W fluorescent G5	<b>LF008G5</b>
	<b>Fall Prevention Kit</b> 1.20 m (3.94 ft) stainless steel chain	<b>FDSCS</b>

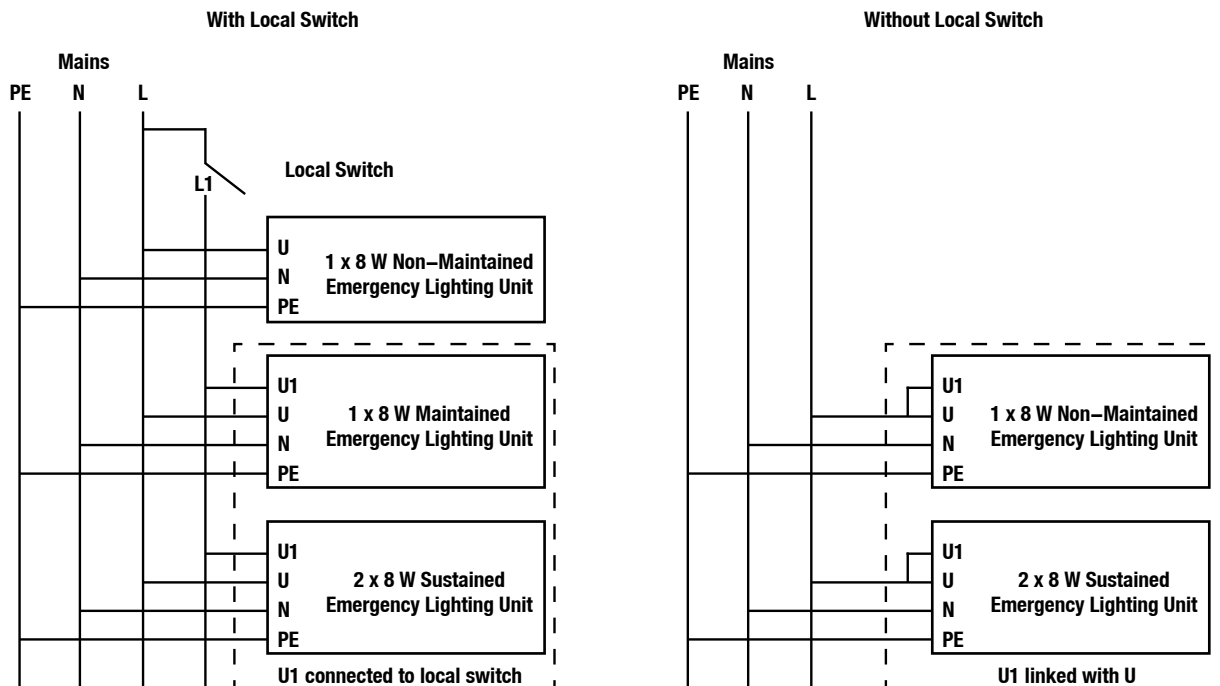
FLUORESCENT/EMERGENCY: ATEX/IECEX INCREASED SAFETY

 **Appleton**

## Flameproof. Fluorescent

**ATEX/IECEx:**  
Zone 1 and 2 - 21 and 22  
 II 2 GD  
IP66/68 - IK08

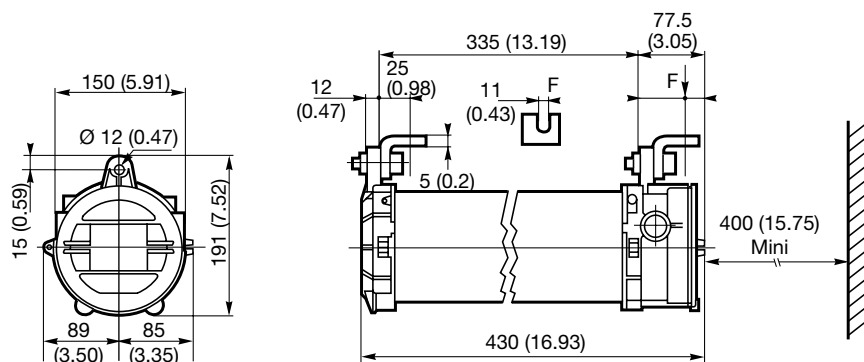
## Electrical Wiring Diagram



### Emergency Function Diagram

Mains	1 x 8 W Maintained			2 x 8 W Sustained	
	1 x 8W Non-Maintained	Local Switch OFF or No Link	Local Switch ON or Link Present	Local Switch OFF or No Link	Local Switch ON or Link Present
Switched ON					
Switched OFF					

### Dimensions in Millimeters (Inches)



# Stylmaster™ Strobe Luminaires

## Enclosed and Gasketed

**NEC: Pendant Mount**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 3R, 4  
Marine Outside Type (Saltwater)

**NEC: Ceiling and Wall Bracket Mount**  
Class I, Division 2, Groups A, B, C, D  
NEMA 3R, 4

**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
CSA Enclosure 3

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - Marine and wet locations
  - Industrial processing
  - Chemical processing
  - Areas where flammable gases and vapors are present under conditions defined by NEC Class I, Division 2; Class II, Division 1 and 2; and Class III
- For use in areas where audible signals cannot be heard.
- Used to warn of unsafe conditions and other communication needs.
- Fixtures are also suited for use in non-hazardous areas where there are:
  - Severe weather conditions
  - Excessive moisture, dirt, dust
  - Corrosive atmospheres
  - High ambient temperatures are encountered
- Typical applications include:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Manufacturing plants
  - Storage areas
  - Marine applications

### Features

- Modern styling, with clean-line mounting hood and prismatic glass globe, plus optional guard.
- Globe seats firmly against silicone gasket in mounting hood to keep out dirt and moisture. Full threads eliminate “cross threading.”
- Optional guard protects glass from damage and has exclusive snap-on attachment feature for quick installation and fast servicing.
- Fixtures operate safely in high ambient temperatures.
- Strobe: 65 flashes per minute. 800,000 peak candlepower.
- Fixtures are complete with lamp.
- Lens available in five colors: red, amber, blue, green and clear (factory installed).
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Fixture is suitable for mounting globe up or globe down utilizing pendant, ceiling or wall bracket type mounts.
- Minimum operating temperature is -25 °C (-13 °F).

### Standard Materials

- Mounting hoods: copperfree (4/10 of 1% max.) aluminum
- Guards: pressure cast copperfree (4/10 of 1% max.) aluminum
- Globes: prismatic glass

### Standard Finish

- Mounting hoods and guards: powder coat epoxy

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1203, UL 1638
- UL Listed: E207738
- CSA Standard: C22.2 No. 25
- cUL Listed: E207738



Fixtures are suitable for mounting in any position – including globe up or globe down – utilizing pendant, ceiling or wall bracket type mounts.

# Stylmaster™ Strobe Luminaires

## Enclosed and Gasketed

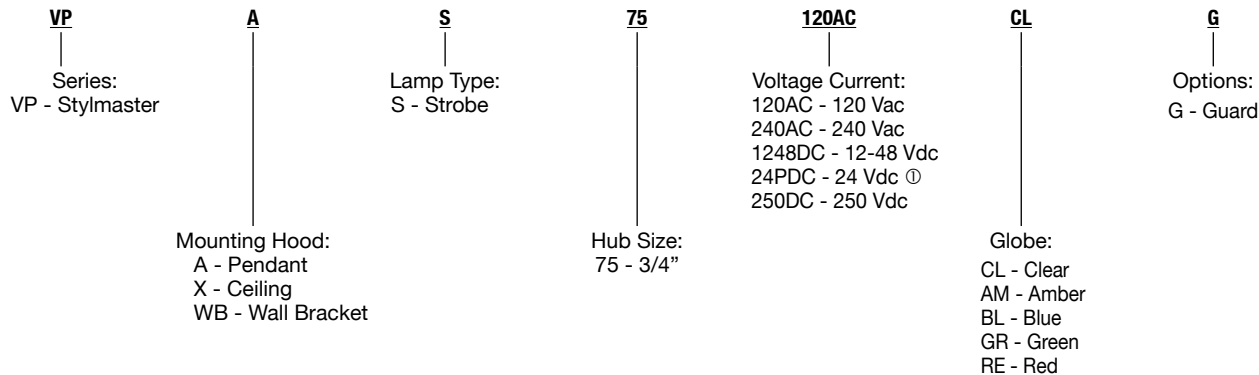
**NEC: Pendant Mount**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4  
 Marine Outside Type (Saltwater)

**NEC: Ceiling and Wall Bracket Mount**  
 Class I, Division 2, Groups A, B, C, D  
 NEMA 3R, 4

**CEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 CSA Enclosure 3

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide For VP Stylmaster Strobe Luminaires



### Technical Data: Thermal Suitability of Stylmaster Strobe

#### Operating Temperatures

Ambient Temp. °C (°F)	Class I, Division 2 Groups A,B,C,D Pendant, Ceiling and Wall Bracket	Class II, Division 1 and 2 and Class III Pendant Mount
40 (104)	T2A	T4A
55 (131)	T2	T4A
65 (149)	T1	T4

Operating Temperatures Represent the Maximum Internal Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

"T" Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

NOTE: The maximum operating temperature of the fixture must not exceed the ignition temperature of the gas, vapor or dust to be encountered per the National Electrical Code and the Canadian Electrical Code.

① Diode Polarized (current limiter supplied as standard).





# Stylmaster™ Strobe Luminaires

## Enclosed and Gasketed

**NEC: Pendant Mount**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4  
 Marine Outside Type (Saltwater)

**NEC: Ceiling and Wall Bracket Mount**  
 Class I, Division 2, Groups A, B, C, D  
 NEMA 3R, 4

**CEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 CSA Enclosure 3

	Volts	Wt. kg (lb)	Catalog Number ①
Pendant — Rigid Conduit One Hub 3/4” NPT			
	120 Vac	2.0 (4.41)	VPAS75120ACCL
	240 Vac		VPAS75240ACCL
	250 Vdc		VPAS75250DCCL
	12-48 Vdc		VPAS751248DCCL
	24 Vdc		VPAS7524PDCCL ②
Ceiling — Rigid Conduit Four Hubs 3/4” NPT Three Close-Up Plugs			
	120 Vac	2.4 (5.29)	VPXS75120ACCL
	240 Vac		VPXS75240ACCL
	250 Vdc		VPXS75250DCCL
	12-48 Vdc		VPXS751248DCCL
	24 Vdc		VPXS7524PDCCL ②
Wall Bracket — Rigid Conduit Four Hubs 3/4” NPT Three Close-Up Plugs			
	120 Vac	2.9 (6.39)	VPWBS75120ACCL
	240 Vac		VPWBS75240ACCL
	250 Vdc		VPWBS75250DCCL
	12-48 Vdc		VPWBS751248DCCL
	24 Vdc		VPWBS7524DCCL ②
Optional Aluminum Guard			
		0.5 (1.10)	VPGU-1

① Catalog numbers shown are supplied with clear lens. To order colored lens, replace the last digits of catalog number **CL** with **AM** for amber, **BL** for blue, **GR** for green or **RE** for red.

② Diode Polarized (current limiter supplied as standard).

# Stylmaster™ Strobe Luminaires

## Enclosed and Gasketed

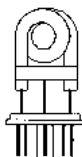
**NEC: Pendant Mount**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4  
 Marine Outside Type (Saltwater)

**NEC: Ceiling and Wall Bracket Mount**  
 Class I, Division 2, Groups A, B, C, D  
 NEMA 3R, 4

**CEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 CSA Enclosure 3

### Replacement Parts

	Fixture Type	Lamp Type	Voltage	Base Type	Catalog Number
Replacement Lamps	Strobe	Xenon	All	Octal Socket	S865



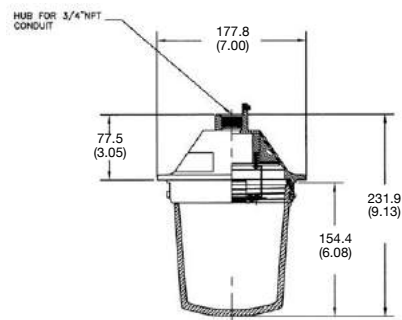
S865

	Glass Globe	Catalog Number
Replacement Globes and Inserts	Clear	VPGL-1HR

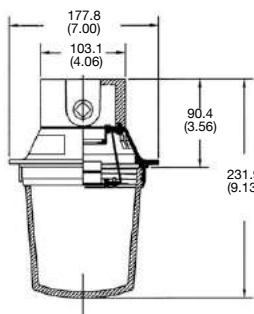


### Dimensions in Millimeters (Inches)

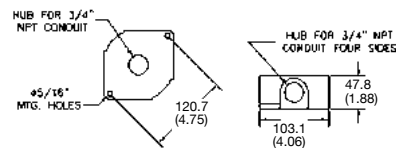
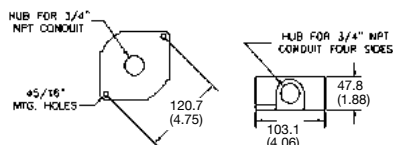
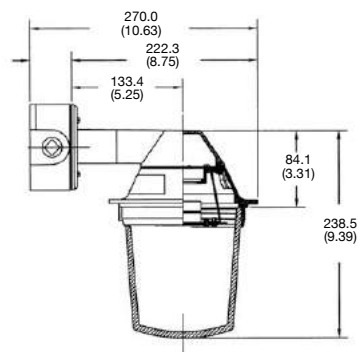
#### Pendant Mount



#### Ceiling Mount



#### Wall Mount



# TVA Obstruction, Approach and Boundary Luminaires

For use with Threaded Rigid Metal Conduit and IMC.

**CEC:**  
Listed for Ordinary (Unclassified) Locations

**CEC –Optional:**  
Class I, Division 2 versions are available

## Applications

- Transport Canada approved TVA490 series low intensity obstruction, approach or boundary light.
- TVA490 series obstruction lights are suitable for use on communication towers or other tall structures and buildings.

## Features

- TVA obstruction lights are available with one or two lamps.
- Models are equipped with rainports in the globe holder which keeps the wiring chamber dry.
- TVA obstruction lights are rugged cast aluminum construction.
- Two lamp fixtures are furnished with pre-wired sockets.
- Utilizes Type A-21, 116 W clear traffic signal lamp.
- A corrosion resistant finish protects TVA fixtures. TVA490 obstruction lights are approved for use by Transport Canada.
- Engineered for easy and safe maintenance, TVA490 fixtures are serviced without tools:
  - (1) The globe holder is secured with a captive thumb screw
  - (2) a one-eighth turn twist removes the globe and globe holder
  - (3) the assembly is hung from a safety chain freeing both hands
- Fresnel glass lenses and three lamp holder positions permit use of TVA490 fixtures on structures below 15.2 meters (50 feet), from 15.2 to 30.5 meters (50 to 100 feet), and over 100 feet/30.5 meters.
- A plugged 1" side hub and a 1-1/4" bottom hub provide conduit entry.
- Transfer and failure alarm relays for both one and two lamp fixtures.
- Pilot light assembly contains a red pilot light to indicate lamp failure.

## Standard Materials

- TVA bodies: copperfree (4/10 of 1% max.) aluminum
- Lamp holders: porcelain
- Transfer and failure alarm, pilot light assembly: ferrous alloy enclosure
- Supply wire requirement: +90 °C (+194 °F)

## Standard Finish

- TVA490: international orange epoxy clad finish
- Transfer failure alarm, pilot light assembly: triple coat – (1) zinc electroplate, (2) chromate and (3) aluminum polymer enamel

## Options

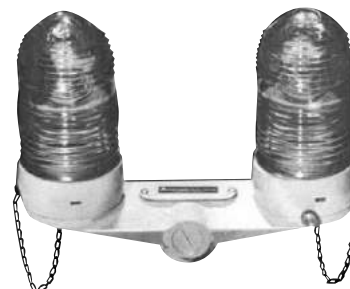
- Class I, Division 2 versions are available. Contact your local sales representative for details.

## CEC Certifications and Compliances

- CSA Standard: C22.2 No. 250
- CSA Certified: 009349



TVA 1490



TVA 2490

# TVA Obstruction, Approach and Boundary Luminaires


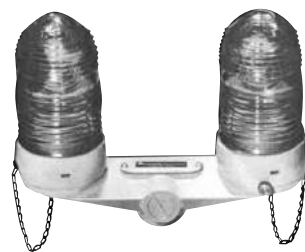






For use with Threaded Rigid Metal Conduit and IMC.

**CEC:**  
Listed for Ordinary (Unclassified) Locations

**CEC –Optional:**  
Class I, Division 2 versions are available

Appleton®

VISUAL SIGNAL: NEC/CEC ENCLOSED AND GASKETED

		Hub Size (Inches)		
Description		Side	Bottom	Catalog Number
TVA490 Obstruction, Approach and Boundary Lights				
	Type A-21 Clear Traffic Signal Light 116 W			
	One Lamp Fixtures			
	Obstruction with Red Globe	—	1	TVA1490
	Approach with Yellow Globe	—	1	TVA1490Y
	Boundary with Clear Globe	—	1	TVA1490C
	One Lamp Haz. Loc. Fixtures			
	Obstruction with Red Globe	—	1	TVA1490H
	Approach with Yellow Globe	—	1	TVA1490YH
	Boundary with Clear Globe	—	1	TVA1490CH
	Two Lamp Fixtures			
	Obstruction with Red Globe	1	1-1/4 ①	TVA2490
	Approach with Yellow Globe	1	1-1/4 ①	TVA2490Y
	Boundary with Clear Globe	1	1-1/4 ①	TVA2490C
	Two Lamp Haz. Loc. Fixtures			
	Obstruction with Red Globe	1	1-1/4 ①	TVA2490H
	Approach with Yellow Globe	1	1-1/4 ①	TVA2490YH
	Boundary with Clear Globe	1	1-1/4 ①	TVA2490CH
	TVA490 Replacement Parts			
	Mounting Fittings			
	With Globe Holder and Lamp Socket			
	Single Lamp	—	1	TVA1400
	Two Lamp	1	1-1/4	TVA2400
	Globes			
	Fresnel			
	Red			V-990R
	Aviation yellow			V-990Y
	Clear			V-990C
	Lamp Socket			
	Porcelain — Medium Base			V-1025
Globe Gasket				
	Neoprene			V-2055G
Wiring Chamber Cover				
	Cover assembly for two lamp fixture wiring chamber. With gasket and screws			V-2010






① To order with 1/4" to 1" reducer in the bottom hub add suffix **-RB100**.

# TVA Obstruction, Approach and Boundary Luminaires

For use with Threaded Rigid Metal Conduit and IMC.

**CEC:**  
Listed for Ordinary (Unclassified) Locations

**CEC –Optional:**  
Class I, Division 2 versions are available

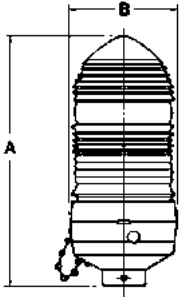
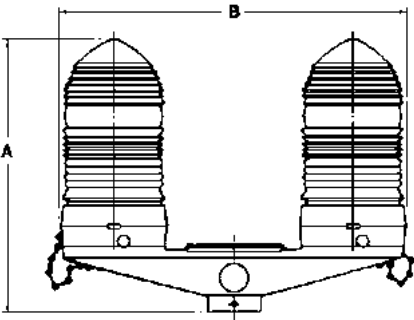
	Description	Hub Size (Inches)	Catalog Number
<b>Lamp Failure Alarm</b>			
	In the event of both lamps failing in the obstruction light an alarm circuit is triggered. Weather-proof enclosure is furnished with feed-thru hubs. 120 Vac, 50/60 Hz Relay drops out at 0.6 amps.	1	FDC-32R2
<b>Transfer Relay and Lamp Failure Alarm</b>			
	In the event of a lamp failure, power is transferred to the standby lamp and an alarm circuit is activated. Weather-proof enclosure is furnished with feed-thru hubs. 120 Vac, 50/60 Hz Relay drops out at 0.6 amps.	1	FDC-32R1
<b>Pilot Light Assembly</b>			
	Connected to failure alarm to indicate lamp failure. Red pilot light. 6S6 candelabra base lampholder. Dead end enclosure.	1	FD-3J1
<b>Photocell</b>			
	<b>(Non-Hazardous)</b> Comes installed in FDO type enclosure, ready for installation. 120 V Only.		FS601
	<b>(Class I, Division 2)</b> As above, c/w Encapsulated Photocell for Hazardous Area installation. 120 V Only.		FS601D2
<b>Flasher Assembly</b>			
	Comes installed in FDO type enclosure, ready for installation. 2500 W Rated, 200 A Max. In-Rush FAA approved 30 FPM Flash Rate.		TVA-FL

# TVA Obstruction, Approach and Boundary Luminaires

For use with Threaded Rigid Metal Conduit and IMC.

CEC:  
Listed for Ordinary (Unclassified) Locations

CEC –Optional:  
Class I, Division 2 versions are available

Description	Dimensions in Millimeters (Inches)		Catalog Number
	A	B	
One Lamp			
	Single	254.0 (10.00) 107.95 (4.25)	TVA1490
Two Lamp			
	Twin	273.05 (10.75) 349.25 (13.75)	TVA2490

# Code•Master™ Factory Sealed Strobe Luminaires

## Explosionproof, Dust-Ignitionproof

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class I, Division 2, Groups A, B  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 3R, 4X

### NEC:

Suitable for Wet Locations  
Marine Outside Type (Saltwater)

### Applications

- Code•Master Explosionproof Strobe fixtures are designed to provide safe operation in the presence of hazardous gases, vapors or dusts, defined by the National Electrical Code as Class I, Groups C and D; and Class II, Groups E, F and G.
- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- Also used in areas where audible signals cannot be heard, to warn of unsafe conditions and for other communication needs.

### Features

- Fixtures operate safely in high ambient temperatures.
- Minimum operating temperature is -25 °C (-13 °F).
- Available for fire alarm hearing impaired.
- 65 flashes per minute.
- Fixtures are complete with lamp.
- Patented “wireless” design. Threading of fixture unit onto mounting hood makes electrical connection. The only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws, (b) make wire connections; and (c) re-position connection block.
- Safe, easy servicing without disconnecting any wiring. “Wireless” fixture unit threads off mounting hood for convenient servicing or for immediate replacement with a “stand by” unit.
- Acme double lead threads speed installation and fixture removal from mounting hood. Only half as many turns are required as for single lead threads. The threads do not stick or gall, eliminating problems often encountered with single lead threads during fixture unit removal.
- All threaded joints are flame-tight.
- Factory installed lens available in five colors: red, amber, blue, green and clear (factory installed).
- Factory sealed. External seals are not required.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Fixture is suitable for mounting globe up or globe down utilizing pendant, ceiling or wall bracket type mounts.
- Optional guards protect globes from damage.

### Standard Materials

- Fixture housing, mounting hoods and guards: copperfree (4/10 of 1% max.) aluminum
- Globes: prismatic glass
- Screws: Stainless steel (3)

### Standard Finishes

- Fixture housing, guards and mounting hoods: epoxy power coat finish, electrostatically applied for complete, uniform corrosion protection

### NEC Certifications and Compliances

- UL Listed: E212210
- UL Standard: 1203
- UL Standard: 1638 Visual Signaling Appliances
- UL Standard: 1971 Visual Signaling Equipment has been investigated for fire protective signaling services to alert hearing impaired persons. This signaling equipment is intended to be used in conjunction with Listed compatible units and devices. Visual signaling equipment Listed in this category is intended to be used in the “Public Operating Mode” as defined in NFPA 72



Fixture (shown with optional guard) are suitable for mounting in any position including globe up or globe down utilizing pendant, ceiling or wall-bracket type mounts.

Appleton®

VISUAL SIGNAL: NEC/CEC EXPLOSIONPROOF

# Code•Master™ Factory Sealed Strobe Luminaires

## Explosionproof, Dust-Ignitionproof

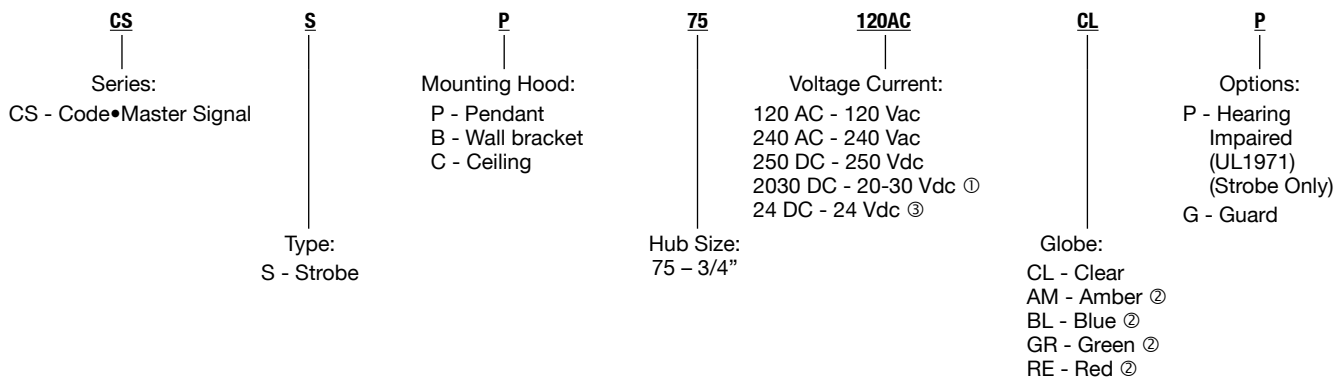
**NEC:**  
 Class I, Division 1 and 2, Groups C, D  
 Class I, Division 2, Groups A, B  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4X

**NEC:**  
 Suitable for Wet Locations  
 Marine Outside Type (Saltwater)

### Ordering Information

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide



### Thermal Suitability of Code-Master Strobe Fixture

Ambient Temp. °C (°F)	Class I, Division 1 and 2 Groups C and D	Class I, Division 2 Groups A and B	Class II, Division 1 and 2 Class III
40 (104)	T6	T2B	T4A
55 (131)	T6	T2B	T4A
65 (149)	T6	T2A	T4

### Operating Temperatures

"T" Numbers Represent the Maximum Internal Temperature for Class I, Division 2 Locations; Maximum Surface Temperature for Class I, Division 1 Locations; and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

"T" Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

NOTE: The maximum operating temperature of the fixture must not exceed the ignition temperature of the gas, vapor or dust to be encountered per the National Electrical Code.

① UL1971: Hearing-Impaired Strobe Only

② Not for use with UL1971 Strobe

③ Diode Polarized (Current limiter supplied as standard).








# Code•Master™ Factory Sealed Strobe Luminaires

## Explosionproof, Dust-Ignitionproof

**NEC:**  
 Class I, Division 1 and 2, Groups C, D  
 Class I, Division 2, Groups A, B  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4X

**NEC:**  
 Suitable for Wet Locations  
 Marine Outside Type (Saltwater)

### Standard Strobes

		Volts	Catalog Number ① ③
<b>Pendant — One Hub 3/4" NPT, Rigid Conduit</b>			
		120 Vac	CSSP75120ACCL
		240 Vac	CSSP75240ACCL
		250 Vdc	CSSP75250DCCL
		24 Vdc	CSSP7524DCCL ②
<b>Ceiling — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit</b>			
		120 Vac	CSSC75120ACCL
		240 Vac	CSSC75240ACCL
		250 Vdc	CSSC75250DCCL
		24 Vdc	CSSC7524DCCL ②
<b>Bracket — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit</b>			
		120 Vac	CSSB75120ACCL
		240 Vac	CSSB75240ACCL
		250 Vdc	CSSB75250DCCL
		24 Vdc	CSSB7524DCCL ②
<b>Fixture Unit Only — Less Mounting Hood</b>			
	10.36 kg (4.7 lb)	120 Vac	CSST120ACCL
		240 Vac	CSST240ACCL
		250 Vdc	CSST250DCCL
		24 Vdc	CSST24DCCL ②
	Weight kg (lb)	Hub Size (Inches)	Catalog Number
<b>Pendant Mounting Hood — One Hub 3/4" NPT, Rigid Conduit</b>			
	9.0 (19.84)	3/4	CAP-75
<b>Ceiling Mounting Hood — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit</b>			
	1.8 (3.97)	3/4	CAC-75
<b>Bracket Mounting Hood — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit</b>			
	2.7 (5.95)	3/4	CALB-75

① Add -G suffix for optional guard.

② Diode polarized (current limiter supplied as standard).

③ Catalog numbers shown are supplied with clear lens. To order colored lens, replace last digits of catalog number **CL** with **AM** for amber; **BL** for blue; **GR** for green; and **RE** for red.

# Code•Master™ Factory Sealed Strobe Luminaires

## Explosionproof, Dust-Ignitionproof

**NEC:**  
 Class I, Division 1 and 2, Groups C, D  
 Class I, Division 2, Groups A, B  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4X

**NEC:**  
 Suitable for Wet Locations  
 Marine Outside Type (Saltwater)

### Strobes for the Hearing Impaired

Type Mounting	Volts	Catalog Number — UL1971: Hearing-Impaired ①
---------------	-------	---

#### Pendant — One Hub 3/4" NPT, Rigid Conduit



20-30 Vdc

CSSP752030DCCLP

#### Ceiling — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit



20-30 Vdc

CSSC752030DCCLP

#### Fixture Unit Only — Less Mounting Hood



20-30 Vdc

CSSB752030DCCLP

#### Fixture Unit Only — Less Mounting Hood



4.7 kg (10.36 lb)

20-30 Vdc

CSST2030PDCCL

Weight kg (lb)	Hub Size (Inches)	Catalog Number — UL1971: Hearing-Impaired
----------------	-------------------	---

#### Pendant Mounting Hood — One Hub 3/4" NPT, Rigid Conduit



9.0 (19.84)

3/4

CAP-751971

#### Ceiling Mounting Hood — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit



1.8 (3.97)

3/4

CAC-751971

#### Bracket Mounting Hood — Four Hubs 3/4" NPT, Three Close-Up Plugs, Rigid Conduit



2.7 (5.95)

3/4

CALB-751971




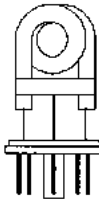
① Only clear globes are available for UL1971 applications.

# Code•Master™ Factory Sealed Strobe Luminaires

## Explosionproof, Dust-Ignitionproof

**NEC:**  
 Class I, Division 1 and 2, Groups C, D  
 Class I, Division 2, Groups A, B  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4X

**NEC:**  
 Suitable for Wet Locations  
 Marine Outside Type (Saltwater)

Description		Weight kg (lb)	Catalog Number	
Optional Aluminum Guard				
		0.5 (1.10)	CJGU-15	
Replacement Connection Block — Standard				
	For Non-Hearing-Impaired CodeMaster Fixtures	0.2 (0.44)	VPT-7	
Replacement Connection Block — UL1971: Hearing-Impaired				
	For Code-Master Fixtures for the Hearing Impaired	0.2 (0.44)	VPT-7P	
Replacement Lamps				
Fixture Type	Lamp Type	Voltage	Base Type	Catalog Number
 Strobe	Xenon	All	Octal Socket	S865

 **Appleton**

VISUAL SIGNAL: NEC/CEC EXPLOSIONPROOF

# Code•Master™ Factory Sealed Strobe Luminaires

## Explosionproof, Dust-Ignitionproof

**NEC:**  
 Class I, Division 1 and 2, Groups C, D  
 Class I, Division 2, Groups A, B  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3R, 4X

**NEC:**  
 Suitable for Wet Locations  
 Marine Outside Type (Saltwater)

**Pendant**  
 One Hub, 3/4" NPT  
**CAP75 or CAP75-1971**



**Ceiling**  
 Four Hubs, Three Close-Up Plugs, 3/4" NPT  
**CAC75 or CAC75-1971**



**Bracket**  
 Four Hubs, Three Close-Up Plugs, 3/4" NPT  
**CALB75 or CALB75-1971**



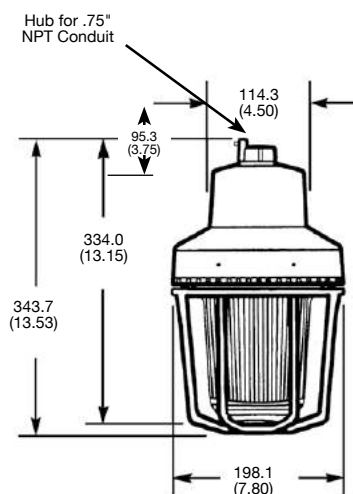
**Code•Master Incandescent Fixture Unit  
 CSST**



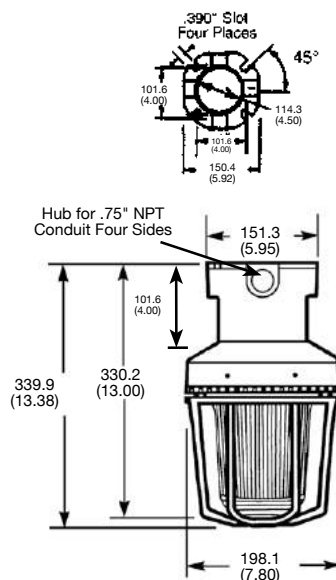
**Optional Aluminum Guard  
 CJGU-15**

### Dimensions in Millimeters (Inches)

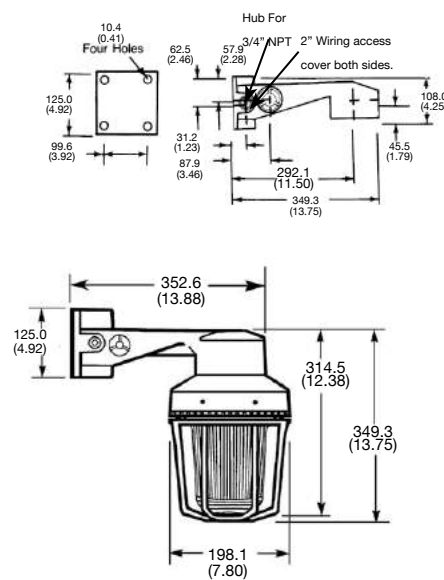
#### Pendant



#### Ceiling



#### Wall Bracket



① UL1971: Hearing-Impaired Strobe Only  
 ② Diode polarized (current limiter supplied as standard).

# ATX™ SBDO Series Signaling and Lighting Bulkheads

## Flameproof. Compact Fluorescent, Incandescent

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
⊕ II 2 GD  
IP66 - IK08

### Applications

- For lighting and signaling.

### Features

- For 7, 11, 15 Watt compact fluorescent or up to 100 Watt (maximum) incandescent (lamps not supplied).
- E27 lampholder.
- Operating in any position.
- Fixing by 2 integrated brackets.
- Connection to lampholder via two terminals 1 x 2.5 mm<sup>2</sup> (0.002 x 0.004 in<sup>2</sup>).
- Internal earth two terminals 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>), external earth 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Two M20 entries through feed.
- Supplied with 1 blanking plug M20.

### Standard Materials

- Body and bezel: gray painted aluminum
- Sealed toughened lamp glass
- Guard: zinc plated steel

### ATEX/IECEX Certifications and Compliances

- Certification Type: HBOd
  - Zone 1 - 2
    - Conforming to ATEX 94/9/CE: ⊕ II 2 G
    - Type of Protection: Ex d IIB
    - Temperature Class: Incandescent: T4, Compact Fluorescent: T6
  - Zone 21 - 22
    - Conforming to ATEX 94/9/CE: ⊕ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: Incandescent: T119 °C (T246 °F), Compact Fluorescent: T76 °C (T169 °F)
- Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
- CE Declaration of Conformity: 50234
- ATEX Certificate: LCIE 02 ATEX 6162
- IECEx Certificate: LCIE Ex 0.3013
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Internal Volume: ≤ 2 dm<sup>3</sup> (122 in<sup>3</sup>) – 2 liters

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC11.0597 ①



Compact Fluorescent  
Painted Glass Version

VISUAL SIGNAL: ATEX/IECEX FLAMEPROOF

Appleton®

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ SBDO Series Signaling and Lighting Bulkheads

## Flameproof. Compact Fluorescent, Incandescent

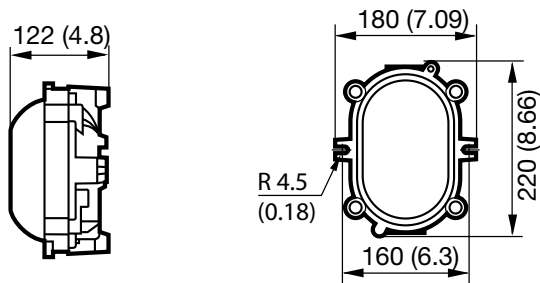
ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 - IK08

Color (Painted Glass)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
7 W to 15 W Compact Fluorescent or up to 60 W Incandescent			
Red	3 (6.61)	9 (549.21)	SBDOSR
Green	3 (6.61)	9 (549.21)	SBDOSG

### Accessories and Replacement Parts

Description	Catalog Number
Zinc Plated Steel Protective Guard	HBDOPGZ
Terminal block for through wiring 2 x 2.5 mm <sup>2</sup> (0.003 x 0.004 in <sup>2</sup> )with high temperature sleeve	094784

### Dimensions in Millimeters (Inches)



# ATX™ SBDS Series Beacon Lighting Units

## Flameproof

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**II 2 GD**  
**IP66 - IK08**

### Applications

- For use in hazardous locations in a wide range of plants.
- In areas where audible signals cannot be heard.

### Features

- Fixtures operate in any position.
- Suspension via integral bolt.
- Threaded flame path.
- Internal earth terminal 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>).
- External earth terminal 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Two M20 threaded entries with one blanking plug.
- Globe available in four colors: red, amber, green and clear (to be ordered separately).
- Static Beacon:
  - E27 lamp holder.
  - Permissible lamps not supplied:
    - 100 W incandescent max.
    - 18/20/25 W compact fluorescent
  - Connection to lamp holder via two terminals 1 x 2.5 mm<sup>2</sup> (0.002 x 0.003 in<sup>2</sup>) or 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>) terminal block supplied.
- Rotating Beacon:
  - E14 lamp holder.
  - 40 W incandescent lamp supplied.
  - Rotating speed: approximately 170 rotations per minute.
  - Beaten mirror to reinforce bright effect.
  - Connection via two terminals 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>).

### Standard Materials

- Body and bezel: gray painted marine aluminum
- Glass: colorless sealed shock resistant
- Reflector for static beacon: internal aluminum
- Globe: colored polymethacrylate
- Protective guard: zinc plated steel
- Mounting bracket: zinc plated steel

### ATEX Certifications and Compliances

- Certification Type: AB14
  - Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: II 2 G
  - Type of Protection: Ex d IIB
  - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*



Static Beacon with Red Globe

Rotating Beacon

- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature:
  - Static: -40 °C to +50 °C (-40 °F to +122 °F)
  - Rotating: -20 °C to +50 °C (-4 °F to +122 °F)
- CE Declaration of Conformity: 50231
- ATEX Certificate: LCIE 02 ATEX 6053
- Index of Protection (solid and liquid): IP66
- Impact Resistance (shock): IK08
- Internal Volume: ≤ 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### Other Certification

- INMETRO Certificate: BVC11.0480 ①

### T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	T Rating	Ambient Temperature — T Rating for Gas		Ambient Temperature — Surface Temperature for Dust		
		Ta = +40 °C (+104 °F)		Ta = +50 °C (+122 °F)		
		Cable Entry Temperature	T Rating	Cable Entry Temperature	Surface Temperature	Cable Entry Temperature
18 W Compact Fluorescent	T6	—	T5	—	+85 °C (+185 °F)	—
20 W Compact Fluorescent	T6	—	T5	—	+85 °C (+185 °F)	—
25 W Compact Fluorescent	T6	—	T5	—	+85 °C (+185 °F)	—
100 W Incandescent	T4	+115 °C (+239 °F)	T3	+125 °C (+257 °F)	+145 °C (+293 °F)	+125 °C (+257 °F)
40 W Rotating	T5	—	T4	—	+110 °C (+230 °F)	—

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ SBDS Series Beacon Lighting Units

Flameproof

ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK08

Lamp Type and Wattage	Supply	Frequency (Hz)	Rating (Amps)	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
-----------------------	--------	----------------	---------------	----------------	------------------	----------------



## Clear Static Beacon

100 W maximum

—

—

—

7.5 (16.53)

30 (1830.7)

**SBDSSC**



## Clear Rotating Beacon

40 W Incandescent

48 V ±10%

50/60 Hz

1 A

8.5 (18.74)

30 (1830.7)

**SBDSRC4004A**

40 W Incandescent

48 Vdc ±10%

—

1 A

8.5 (18.74)

30 (1830.7)

**SBDSRC4004D**

40 W Incandescent

110 V ±10%

50/60 Hz

0.5 A

8.5 (18.74)

30 (1830.7)

**SBDSRC4011A**

40 W Incandescent

230/240 V ±10%

50/60 Hz

0.23 A

8.5 (18.74)

30 (1830.7)

**SBDSRC4024A**

## Accessories and Replacement Parts

Type	Catalog Number
------	----------------



Polymethacrylate Globe

Red

**SBDGR**

Green

**SBDGG**

Amber

**SBDGA**

Clear

**SBDGC**



Zinc Plated Steel Protective Guard

Not to be used if a colored globe is used

**LDPG3Z**

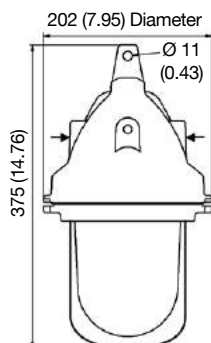


Zinc Plated Steel Hinged Bracket

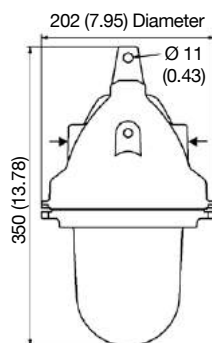
For installation on flat surface

**LDPHBZ**

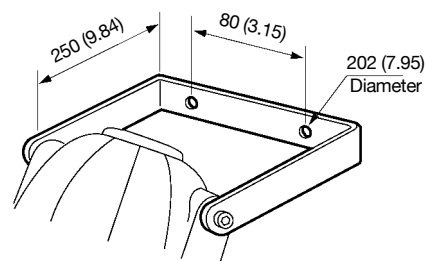
## Dimensions in Millimeters (Inches)



Lighting Unit



Lighting Unit with Globe



LDPHBZ Mounting Bracket

# ATX™ SBDB Series Beacon and Strobe Lighting Units

## Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
Ⓢ II 2 GD  
IP66/67 - IK8

### Applications

- For use in hazardous locations in a wide range of plants.
- In areas where audible signals cannot be heard.
- To warn of unsafe conditions and other communication needs.

### Features

- Fixtures operate in any position.
- Mounting strap for surface mounting supplied.
- High temperature internal wiring.
- Threaded flame path.
- Stainless steel fastenings.
- Closed by screwing on bezel.
- Connection through an increased safety Exe compartment with terminal block
  - Two 2 x 6 mm<sup>2</sup> (0.003 x 0.009 in<sup>2</sup>) and two earth terminal 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- External earth terminal 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Two side M20 threaded entries supplied with:
  - 1 x M20 plastic cable-gland for unarmored cable — 6.5 to 14.5 mm (0.26 x 0.57 in) sealing diameter.
  - 1 x M20 blanking plug.
- Static Beacon:
  - E27 lamp holder.
  - Permissible lamps not supplied:
    - 100 W incandescent max.
    - 18 W compact fluorescent.
  - Globe available in four colors:
    - Red, amber, green and clear (to be ordered separately).
- Rotating Beacon:
  - E14 lamp holder.
  - 40 W incandescent lamp supplied.
  - Rotating speed: approximately 170 rotations per minute.
  - Beaten mirror to reinforce bright effect.
  - Globe available in four colors:
    - Red, amber, green and clear (to be ordered separately).
- 5 Joules Strobe Beacon:
  - Xenon lamp supplied.
  - Instantaneous illuminance: 50,000 candles.
  - Strobe 60 flashes per minute.
  - Operating factor 100%.
  - Life duration: 70% efficiency after 8 million flashes.
  - Internal red colored lens supplied as standard.
  - Other lenses available in five colors:
    - Amber, blue, green, yellow and clear (factory installed).

### Standard Material of Fixtures

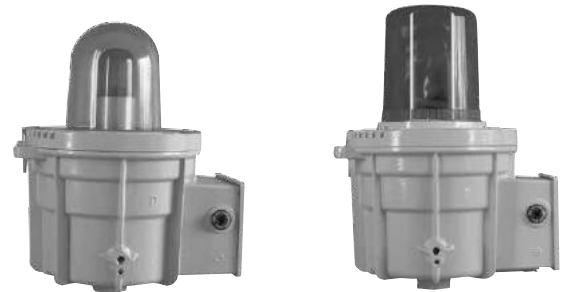
- Body and bezel: gray painted marine aluminum
- Lens: colorless sealed shock resistant glass
- Internal reflector for static beacon: aluminum
- Mounting strap: gray painted aluminum

### Standard Material of Accessories

- Globe: colored Polymethacrylate
- Protective guard: zinc plated steel

### Options

- Other lens colors for strobe beacon



Strobe Lighting

Beacon Lighting

### ATEX/IECEX Certifications and Compliances

- Certification Type: LTd (model (LT1d))
  - Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
  - Type of Protection: Ex de IIC
  - Temperature Class: See *Temperature Rating* — Gas table on following page
- Dust: Zone 21-22
  - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
  - Type of Protection: Ex tD A21
  - Surface Temperature: See *Temperature Rating* — Dust table on following page
- Ambient Temperature:
  - Strobe: -40 °C to +55 °C (-40 °F to +131 °F)
  - Rotating Beacon: -20 °C to +50 °C (-4 °F to +122 °F)
- CE Declaration of Conformity: 50246
- ATEX Certificate: LCIE 02 ATEX 6165
- IECEx Certificate: IECEx LCI Ex 04.0019
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK08

### Other Certification

- INMETRO Certificate: BVC11.0417 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ SBDB Series Beacon and Strobe Lighting Units

## Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 - IK8

Order using catalog numbering guide below or select catalog number from the following pages.

### Catalog Numbering Guide — SBDB Series Beacon and Strobe Lighting Units

SBDB	R	C	40	04A
Series: SBDB - SBDB Series Zone 1 and 2 – 21 and 22 ATEX/IECEX Certified	Type: S - Static F - Flashing R - Rotating	Color: C - Clear R - Red A - Amber G - Green B - Blue Y - Yellow	Wattage/Joules: 40 - 40 W 10 - 100 W 05 - 5 Joules	Voltage: 02D - 24 Vdc 02A - 24 Vac, 50/60 Hz 04D - 48 Vdc 04A - 48 Vac, 50/60 Hz 11A - 110 Vac, 50/60 Hz 11D - 110 Vdc 24A - 230/240 Vac, 50/60 Hz

### Temperature Rating — Gas

Lamp Type and Wattage		Ambient Temperature				
		Lighting Downwards			Lighting Upwards	
Ta =		+40 °C (+104 °F)	+50 °C (+122 °F)	+55 °C (+131 °F)	+40 °C (+104 °F)	+50 °C (+122 °F) +55 °C (+131 °F)
18 W Fluorescent Compact	T6	T6	T6	T6	T5	T5
100 W Incandescent	T4	T3	T3	T3	T3	T3
40 W Rotating	T5	T4	T4	T5	T4	T4
Strobe 5 Joules	T6	T6	T6	T6	T6	T6





### Temperature Rating — Dust

Lamp Type and Wattage		Positions	
		Lighting Downwards	Lighting Upwards
Ta =		+55 °C (+131 °F)	+55 °C (+131 °F)
18 W Fluorescent Compact		T80 °C (T176 °F)	T95 °C (T203 °F)
100 W Incandescent		T195 °C (T383 °F)	T195 °C (T383 °F)
40 W Rotating		T130 °C (T266 °F)	T130 °C (T266 °F)
Strobe 5 Joules		T80 °C (T176 °F)	T80 °C (T176 °F)

# ATX™ SBDB Series Beacon and Strobe Lighting Units

## Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK8

Type	Supply			Rating (Amps)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
Clear Static Beacon							
100 W Maximum	—	—	—	—	7.5 (16.3)	30 (1830.7)	SBDBSC
Clear Rotating Beacon							
40 W	48 Vac	+/-10%	50/60 Hz	1A	8.5 (18.74)	30 (1830.7)	SBDBRC4004A
40 W	48 Vdc	+/-10%	—	1A	8.5 (18.74)	30 (1830.7)	SBDBRC4004D
40 W	110 Vac	+/-10%	50/60 Hz	0.5A	8.5 (18.74)	30 (1830.7)	SBDBRC4011A
40 W	230/240 Vac	+/-10%	50/60 Hz	0.23A	8.5 (18.74)	30 (1830.7)	SBDBRC4024A
Red Strobe Beacon							
5 joules	24 Vac	20-30 V	50/60 Hz	220 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0502A
5 joules	24 Vdc	18-35 V	—	230 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0502D
5 joules	48 Vac	40-54 V	50/60 Hz	180 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0504A
5 joules	48 Vdc	40-60 V	—	150 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0504D
5 joules	110 Vac	90-135 V	50/60 Hz	110 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0511A
5 joules	110 Vdc	88-132 V	—	90 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0511D
5 joules	230/240 Vac	185-255 V	50/60 Hz	55 mA	8.5 (18.74)	30 (1830.7)	SBDBFR0523A
Accessories and Replacement Parts							
Description							Catalog Number
Polymethacrylate Globe							
				Red	SBDGR		
				Green	SBDGG		
				Amber	SBDGA		
				Clear	SBDGC		
Zinc Plated Steel Protective Guard							
				Using without colored globe			LDPG1Z
Zinc Plated Steel Hinged Bracket							
				Bracket for installation on flat surface			LDMHBZ
Zinc Plated Steel M10 Eyebolt							
				Eyebolt for suspension			LDRBM10Z

VISUAL SIGNAL: ATEX/IECEX FLAMEPROOF

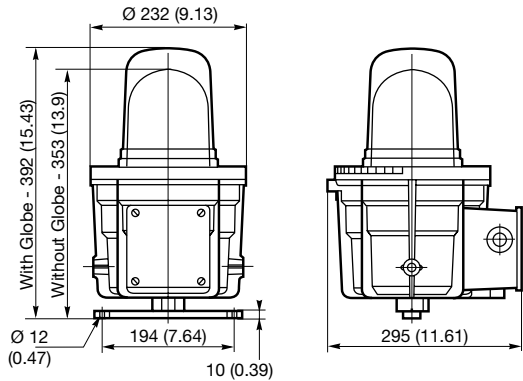
Appleton®

# ATX™ SBDB Series Beacon and Strobe Lighting Units

## Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/67 – IK8

### Dimensions in Millimeters (Inches)



VISUAL SIGNAL: ATEX/IECEX FLAMEPROOF

Appleton®

# ATX™ SBDC Series Strobe Lighting and Static Triple Indicator

## Flameproof

**ATEX/IECEX:**  
**Zone 1 and 2 - 21 and 22**  
**Ex II 2 GD**  
**IP66/68 - IK08**

### Applications

- For use in hazardous locations in a wide range of plants.
- In areas where audible signals cannot be heard.
- To warn of unsafe conditions and other communication needs.

### Features

- Threaded access cover with O-ring seal.
- Supplied with two external fixing lugs.
- Fixtures operate in any position.
- External earth terminal 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Two side M20 threaded entries supplied with 1 x M20 blanking plug.
- 15 Joules Strobe Beacon:
  - Xenon lamp supplied.
  - Instantaneous illuminance: 150,000 candelas.
  - Strobe 45 flashes per minute.
  - Operating factor: 10 min. stop after one hour operation.
  - Life duration: 70% efficiency after 8 million flashes.
  - Internal red colored lens supplied as standard.
  - Other lenses available in five colors:
    - Amber, blue, green, yellow and clear (factory installed).
  - Connection to plug-in terminal block via 2 x 3 x 2.5 mm<sup>2</sup> (0.003 x 0.005 x 0.004 in<sup>2</sup>) terminal.
- Static Triple Indicator Unit:
  - Ba15d lamp holders.
  - Permissible lamps not supplied:
    - 7 W incandescent or multi LED lamps.
  - Operating factor 100%.
  - Supplied with three colored interchangeable modules:
    - Red, yellow and green.
  - Each module is controlled separately.
  - Possibility of coupling two modules for simultaneous operation.
  - Connection to plug-in terminal block via 2 x 5 x 2.5 mm<sup>2</sup> (0.003 x 0.008 x 0.004 in<sup>2</sup>) terminal.

### Standard Materials

- End caps and cover: anti-corrosive gray painted Zamak
- O-ring seal: Nitrile
- Sealed toughened glass.
- Fixing lug: zinc plated steel
- Protective guard: zinc plated steel

### Options

- Other colored module for static triple indicator unit.
- Other lens colors available for strobe lighting



**Strobe Lighting**



**Multiple Static Indicator**

### ATEX/IECEX Certifications and Compliances

- Certification Type: FLd
  - Gas: Zones 1 and 2
    - Conforming to ATEX 94/9/CE: Ex II 2 G
    - Type of Protection: Ex d IIC
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zone 21 and 22
    - Conforming to ATEX 94/9/CE: Ex II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50203
- ATEX Certificate: LCIE 97 ATEX 6012
- IECEx Certificate: IECEx LCI 04.0018
- Index of Protection according EN/IEC 60529: IP66/68 (10 meters)
- Impact Resistance (shock): IK08
- Internal Volume: ≤ 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC11.0492 ①

### Related Products

- For labels see *Labels for Emergency Lighting Units, ATX Self-Adhesive Signaling Labels for Emergency Lighting Units.*

**T Rating (Gas) and Surface Temperature (Dust) Table**

Ambient Temperature	Gas		Dust
	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	Ta = +55 °C (+131 °F)
Strobe 15 Joules	T6	T5	T95 °C (T203 °F)
Static Indicator	T6	T6	T80 °C (T176 °F)

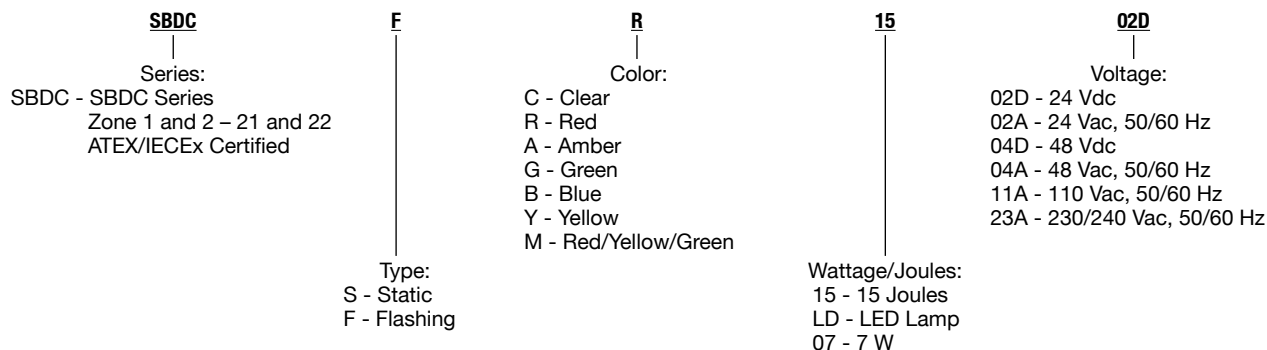
① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ SBDC Series Strobe Lighting and Static Triple Indicator


## Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68 - IK08

### Catalog Numbering Guide



### Red Strobe Beacon

					Rating (Amps)	Weight kg (lb)	Volume dm³ (in³)	Catalog Number ① ②
Type		Supply						
	15 joules	24 Vdc	18-30 V	—	700 mA	6.8 (14.99)	31 (1891.7)	<b>SBDCFR1502D</b>
	15 joules	48 Vdc	40-60 V	—	350 mA	6.8 (14.99)	31 (1891.7)	<b>SBDCFR1504D</b>
	15 joules	110 Vac	95-127 V	50/60 Hz	350 mA	6.8 (14.99)	31 (1891.7)	<b>SBDCFR1511A</b>
	15 joules	230 Vac	185-255 V	50/60 Hz	190 mA	6.8 (14.99)	31 (1891.7)	<b>SBDCFR1523A</b>

### Triple Static Indicator

Type	Lamp Holder	Wattage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number ②
Red, yellow and green 230 Vac, 50/60 Hz	Ba15d	7 W	6.8 (14.99)	31 (1891.7)	<b>SBDCSM0723A</b>





① For lens color other than Red on the IECEx certified product change the replace the letter **R** in the 5th position to the appropriate option: **C** for Clear, **A** for Amber, **G** for Green, **B** for Blue or **Y** for Yellow. Example for clear lens: SBDCFC1502D.  
② For LED lamp on the IECEx certified product change the replace the letters **15** or **07** with the letters **LD** in the 7th and 8th positions. Example: SBDCFR15LD02D.

# ATX™ SBDC Series Strobe Lighting and Static Triple Indicator

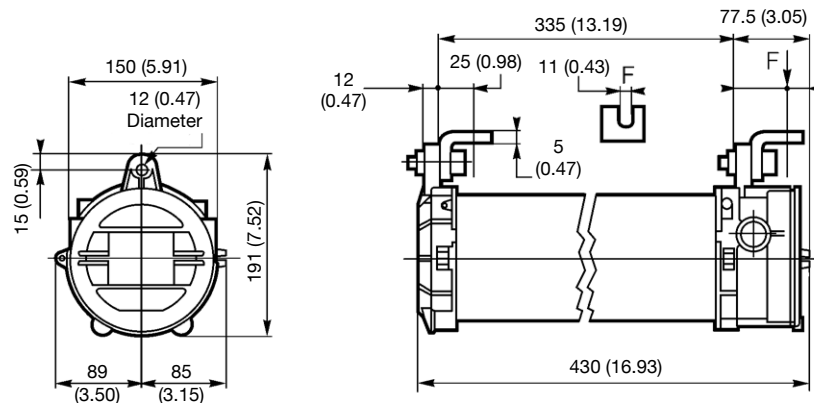
## Flameproof

ATEX/IECEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66/68 - IK08

### Accessories and Replacement Parts

Type	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Mounting Brackets – Quick One Hand Fixings: Set of Two</b>			
 Zinc plated steel	0.40 (0.88)	0.7 (42.7)	FDFBZ
Stainless steel			FDFBS
<b>Surface Mounting Brackets: Set of Two</b>			
 Zinc plated steel	0.55 (1.21)	0.5 (30.5)	FDSBZ
Stainless steel			FDSBS
<b>Half Clamps – Set of Two – Zinc Plated Steel</b>			
 42 mm (1.25") to 49 mm (1.5")	0.80 (1.76)	0.5 (30.5)	FDHC49Z
60 mm (2")			FDHC60Z
<b>Protective Guard</b>			
 Zinc plated steel	0.55 (1.21)	8.0 (488.2)	FDPG1Z

### Dimensions in Millimeters (Inches)



# ATX™ Self-Adhesive Signaling Labels for Emergency Lighting Units

















For use on Appleton/ATX emergency lighting luminaires: FDBAES, FDES and FNES Series

## Features

- Select styles available in French, English, Spanish, Portuguese and version which conform to Directive CEE 77-576.

## Standard Materials

- Plastic coated
- White lettering.
- Green background.

	Length mm (in)	Width mm (in)	Units per Pack	Catalog Number
<b>French</b>				
	237 (9.33)	53 (2.09)	10	094904
	237 (9.33)	53 (2.09)	10	094905
	237 (9.33)	109 (4.29)	10	094906
	172 + 57 (6.77 + 2.24)	57 (2.24)	10	094907
	237 (9.33)	109 (4.29)	5	094908
	237 (9.33)	109 (4.29)	5	094909
	237 (9.33)	109 (4.29)	5	094910
<b>English</b>				
	230 (9.06)	45 (1.77)	5	094915
	230 (9.06)	90 (3.54)	5	094916
	230 (9.06)	45 (1.77)	5	094917
<b>Spanish</b>				
	237 (9.33)	109 (4.29)	5	094919
	175 + 57 (6.89 + 2.24)	57 (2.24)	5	094918
<b>Portuguese</b>				
	237 (9.33)	109 (4.29)	5	094913
	175 + 57 (6.89 + 2.24)	57 (2.24)	5	094914
<b>Conforming to Directive CEE 77-576</b>				
	237 (9.33)	109 (4.29)	5	094911
	237 (9.33)	109 (4.29)	5	094912

# Stylmaster™ Incandescent Luminaires

## Enclosed and Gasketed

Attractively styled fixture with prismatic globe. UNILETS® for use with threaded metal conduit.

### NEC:

Class I, Division 2, Groups A, B, C, D

### CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

### Applications

- Enclosed and gasketed lighting fixtures for use in storage areas, tunnels, subways, chemical plants and other areas where moisture, dirt or corrosive atmospheres are a problem.
- Suitable for use in wet locations.
- Standard fixtures designed for 60 to 300 Watt medium base incandescent lamps.
- Pendant, feed-thru, ceiling, stanchion and wall mounts available.
- Ventilated steel reflectors with white porcelain finish are available for standard applications. Fiberglass reinforced polyester reflectors are designed for installations where fixture is subject to severe corrosive conditions or vandalism.

### Features

- Modern styling, with clean-line mounting hood and prismatic glass globe, plus optional guard.
- Prismatic globe, furnished as standard, eliminates glare and distributes light evenly.
- Globe seats firmly against composition gasket in mounting hood to keep out dirt and moisture. Full threads eliminate "cross threading."
- Fixture is complete with gaskets and socket. Socket is shock-absorbing to prolong lamp life and can be easily removed for wiring without tools.
- Porcelain socket construction assures long trouble-free operation in high ambient installations.
- Both porcelain steel and polyester reflectors are secured to mounting hoods with screws (furnished).
- Guards have exclusive snap-on attachment feature for quick installation and fast servicing.
- Choice of reflector styles:
  - (1) steel reflector with white porcelain enamel in standard dome and 30° angle
  - (2) fiberglass reinforced polyester reflector in standard dome and 30° angle.
- Maximum input voltage 277 V (suitable for DC applications).

### Standard Materials

- Mounting hoods: copperfree (4/10 of 1% max.) aluminum
- Guards: pressure cast copperfree (4/10 of 1% max.) aluminum
- Reflectors: porcelain steel or fiberglass reinforced polyester
- Socket: porcelain with brass screw shell
- Globes: prismatic glass

### Standard Finishes

- Mounting hoods and guards: epoxy powder coat
- Steel reflectors: baked white porcelain enamel
- Fiberglass reinforced polyester reflectors: natural finish
- Socket and globes: natural finish

### Options

- To order fixture with other than standard clear glass globe, add suffix letters to catalog number as indicated in table, and adjust difference in price.

Color	Glass Globe	Plastic Globe
Amber	-AM	-PAM
Blue	-BL	-PBL
Green	-GR	-PGR
Red	-RE	-PRE
Clear Heat-Resistant	-HR	—



### Illustrated Features



#### Mounting Hood

Pendant style shown has setscrew to prevent fixture stem from turning. Other styles include stanchion, ceiling and wall mounting.



#### Shock-Absorbing Medium Base Socket

Spring absorbs vibration to prolong lamp life. Porcelain construction for trouble-free operation in high ambient installations.



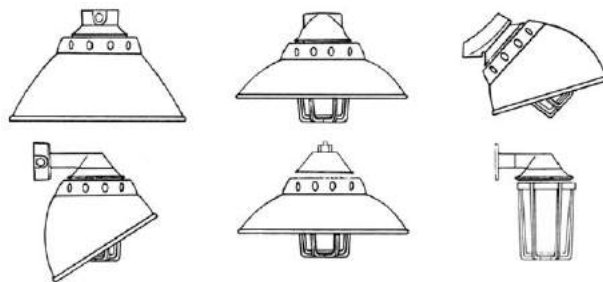
#### Globe

Attractive, tapered prismatic glass globes for glare elimination and uniform light distribution. Colors available – also vandal-resistant plastic globes. Globe seats firmly against gasket to exclude moisture, dirt and vapors.

#### Guard

Snap-on guards (and reflectors) – simply snap-in and twist. Spring action balls snap into detents of fixture body.

### Guard and Reflectors



### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

# Stylmaster™ Incandescent Luminaires

## Enclosed and Gasketed

Attractively styled fixture with prismatic globe. UNILETS® for use with threaded metal conduit.

**NEC:**  
Class I, Division 2, Groups A, B, C, D

**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

### Class I, Division 2, Groups A, B, C, D

Fixture is suitable for Class I, Division 2 where the fixture operating temperature does not exceed the ignition temperature of the atmosphere in which fixture is installed.

### “T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations

Supply Wire: +200 °C (+392 °F)

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351- 450	326- 350	301- 325	281- 300	261- 280	231- 260	216- 230	201- 215	181- 200	166- 180	161- 165	136- 160	121- 135	101- 120	86-100	85
Temp. Range (°F)	664- 842	619- 662	574- 617	538- 572	502- 536	448- 500	421- 446	394- 419	358- 392	331- 356	322- 329	277- 320	250- 275	214- 248	187- 212	185

### Class I, Division 2, Groups A, B, C, D

Reflector	VPGL-1HR (60-200 W)				VPGL-2HR (200-300 W)			
	A-21 100 W	A-21 150 W	A-23 200 W	A-23 200 W	PS-25 200 W	PS-30 200 W	PS-25 300 W	PS-30 300 W
None	T3	T2D	T2C	T2C	T2C	T2C	325	325
Standard Dome	T2D	T2D	T2B	T2B	T2B	T2C	325	325
30° Angle	T2D	T2C	T2B	T2B	T2B	T2B	325	325

### Fixture Ambient Suitability:

Areas	°F	°C
Non-Classified	392	200
Classified	104	40

### Fixture Ambient Suitability:

Class II, Groups E, F, G; Class III; Enclosure 4X

Fixture	Watts
A-23	60 to 300
PS-30	60 to 300

# Stylmaster™ Incandescent Luminaires

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Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

Without Guard	With Guard	Type	Lamp Watts	Hub Size (Inches)	NEC Catalog Numbers		CEC Catalog Numbers	
					With Globe and Guard	With Globe Only	With Globe and Guard	With Globe Only
Pendant — 3/4" tapped opening — Furnished with 3/4" to 1/2" reducer								
		A-23	60-200	1/2 or 3/4	VPA1075G	VPA1075	VCA1075G	VCA1075
		PS-30	200-300	1/2 or 3/4	VPA2075G	VPA2075	VCA2075G	VCA2075
Ceiling — Five Tapped Openings — With mounting lugs and four close-up plugs								
		A-23	60-200	1/2	VPX1050G	VPX1050	—	—
				3/4	VPX1075G	VPX1075	VCX1075G	VCX1075
		PS-30	200-300	1/2	VPX2050G	VPX2050	—	—
				3/4	VPX2075G	VPX2075	VCX2075G	VCX2075
Ceiling — Outlet Box Mounting — Fits SEH ① or VPJB cast outlet box, or 4" octagonal outlet box — Furnished with screws and gasket — Octagonal outlet boxes for non-classified areas only								
		A-23	60-200	3/4	VPOB10G	VPOB10	VCOB10G	VCOB10
		PS-30	200-300	3/4	VPOB20G	VPOB20	VCOB20G	VCOB20
45° Stanchion — 1-1/4" Conduit								
		A-23	60-200	1-1/4	VPAN10125G	VPAN10125	VCAN10125G	VCAN10125
		PS-30	200-300	1-1/4	VPAN20125G	VPAN20125	VCAN20125G	VCAN20125

① Order SEH box from catalog Fittings Section, 4" octagonal steel boxes from the Commercial Products Section and VPJB cast box from this Section.







# Stylmaster™ Incandescent Luminaires

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Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

		Type	Lamp Watts	Hub Size (Inches)	NEC Catalog Numbers		CEC Catalog Numbers	
Without Guard	With Guard				With Globe and Guard	With Globe Only	With Globe and Guard	With Globe Only
Wall – Body includes outlet box with five tapped openings — With mounting lugs and four close-up plugs								
		A-23	60-200	1/2	VPWB1050G	VPWB1050	VCWB1075G	VCWB1075
				3/4	VPWB1075G	VPWB1075		
		PS-30	200-300	1/2	VPWB2050G	VPWB2050	VCWB2075G	VCWB2075
				3/4	VPWB2075G	VPWB2075		
Wall – Outlet Box Mounting — Fits SEH ① or VPJB cast outlet box, or 4” octagonal outlet box — Furnished with screws and gasket — Octagonal outlet boxes for non-classified areas only								
		A-23	60-200		VPOBW10G	VPOBW10	VCOBW10G	VCOBW10
					VPOBW20G	VPOBW20	VCOBW20G	VCOBW20
		PS-30	200-300					
Wall – Outlet Box Mounting with Side Hubs — With two side hubs and one close-up plug								
		A-23	60-200	3/4	—	—	VCW1075G	VCW1075
				3/4	—	—	VCW2075G	VCW2075
		PS-30	200-300					

① Order SEH box from catalog Fittings Section, 4" octagonal steel boxes from the Commercial Products Section and VPJB cast box from this Section.









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Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

Description	Hub Size (Inches)	Catalog Numbers	
		NEC	CEC
Pendant			
 Furnished with setscrew, 3/4" to 1/2" reducer for 1/2" stem, medium base socket.		VPA75	VCA75
Ceiling – Five Tapped Openings			
 Four close-up plugs	1/2	VPX50	VCX50
	3/4		VCX75
45° Stanchion			
	1-1/4	VPAN125	VCAN125
Wall – Five Tapped Openings in Outlet Box ①			
 Four close-up plugs	1/2	VPWB50	—
	3/4	VPWB75	—
Cast Outlet Box Only – Five Tapped Openings			
 Four close-up plugs. No socket. Fits VPOB, VPOBW and VPWB.	1/2	VPJB50	VCJB50
	3/4	VPJB75	VCJB75
Ceiling – For Outlet Box			
 (Octagonal outlet boxes for non-classified areas only)  Fits SEH or VPJB cast outlet box, or 4" octagonal outlet box. With screws and gasket.		VPOB1	VCOB1
Wall – For Outlet Box ①			
 (Octagonal outlet boxes for non-classified areas only)  Fits SEH or VPJB cast outlet box, or 4" octagonal outlet box. With screws and gasket.		VPOBW1	VCOBW1
Wall – Outlet Box Mounting with Side Hubs — With two side hubs and one close-up plug			
 (Octagonal outlet boxes for non-classified areas only)	3/4	—	VCB75

① Use 30° angle reflectors for wall installations – center line of fixture must be located at least 5-3/4" away from wall. Has four 3/16" dia. mounting holes located 90° apart on a 3-1/2" dia. center.

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Class III  
Enclosure 4X

				Catalog Numbers		
		Type	Lamp Watts	Color	Glass	Polycarbonate
Glass and Polycarbonate Globes ①						
		A-23	60-200	Clear	—	VPGL-2PL
				Clear Heat-Resistant	VPGL-1HR	—
				Amber	VPGL-1AM	VPGL-2AMPL
				Blue	VPGL-1BL	VPGL-2BLPL
				Green	VPGL-1GR	VPGL-2GRPL
Glass Globe (VPGL-1HR)	Polycarbonate Globe (VPGL-2PL)			Red	VPGL-1RE	VPGL-2REPL
Glass Globes						
		PS-30	200-300	Clear	—	—
				Clear Heat-Resistant	VPGL-2HR	—
				Amber	VPGL-2AM	—
				Blue	VPGL-2BL	—
				Green	VPGL-2GR	—
Glass Globe (VPGL-2HR)				Red	VPGL-2RE	—
Coated Tuff-Skin ® ② Glass Globes Contains globe safely even if glass is broken						
			Heat-Resistant		VPGL-2HRT	—
					VPGL-2HRT	
				Catalog Numbers		
		Type	Lamp Watts		NEC	CSA
Guards						
		A-23	60-200		VPGU-1	VCFGU-1
		PS-30	200-300		VPGU-2	VCFGU-2
VPGU-1	VPGU-2					
Replacement Porcelain Shock-Absorbing Sockets						
		A-23	60-200		VPLR-123	VCLR-1
		PS-30	200-300			
Medium Base						
Replacement Gasket for Globes						
		Neoprene – for all Stylmaster globes			VPGL-GK	VCGL-GK
Globe Gasket						

① Shatter-resistant for use in food processing plants, canneries, dairies, breweries, bakeries or anywhere broken glass would prove a hazard. Ideally suited for areas where vandalism, high replacement and high maintenance costs are a problem. CAUTION: Use maximum 200 W lamp less reflector, 100 W max. with reflector or colored globe. Do not use in ambients exceeding 25 °C/77 °F. For burning in vertical base-up position only.

② Registered trademark of Thomas Manufacturing Corporation, Parkton, Md.

# Stylmaster™ Incandescent Luminaires

## Enclosed and Gasketed





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Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

		Description	Catalog Number	
			Porcelain Steel	Polyester
		Standard Dome Reflector	LPR-25ST	LPRP-25ST
		30° Angle Reflector	LPR-25AN	LPRP-25AN

### Weights

Typical Mounting Hoods							
Pendant	kg (lb)	Ceiling	kg (lb)	Wall	kg (lb)	Stanchion	kg (lb)
VPA75	0.9 (1.98)	VPX75	0.9 (1.98)	VPOBW10	1.4 (3.09)	VPAN-125	1.4 (3.09)
VCA75		VCX75		VCOWB10		VCAN-125	

Globes and Guards					Reflectors			
Type	Globe	kg (lb)	Guard	kg (lb)	Standard Dome	kg (lb)	30° Angle	kg (lb)
60-200 W	VPGL-1	0.9 (1.98)	VPGU-1	0.5 (1.10)	LPR-25ST	1.4 (3.09)	LPR-25AN	0.9 (1.98)
200-300 W	VPGL-2	1.4 (3.09)	VPGU-2	0.5 (1.10)	LPRP-25ST	0.9 (1.98)	LPRP-25AN	0.9 (1.98)

# Stylmaster™ Incandescent Luminaires

## Enclosed and Gasketed

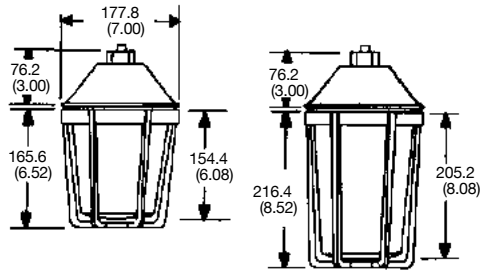
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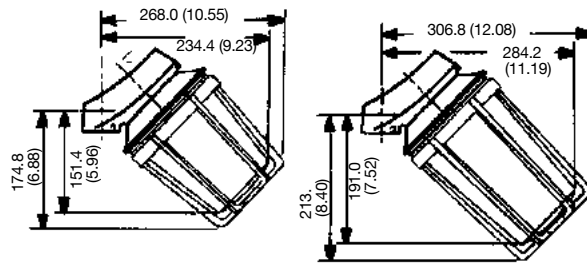
**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

### Dimensions in Millimeters (Inches)

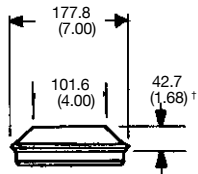
Pendant Mount ①



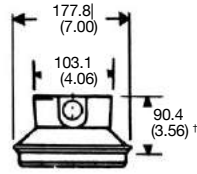
45° Stanchion Mount ① ②



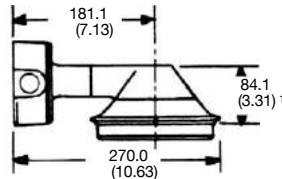
Ceiling Outlet Box Mount



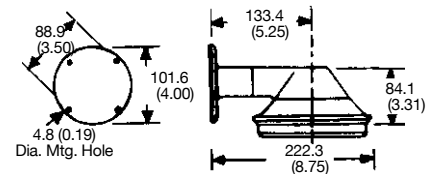
Ceiling Mount for Junction Box



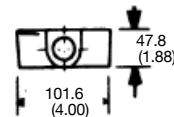
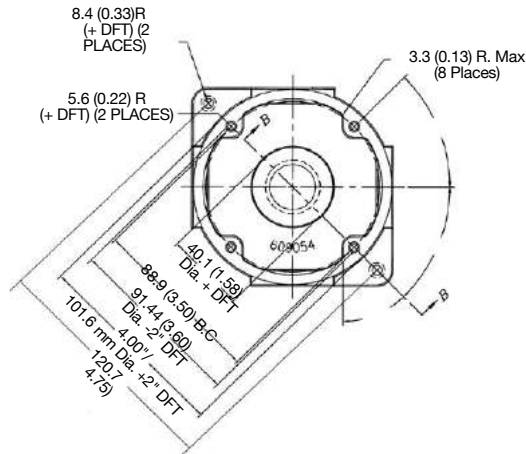
Wall Mount with Junction Box



Wall Outlet Box Mount



Junction Box Mounting Body



① Height of hood is measured to bottom of flange. Height of globe and guard is from bottom of flange.  
② Dimensions of angle are from center of pipe. Height is measured from pipe stop in stanchion hood.

# Stylmaster™ Incandescent Luminaires

## Enclosed and Gasketed

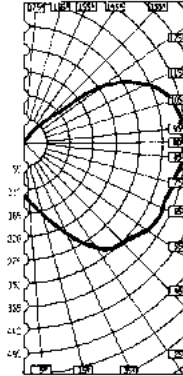
Attractively styled fixture with prismatic globe. UNILETS® for use with threaded metal conduit.

**NEC:**  
Class I, Division 2, Groups A, B, C, D

**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
Enclosure 4X

### Photometric Data

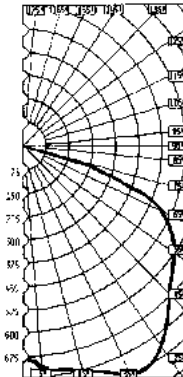
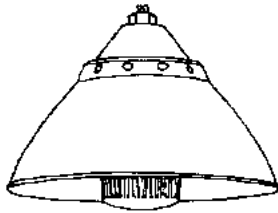
#### Without Reflector



Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls Rw	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	1	.739	.689	.645	.684	.640	.598	.583	.548	.517	.489	.464	.439	.404	.384	.365	.322
	2	.618	.548	.489	.572	.509	.456	.484	.435	.391	.403	.365	.331	.329	.299	.273	.234
	3	.527	.449	.386	.487	.416	.360	.411	.355	.308	.340	.297	.259	.275	.240	.210	.176
	4	.460	.378	.316	.425	.351	.294	.358	.299	.253	.297	.250	.212	.239	.202	.172	.140
	5	.398	.319	.258	.370	.296	.240	.313	.252	.206	.258	.209	.172	.208	.169	.138	.110
	6	.353	.273	.216	.325	.253	.199	.274	.215	.170	.227	.178	.141	.183	.143	.112	.087
	7	.312	.234	.181	.288	.216	.167	.242	.183	.141	.199	.152	.116	.161	.122	.092	.069
	8	.279	.204	.152	.257	.189	.142	.217	.161	.120	.180	.133	.099	.144	.106	.077	.056
	9	.251	.179	.130	.232	.166	.121	.196	.141	.102	.162	.116	.083	.130	.092	.065	.045
	10	.226	.157	.112	.208	.146	.104	.177	.124	.087	.146	.102	.070	.118	.081	.054	.037

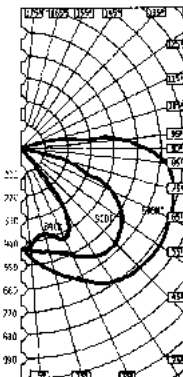
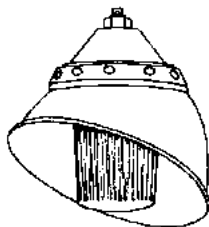
#### Standard Dome



Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls Rw	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	1	.777	.747	.719	.759	.731	.706	.724	.701	.681	.693	.676	.658	.666	.650	.636	.620
	2	.679	.631	.589	.665	.620	.583	.636	.599	.566	.610	.580	.552	.587	.561	.537	.521
	3	.593	.534	.486	.581	.525	.481	.557	.510	.471	.535	.495	.461	.514	.480	.451	.435
	4	.523	.459	.409	.513	.453	.405	.492	.440	.398	.473	.428	.391	.456	.416	.384	.367
	5	.459	.391	.340	.449	.385	.337	.433	.376	.334	.416	.366	.328	.401	.358	.323	.307
	6	.406	.337	.289	.397	.333	.285	.382	.325	.282	.368	.317	.278	.356	.310	.274	.259
	7	.359	.291	.246	.352	.287	.242	.339	.279	.238	.326	.274	.235	.316	.269	.232	.217
	8	.323	.257	.211	.316	.254	.210	.305	.248	.208	.295	.243	.205	.284	.238	.203	.188
	9	.291	.227	.182	.286	.223	.182	.275	.219	.180	.266	.214	.178	.257	.210	.175	.161
	10	.262	.200	.159	.257	.199	.159	.249	.194	.157	.240	.190	.154	.234	.187	.152	.140

#### 30° Angle



Photometric data shown on this page is based on a 200 Watt A-23 lamp and is representative of the performance for all Stylmaster incandescent fixtures. For candlepower values of fixtures with other lamps, multiply the given candlepower values by the following multipliers: for 75 W A19 – 0.31; for 100 W A19 – 0.45; for 150 W A21 – 0.75; and for 300 W PS25 – 1.65. For candlepower values of fixtures with guard, multiply by 0.90.

# V-51™ Incandescent Luminaires

## Enclosed and Gasketed

UNILETS® for use with threaded metal conduit. Fixtures suitable for use in wet locations. ①

**NEC:**  
Class I, Division 2, Groups A, B, C, D

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Class I, Division 2, Groups A, B, C, D  
Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

### Applications

- Enclosed and gasketed lighting fixtures for use in storage areas, tunnels, subways, chemical plants and other areas where moisture, dirt or corrosive atmospheres are a problem.
- Suitable for use in wet locations.
- Standard fixtures designed for 60 to 300 W medium base incandescent lamps.
- Available in pendant, 45° stanchion, and a variety of ceiling and wall mountings.

### Features

- Furnished with connection block for easy wiring.
- Unitized construction reduces installation and maintenance costs.
- Shock-absorbing porcelain socket for longer lamp life.
- Neoprene rubber ring in neck of reflector snaps into groove of mounting hood – protects against vibration and chipping.
- Guard snaps into two recesses of adapter – no clamps or setscrews.
- Maximum input voltage 150 V.

### Standard Materials

- Mounting hoods: malleable iron
- Globe adapters: malleable iron
- Socket: porcelain with brass screw shell
- Globes: glass. Optional globes in polycarbonate plastic 100 W Max
- Guards: steel
- Reflectors: porcelain enamel steel

### Standard Finishes

- Malleable iron mounting hood and globe adapter: triple coat – (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel guard: zinc electroplate
- Steel reflectors: white porcelain enamel
- Socket and globes: natural finish

### Options

- To order fixture with other than standard clear glass globe, add suffix letters to catalog number as indicated in table, and adjust difference in price.

Color	Glass Globe	Plastic Globe
Amber	-AM	-PAM
Blue	-BL	-PBL
Green	-GR	-PGR
Red	-RE	-PRE
Clear Heat-Resistant	-HR	—

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428



### Illustrated Features



#### Cut-Away View

Connection block is easily removed (loosen two screws) to permit quick wiring.



#### Mounting Hood

Available in pendant (shown), ceiling, wall and 45° stanchion. Pendant has setscrew to prevent fixture from turning on stem.

#### Neoprene Ring

Neoprene attachment ring secures reflector to mounting hood – no tools needed.

#### Globe Adapter

When adapter is threaded onto mounting hood, the socket makes electrical contact with connection block in mounting hood. Available in malleable iron (VAD-1M and VAD-2M)

#### Porcelain Enamel Reflectors

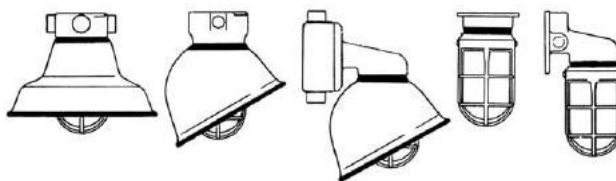
Standard and 30° angle.



#### Guard

Two sealed ball plunger units snap quickly, easily and securely into cavities of globe adapter. Guard can be used with or without a reflector.

### Guard and Reflectors



① With heat-resistant glass globes or plastic globes.

② 300 W PS-25 NOT approved for Class II, Division 1 and 2, Group G; Class III.

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Class III  
Enclosure 3R

### Class I, Division 2, Groups A, B, C, D

Fixture is suitable for Class I, Division 2 where the fixture operating temperature does not exceed the ignition temperature of the atmosphere in which fixture is installed.

### “T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations

Supply Wire: 257 °F/125 °C

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

### Class I, Division 2, Groups A, B, C, D

Reflector	60–150 W		200–300 W	
	A–21 100 W	PS–25 150 W	PS–30 200 W	PS–30 300 W
None	T3	T2D	T2C	325
Standard Dome	T2D	T2C	T2B	325
30° Angle	T2C	T2C	T2B	325

### Fixture Ambient Suitability: Class I, Division 2, Groups A, B, C, D

Areas	°C	°F	Fixture	Watts
Non-Classified	75	167	A-23	60 to 300
Classified	40	104	PS-30	60 to 300

### Fixture Ambient Suitability: Class II, Groups E, F, G; Class III; Enclosure 4X

① With heat-resistant glass globes or plastic globes.

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.





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Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

Malleable Mounting Hood, Adapter and Guard	Type	Lamp Watts	Size (Inches)	All Malleable with Guard ③
Pendant				
	A-21	60-150	1/2	VA1050G-M
			3/4	VA1075G-M
			1	VA1100G-M
			1-1/4	VA1125G-M
	PS-30	150-300	1/2	VA2050G-M
			3/4	VA2075G-M
			1	VA2100G-M
			1-1/4	VA2125G-M
Ceiling — Five Tapped Openings — Four close-up plugs				
	A-21	60-150	1/2	VXHA1050G-M
			3/4	VXHA1075G-M
			1	VXHA1100G-M
	PS-30	150-300	1/2	VXHA2050G-M
			3/4	VXHA2075G-M
			1	VXHA2100G-M
Wall — JB Box Mounting ④ — Fits JB cast outlet box ⑤ — Screws and gasket furnished with fixture				
	A-21	60-150		JBW10G-M
	PS-30	150-300		JBW20G-M
Ceiling – JB Box Mounting ④ — Fits JB cast outlet box ⑤ — Screws and gasket furnished with fixture				
	A-21	60-150		JB10G-M
	PS-30	150-300		JB20G-M

① With heat-resistant glass globes or plastic globes.

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

③ To order fixtures without guards, omit -G suffix from catalog number. Order reflectors and accessories separately.

④ 30° angle reflector adaptable for 100 W fixture only, when mounted at least 114.3 mm (4.5") from wall.

⑤ JB cast outlet box is available in the Fitting Section.










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Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

Description	Hub Size (Inches)	Catalog Numbers Malleable Iron
<b>Pendant and Ceiling Mounting Hoods — Furnished with connection block, gasket and screws</b>		
	<b>Pendant Mounting</b>	
	1/2	VA50
	3/4	VA75
	1	VA100
	1-1/4	VA125
	<b>Dead-End — Ceiling Mounting</b>	
	1/2 3/4	V50 V75
	<b>Feed-Thru — Ceiling Mounting</b>	
	1/2 3/4	VC50 VC75
	<b>Three Hubs — Ceiling Mounting</b>	
	1/2 3/4	VT50 VT75
	<b>Four Hubs — Ceiling Mounting</b>	
	1/2 3/4	VX50 VX75
	<b>Five Hubs — Ceiling Mounting ③</b>	
	1/2 3/4 1	VXHA50 VXHA75 VXHA100
<b>Wall and Stanchion Mounting Hoods — Furnished with connection block, gasket and screws</b>		
	<b>One Opening — Wall Mounting ④</b> — 1 tapped hole in center of flange	
	1/2 3/4	VGA50 VGA75
	<b>Feed-Thru — Wall Mounting ④</b> — 2 tapped vertical feed-thru hubs	
	1/2 3/4	VD50 VD75
	<b>Three Hubs and One Opening — Wall Mounting ④</b> — 3 hubs plus 1 tapped opening in center of flange	
	1/2 3/4	VGAT50 VGAT75

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

③ Four close-up plugs furnished.

④ Mounting hoods for wall installations can only be used with 30° angle reflectors.

# V-51™ Incandescent Luminaires

## Enclosed and Gasketed













UNILETS® for use with threaded metal conduit.

**NEC:**  
Class I, Division 2, Groups A, B, C, D

**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

Appleton®

INCANDESCENT/AREA: NEC/CEC ENCLOSED AND GASKETED

Wall	Ceiling	Type	Catalog Numbers Malleable Iron	
Wall and Ceiling Outlet Box Mounting Hoods				
		SEH ③ and 3-1/4" or 4" Octagonal Outlet Box Mounting ④ for Non-Classified Areas Only		
		Wall ⑤	0BVW1	
		Ceiling	0BV1	
GS Round Base Outlet Box Mounting – Form 20 ③				
		Wall ⑤	GSW2	
		Ceiling	GS2	
JB Round Base Outlet Box Mounting ③				
		Wall ⑤	JBW1	
		Ceiling	JB1	
A21	PS30	Type	Lamp Watts	Catalog Numbers Malleable Iron
Fixture Units				
		Adapter/Socket, Globe and Guard		VU100M VU200M
		A21	60-150	
		PS30	150-300	
Adapter/Socket and Globe				
		A21	60-150	VU100MLG
		PS30	150-300	VU200MLG
Adapter/Socket				
		A21	60-150	VAD-1M ⑥
		PS30	150-300	VAD-2M ⑥

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

③ Cast outlet boxes and gaskets are available in the Fitting Section. Screws, gasket and adapter plate furnished with fixture mounting hood.

④ Octagonal outlet boxes are available in the Commercial Fitting Section. Screws, gasket and adapter plate furnished with fixture mounting hood.

⑤ Mounting hoods for wall installations can only be used with 30° angle reflectors.

⑥ Accepts steel wire guard only

# V-51™ Incandescent Luminaires

## Enclosed and Gasketed





UNILETS® for use with threaded metal conduit.

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Class III  
Enclosure 3R

		Catalog Numbers		
		Type	Lamp Watts	Glass — 60–150 W      Polycarbonate – 100 W Max. ③
Glass and Polycarbonate Globes — 60-150 W				
		Clear		VGL-1CL      VPG-1CL
		Amber		VGL-1AM      VPG-1AM
		Blue		VGL-1BL      VPG-1BL
		Green		VGL-1GR      VPG-1GR
		Opal		VGL-1OP      —
		Red		VGL-1RE      VPG-1RE
60 W–150 W Glass	100 W Polycarbonate	Clear Heat-Resistant		VGL-1HR      —
Glass Globes — 150-300W				
		Clear		VGL-2CL      —
		Amber		VGL-2AM      —
		Blue		VGL-2BL      —
		Green		VGL-2GR      —
		Opal		VGL-2OP      —
		Red		VGL-2RE      —
		Clear Heat-Resistant		VGL-2HR      —
Steel Wire Guards ④				
		A21 ⑤	60-150	VWG-1
		PS30 ⑥	150-300	VWG-2
VWG-1 ④				

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

③ Do not use in ambients exceeding +25° C (+77 °F). For burning in base-up position only.

④ Cannot be used with polycarbonate globes.

⑤ Fits VAD-1M Adapter

⑥ Fits VAD-2M Adapter









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Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

Description	Type	Lamp Watts	Catalog Number
<b>Porcelain Reflectors — Furnished with neoprene attaching ring</b>			
	<b>Standard Dome</b>		
	A21	60-150	<b>VRW-1ST</b>
	PS30	150-300	<b>VRW-2ST</b>
	<b>30° Angle</b>		
	A21	60-150	<b>VRW-1AN</b>
	PS30	150-300	<b>VRW-2AN</b>
<b>Replacement Reflector Attaching Ring — Neoprene</b>			
			<b>VPT-8</b>
<b>Connection Block</b>			
			<b>VPT-7</b>
<b>Lamp Socket — Medium Base</b>			
			<b>VPT-1AV</b>
<b>Gasket for Lamp Socket and 60-150 W Globe</b>			
			<b>VPT-2</b>
<b>Gasket for 150-300 W Globe</b>			
			<b>VPT-3</b>
<b>Gasket for Mounting Hood</b>			
			<b>VPT-4</b>

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

# V-51™ Incandescent Luminaires

## Enclosed and Gasketed

UNILETS® for use with threaded metal conduit.

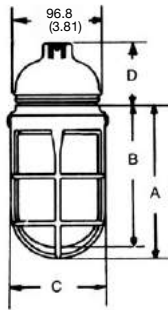
### NEC:

Class I, Division 2, Groups A, B, C, D

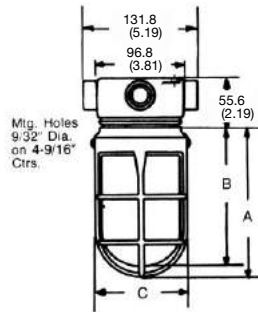
### CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

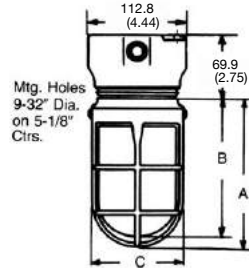
### Dimensions in Millimeters (Inches)



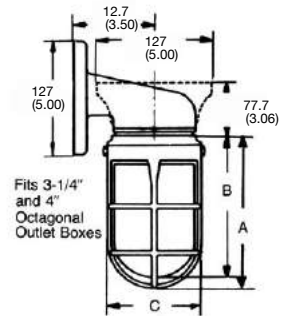
Type VA



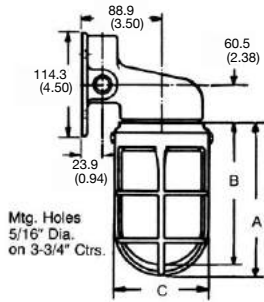
Types V, VC, VT and VX



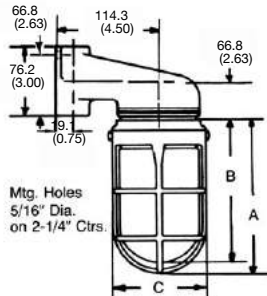
Type VXHA



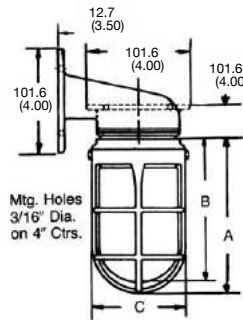
Types OBV and OBVW



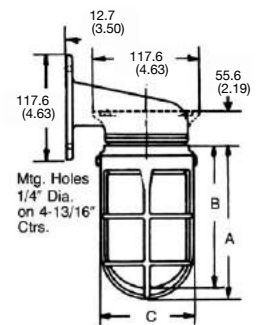
Types VGA and VGAT



Type VD



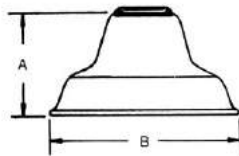
Types JB and JBW



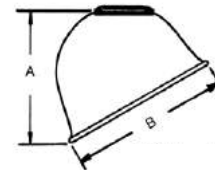
Types GS and GSW

Size	A	B	C	1/2 and 3/4 D	1 and 1-1/4 D
60-150 W	162.1 (6.38)	146.1 (5.75)	106.4 (4.19)	66.8 (2.63)	73.4 (2.89)
150-300 W	241.3 (9.50)	219.2 (8.63)	144.5 (5.69)	66.8 (2.63)	73.4 (2.89)

### Reflectors



Standard Dome



30 Angle

Standard Dome		30 Angle	
Size	A	A	B
60-150 W	157.2 (6.19)	205.5 (8.09)	254.0 (10.00)
150-300 W	225.6 (8.88)	294.4 (11.59)	304.8 (12.00)

© 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

# V-51™ Incandescent Luminaire

## Enclosed and Gasketed

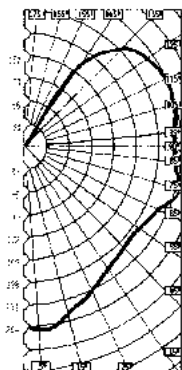
UNILETS® for use with threaded metal conduit. Full-size photometric data available for all V-51® fixtures on request.

**NEC:**  
Class I, Division 2, Groups A, B, C, D

**CEC:**  
Class I, Division 2, Groups A, B, C, D  
Class II, Divisions 1 and 2, Groups E, F, G ②  
Class III  
Enclosure 3R

### Photometric Data

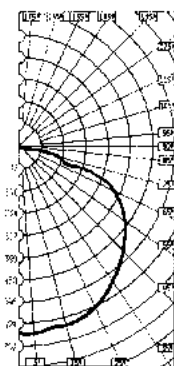
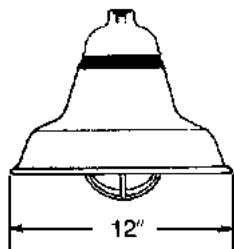
#### Without Reflector



Effective Floor Cavity Reflectance (Rfc) is 20%

	% Ceiling Rcc	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	% Walls Rw																
	1	.815	.765	.721	.755	.711	.668	.642	.608	.577	.539	.513	.489	.444	.424	.406	.360
	2	.690	.619	.558	.639	.575	.521	.542	.492	.449	.452	.414	.380	.370	.341	.315	.273
	3	.595	.515	.450	.551	.478	.421	.467	.410	.362	.388	.344	.307	.316	.282	.252	.215
	4	.523	.439	.374	.485	.409	.350	.411	.351	.303	.343	.296	.257	.279	.242	.212	.178
	5	.457	.376	.313	.426	.350	.292	.362	.300	.254	.302	.253	.215	.246	.208	.177	.147
	6	.409	.326	.266	.378	.303	.248	.322	.261	.215	.269	.220	.183	.220	.180	.150	.123
	7	.364	.283	.229	.338	.264	.213	.288	.226	.184	.240	.192	.155	.198	.158	.128	.104
	8	.329	.251	.197	.305	.234	.185	.260	.202	.160	.220	.171	.136	.179	.141	.112	.090
	9	.298	.223	.171	.277	.208	.161	.237	.180	.140	.199	.152	.119	.164	.126	.098	.078
	10	.271	.198	.152	.251	.187	.142	.216	.161	.123	.182	.137	.104	.151	.113	.086	.068

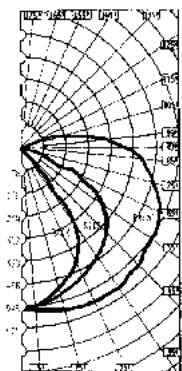
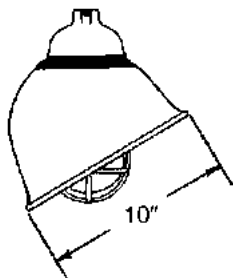
#### Standard Dome



Effective Floor Cavity Reflectance (Rfc) is 20%

	% Ceiling Rcc	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	% Walls Rw																
	1	.803	.772	.744	.784	.756	.731	.750	.726	.706	.718	.701	.683	.691	.675	.661	.645
	2	.705	.656	.614	.690	.645	.608	.661	.624	.591	.636	.605	.576	.612	.586	.562	.546
	3	.618	.558	.511	.606	.550	.506	.583	.535	.495	.560	.520	.486	.540	.506	.476	.460
	4	.549	.484	.434	.538	.478	.430	.518	.465	.423	.499	.454	.417	.482	.442	.410	.393
	5	.485	.416	.366	.475	.411	.363	.459	.401	.359	.442	.392	.354	.427	.384	.349	.333
	6	.431	.362	.314	.423	.358	.310	.408	.350	.307	.394	.343	.304	.382	.335	.299	.284
	7	.384	.316	.270	.377	.311	.267	.364	.304	.263	.351	.299	.260	.341	.294	.257	.242
	8	.347	.281	.234	.340	.278	.233	.329	.272	.231	.319	.267	.229	.309	.262	.226	.212
	9	.314	.249	.204	.309	.246	.204	.299	.242	.202	.289	.237	.200	.281	.233	.198	.184
	10	.284	.221	.181	.279	.221	.181	.271	.216	.179	.263	.212	.176	.257	.209	.174	.161

#### 30° Angle



Photometric data shown on this page is based on a 150 Watt PS-25 lamp and is representative of the performance for all V-51 incandescent fixtures. For candlepower values of fixtures with other lamps, multiply the given candlepower values by the following multipliers: for 60 W – A19 X 0.33; for 75 W – A19 X 0.45; for 100 W – A19 X 0.66; for 200 W – PS25 X 1.44; and for 300 W – PS30 X 2.32. For candlepower values of fixture with guard, multiply by 0.90.

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III

Visit our website at [www.emerson.com](http://www.emerson.com) or contact us at (800) 621-1506.

© May 2016

# REA 150 W Incandescent Luminaires<sup>①</sup>

## Enclosed and Gasketed

UNILETS® for use with Threaded Metal Conduit. Medium Base. Inexpensive, Low Wattage Fixture for use in Wet Locations.

### NEC:

*Rated for Ordinary (Unclassified) Locations*

### Applications

- Vaportight enclosed and gasketed lighting fixtures, suitable for use in wet locations.
- Standard glass globes take up to 150 W A-21 lamps. Optional polycarbonate plastic globes take up to 100 W A-21 lamps.

### Features

- Inexpensive fixture designed for use without reflector.
- Spring-mounted shock-absorbing socket prolongs lamp life.
- Guards snap on easily and securely. Spring-action balls snap into detents in fixture body.

### Standard Materials

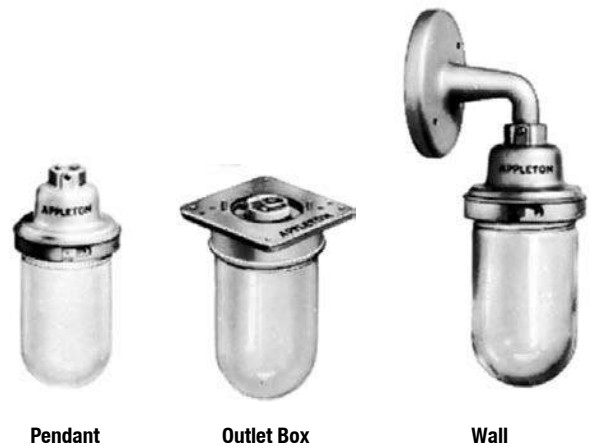
- Mounting bodies: pressure cast copperfree (4/10 of 1% max.) aluminum
- Socket: porcelain with brass screw shell
- Guards: steel or aluminum guards

### Standard Finishes

- Mounting bodies: burnished
- Steel wire guard: zinc electroplate
- Aluminum guard: aluminum polymer enamel
- Socket and globes: natural finish

### NEC Certifications and Compliances

- UL Standard: UL 1598

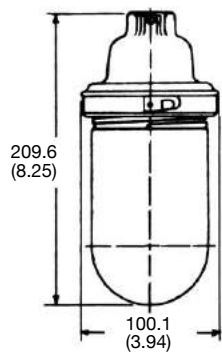


Pendant

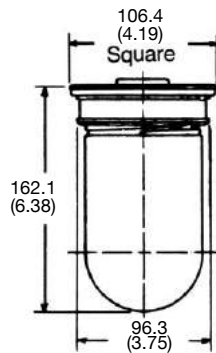
Outlet Box

Wall

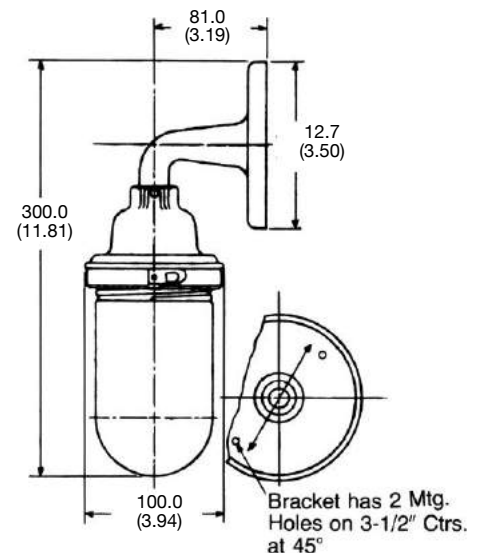
### Dimensions in Millimeters (Inches)



Pendant



Outlet Box



Wall

<sup>①</sup> Maximum size A-21 lamp: glass globe – 150 Watts; plastic globe – 100 Watts. No reflectors are available for REA fixtures.

# REA 150 W Incandescent Luminaires<sup>①</sup>









## Enclosed and Gasketed



UNILETS® for use with Threaded Metal Conduit. Medium Base. Inexpensive, Low Wattage Fixture for use in Wet Locations.

NEC:  
Rated for Ordinary (Unclassified) Locations

Appleton®

INCANDESCENT/AREA: NEC/CEC ENCLOSED AND GASKETED

		Description	Hub Size (Inches)	Catalog Number
		<b>Pendant Fixture</b>	1/2	<b>REA-1050</b>
			3/4	<b>REA-1075</b>
<b>Pendant</b>	<b>Outlet Box</b>	<b>Outlet Box Fixture</b> For 3-1/4" or 4" octagonal, or 4" square mounting.		<b>REA-10B</b>
		<b>Wall Fixture</b>		<b>REA-10LB</b>
<b>Wall</b>				
		<b>Pendant Hood</b>	1/2 3/4	<b>REA-50</b> <b>REA-75</b>
		<b>Wall Bracket</b>	1/2 male stem	<b>REA-1BR</b>
		<b>Lamp Socket</b>		<b>VPLR-123</b>
		<b>Steel Guard</b> For Outlet Box fixture only.		<b>VWG-1</b>
<b>VWG-1</b>		<b>Aluminum Guard</b> For Pendant and Wall Mount fixtures only.		<b>VGU-1</b>
	<b>VGU-1</b>			

		Description	Catalog Number <sup>①</sup>	
			Glass	Plastic
		<b>Colored Glass and Polycarbonate Globes</b>		
		Clear	<b>VGL-1CL</b>	<b>VPG-1CL</b>
		Amber	<b>VGL-1AM</b>	<b>VPG-1AM</b>
		Blue	<b>VGL-1BL</b>	<b>VPG-1BL</b>
		Green	<b>VGL-1GR</b>	<b>VPG-1GR</b>
		Opal	<b>VGL-1OP</b>	—
		Red	<b>VGL-1RE</b>	<b>VPG-1RE</b>
		Clear Heat-Resistant	<b>VGL-1HR</b>	—
<b>Glass</b>	<b>Plastic</b>			

① Maximum size A-21 lamp: glass globe – 150 Watts; plastic globe – 100 Watts. No reflectors are available for REA fixtures.

# Code•Master™ Incandescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

For use with threaded metal conduit.

### NEC:

Class I, Division 1, Groups C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3R, 4X

### Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- For use in chemical and petrochemical plants, such as manufacturers of plastics, paints and thinners, in refineries, and in other areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- Suitable for outdoor saltwater locations and for other wet locations.

### Features

- Fixtures operate safely in high ambient temperatures.
- Patented “wireless” design. Threading of fixture unit onto mounting hood makes electrical connection. The only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws; (b) make wire connections; and (c) re-position connection block.
- Safe, easy servicing without disconnecting any wiring. “Wireless” fixture unit threads off mounting hood for convenient servicing or for immediate replacement with a “stand-by” unit.
- Acme double-lead threads speed installation and fixture removal from mounting hood – only half as many turns are required as for single-lead threads. The threads do not stick or gall, eliminating problems often encountered with single-lead threads during fixture unit removal.
- Strategic location of lamp socket, in combination with interior prism design of the glass globe, provides optimum light distribution and control.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Porcelain socket with nickel-plated phosphor bronze screw shell. Assures long trouble-free operation in high ambient areas.
- Choice of mountings: pendant, ceiling, bracket and stanchion.
- Fiberglass-reinforced polyester reflectors, in standard dome or 30° angle styles, are ideal in installations where luminaire is subject to exceptionally severe corrosive atmospheres.
- All threaded joints are flame-tight.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Optional guards protect globes from damage. Secured to fixture with three stainless steel screws.
- Medium base lamp socket.
- Maximum voltage 250 Vac 50/60 Hz.



### Standard Materials

- Fixture housing, mounting hoods and guards: copperfree (4/10 of 1% max.) aluminum
- Globes: prismatic glass
- Reflectors: fiberglass reinforced polyester

### Standard Finishes

- Fixture housing, guards and mounting hoods: epoxy power coat finish, electrostatically applied for complete, uniform corrosion protection

### Options

- Add suffix **-Z** for Exd IIB + H<sub>2</sub>, Zone 1.

### NEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844
- UL Listed: E10444

Appleton®

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

# Code•Master™ Incandescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

For use with threaded metal conduit.

### NEC:

Class I, Division 1, Groups C, D

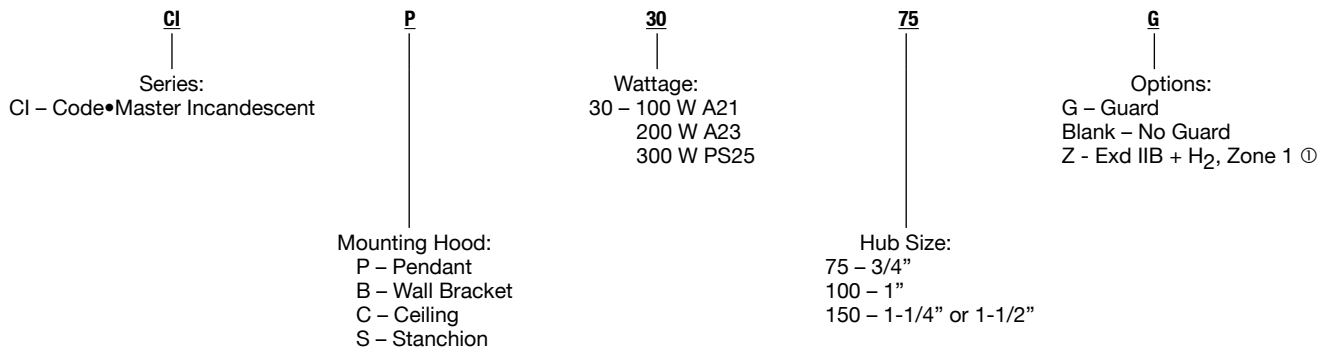
Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3R, 4X

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide



### Technical Data Thermal Suitability of Code•Master Incandescent Fixture.

Lamp Type	Lamp Watts (Max.)	Use Wire Supply °C (°F)	Ambient Temperature °C (°F)	Class I, Division 1, Groups C and D	Class II, Division 1, Groups E, F and G
Incandescent (A21)	100	75 (167)	40 (140)	<b>T5</b>	<b>T3C</b>
Incandescent (A23)	200	75 (167)	40 (140)	<b>T4</b>	<b>T3C</b>
Incandescent (PS25)	300	75 (167)	40 (140)	<b>T3C</b>	<b>T3C</b>

“T” Numbers Represent the Maximum External Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3	T4	T4A	T5	T6
Temp Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

NOTE: The maximum operating temperature of the fixture must not exceed the ignition temperature of the gas, vapor or dust to be encountered per the National Electrical Code and the Canadian Electrical Code.

① Certified to meet the Canadian Electrical Code (CEC) only.

# Code•Master™ Incandescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

For use with threaded metal conduit.

### NEC:

Class I, Division 1, Groups C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3R, 4X

Type Mounting					Hub Size (Inches)		Catalog Number ③	
Pendant								
	One Hub Rigid Conduit.			3/4		CIP3075		
				1		CIP30100 ②		
Ceiling								
	Four Hubs Three Close-Up Plugs Rigid Conduit			3/4		CIC3075		
				1		CIC30100 ②		
Wall Bracket								
	Four Hubs Three Close-Up Plugs Rigid Conduit			3/4		CIB3075		
				1		CIB30100 ②		
25° Stanchion								
	One Hub			1-1/2		CIS30150		
Mounting Hoods								
Type Mounting			Hub Size (Inches)		Hood Weight kg (lb)		Catalog Number	
Pendant								
	One Hub Rigid Conduit			3/4	0.9 (1.98)	CAP-75		
				1	0.9 (1.98)	CAP-100 ②		
Ceiling								
	Four Hubs Three Close-Up Plugs Rigid Conduit			3/4	1.8 (3.97)	CAC-75		
				1	1.8 (3.97)	CAC-100 ②		
Bracket								
	Four Hubs Three Close-Up Plugs Rigid Conduit			3/4	2.7 (5.95)	CALB-75		
				1	2.7 (5.95)	CALB-100 ②		
25° Stanchion								
	One Hub			1-1/4 or 1-1/2 ①	0.9 (1.98)	CAS-150 ①		

① 1-1/2" Tapped hub furnished with 1-1/2" to 1-1/4" reducer.

② 1" Hubs are listed for Group D only.

③ Catalog numbers shown are supplied with clear lens. Add suffix **G** for optional Guard.

# Code•Master™ Incandescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

For use with threaded metal conduit.







### NEC:

Class I, Division 1, Groups C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3R, 4X

	Description	Weight kg (lb)	Catalog Number
Fixture Unit Only			
	Not including mounting hood	5.0 (11.02)	CJNC30I
Optional White Polyester Reflector			
	Standard Dome	1.1 (2.43)	KR2-ST
Optional White Polyester Reflector			
	Angled Reflector	1.1 (2.43)	KR2-AN
Optional Aluminum Guard			
		0.2 (0.44)	CJGU-15
Optional Three Way Exit Sign			
		3.4 (7.50)	CJEXRN
Replacement Connection Block			
		0.2 (0.44)	VPT-7

# Code•Master™ Incandescent Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

For use with threaded metal conduit.

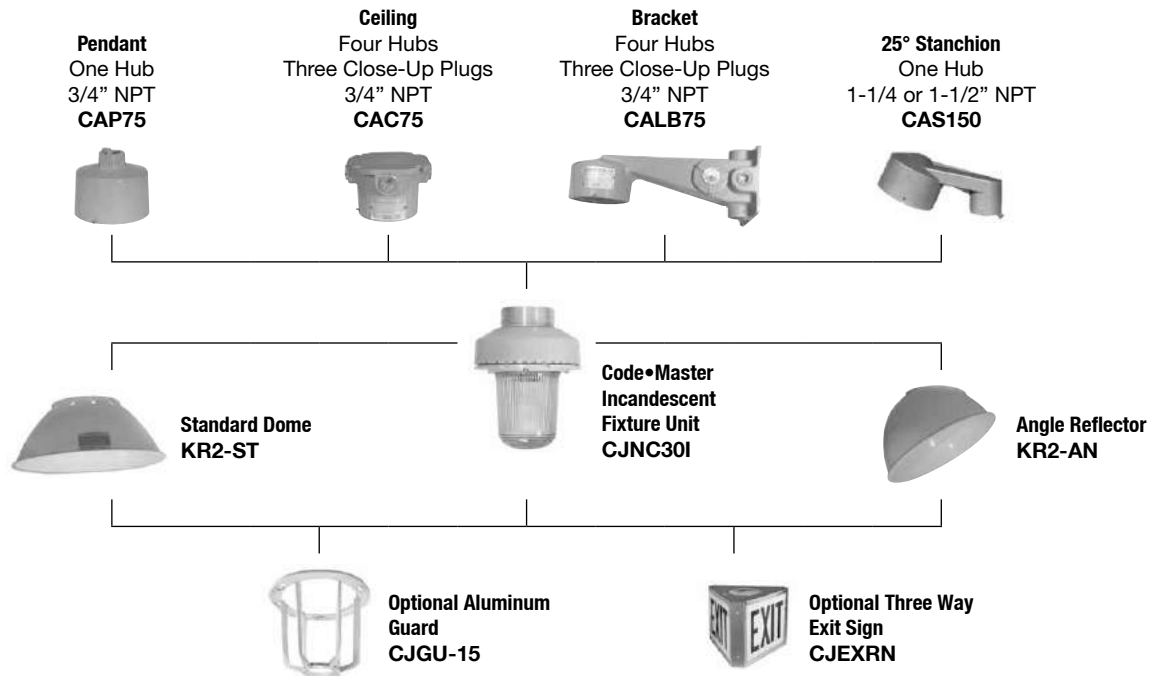
### NEC:

Class I, Division 1, Groups C, D

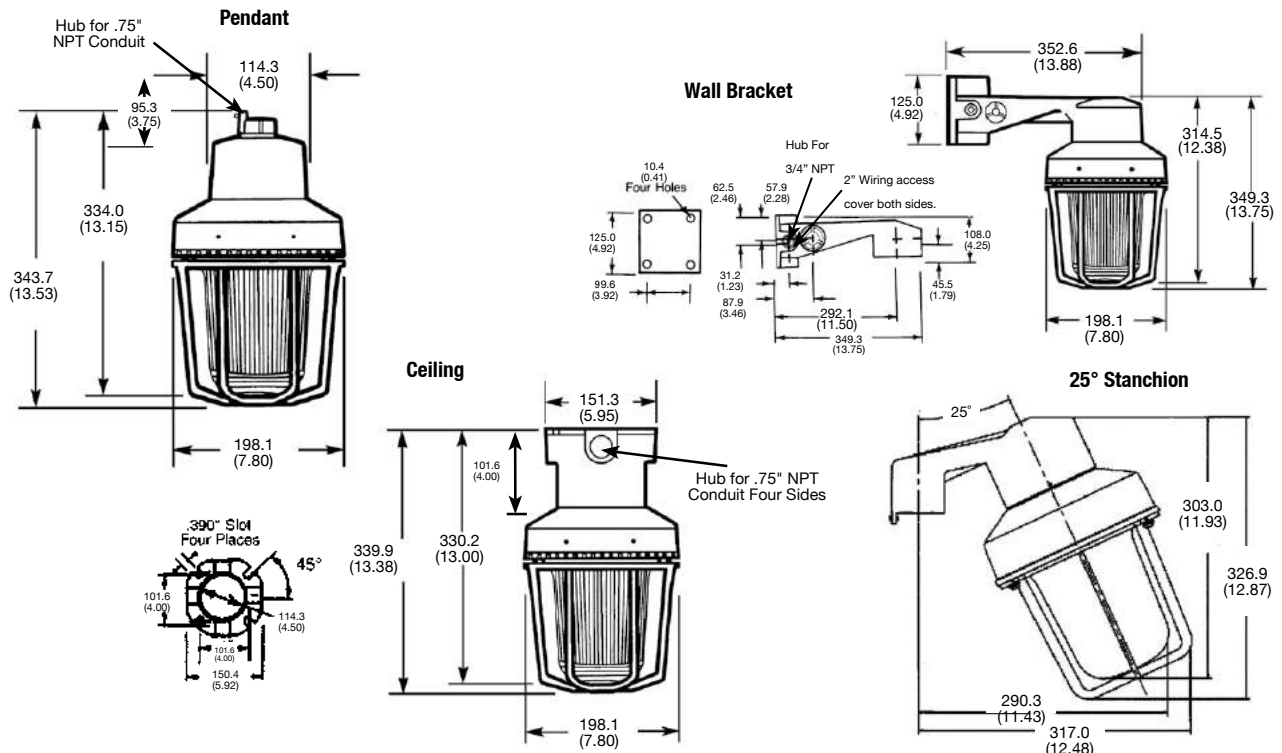
Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3R, 4X



### Dimensions in Millimeters (Inches)



# A-51™ Incandescent Factory Sealed Luminaires

## Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

**NEC/CEC — For Group A and B:**  
Class I, Division 1 and 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

**NEC/CEC — For Group C and D:**  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Applications

- A-51 Series Incandescent Class I, Groups A, B, C and D; and Class II, Groups E, F and G applications (see listings and area suitability chart).
- Ideal for use in chemical and petrochemical plants, and in other heavy process areas where ignitable vapors, dust, moisture and corrosive atmospheres may be present.
- Suitable for use in wet locations.
- Wide range of wattages – 60 W through 300 W incandescent lamps.
- Choice of units with or without guard, as well as choice of porcelain, polyester or aluminum reflectors.
- Choice of mountings: pendant, ceiling, 25° stanchion, long bracket and 15° short bracket.
- Porcelain reflectors for standard applications and fiberglass reinforced polyester reflectors for installations where fixture is subject to exceptionally severe corrosive atmospheres. High bay reflector for installations where mounting height from work plane ranges from 762 mm (20 to 30 ft/508 in).
- Class I, Groups A and B fixtures have special UL-approved sintered metal flame arrester.

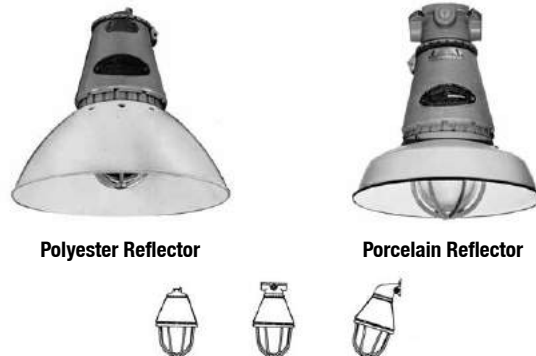
### Features

- All A-51 fixtures are factory-sealed; no external sealing fittings required.
- New high temperature phenolic connection block in mounting hood has rugged leaf spring contacts – loosen two screws, rotate and remove for quick wiring.
- Safe, easy servicing or relamping without disconnecting any wiring. “Wireless” fixture unit easily threads off mounting hood for convenient servicing or for immediate exchange with “stand-by” unit.
- All joints are flame-tight.
- Specially formulated two-coat baked epoxy enamel provides superior protective finish to resist corrosion. Applied to all mounting hoods, fixture units and guards.
- New high temperature glass-reinforced phenolic socket block in fixture unit has collector ring and pin that automatically make electrical contact as fixture unit is threaded onto mounting hood.
- Globes in A-51 fixtures are explosionproof and heat- and impact-resistant glass. Prismatic configuration on globe interior provides light control while allowing smooth exterior surface for cleaning.
- A-51 fixture units have standardized threads to fit all A-51 and mounting hoods.
- All fixtures have aluminum inner reflector for increased lumen efficiency.
- A-51 fixture guards to protect globe are of rugged copperfree aluminum construction and double epoxy coated. Easily mount to globe ring with 3 screws.

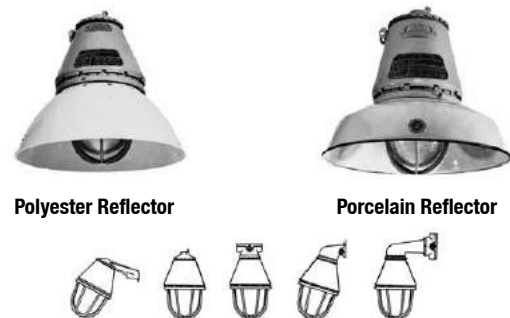
### Standard Materials

- Fixtures and guards: copperfree (4/10 of 1% max.) aluminum.
- Pendant mounting hoods: copperfree (4/10 of 1% max.) aluminum.
- Ceiling and bracket mounting hoods: malleable iron with aluminum adapters.
- Reflectors: porcelain-enameled steel, aluminum or fiberglass reinforced polyester.

Group A and B



Group C and D



### Standard Finishes

- Fixtures, guards and mounting hoods: two-coat epoxy-clad finish. Epoxy powder coat finish, electrostatically applied for complete, uniform surface protection.
- Steel reflectors: white porcelain enamel.
- Polyester and aluminum reflectors: natural finish.

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

# A-51™ Incandescent Factory Sealed Luminaires

## Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

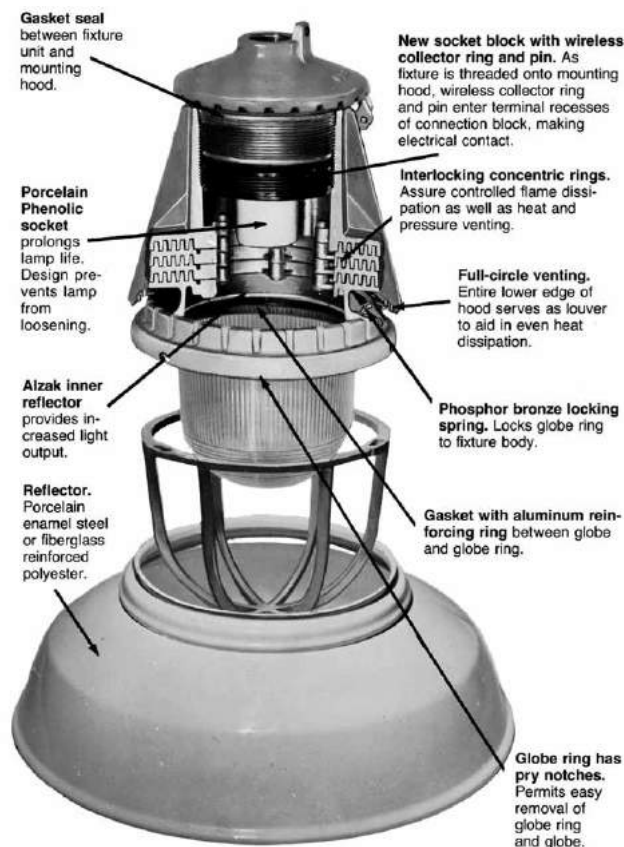
### NEC/CEC:

Class I, Division 1 and 2, Groups A, B, C, D.

Class II, Division 1 and 2, Groups E, F, G

Class III

### Illustrated Features



Alizak® is a proprietary term of the Aluminum Company of America.

### Weights

Fixture Units		
Wt. kg (lbs)		Catalog Number
3.4 (7.6)		AAU-1N
3.4 (7.6)		AAU-15N
4.9 (10.7)		AAU-2NS
9.2 (20.3)		AAU-5NS
6.8 (15.0)		AAUA-15
8.2 (18.0)		AAUA-2

Mounting Hoods		
Type		Wt. kg (lbs)
Pendant		0.6 (1.3)
Ceiling		2.2 (4.8)
Stanchion		0.7 (1.6)
Long Bracket		4.0 (8.9)
Short Bracket		2.2 (4.8)

Guards		
Wt. kg (lbs)		Catalog Number
0.2 (0.4)		AAGU-1
0.4 (0.8)		AAGU-2
0.9 (1.9)		AAGU-5
0.2 (0.5)		AAGUA-15

Standard Reflectors		
Wt. kg (lbs)		Catalog Number
1.3 (2.8)		AARP-2ST
1.0 (2.1)		AARW-15ST
1.3 (2.9)		AARW-2ST
2.0 (4.3)		AARW-5ST
1.0 (2.1)		AARW-15ST

30° Angle Reflectors		
Wt. kg (lbs)		Catalog Number
1.5 (3.3)		AARP-2AN
1.0 (2.1)		AARW-15AN
1.1 (2.4)		AARW-2AN
3.2 (7.0)		AARW-5AN
1.0 (2.1)		AARW-15AN

High Bay Reflectors		
Wt. kg (lbs)		Catalog Number
1.3 (2.9)		AARE-2HB
1.8 (3.9)		AARE-5HB

Appleton®

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

# A-51™ Incandescent Factory Sealed Luminaires

## Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

Fixture Unit	Lamp Watts	Without Reflectors	Standard Dome	30° Angle	High Bay	Supply Wire °C (°F)
<b>Class I Division 1 and Division 2 Groups C and D</b>						
AAU1N	100 W A19	T5	T5	T5	—	125 (257)
	100 W A21	T5	T5	T5	—	125 (257)
AAU15N	150 W A23	T3C	T3C	T3C	—	125 (257)
	200 W A25	T3C	T3C	T3C	—	125 (257)
	200 W PS25	T3C	T3C	T3C	—	125 (257)
	300 W PS25	T3C	T3A	T3A (D)	—	125 (257)
AAU2NS	200 W PS25	T3C	T3C	T3C	—	110 (230)
	200 W PS30	T3C	T3C	T3C	—	110 (230)
	300 W PS25	T3C	T3C	T3C	—	110 (230)
	300 W PS30	T3C	T3C	T3C	—	110 (230)
<b>Class I Division 1 and Division 2 Groups A ①, B, C and D</b>						
AAUA15	150 W A23	T3C	T3C	T3C	—	110 (230)
	150 W A25	T3C	T3C	T3C	—	110 (230)
	200 W A25	T3C	T3C	T3C	—	110 (230)
	200 W PS25	T3C	T3C	T3C	—	110 (230)
AAUA2	200 W PS25	T3C	T3C	T3C	—	110 (230)
	200 W PS30	T3C	T3C	T3C	—	110 (230)
	300 W PS25	T3C	T3C	T3C	—	110 (230)
	300 W PS30	T3C	T3C	T3C	—	110 (230)
<b>Class II Division 1 and Division 2 Groups E, F and G</b>						
AAU1N	100 W A19	T3C	T3C	T3C	—	125 (257)
	100 W A21	T3C	T3C	T3C	—	125 (257)
AAU15N	150 W A23	T3C	T3C	T3C	—	125 (257)
	200 W A25	T3C	T3C	T3C	—	125 (257)
	200 W PS25	T3	T3	T3	—	125 (257)
	300 W PS25	T3	—	—	—	125 (257)
AAU2NS	200 W PS25	T3C	T3C	T3C	—	110 (230)
	200 W PS30	T3C	T3C	T3C	—	110 (230)
	300 W PS25	T3C	T3C	T3A (EF)	—	110 (230)
	300 W PS30	T3C	T3C	T3A (EF)	—	110 (230)

NOTE: Ambient suitability of these incandescent fixtures: +40 °C (+104°F)

① For Group A, use Pendant Mount only.




# A-51™ Incandescent Factory Sealed Luminaires

## For Group C and D Locations. Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

Type		Hub Size (Inches)	Catalog Number ②
Pendant — One Hub, Rigid or Flexible Mounting			
	60-100 W (AAU-1N) A-21	1/2	AP1050
		3/4	AP1075
		1	AP10100
	150-300 W (AAU-15N) A-23 PS-25	1/2	AP1550
		3/4	AP1575
		1	AP15100
	200-300 W (AAU-2NS) PS-30	1/2	AP2050
		3/4	AP2075
		1	AP20100
Ceiling — Four Hubs, Three Close-up Plugs			
	60-100 W (AAU-1N) A-21	1/2	AC1050
		3/4	AC1075
		1	AC10100
	150-300 W (AAU-15N) A-23 PS-25	1/2	AC1550
		3/4	AC1575
		1	AC15100
	200-300 W (AAU-2NS) PS-30	1/2	AC2050
		3/4	AC2075
		1	AC20100
25° Stanchion — One Hub — Not UL Listed			
	60-100 W (AAU-1N) A-21	1-1/2 ②	AN10150
	150-300 W (AAU-15N) A-23 PS-25	1-1/2 ②	AN15150
	200-300 W (AAU-2NS) PS-30	1-1/2 ②	AN20150

① See A-51™ Incandescent Factory Sealed Luminaire Classified Area Suitability page for suitability of specific fixtures.

② 1-1/2" tapped hub furnished with a 1-1/2" to 1-1/4" reducer.

# A-51™ Incandescent Factory Sealed Luminaires






## For Group C and D Locations. Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

Appleton®

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

Type		Hub Size (Inches)	Catalog Number ②
Long Bracket — Four Hubs, Three Close-up Plugs			
	60-100 W (AAU-1N) A-21	1/2	ALB1050
		3/4	ALB1075
		1	ALB10100
	150-300 W (AAU-15N) A-23 PS-25	1/2	ALB1550
		3/4	ALB1575
		1	ALB15100
	200-300 W (AAU-2NS) PS-30	1/2	ALB2050
		3/4	ALB2075
		1	ALB20100
15° Short Bracket — Two Hubs, One Close-up Plug			
	60-100 W (AAU-1N) A-21	1/2	ASB1050
		3/4	ASB1075
	150-300 W (AAU-15N) A-23 PS-25	1/2	ASB1550
		3/4	ASB1575
	200-300 W (AAU-2NS) PS-30	1/2	ASB2050
		3/4	ASB2075
Three-Way Exit Sign			
	Epoxy enameled steel – 152.4 mm (6 in)-high red lettering 60-200 W (Mounts to AAU-1N or AAU-15N fixture units in place of guard)		CJEXRN
Single-Sided Exit Sign			
	Epoxy enameled steel – 152.4 mm (6 in)-high red lettering 60-200 W (Mounts to AAU-1N or AAU-15N fixture units in place of guard) (See page G2-24 for dimensions)		AEXR-15R
Guard — Add suffix to fixture catalog number			
	Guard		-G









② See A-51™ Incandescent Factory Sealed Luminaire Classified Area Suitability page for suitability of specific fixtures.

# A-51™ Incandescent Factory Sealed Luminaires

## For Group C and D Locations. Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

NEC/CEC — For Group C and D:  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

Mounting Hoods		
Type	Hub Size (Inches)	Catalog Number
Pendant — One Hub, Rigid or Flexible Mounting		
	1/2	AAP-50
	3/4	AAP-75
	1	AAP-100
Ceiling — Four Hubs, Three Close-up Plugs		
	1/2	AAC-50
	3/4	AAC-75
	1	AAC-100
25° Stanchion — Not UL Listed — One Hub		
	1-1/2	AAN-150 ①
Long Bracket — Four Hubs, Three Close-up Plugs		
	1/2	AALB-50
	3/4	AALB-75
	1	AALB-100
15° Short Bracket — Two Hubs, One Close-up Plug		
	1/2	AASB-50
	3/4	AASB-75
Type	Catalog Number	
Fixture Units		
	60-100 W A-21	AAU-1N
	150-300 W A-23 and PS-25	AAU-15N
	200-300 W PS-30	AAU-2NS
Prismatic Glass Globes		
	60-100 W (AAU-1N)	AAGL-1PR
	150-300 W (AAU-15N)	AAGL-1PR
	200-300 W (AAU-2NS)	AAGL-2PR
Aluminum Guards		
	60-100 W (AAU-1N)	AAGU-1
	150-300 W (AAU-15N)	AAGU-1
	200-300 W (AAU-2NS)	AAGU-2










① 1-1/2" tapped hub furnished with a 1-1/2" to 1-1/4" reducer.

# A-51™ Incandescent Factory Sealed Luminaires

## For Group C and D Locations. Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

NEC/CEC — For Group C and D:  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

Type	Fixture Size	Catalog Number								
Standard Dome										
 406.4 (16.00) Porcelain	 406.4 (16.00) Polyester	(Not for use with short brackets) 60-100 W (AAU-1N) 150-300 W (AAU-15N) 200-300 W (AAU-2NS)								
		<table><tr><th>Porcelain</th><th>Polyester</th></tr><tr><td>AARW-15ST</td><td>—</td></tr><tr><td>AARW-15ST</td><td>—</td></tr><tr><td>AARW-2ST</td><td>AARP-2ST</td></tr></table>	Porcelain	Polyester	AARW-15ST	—	AARW-15ST	—	AARW-2ST	AARP-2ST
Porcelain	Polyester									
AARW-15ST	—									
AARW-15ST	—									
AARW-2ST	AARP-2ST									
30° Angle										
 304.8 (12.00) Porcelain	 304.8 (12.00) Polyester	60-100 W (AAU-1N) 150-300 W (AAU-15N) 200-300 W (AAU-2NS)								
		<table><tr><td>AARW-15AN</td><td>—</td></tr><tr><td>AARW-15AN</td><td>—</td></tr><tr><td>AARW-2AN</td><td>AARP-2AN</td></tr></table>	AARW-15AN	—	AARW-15AN	—	AARW-2AN	AARP-2AN		
AARW-15AN	—									
AARW-15AN	—									
AARW-2AN	AARP-2AN									
Colored Glass Globes										
	Amber									
	60-100 W (AAU-1N)	AAGL-1A								
	150-300 W (AAU-15N)	AAGL-1A								
	200-300 W (AAU-2NS)	AAGL-2A								
	Green									
	60-100 W (AAU-1N)	AAGL-1G								
	150-300 W (AAU-15N)	AAGL-1G								
	200-300 W (AAU-2NS)	AAGL-2G								
	Red									
60-100 W (AAU-1N)	AAGL-1R									
150-300 W (AAU-15N)	AAGL-1R									
200-300 W (AAU-2NS)	AAGL-2R									
Replacement Socket										
 AASP-22	 AASP-44	60-100 W (AAU-1N) — Medium Base 150-300 W (AAU-15N) — Medium Base 200-300 W (AAU-2NS) — Medium Base								
		<table><tr><td>AASP-11</td></tr><tr><td>AASP-22</td></tr><tr><td>AASP-44</td></tr></table>	AASP-11	AASP-22	AASP-44					
AASP-11										
AASP-22										
AASP-44										
Connection Block										
	Fits A-51 Mounting Hoods 60-300 W	VPT-7								
Globe Gaskets — Fiber and Aluminum										
	Requires one of each 60-300 W (AAU-1N and AAU-15N) 200-300 W (AAU-2NS)	<table><tr><th>Fiber</th><th>Aluminum</th></tr><tr><td>AASP-15V</td><td>AASP-15A</td></tr><tr><td>AASP-2V</td><td>AASP-2A</td></tr></table>	Fiber	Aluminum	AASP-15V	AASP-15A	AASP-2V	AASP-2A		
Fiber	Aluminum									
AASP-15V	AASP-15A									
AASP-2V	AASP-2A									

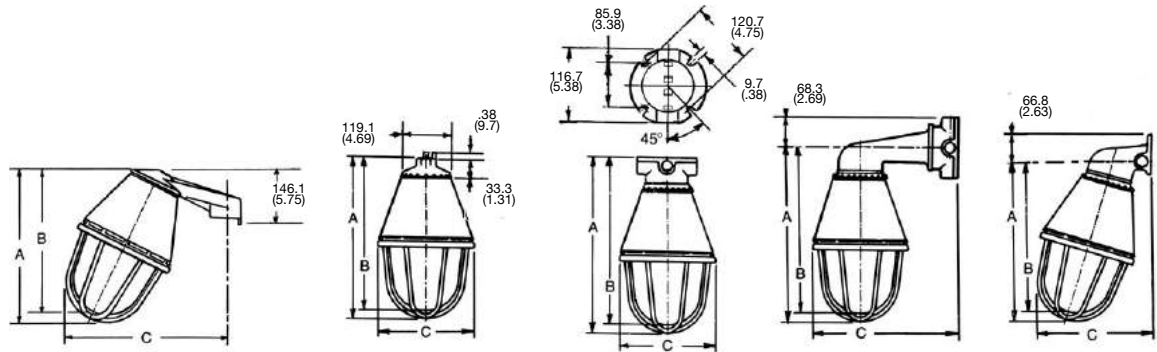
# A-51™ Incandescent Factory Sealed Luminaires

## For Group C and D Locations. Explosionproof

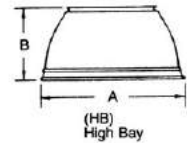
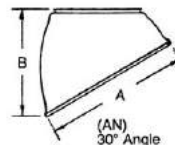
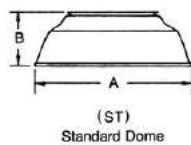
Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

NEC/CEC — For Group C and D:  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Dimensions in Millimeters (Inches)



Size (Watts)	Stanchion mm (in)			Pendant ① mm (in)			Ceiling mm (in)			Long Bracket mm (in)			Short Bracket mm (in)		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
60-100	291.3 (11.47)	275.6 (10.85)	292.1 (11.50)	311.2 (12.25)	295.4 (11.63)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	314.5 (12.38)	344.4 (13.56)	328.7 (12.94)	231.9 (9.13)
150-300	291.3 (11.47)	275.6 (10.85)	292.1 (11.50)	311.2 (12.25)	295.4 (11.63)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	314.5 (12.38)	344.4 (13.56)	328.7 (12.94)	231.9 (9.13)
200-300	332.0 (13.07)	314.5 (12.38)	322.8 (12.71)	354.1 (13.94)	336.6 (13.25)	223.8 (8.81)	392.2 (15.44)	374.7 (14.75)	223.8 (8.81)	392.2 (15.44)	374.7 (14.75)	336.6 (13.25)	385.8 (15.19)	363.8 (14.50)	257.3 (10.13)



Size (Watts)	A ②	B ②	A	B	A	B
60-100	304.8 (12.00)	114.3 (4.50)	254.0 (10.00)	193.8 (7.63)	-	-
150-200	355.6 (14.00)	111.3 (4.38)	254.0 (10.00)	193.8 (7.63)	-	-
200-300	406.4 (16.00)	131.8 (5.19)	304.8 (12.00)	200.2 (7.88)	304.8 (12.00)	153.9 (6.06)

① For dimensions of fixture unit only, subtract pendant hood dimension 3.3 cm (1.31") from dimensions A and B as listed.

② Dimensions illustrated are for porcelain steel (dome and angle) and etched aluminum (high bay).

Overall dimensions for fiberglass reinforced polyester reflectors are: standard dome – 419.1 mm (16-1/2") dia., (6") (152.4) high;  
30° Angle – 374.7 mm (14-3/8") dia., 254 mm (10") high.

# A-51™ Incandescent Factory Sealed Luminaires

## For Group C and D Locations. Explosionproof

Photometric data shown here is based on a 200-watt type PS-30 lamp and is representative of the performance for all A-51 incandescent fixtures using 60-watt to 300-watt lamps. For candlepower values of fixtures with other lamps, use the following multipliers: 60 W A-19 - 0.23; 100 W A-19 - 0.47; 150 W A-21 - 0.75; 200 W A-23 - 1.07; 200 W A-25 - 1.02; 200 W PS-25 - 1.03; 300 W PS-25 - 1.70; W PS-30 - 1.63. To determine candlepower values of fixtures with a guard, multiply by value shown with each curve.

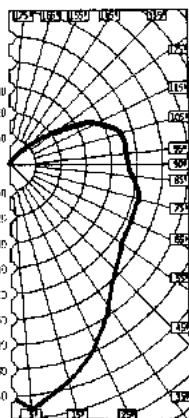
**NEC/CEC — For Group C and D:**  
**Class I, Division 1 and 2, Groups C, D**  
**Class II, Division 1 and 2, Groups E, F, G**  
**Class III**

### Photometric Data

#### Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	1	.735	.690	.651	.695	.655	.618	.622	.590	.561	.554	.530	.506	.493	.473	.454	.422	
	2	.621	.558	.503	.588	.530	.481	.525	.478	.437	.467	.430	.396	.413	.384	.357	.327	
	3	.540	.468	.411	.512	.446	.394	.457	.404	.359	.406	.363	.327	.360	.325	.294	.267	
	4	.474	.400	.342	.450	.381	.328	.402	.346	.301	.359	.312	.274	.318	.280	.248	.223	
	5	.415	.341	.284	.394	.325	.272	.354	.295	.251	.316	.266	.229	.280	.240	.207	.184	
	6	.372	.297	.245	.352	.284	.233	.316	.258	.215	.283	.234	.197	.252	.210	.178	.157	
	7	.334	.262	.213	.317	.249	.203	.285	.227	.187	.255	.207	.170	.228	.187	.155	.136	
	8	.300	.231	.182	.285	.221	.175	.256	.202	.162	.231	.183	.148	.206	.165	.135	.117	
	9	.271	.204	.157	.258	.195	.152	.233	.178	.140	.209	.162	.128	.187	.146	.117	.100	
	10	.246	.181	.139	.234	.175	.135	.212	.160	.124	.191	.145	.113	.172	.132	.102	.087	

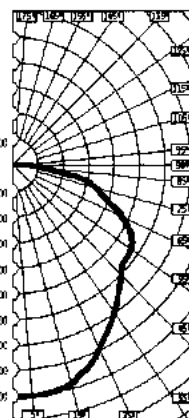
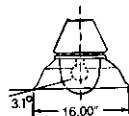
**A-51 Incandescent  
 Fixture without Reflector**  
 Spacing to Mtg. Ht.  
 Ratio 1.25:1  
 Guard .877



#### Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	1	.757	.727	.700	.740	.713	.689	.709	.686	.667	.681	.663	.646	.656	.641	.627	.612	
	2	.660	.613	.572	.647	.603	.567	.621	.585	.552	.598	.568	.540	.577	.551	.528	.512	
	3	.580	.524	.478	.570	.516	.475	.549	.504	.466	.529	.490	.458	.511	.478	.449	.434	
	4	.514	.452	.403	.504	.446	.400	.486	.436	.395	.469	.425	.390	.454	.415	.384	.368	
	5	.451	.385	.336	.442	.380	.334	.427	.372	.332	.413	.364	.327	.399	.357	.323	.308	
	6	.402	.336	.291	.394	.333	.286	.381	.326	.285	.369	.319	.282	.358	.313	.279	.264	
	7	.361	.296	.254	.355	.293	.250	.343	.286	.247	.332	.282	.245	.323	.278	.243	.229	
	8	.323	.261	.216	.318	.258	.216	.308	.254	.215	.299	.249	.213	.290	.245	.211	.197	
	9	.291	.230	.187	.287	.227	.187	.278	.223	.186	.269	.219	.184	.262	.216	.182	.169	
	10	.264	.204	.166	.259	.204	.166	.253	.200	.164	.245	.197	.162	.240	.194	.161	.149	

**A-51 Incandescent Fixture with  
 Standard Dome Reflector**  
 Spacing to Mtg. Ht.  
 Ratio 1.25:1  
 Guard .890



# A-51™ Incandescent Factory Sealed Luminaires

## For Group C and D Locations. Explosionproof

Photometric data shown here is based on a 200-watt type PS-30 lamp and is representative of the performance for all A-51 incandescent fixtures using 60-watt to 300-watt lamps. For candlepower values of fixtures with other lamps, use the following multipliers: 60 W A-19 – 0.23; 100 W A-19 – 0.47; 150 W A-21 – 0.75; 200 W A-23 – 1.07; 200 W A-25 – 1.02; 200 W PS-25 – 1.03; 300 W PS-25 – 1.70; 300 W PS-30 – 1.63. To determine candlepower values of fixtures with a guard, multiply by value shown with each curve.

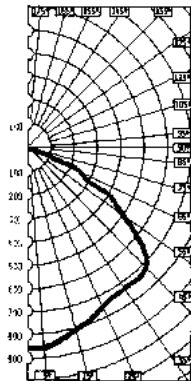
**NEC/CEC — For Group C and D:**

**Class I, Division 1 and 2, Groups C, D**

**Class II, Division 1 and 2, Groups E, F, G**

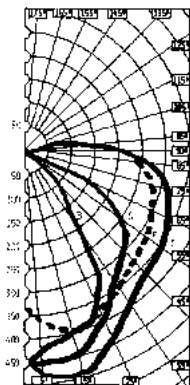
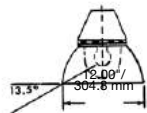
**Class III**

### Photometric Data



**A-51 Incandescent Fixture with High Bay Reflector**

Spacing to Mtg.  
Ht. Ratio 1.40:1  
Guard .865



**A-51 Incandescent Fixture with 30° Reflector**



Back  
S—Side  
F—Front  
G—Front W.Guard

Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	1		.686	.644	.645	.671	.651	.634	.644	.628	.614	.620	.607	.595	.598	.588	.577	.566
	2		.614	.580	.549	.603	.571	.545	.581	.555	.531	.562	.540	.520	.544	.525	.508	.496
	3		.550	.508	.473	.542	.501	.470	.524	.490	.461	.507	.478	.454	.492	.467	.446	.434
	4		.493	.445	.408	.486	.441	.404	.470	.431	.400	.456	.422	.395	.443	.413	.389	.377
	5		.439	.387	.349	.432	.383	.347	.420	.376	.344	.407	.369	.340	.396	.363	.336	.324
	6		.393	.340	.304	.387	.338	.300	.376	.331	.298	.366	.326	.296	.356	.320	.293	.281
	7		.352	.299	.264	.347	.296	.261	.337	.290	.258	.327	.287	.256	.320	.283	.254	.242
	8		.313	.261	.224	.309	.259	.223	.300	.255	.222	.293	.251	.220	.285	.247	.219	.207
	9		.280	.228	.191	.276	.225	.191	.268	.222	.190	.261	.219	.189	.254	.216	.187	.176
	10		.252	.201	.168	.248	.201	.168	.242	.197	.167	.236	.195	.165	.231	.192	.164	.153

Appleton®

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

# A-51™ Incandescent Factory Sealed Luminaires

## For Group A and B Locations. Explosionproof








Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups A♦, B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

		Hub Size (Inches)	Catalog Number ①②
<b>Pendant ♦ — One Hub, Rigid or Flexible Mounting</b>			
	60-200 W (AAUA-15)	1/2	<b>AAPA1550</b>
	PS-25	3/4	<b>AAPA1575</b>
	200-300 W (AAUA-2)	1/2	<b>AAPA2050</b>
	PS-30	3/4	<b>AAPA2075</b>
<b>Ceiling — Four Hubs, Three Close-up Plugs</b>			
	60-200 W (AAUA-15)	1/2	<b>AACA1550</b>
	PS-25	3/4	<b>AACA1575</b>
	200-300 W (AAUA-2)	1/2	<b>AACA2050</b>
	PS-30	3/4	<b>AACA2075</b>
<b>15° Short Bracket — Two Hubs, One Close-up Plug</b>			
	60-200 W (AAUA-15)	1/2	<b>AASBA1550</b>
	PS-25	3/4	<b>AASBA1575</b>
	200-300 W (AAUA-2)	1/2	<b>AASBA2050</b>
	PS-30	3/4	<b>AASBA2075</b>
<b>Reflectors</b>			
<b>Porcelain</b>	<b>Polyester</b>	<b>Standard Dome</b>	
			
406.4 (16.00)	406.4 (16.00)		
		60-200 W (AAUA-15)	<b>Porcelain</b> <b>AARW-15ST</b>
		200-300 W (AAUA-2)	<b>AARW-2ST</b> <b>Polyester</b> <b>AARP-2ST</b>
<b>30° Angle</b>			
			
304.8 (12.00)	304.8 (12.00)	60-200 W (AAUA-15)	<b>AARW-15AN</b>
		200-300 W (AAUA-2)	<b>AARW-2AN</b> <b>AARP-2AN</b>

① See A-51™ Incandescent Factory Sealed Luminaire Classified Area Suitability page for suitability of specific fixtures.

② Add suffix -G to catalog number for optional guard.

♦ Shaded area indicates pendant mount is suitable for Class I, Group A in addition to other applicable area suitabilities.









# A-51™ Incandescent Factory Sealed Luminaires

## For Group A and B Locations. Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

NEC/CEC — For Group A and B:  
Class I, Division 1 and 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Mounting Hoods

	Type	Hub Size (Inches)	Catalog Number
<b>Pendant</b> 	One Hub, Rigid or Flexible Mounting	1/2	<b>AAP-50</b> ①
		3/4	<b>AAP-75</b> ①
<b>Ceiling</b> 	Four Hubs, Three Close-up Plugs	1/2	<b>AAC-50</b>
		3/4	<b>AAC-75</b>
<b>15° Short Bracket</b> 	Two Hubs, One Close-up Plug	1/2	<b>AASB-50</b>
		3/4	<b>AASB-75</b>
	Description	Catalog Number	
<b>Fixture Units</b> 	60-200 W PS-25	<b>AAUA-15</b>	
	200-300 W PS-30	<b>AAUA-2</b>	
<b>Globe and Ring Assembly</b> 	60-200 W (AAUA-15)	<b>AAGLA-15</b>	
	200-300 W (AAUA-2)	<b>AAGLA-2</b>	
<b>Aluminum Guards</b> 	60-200 W (AAUA-15)	<b>AAGUA-15</b>	
	200-300 W (AAUA-2)	<b>AAGU-2</b>	
<b>Medium Base Lamp Socket</b> 	60-200 W (AAUA-15)	<b>AASPA-15</b>	
	200-300 W (AAUA-2)	<b>AASPA-22</b>	
<b>Connection Block</b> 	Fits all A-51 and AA-51 mounting hoods 60-300 W	<b>VPT-7</b>	

① Group A pendant mount only.

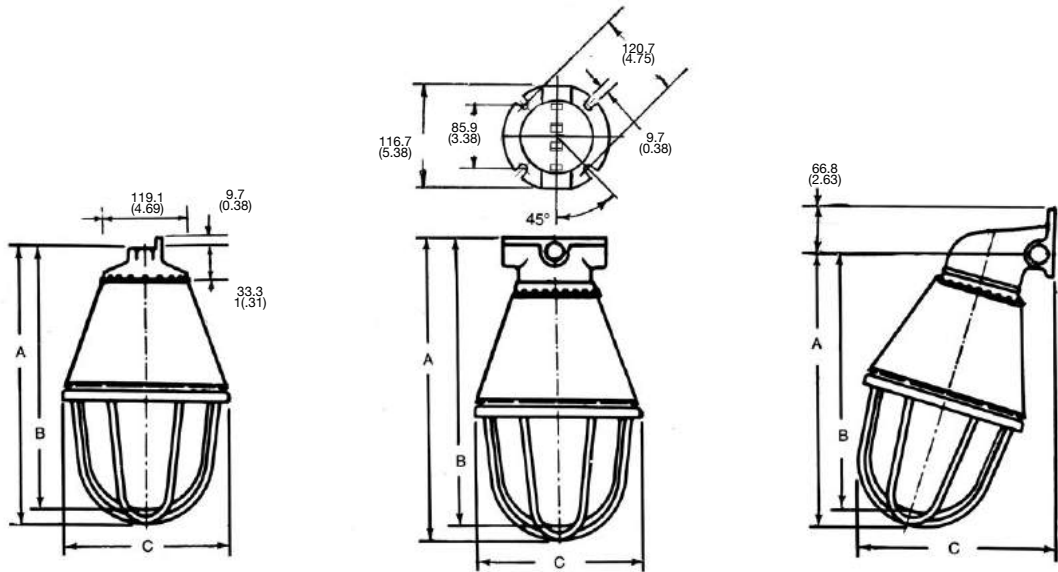
A-51™ Incandescent Factory Sealed Luminaires

For Group A and B Locations. Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

NEC/CEC — For Group A and B:  
Class I, Division 1 and 2, Groups A, B, C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

Dimensions in Millimeters (Inches)



Size (Watts)	Pendant			Ceiling			Short Bracket		
	A	B	C	A	B	C	A	B	C
60-200	347.7 (13.69)	333.5 (13.13)	179.3 (7.06)	419.1 (16.50)	404.9 (15.94)	179.3 (7.06)	381.0 (15.00)	366.8 (14.44)	241.3 (9.50)
200-300	374.7 (14.75)	347.7 (13.69)	223.8 (8.81)	446.0 (17.56)	419.1 (16.50)	223.8 (8.81)	406.4 (16.00)	392.2 (15.44)	263.7 (10.38)

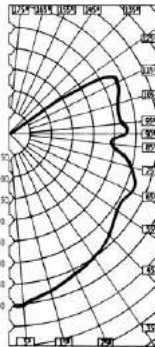
# A-51™ Incandescent Factory Sealed Luminaires

## For Group A and B Locations. Explosionproof

Photometric data shown here is based on a 200 watt type PS-25 lamp, and is representative of the performance for A-51 incandescent fixtures (Groups A and B). For candlepower values of fixtures with other lamps, use the following multipliers: 150 W (PS-25) – 0.70; and 300 W (PS-25) – 1.6. To determine candlepower values of fixtures with a guard, multiply by value shown with each curve.

**NEC/CEC — For Group A and B:**  
**Class I, Division 1 and 2, Groups A, B, C, D**  
**Class II, Division 1 and 2, Groups E, F, G**  
**Class III**

### Photometric Data



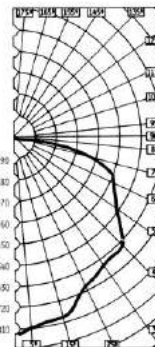
#### A-51 Incandescent Fixture without Reflector

Spacing to Mtg.  
Ht. Ratio 1.34:1  
Guard .80



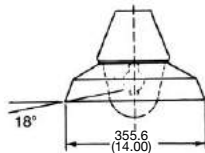
#### Effective Floor Cavity Reflectance (Rfc) is 20% (No Reflector)

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0		
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
ROOM CAVITY RATIOS	1	.711	.669	.630	.669	.631	.595	.590	.560	.533	.518	.495	.473	.452	.434	.417	.383			
	2	.602	.541	.488	.567	.511	.465	.499	.455	.416	.437	.402	.371	.380	.352	.327	.296			
	3	.519	.449	.393	.488	.424	.374	.430	.379	.336	.375	.335	.300	.325	.292	.264	.236			
	4	.456	.384	.328	.430	.364	.312	.379	.325	.282	.332	.288	.252	.288	.252	.223	.197			
	5	.400	.328	.274	.378	.311	.260	.334	.278	.236	.293	.247	.211	.254	.217	.187	.164			
	6	.357	.285	.234	.336	.270	.221	.297	.242	.200	.261	.215	.180	.227	.188	.159	.138			
	7	.318	.248	.200	.300	.234	.190	.265	.209	.171	.233	.187	.153	.204	.165	.135	.116			
	8	.287	.219	.172	.270	.208	.164	.240	.187	.149	.212	.167	.134	.184	.147	.119	.101			
	9	.260	.194	.150	.246	.185	.143	.218	.166	.130	.192	.148	.117	.168	.131	.103	.087			
	10	.236	.173	.132	.222	.166	.126	.199	.149	.114	.175	.133	.102	.154	.117	.090	.075			



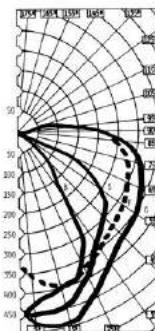
#### A-51 Incandescent Fixture with Standard Dome Reflector

Spacing to Mtg.  
Ht. Ratio 1.2:1  
Guard .80

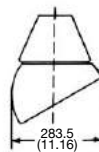


#### Effective Floor Cavity Reflectance (Rfc) is 20% (No Reflector)

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0		
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
ROOM CAVITY RATIOS	1	.797	.763	.733	.779	.748	.721	.745	.720	.697	.715	.695	.676	.689	.671	.655	.640			
	2	.687	.633	.586	.673	.622	.581	.645	.603	.566	.620	.585	.553	.597	.567	.541	.524			
	3	.594	.530	.478	.583	.522	.474	.560	.508	.464	.538	.494	.457	.519	.481	.448	.431			
	4	.527	.458	.404	.517	.452	.400	.497	.440	.395	.479	.430	.390	.462	.419	.384	.366			
	5	.466	.393	.340	.456	.388	.337	.440	.379	.335	.424	.371	.330	.410	.364	.326	.310			
	6	.414	.342	.292	.406	.339	.288	.391	.331	.286	.378	.324	.283	.367	.317	.280	.264			
	7	.369	.298	.252	.362	.294	.248	.350	.288	.245	.337	.284	.242	.328	.279	.240	.225			
	8	.333	.265	.217	.327	.262	.216	.316	.257	.215	.307	.252	.213	.297	.248	.211	.196			
	9	.302	.235	.189	.297	.232	.189	.287	.229	.188	.278	.224	.186	.270	.221	.185	.170			
	10	.273	.209	.167	.268	.209	.167	.261	.204	.166	.253	.201	.163	.247	.198	.162	.149			



#### A-51 Incandescent Fixture with 30° Angle Reflector



B—Back  
S—Side  
F—Front  
G—Front W/Guard


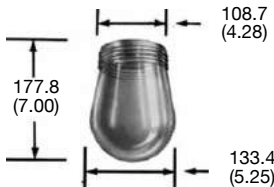
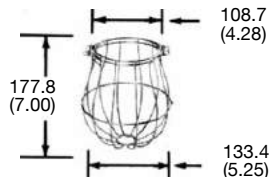

# EDT Incandescent Luminaires

## Dust-Ignitionproof

Suitable for use in Wet Locations.

NEC/CEC:

Class II, Division 1 and 2, Groups E, F, G  
Class III

Description		Watts	Hub Size (Inches)	Catalog Number
Pendant Lighting Fixture mm (in)①				
	One tapped opening for rigid or flexible mounting, with heat-resistant clear globe	60-200 W	1/2	EDTP2050
Heat-Resistant Clear Glass Globe				
		60-200 W		VSGL-2HR
Globe Guard				
		60-200 W		DPGU-2
Replacement Porcelain Shock-Absorbing Socket — Medium Base				
		60-200 W		VPLR-123

① T3C maximum operating temperature. Supply wire +150 °C (+302 °F). Maximum ambient temperature +25 °C (+77 °F). Vertical mount only (globe down).

# ATX™ HBE Series Round Bulkhead Luminaires

## Increased Safety. Incandescent

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**Ⓔ II 2 GD**  
**IP65**

### Applications

- Suitable for use in:
  - Stairways
  - Small areas
  - Emergency exit

### Features

- For incandescent lamps 60 W to 150 W maximum, mixed lamp 100 W maximum. Lamps not supplied.
- E27 lampholder.
- Screw locking mechanism.
- Operates in all positions.
- Connection to lampholder via two 2 x 2.5 mm<sup>2</sup> (0.003 x 0.004 in<sup>2</sup>) terminals.
- Internal earth two terminals 2 x 2.5 mm<sup>2</sup> (0.003 x 0.004 in<sup>2</sup>). External earth 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Three M20 entries in "T" formation. Supplied with one M20 cable gland [6.5 to 14.5 mm (0.26 to 0.57 in) diameter] and two M20 blanking plugs.

### Standard Materials

- Body: gray painted aluminum alloy
- Diffuser: glass
- Sealing gasket: silicone
- Guard: zinc plated steel
- Cable gland and blanking plug: polyamide

### ATEX Certifications and Compliances

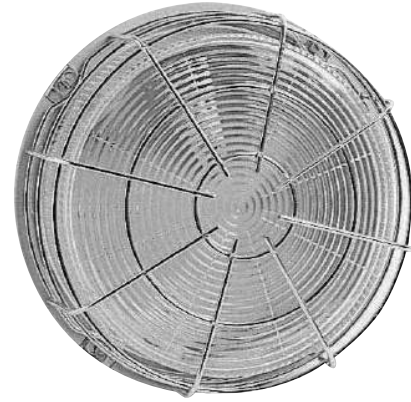
- Certification Type: HBe150
  - Gas: Zones 1 and 2
    - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
    - Type of Protection: Ex e II
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zones 21 and 22
    - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T102 °C to T137 °C (T216 °F to T279 °F)
- Ambient Temperature: -40 °C to +50 °C (-40 °F to +122 °F)
- CE Declaration of Conformity: 50244
- ATEX Certificate: LCIE 02 ATEX 6228X
- Index of Protection according EN/IEC 60529: IP65

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC 11.0494-X ①



HBeri15 and HBEPGZ

INCANDESCENT / AREA: ATEX INCREASED SAFETY


Appleton®

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ HBE Series Round Bulkhead Luminaires

Increased Safety. Incandescent











ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP65

	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
	3 (6.61)	15 (915.36)	<b>HBERI15</b>

## Accessories

	Catalog Number
Protective Guard	<b>HBEPGZ</b>
Spare Lamp Glass	<b>HBEGD</b>

## T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage			Gas				Dust
Wattage	Type	Operating Positions	For Ta = +40° C (+104° F)		+50° C (+122° F)		Surface T° for Ta = +50° C (+122° F)
			T Rating	T° at Cable Entry	T Rating	T° at Cable Entry	
60	Incandescent	Any Position	<b>T2</b>	①	<b>T2</b>	①	+102 °C (+216°F)
			<b>T3</b>	①	<b>T3</b>	①	
			<b>T4</b>	①	<b>T4</b>	①	
75	Incandescent	Any Position	<b>T2</b>	①	<b>T2</b>	①	+107 °C (+225°F)
			<b>T3</b>	①	<b>T3</b>	①	
			<b>T4</b>	①	<b>T4</b>	①	
100	Mercury	Any Position	<b>T2</b>	①	<b>T2</b>	+83 °C (+181°F)	+117 °C (+243°F)
			<b>T3</b>	①	<b>T3</b>	+83 °C (+181°F)	
			<b>T3</b>	①	<b>T3</b>	①	
100	Incandescent	Any Position	<b>T1</b>	+90 °C (+194 °F)	<b>T1</b>	+100 °C (+212 °F)	+137 °C (+279°F)
			<b>T3</b>	+90 °C (+194 °F)	<b>T2</b>	+100 °C (+212 °F)	
			<b>T3</b>	①	<b>T3</b>	①	
150	Mixed	Any Position	<b>T2</b>	+82 °C (+ 180°F)	<b>T2</b>	+92 °C (198 °F)	+130 °C (+266°F)
			<b>T3</b>	+82 °C (+ 180°F)	<b>T3</b>	+92 °C (198 °F)	
			<b>T3</b>	①	<b>T3</b>	①	

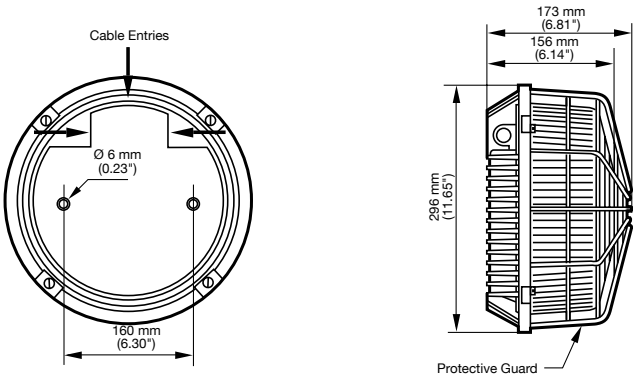
① Not Applicable, no need for high temperature cable for cable entry temperature less than +80 °C (+176 °F).

# ATX™ HBE Series Round Bulkhead Luminaires

## Increased Safety. Incandescent

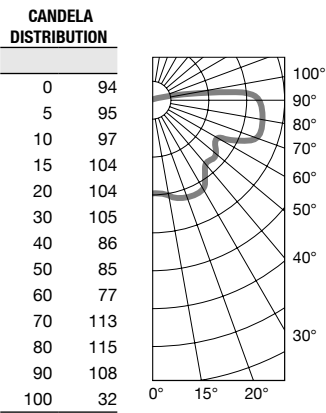
**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**II 2 GD**  
**IP65**

### Dimensions in Millimeters (Inches)



### Photometric Data ①

150 W Incandescent  
 NF C 71-120: .062 J + 0.10 T



① Polar curves for a 1000 lm flux, according to NF C 71-120. Luminaire symbol according to NF C 71-121.

# ATX™ ELS Series Self-Contained Emergency Lighting Unit

## Incandescent

ATEX:  
Zone 2 and 22  
II 3 GD  
IP66

### Applications

- Enclosed and gasketed, non-metallic emergency lighting system suitable for use where flammable gases, vapors or dusts may become present due to abnormal conditions defined as Zone 2 and 22.
- Typical applications include manufacturing plants, refineries, petrochemical and chemical plants, waste and sewage treatment facilities, food processing facilities and other industrial manufacturing or process facilities subject to wet or corrosive conditions.

### Features

- Provides 90 minutes of emergency lighting.
- The electronics consists of a solid state charger, transfer circuit and low voltage disconnect circuit.
- A LED pilot light indicates the presence of AC line voltage, and a test switch is provided for testing transfer operation.
- Upon restoration of normal power, the charger will begin a recharge cycle. It will bring the battery to full capacity.
- 6 A fuse provided as standard.
- 12 Vdc, 10 W or 21 W incandescent lamps.
- ATEX/IEC lamp base BA15D.
- Battery capacity 7 A/h.
- Connections on 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>) terminals.

### Standard Materials

- Fiberglass reinforced polyester housing, carbon loaded for low resistivity
- Aluminium glass sealed spotlight

### ATEX Certifications and Compliances

- Certification Type: ELS
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: II 3 G
    - Type of Protection: Ex nAR II
    - Temperature Class: T2
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: II 3 D
    - Type of Protection: Ex tD A22
    - Surface Temperature: +121 °C (+250 °F)
- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- CE Declaration of Conformity: 50282
- ATEX Certificate: LCIE 02 ATEX 6046
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10 (housing)

### Other Certification

- INMETRO Certificate: BVC11.0643-X ①



2 Lamp Version — ELS 2100712A

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ ELS Series Self-Contained Emergency Lighting Unit

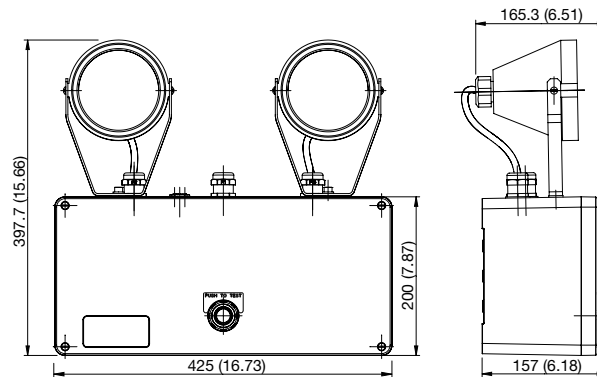
## Incandescent

ATEX:  
Zone 2 and 22  
II 3 GD  
IP66

2 x M20 entries at the top, supplied with one M20 polyamide cable gland [cable diameter 6.5 to 14.5 mm (0.26 x 0.57 in)] and one M20 blanking plug.

Number of Lamps	Wattage (W)	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number	
				205–254 Vac, 50/60 Hz	110 – 120 Vac, 50/60 Hz
1	10	8.50 (18.74)	4.55 (277.7)	ELS1100712A	ELS1100712B
2	10	7.70 (16.98)	4.80 (292.9)	ELS2100712A	ELS2100712B
1	21	8.50 (18.74)	4.55 (277.7)	ELS1210712A	ELS1210712B
2	21	7.70 (16.98)	4.80 (292.9)	ELS2210712A	ELS2210712B

### Dimensions in Millimeters (Inches)



INCANDESCENT/AREA: ATEX EMERGENCY SAFETY

Appleton®

# ATX™ HBD Series Bulkhead Luminaires

## Flameproof. Incandescent, Compact Fluorescent, Mixed

ATEX:  
Zone 1 and 2 – 21 and 22  
Ⓢ II 2 GD  
IP66 - IK08

### Applications

- Suitable for use in:
  - Stairways
  - Small areas
  - Emergency exit

### Features

- HBDR
  - Lamps (not supplied)
  - Incandescent 200 W maximum
  - Compact Fluorescent 23 W maximum
  - Mixed 160 W maximum
  - Threaded flameproof joint.
  - Operates on ceiling and wall.
- HBDO
  - Incandescent 60 W to 100 W maximum
  - Compact fluorescent 15 W maximum
  - Operates in any position.
  - For incandescent 60 W and 100 W a high temperature cable 106 °C (223 °F) is required.
- Lamps are not supplied.
- E27 lampholder.
- Fixing by two integrated brackets.
- Connection to lampholder via two terminals 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>).
- Internal earth two terminals 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>).
- External earth one 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
- 3 x M20 threaded entries in “T” formation.
- Supplied with two blanking plugs M20.

### Standard Materials

- Body and bezel: gray painted aluminum
- Glass: sealed toughened lamp glass
- Protective guard: zinc plated steel

### ATEX Certifications and Compliances

- HBRD
  - Certification Type: HBRd
  - Gas: Zones 1 and 2
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
    - ATEX/IEC Protection: Ex d IIC
    - T Rating: See *T Rating for Gas Table*
  - Dust: Zones 21 and 22
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - ATEX/IEC Protection: Ex tD A21
  - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
  - CE Declaration of Conformity: 50242
  - ATEX Certificate: LCIE 02 ATEX 6163
- HBDO
  - Certification Type: HBOD
  - Gas: Zones 1 and 2
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
    - Type of Protection: Ex d IIB
    - Temperature Class: See *T Rating for Gas Table*
  - Dust: Zones 21 and 22
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - Type of Protection: Ex tD A21
  - Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
  - CE Declaration of Conformity: 50234
  - ATEX Certificate: LCIE 02 ATEX 6162



**HBDR**  
Round Bulkhead



**HBDO**  
Oval Bulkhead

- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- HBDO
  - Certification Type: HBOD
  - INMETRO Certificate: BVC11.0597 ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

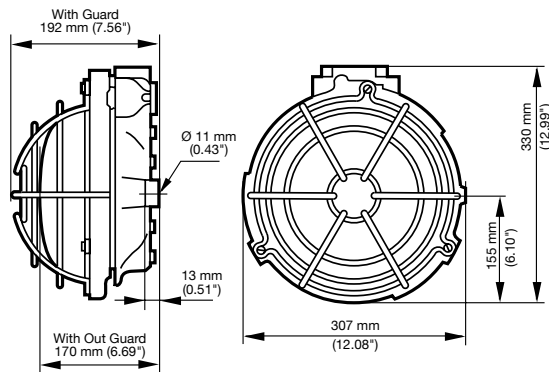
# ATX™ HBD Series Bulkhead Luminaires

## Flameproof. Incandescent, Compact Fluorescent, Mixed

ATEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 - IK08

### HBDR Series Bulkhead Luminaires — Incandescent, Compact Fluorescent, Mixed

#### Dimensions in Millimeters (Inches)

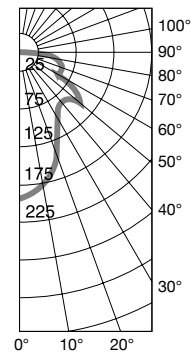


#### Photometric Data ①

Incandescent  
NF C 71-120: .068 G + 0.01 T

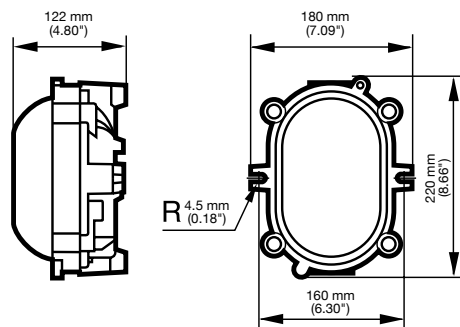
#### CANDELA DISTRIBUTION

0	185
5	178
10	171
15	156
20	132
25	110
30	97
35	87
40	90
45	100
50	96
60	58
70	58



### HBDO Series Bulkhead Luminaires — Incandescent, Compact Fluorescent

#### Dimensions in Millimeters (Inches)

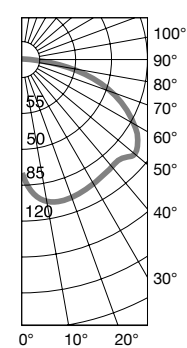


#### Photometric Data ①

Incandescent  
NF C 71-120: .068 H

#### CANDELA DISTRIBUTION

0	67
5	94
10	96
15	99
20	99
25	97
30	95
35	96
40	91
45	91
50	98
60	87
70	69



① Polar curves for a 1000 lm output according to NF C 71-120. Luminaire symbol according to NF C 71-121.

# ATX™ HBDR Series Bulkhead Luminaires

## Flameproof. Incandescent, Compact Fluorescent, Mixed

ATEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 - IK08



Weight  
kg (lb)

Volume  
dm³ (in³)

Catalog Number

7.5 (16.53)

23.4  
(51.59)

HBDR

### Accessories

Catalog Number

Protective Guard

HBDRPGZ

### T Rating for Gas ①

Lamp Type and Wattage			Operating Positions					
Wattage	Type	Ambient Temperature	Ceiling				Wall	
			+40° C (+104° F)	+50° C (122° F)	+55° C (+131° F)	+40° C (+104° F)	+50° C (122° F)	+55° C (+131° F)
8	Compact Fluorescent	T Rating	T6	T6	T6	T6	T6	T6
15	Compact Fluorescent	T Rating	T6	T6	T6	T6	T6	T6
23	Compact Fluorescent	T Rating	T6	T6	T6	T5	T5	T4
100	Incandescent	T Rating	T5	T4	T4	T5	T4	T4
200	Incandescent	T Rating	T4	T4	T4	T4	T4	T4
		T° at cable entry	—	+84° C (+183° F)	+89° C (+192° F)	—	+84° C (+183° F)	+89° C (+192° F)
100	Mixed	T Rating	T4	T4	T4	T4	T4	T4
180	Mixed	T Rating	T3	T3	T3	T3	T3	T3
		T° at cable entry	—	+87° C (+188° F)	+92° C (+198° F)	—	+87° C (+188° F)	+92° C (+198° F)

### Surface Temperature for Dust ①


Lamp Type and Wattage			Operating Positions			
Wattage	Type	Surface T° for Ta = +55° C (+131° F)	Ceiling		Wall	
			T° at Cable Entry Ta = +55° C (+131° F)	Surface T° for Ta = +55° C (+131° F)	T° at Cable Entry Ta = +55° C (+131° F)	Surface T° for Ta = +55° C (+131° F)
8	Compact Fluorescent	+60° C (+140° F)	—	+70° C (+158° F)	—	+70° C (+158° F)
15	Compact Fluorescent	+64° C (+147° F)	—	+76° C (+169° F)	—	+76° C (+169° F)
23	Compact Fluorescent	+69° C (+156° F)	—	+96° C (+205° F)	—	+96° C (+205° F)
100	Incandescent	+105° C (+221° F)	—	+105° C (+221° F)	—	+105° C (+221° F)
200	Incandescent	+130° C (+266° F)	+89° C (+192° F)	+130° C (+266° F)	+89° C (+192° F)	+130° C (+266° F)
100	Mixed	+130° C (+266° F)	—	+130° C (+266° F)	—	+130° C (+266° F)
160	Mixed	+149° C (+300° F)	+92° C (+198° F)	+149° C (+300° F)	+92° C (+198° F)	+149° C (+300° F)

① No need for high temperature cable for cable entry temperature less than +80° C (+176° F).

# ATX™ HBDO Series Bulkhead Luminaires

## Flameproof. Incandescent, Compact Fluorescent

ATEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 - IK08

	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
	3 (6.61)	9 (19.84)	HBDO

### Accessories

	Catalog Number
Protective Guard	HBDOPGZ
Terminal block For through wiring 2 x 2.5 mm <sup>2</sup> (0.003 x 0.004 in <sup>2</sup> ) with high temperature sleeve	094784

### T Rating for Gas ①

Lamp Type and Wattage		Temperature Class for Ta = +40 °C (+104 °F)	T° at Cable Input for Ta = +40 °C (+104 °F)
Wattage	Type		
7	Compact Fluorescent	T6	—
11	Compact Fluorescent	T6	—
15	Compact Fluorescent	T6	—
60	Incandescent	T4	+106 °C (+223 °F)
100	Incandescent	T4	+106 °C (+223 °F)

### T Rating for Dust ①

Lamp Type and Wattage		Temperature Class for Ta = +40 °C (+104 °F)
Wattage	Type	
7	Compact Fluorescent	+76 °C (+169 °F)
11	Compact Fluorescent	+76 °C (+169 °F)
15	Compact Fluorescent	+76 °C (+169 °F)
60	Incandescent	+119 °C (+246 °F)
100	Incandescent	+119 °C (+246 °F)

① No need for high temperature cable for cable entry temperature less than +80 °C (+176 °F).

# ATX™ HBN Series Round Bulkhead Luminaires

## Flameproof. Incandescent

ATEX:  
Zone 2 and 22  
II 3 GD  
IP65

### Applications

- Suitable for use in:
  - Stairways
  - Small areas
  - Emergency exit

### Features

- For incandescent lamps 60 W to 150 W maximum, mixed lamp 100 W maximum, mercury 80 W maximum (remote mercury ballast not supplied). Lamps not supplied.
- E27 lampholder.
- Screw locking mechanism.
- Operates in all positions.
- Connection to lampholder via two 2 x 2.5 mm<sup>2</sup> (0.003 x 0.004 in<sup>2</sup>) terminals.
- Internal earth two terminals 2 x 2.5 mm<sup>2</sup> (0.003 x 0.004 in<sup>2</sup>). External earth 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Three M20 entries in "T" formation. Supplied with one M20 cable gland [6.5 to 14.5 mm (0.26 to 0.57 in) diameter] and two M20 blanking plugs.

### Standard Materials

- Body: gray painted aluminum alloy
- Diffuser: glass
- Sealing gasket: silicone
- Guard: zinc plated steel
- Cable gland and blanking plug: polyamide

### ATEX Certifications and Compliances

- Certification Type: HBN150
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: II 3 G
    - Type of Protection: Ex nR II
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: II 3 D
    - Type of Protection: Ex tD A22
    - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: -20 °C ≤ Ta ≤ +50 °C (-4 °F ≤ Ta ≤ +122 °F); 80 W Mercury: -20 °C ≤ Ta ≤ +40 °C (-4 °F ≤ Ta ≤ 104 °F)
- CE Declaration of Conformity: 50220
- ATEX Certificate: LCIE 03 ATEX 6167X
- Index of Protection according EN/IEC 60529: IP65

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### Other Certification

- INMETRO Certificate: BVC 11.0462-X ①




HBNRI15 and HBEPGZ

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ HBN Series Round Bulkhead Luminaires

## Flameproof. Incandescent

ATEX:  
Zone 2 and 22  
II 3 GD  
IP65

	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
	3 (6,61)	15 (33,07)	HBNRI15

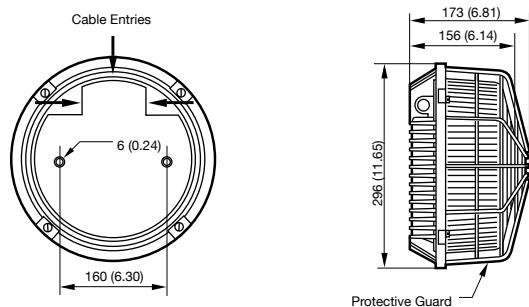
### Accessories

	Catalog Number
Protective Guard	HBEPGZ
Spare Lampglass	HBEGD

### T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage		Gas		Dust	
Wattage	Type	T Rating for Ta = +40 °C (+104 °F)	T Rating for Ta = +50 °C (+122 °F)	T° at Cable Input	Surface T° for Ta = +50 °C (+122 °F)
60	Incandescent	T5	T4	—	+101 °C (+214 °F)
75	Incandescent	T5	T4	—	+104 °C (+219 °F)
80	Mercury	T3	—	—	+131 °C (+268 °F) Ta = +40 °C (+104 °F)
100	Incandescent	T4	T4	+83 °C (+181 °F)	+114 °C (+237 °F)
100	Mixed	T4	T4	+100 °C (+212 °F)	+125 °C (+257 °F)
150	Incandescent	T4	T4	+92 °C (+198 °F)	+120 °C (+248 °F)

### Dimensions in Millimeters (Inches)

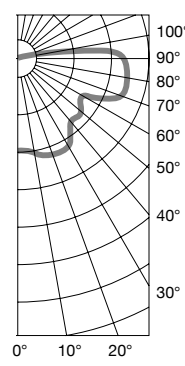


### Photometric Data ①

Incandescent  
NF C 71-120: .062 J + 0.10 T

#### CANDELA DISTRIBUTION

0	185
5	178
10	171
15	156
20	132
30	110
40	97
50	87
60	90
70	100
80	96
90	58
100	58



① Polar curves for a 1000 lm output according to NF C 71-120. Luminaire symbol according to NF C 71-121.

# ATX™ HBDC Series Cylindrical Bulkhead Luminaires

Flameproof. Incandescent, Fluorescent, High Pressure Sodium

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
Ⓜ II 2 GD  
IP66/68 (10M) – IK08

## Applications

- For illumination of:
  - Stairways
  - Small areas
  - Emergency exit

## Features

- For lamps:
  - 70 W high pressure sodium (ovoid type E27 lampholder)
  - 18/20 W compact fluorescent lamp (E27 lampholder)
  - 2 x 40 W incandescent lamp (E27 lampholder)
  - 8 W fluorescent bulb (G5 lampholder) (lamp supplied)
- HPS version: compensated power supply (+/-10%) with power factor 0.9:
  - ATEX/IEC: 230/240 V, 50 Hz
- Connection to plug-in terminal block via 2 x 3 terminals 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>).
- Operates in any position.
- Threaded access cover with O-ring seal.
- Two integrated mounting lugs.
- 1 external earth via 4 mm<sup>2</sup> (0.006 in<sup>2</sup>) bracket.
- 2 threaded cable entries.
- Supplied with 1 plug M20 (cable gland not supplied).

## Standard Materials

- End cap and cover: Zamak, anticorrosion treated and painted gray
- Sealed tube: toughened glass
- External reflector: galvanized steel painted white
- Protective guard: zinc plated steel
- Lamps are not supplied except for 8 W fluorescent bulb

## Options

- Fixing accessories available in 316 stainless steel or zinc plated steel.
- Fall prevention fixing kit in stainless steel.

## ATEX/IECEX Certifications and Compliances

- Certification Type: FLd
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE: Ⓜ II 2 G
    - Type of Protection: Ex d IIB/IIC
    - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: Ⓜ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature: -20 °C ≤ Ta ≤ +50 °C (-4 °F ≤ Ta ≤ +122 °F); for 70 W HPS: -40 °C ≤ Ta ≤ +50 °C (-40 °F ≤ Ta ≤ +122 °F)
- CE Declaration of Conformity: 50203
- ATEX Certificate: LCIE 97/ ATEX 6012
- IECEx Certificate: IECEx LCI 04.0018
- Index of Protection according EN/IEC 60529: IP66/68 (10 m)
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters



70 W High Pressure Sodium Version



Compact Fluorescent Version

## EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

## Other Certification

- INMETRO Certificate: BVC11.0492 ①

## Related Products

- For labels see *Labels for Emergency Lighting Units, ATX Self-Adhesive Signaling Labels for Emergency Lighting Units.*

① Inmetro certification available on special request only. Contact your local sales representative for more information.

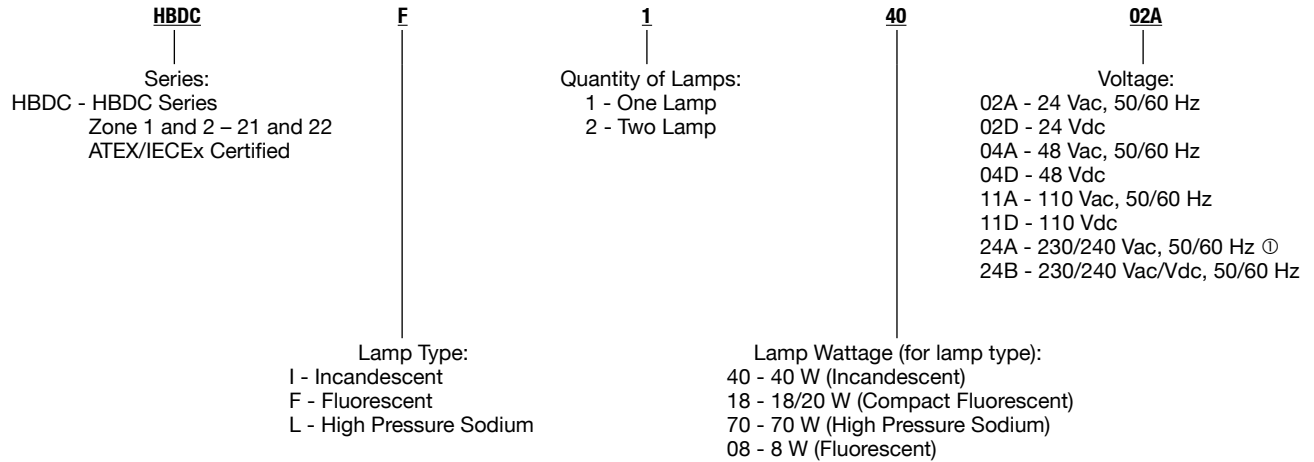
# ATX™ HBDC Series Cylindrical Bulkhead Luminaires

Flameproof. Incandescent, Fluorescent, High Pressure Sodium

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
Ⓐ II 2 GD  
IP66/68 (10M) – IK08

Order using catalog numbering guide below to decipher the catalog number logic on the following page.

## Catalog Numbering Guide – HBDC Series Cylindrical Bulkhead Luminaires



T Rating (Gas) and Surface Temperature (Dust) Table

Versions	Gas T Rating				Dust Surface Temperature	
	Without External Reflector		With External Reflector		Without External Reflector	With External Reflector
	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	°C (°F)	°C (°F)
Incandescent lamp (2 x 40 W) ②	T5	T5	T5	T5	+95 (+203)	+95 (+203)
Compact Fluorescent lamp (20 W max)	T6	T5	T5	T4	+95 (+203)	+130 (+266)
Fluorescent (8 W - G5 lampholder)	T6	T5	T5	T4	+95 (+203)	+130 (+266)
High Pressure Sodium Lamp (70 W ovoid) ②	T4 for Ta = +50 °C (+122 °F)		–	–	+122 (+252)	–

① 50 Hz only for the 70 W HPS Version.







② Lamp not supplied.

# ATX™ HBDC Series Cylindrical Bulkhead Luminaires

## Flameproof. Incandescent, Fluorescent, High Pressure Sodium

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/68 (10M) – IK08

Lamp	Lampholder	Voltage	Weight kgs (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2x40 W Incandescent ①	E27	—	7.1 (16)	31 (1892)	HBDCI240
70 W High Pressure Sodium ①	E27	230/240 Vac, 50 Hz	7.1 (16)	33 (2014)	HBDCI17024A
		220 V, 60 Hz			—
1 x 8 W Fluorescent	G5	24 Vdc	8.3 (18)	31 (1892)	HBDCF10802D
1 x 8 W Fluorescent	G5	48 Vdc	8.3 (18)	31 (1892)	HBDCF10804D
1 x 8 W Fluorescent	G5	110 Vdc	8.3 (18)	31 (1892)	HBDCF10811D
1 x 8 W Fluorescent	G5	230/240 Vac, 50/60 Hz 198/254 Vdc	8.3 (18)	31 (1892)	HBDCF10824B
2 x 8 W Fluorescent	G5	230/240 Vac, 50/60 Hz 198/254 Vdc	8.3 (18)	31 (1892)	HBDCF20824B
1 x 18/20 W Compact Fluorescent ①	E27	—	7.1 (16)	33 (2014)	HBDCF118

Description		Catalog Number
	External reflector in galvanized steel (painted white) (not compatible with 70 W HPS version)	FDER1G
	Protective guard in zinc plated steel	FDPG1Z
	Protective guard in zinc plated steel for 70 W HPS version	FDPG5Z
	Quick one-hand fixing (Set of 2 brackets) in zinc plated steel	FDFBZ
	Quick one-hand fixing (Set of 2 brackets) in 316 stainless steel	FDFBS
	Fixing unit on flat surface (Set of 2 brackets) in zinc plated steel	FDSBZ
	Fixing unit on flat surface (Set of 2 brackets) in 316 stainless steel	FDSBS
	Fixing unit in zinc plated steel for 1-1/2" tube [49 mm (1.93 in) diameter] or for 1-1/4" tube tube [42 mm (1.65 in) diameter]	FDHC49Z
	Fixing unit in 316 stainless steel for 1-1/2" tube [49 mm (1.93 in) diameter] or for 1-1/4" tube tube [42 mm (1.65 in) diameter]	FDHC49S
	Fixing unit in zinc plated steel for 2" tube [60 mm (2.36 in) diameter]	FDHC60Z
	Fixing unit in stainless steel for 2" tube [60 mm (2.36 in) diameter]	FDHC60S
	Fall prevention fixing kit in stainless steel [1.2 m (0.05 in) chain]	FDSCS

① Lamp not supplied.

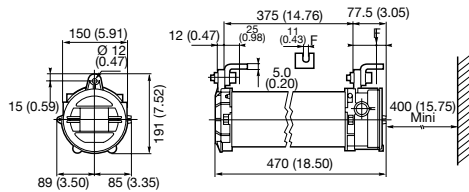
# ATX™ HBDC Series Cylindrical Bulkhead Luminaires

## Flameproof. Incandescent, Fluorescent, High Pressure Sodium

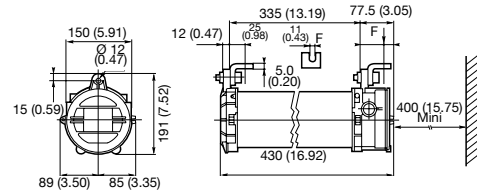
ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/68 (10M) – IK08

### Dimensions in Millimeters (Inches)

**HBDCL17024A (70 W HP High Pressure Sodium)**



**HBDC and HBDCF**



### Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120.  
Luminaire symbol according to NF C 71-121.

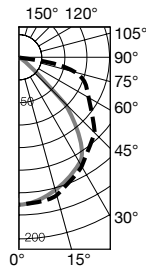
--- Longitudinal  
— Transverse

**70 W HP High Pressure Sodium**  
Efficiency 59.4%  
NF C 71-121: 0.56G + 0.04T

#### CANDELA DISTRIBUTION

0-180 90-270

0	166	166
5	167	165
10	164	162
15	162	156
20	158	151
25	155	143
30	151	133
35	146	122
40	141	110
45	135	95
50	128	81
55	120	66
60	111	52
65	101	39
70	90	27

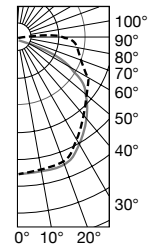


**2x40 W Incandescent**  
Efficiency: 75.6%  
NFC 71-121: 0.74G + 0.02T

#### CANDELA DISTRIBUTION

0-180 90-270

0	196	196
5	197	198
10	196	196
15	193	194
20	189	190
25	181	185
30	176	179
35	170	172
40	163	164
45	155	153
50	145	128
60	123	91
70	99	43



# ATX™ LDP Series Wellglass Luminaires

Flameproof. Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 – IK08

## Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- Ideal for street lighting on refinery sites or oil depots and for tank lighting purposes.

## Features

- Permissible lamps (not supplied):
  - 18 to 25 W compact fluorescent lamps
  - 70 to 150 W halogen lamps
  - Up to 200 W incandescent lamps
  - Up to 160 W mixed lamps
- E27 lamp holder.
- Threaded flame path.
- Connection to lampholder:
  - 2 x 2.5 mm<sup>2</sup> (0.0039 in<sup>2</sup>) or to terminal block
  - 2 x 2.5 mm<sup>2</sup> (0.0039 in<sup>2</sup>) supplied for through-wiring application.
- Suspension via integrated eye bolt for side cable entry versions.
- Supplied with one blanking plug for side cable entry versions.

## Standard Materials

- Body and bezel: gray painted marine grade aluminum alloy
- Internal reflector: aluminum

## ATEX Certifications and Compliances

- Certification Type: AB14
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex d IIC
    - Temperature Class: See *T Rating for Gas Table*



### Side Cable Entry Version

- Dust: Zone 21 - 22
  - Conforming to ATEX 94/9/CE: II 2 D
  - Type of Protection: Ex tD A21
  - Surface Temperature: See *Surface Temperature for Dust Table*
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50231
- ATEX Certificate: LCIE 02 ATEX 6053
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

## EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

## T Rating for Gas

Lamp Type and Wattage	T Rating	Ambient Temperature					
		Ta = +40 °C (+104 °F)					
		Cable Entry Temperature					
		°C	°F	T Rating	Ta = +50 °C (+122 °F)		
					Cable Entry Temperature		
					°C	°F	
18 W Compact Fluorescent	T6	–	–	T5	–	–	
20 W Compact Fluorescent	T6	–	–	T5	–	–	
25 W Compact Fluorescent	T6	–	–	T5	–	–	
70 W Halogen	T4	–	–	T3	+90	+194	
150 W Halogen	T4	+85	+185	T3	+95	+203	
160 W Mixed	T4	+115	+239	T3	+125	+257	
100 W Incandescent	T4	+115	+239	T3	+125	+257	
200 W Incandescent	T4	+115	+239	T3	+125	+257	

## Surface Temperature for Dust

Lamp Type and Wattage	Ambient Temperature — Ta = +50 °C (+122 °F)			
	Surface Temperature		Cable Entry Temperature	
	°C	°F	°C	°F
18 W Compact Fluorescent	+85	+185	–	–
20 W Compact Fluorescent	+85	+185	–	–
25 W Compact Fluorescent	+85	+185	–	–
70 W Halogen	+130	+266	+90	+194
150 W Halogen	+145	+293	+95	+203
160 W Mixed	+145	+293	+125	+257
100 W Incandescent	+145	+293	+125	+257
200 W Incandescent	+145	+293	+125	+257

# ATX™ LDP Series Wellglass Luminaires




## Flameproof. Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 - IK08

### Flameproof Wellglass Luminaires for Hazardous Areas – Ex d IIC – LDP Series

Cable Entries	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
2 x M20 side entries	5.0 (11.02)	35.5 (2166.34)	LDP2M20
2 x 3/4" NPT side entries	5.0 (11.02)	35.5 (2166.34)	LDP2075
1 x 3/4" NPT top entry	5.0 (11.02)	35.5 (2166.34)	LDP1075

### Accessories

Description	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Protective Guard</b>			
 Zinc plated steel protective guard	0.4 (0.88)	97.0 (5919.30)	LDPG3Z
<b>Hinged Bracket</b>			
 Zinc plated steel hinged bracket for installation on flat surface	1.4 (3.09)	3.5 (213.58)	LDPHBZ
<b>External Reflector</b>			
 External white polyester reflector	3.2 (7.05)	97.0 (5919.30)	LDER1P

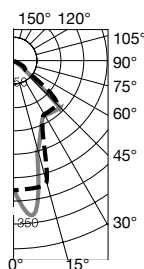
### Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120.  
Luminaire symbol according to NF C 71-121.

200 W incandescent  
Efficiency 66.5%  
NF C 71-121: 0.60 H + 0.06 T

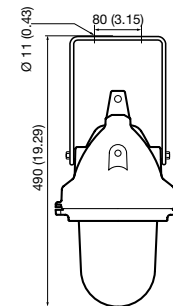
#### CANDELA DISTRIBUTION

	0-180	90-270
0	274	274
5	318	281
10	328	317
15	268	202
20	130	134
25	104	89
30	85	89
35	123	90
40	104	103
45	99	89
50	94	86
55	93	88
60	94	88
65	99	89
70	91	80

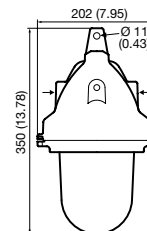


--- Longitudinal  
— Transverse

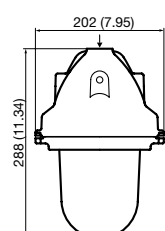
### Dimensions in Millimeters (Inches)



#### Side Cable Entries with Hinged Bracket



Side Cable Entries



Top Cable Entry

# ATX™ LDM Series Wellglass Luminaires

Flameproof. HID, Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
⊕ II 2 GD  
IP66/67 – IK08

## Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- Ideal for street lighting on refinery sites or oil depots and for tank lighting purposes.

## Features

- E27 lamp holder.
- High temperature internal wiring.
- Threaded flame path.
- Stainless steel fastenings.
- Closed by screwing on bezel.
- Operates in any position.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto two captive terminals capacity  $2 \times 6 \text{ mm}^2$  ( $2 \times 0.009 \text{ in}^2$ ).
- External earth terminal capacity  $4 \text{ mm}^2$  ( $0.006 \text{ in}^2$ ).
- $2 \times 20 \text{ mm}$  ( $2 \times 0.79 \text{ in}$ ) clearance holes through-wire cable entries supplied with one Ex e unarmored cable gland — sealing diameter 6.5 to 14.5 mm (0.26 to 58 in) — and one blanking plug and two M20 locknuts.

## Standard Materials

- Body and bezel: gray painted marine grade aluminum alloy
- Internal reflector: aluminum

## ATEX/IECEX Certifications and Compliances

- Certification Type: LTd (Model LT1d)
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE: ⊕ II 2 G
    - Type of Protection: Ex de IIC
    - Temperature Class: See *T Rating for Gas Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: ⊕ II 2 D
    - Type of Protection: Ex td A21
    - Surface Temperature: See *Surface Temperature for Dust Table*
- Ambient Temperature:  $-40^\circ\text{C}$  to  $+55^\circ\text{C}$  ( $-40^\circ\text{F}$  to  $+131^\circ\text{F}$ )
- CE Declaration of Conformity: 50246
- ATEX Certificate: LCIE 02 ATEX 6165
- IECEx Certificate: IECEx LCI Ex 04.0019
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK08

## EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912



LDM Version



LDM Version with Guard

# ATX™ LDM Series Wellglass Luminaires

## Flameproof. HID, Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 – IK08

### T Rating for Gas

Lamp Type and Wattage	Ambient Temperature					
	Lighting Downward			Lighting Upward		
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)
18 W Compact Fluorescent	T6	T6	T6	T6	T5	T5
150 W Halogen	T4	T4	T4	T4	T3	T3
70 W High Pressure Sodium	T5	T4	T4	T4	T4	T4
100 W High Pressure Sodium	T3	T3	T3	T3	T3	T3
150 W High Pressure Sodium	T3	T3	T3	T3	T3	T3
80 W Mercury ⑤	T4	T4	T4	T4	T4	T4
125 W Mercury ⑤	T3	T3	T3	T3	T3	T3
160 W Mixed	T3	T3	T3	T3	T3	T3
100 and 200 W Incandescent	T4	T3	T3	T3	T3	T3

### Surface Temperature for Dust

Lamp Type and Wattage	Ambient Temperature — Ta = +55 °C (+131 °F)			
	Lighting Downward		Lighting Upward	
18 W Compact Fluorescent	+80 °C	+176 °F	+95 °C	+203 °F
150 W Halogen	+130 °C	+266 °F	+195 °C	+383 °F
70 W High Pressure Sodium	+130 °C	+266 °F	+130 °C	+266 °F
100 W High Pressure Sodium	+184 °C	+363 °F	+184 °C	+363 °F
150 W High Pressure Sodium	+184 °C	+363 °F	+184 °C	+363 °F
80 W Mercury ⑤	+130 °C	+266 °F	+130 °C	+266 °F
125 W Mercury ⑤	+195 °C	+383 °F	+195 °C	+383 °F
160 W Mixed	+195 °C	+383 °F	+195 °C	+383 °F
100 and 200 W Incandescent	+195 °C	+383 °F	+195 °C	+383 °F

### Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDM Series

Supplied with 1 x M20 Ex e cable gland diameter 6.5 to 14.5 mm (0.26 to 58 in) and 1 x M20 blanking plug. Lamps are not supplied.

Lamp Wattages	Voltage (+/– 10%)	Lamp Type ④		Weight kg (lb)	Volume dm³ (in³)	Catalog Number
		Ellipsoidal	Tubular			
High Pressure Sodium						
70 W ①②	230/240 Vac, 50 Hz	X	X	9 (19.84)	30 (1831)	LDML70AG1XJ
150 W ①	230/240 Vac, 50 Hz	X	X	9 (19.84)	30 (1831)	LDML15AG1XJ
Metal Halide						
150 W ①	230/240 Vac, 50 Hz	X	X	9 (19.84)	30 (1831)	LDMH15AG1XJ
Mercury Vapor						
80 W ①	230/240 Vac, 50 Hz	–	–	9 (19.84)	30 (1831)	LDMM80AG1XJ
125 W ①	230/240 Vac, 50 Hz	–	–	9 (19.84)	30 (1831)	LDMM12AG1XJ
Compact Fluorescent						
18 W	–	–	–	7.5 (16.53)	30 (1831)	LDMF18AG1
Incandescent						
200 W max. ③	–	–	–	7.5 (16.53)	30 (1831)	LDMI20AG1

① Ballast supplied.

② For lamp with built-in ignitor.

③ 150 W halogen or 160 W mixed lamps can be used.

④ Only with lamp operating in any position.

⑤ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# ATX™ LDM Series Wellglass Luminaires






Flameproof. HID, Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 - IK08

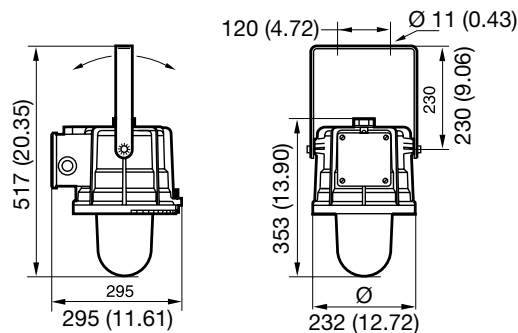
Appleton®

INCANDESCENT/AREA: ATEX/IECEX FLAMEPROOF

## Accessories

	Description	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
<b>Protective Guard</b>				
	Zinc plated steel protective guard	0.4 (0.88)	9 (549.21)	<b>LDPG1Z</b>
<b>External Reflector</b>				
	External white polyester reflector	3.2 (7.05)	97 (5919.30)	<b>LDER1P</b>
<b>Hinged Bracket</b>				
	Zinc plated steel hinged bracket for installation on flat surface	3.4 (7.49)	3 (183.07)	<b>LDMHBZ</b>
<b>Eyebolt</b>				
	Zinc plated steel M10 eyebolt for suspension	0.4 (0.22)	0.2 (12.20)	<b>LDRBM10Z</b>
<b>Mounting Strap</b>				
	Gray painted aluminum	0.9 (1.98)	0.6 (36.61)	<b>LDMSBA</b>

## Dimensions in Millimeters (Inches) — LDM Version with Hinged Bracket



# ATX™ LDM Series Wellglass Luminaires

## Flameproof. HID, Compact Fluorescent, Halogen, Incandescent, Mixed

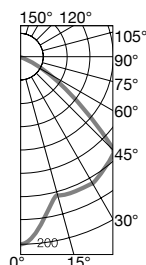
ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 - IK08

### Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120.  
Luminaire symbol according to NF C 71-121.

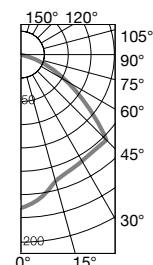
**70 W High Pressure Sodium**  
Efficiency 54.4%  
NF C 71-121: 0.54 F

CANDELA DISTRIBUTION		
	90-270	0-180
0	195	195
5	179	179
10	166	166
15	151	151
20	149	149
25	153	153
30	156	156
35	157	157
40	158	158
45	159	159
50	148	148
55	116	116
60	77	77
65	54	54
70	37	37



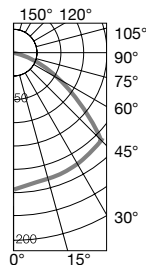
**80 W Mercury**  
Efficiency 46.8%  
NF C 71-121: 0.47 F

CANDELA DISTRIBUTION		
	90-270	0-180
0	158	158
5	154	154
10	145	145
15	138	138
20	136	136
25	135	135
30	134	134
35	133	133
40	133	133
45	133	133
50	125	125
55	98	98
60	67	67
65	45	45
70	31	31



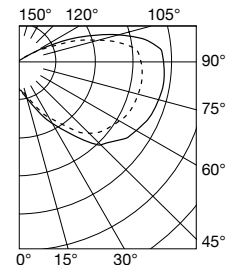
**125 W Mercury**  
Efficiency 48%  
NF C 71-121: 0.48 F

CANDELA DISTRIBUTION		
	90-270	0-180
0	147	147
5	143	143
10	138	138
15	133	133
20	133	133
25	136	136
30	138	138
35	137	137
40	136	136
45	134	134
50	126	126
55	104	104
60	74	74
65	50	50
70	32	32



**150 W High Pressure Sodium**  
Efficiency 59.3%  
NF C 71-121: 0.59 D

CANDELA DISTRIBUTION		
	90-270	0-180
0	19.72	19.72
5	18.82	17.47
10	21.50	19.13
15	25.63	23.75
20	32.78	30.06
25	40.19	36.76
30	47.77	43.14
35	55.50	48.77
40	67.88	59.97
45	77.18	66.78
50	81.09	71.22
55	87.05	74.58
60	90.17	77.82
65	92.66	79.70
70	94.77	81.16
75	95.68	82.02
80	96.17	82.11
85	96.18	81.94
90	95.10	80.31



Appleton®

INCANDESCENT / AREA: ATEX/IECEX FLAMEPROOF

# ATX™ LDB, LDG and LDR Series Wellglass Luminaires

Flameproof. High Pressure High Pressure Sodium, Mercury, Metal Halide, Mixed, Incandescent, Induction

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
Ⓔ II 2 GD  
IP66/67 – IK08

## Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- Ideal for street lighting on refinery sites or oil depots and for tank lighting purposes.

## Features

- Compensated power supply.
- Power factor  $\geq 0.9$
- Flat joint for IIB version, threaded joint for IIC version.
- E40 lamp holder with lock thread.
- High temperature internal wiring.
- Operates in any position subject to lamp type.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto two captive terminals capacity 6 mm<sup>2</sup> (2 x 0.009 in<sup>2</sup>) and two internal earth terminals capacity 6 mm<sup>2</sup> (0.009 in<sup>2</sup>).
- External earth terminal capacity 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
- 2 x 20 mm clearance holes through-wire cable entries supplied with one Ex e unarmored cable gland — sealing diameter 6.5 to 14.5 mm (0.26 to 0.58 in) — and one blanking plug and two M20 locknuts.

## Standard Materials

- Body and bezel: gray painted marine grade aluminum alloy
- Internal reflector: aluminum
- External reflector: white painted zinc plated steel

## ATEX/IECEX Certifications and Compliances

- Certification Type: LTd (Model LT2d)
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
    - Type of Protection: Ex de IIB (LDB series); Ex de IIC (LDG and LDR series)
    - Temperature Class: See *T Rating for Gas Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
    - Type of Protection: Ex td A21
    - Surface Temperature: See *Surface Temperature for Dust Table*
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50246
- ATEX Certificate: LCIE 02 ATEX 6165
- IECEx Certificate: IECEx LCI Ex 04.0019
- Index of Protection according EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK08

## EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912



LDB Version



LDB Version with Guard

# ATX™ LDB, LDG and LDR Series Wellglass Luminaires

Flameproof. High Pressure High Pressure Sodium, Mercury, Metal Halide, Mixed, Incandescent, Induction

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 - IK08

Appleton®

INCANDESCENT/AREA: ATEX/IECEX FLAMEPROOF

## T Rating for Gas

Lamp Type and Wattage	Ambient Temperature			
	Lighting Downward		Lighting Upward	
	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)
85 W Induction	T6	T6	T6	T5
100 W High Pressure Sodium	T6	T5	T5	T4
150 W High Pressure Sodium	T6	T5	T4	T4
250 W High Pressure Sodium	T4	T4	T3	T3
250 W Metal Halide ①	T4	T4	T4	T3
250 W Mercury ①	T4	T4	T3	T3
250 W Mixes	T4	T4	T3	T3
300 W Incandescent	T5	T4	T3	T3
500 W Incandescent	T3	T3	T3	T2
400 W High Pressure Sodium	T4	T3	Not Available	Not Available
400 W Metal Halide ①	T4	T3	Not Available	Not Available

## Surface Temperature for Dust

Lamp Type and Wattage	Ambient Temperature			
	Lighting Downward		Lighting Upward	
	°C	°F	°C	°F
85 W Induction	+80	+176	+95	+203
100 W High Pressure Sodium	+95	+203	+130	+266
150 W High Pressure Sodium	+95	+203	+130	+266
250 W High Pressure Sodium	+130	+266	+195	+383
250 W Metal Halide ①	+130	+266	+195	+383
250 W Mercury ①	+130	+266	+195	+383
250 W Mixes	+130	+266	+195	+383
300 W Incandescent	+130	+266	+195	+383
500 W Incandescent	+195	+383	+290	+554
400 W High Pressure Sodium	+134	+273	Not Available	Not Available
400 W Metal Halide ①	+134	+273	Not Available	Not Available

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# ATX™ LDB, LDG and LDR Series Wellglass Luminaires

Flameproof. High Pressure High Pressure Sodium, Mercury, Metal Halide, Mixed, Incandescent, Induction

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 – IK08

Supplied with 1 x M20 Ex e cable gland — 6.5 to 14.5 mm (0.26 to 58 in) diameter — and 1 x M20 blanking plug. Lamps are not supplied, except for Induction version.

Lamp Wattages	Voltage (+/- 10%)	Lamp Type		Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
		Ellipsoidal	Tubular			
Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIB – LDB Series						
Electro Magnetic Induction ②						
85 W ①	230/240 Vac, 50/60 Hz	—	—	22.0 (48.50)	86.7 (5290.76)	LDBQ85AG2BJ
High Pressure Sodium						
100 W ①④	230/240 Vac, 50 Hz	X	X	22.0 (48.50)	86.7 (5290.76)	LDBL10AG2XJ
150 W ①④	230/240 Vac, 50 Hz	X	X	22.5 (49.60)	86.7 (5290.76)	LDBL15AG2XJ
250 W ①	230/240 Vac, 50 Hz	X	X	22.5 (49.60)	86.7 (5290.76)	LDBL25AG2XJ
Metal Halide						
250 W ①	230/240 Vac, 50 Hz	X	X	22.5 (49.60)	86.7 (5290.76)	LDBH25AG2XJ
Mercury Vapor						
250 W ①	230/240 Vac, 50 Hz	—	—	22.5 (49.60)	86.7 (5290.76)	LDBM25AG2XJ
Incandescent						
300 W to 500 W ③	—	—	—	19.0 (41.89)	86.7 (5290.76)	LDBI30AG2
Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDG series						
Electro Magnetic Induction ②						
85 W (1)	230/240 Vac, 50/60 Hz	—	—	22.0 (48.50)	86.7 (5290.76)	LDGQ85AG2BJ
High Pressure Sodium						
100 W ①	230/240 Vac, 50 Hz	X	X	22.0 (48.50)	86.7 (5290.76)	LDGL10AG2XJ
150 W ①	230/240 Vac, 50 Hz	X	X	22.5 (49.60)	86.7 (5290.76)	LDGL15AG2XJ
250 W ①	230/240 Vac, 50 Hz	X	X	22.5 (49.60)	86.7 (5290.76)	LDGL25AG2XJ
Metal Halide ⑤						
250 W ①	230/240 Vac, 50 Hz	X	X	22.5 (49.60)	86.7 (5290.76)	LDGH25AG2XJ
Mercury Vapor ⑤						
250 W ①	230/240 Vac, 50 Hz	—	—	22.5 (49.60)	86.7 (5290.76)	LDGM25AG2XJ
Incandescent						
300 W to 500 W ③	—	—	—	19.0 (41.89)	86.7 (5290.76)	LDGI30AG2
Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDR Series						
High Pressure Sodium						
400 W ①	220/230/240 Vac, 50 Hz	X	X	31.0 (68.34)	144 (8787.42)	LDRL40AG2XJ
Metal Halide ⑤						
400 W ①	220/230/240 Vac, 50 Hz	X	X	31.0 (68.34)	144 (8787.42)	LDRH40AG2XJ

① Ballast supplied.

② Service life 60,000 hours.

③ 250 W mixed lamps can be used.

④ Also available in LDM Series.

⑤ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

# ATX™ LDB, LDG and LDR Series Wellglass Luminaires






Flameproof. High Pressure Sodium, Mercury, Metal Halide, Mixed, Incandescent, Induction

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 - IK08

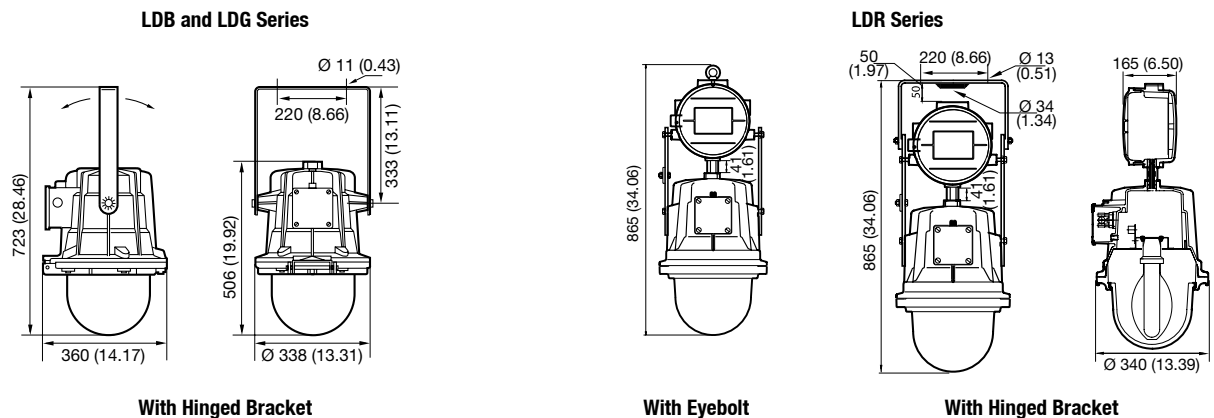
Appleton®

INCANDESCENT / AREA: ATEX/IECEX FLAMEPROOF

## Accessories

	Description	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Protective Guard</b>				
	Zinc plated steel protective guard	1.2 (2.65)	27 (1647.64)	<b>LDPG27</b>
<b>External Reflector</b>				
	White painted steel	3.4 (7.50)	108 (6590.56)	<b>LDER27</b>
	White polyester	2.5 (5.51)	108 (6590.56)	<b>LDER2P</b>
<b>Hinged Bracket</b> — Zinc plated steel hinged bracket for installation on flat surface				
	For LDB or LDG Series	3.4 (7.49)	8 (488.19)	<b>LDGHBZ</b>
	For LDR Series	3.4 (7.49)	8 (488.19)	<b>LDRHBZ</b>
<b>Eyebolt</b> — Zinc plated steel eyebolt for suspension				
	M10 — For LDB or LDG Series	0.1 (0.22)	0.2 (12.20)	<b>LDRBM10Z</b>
	M16 — For LDR Series	0.1 (0.22)	0.2 (12.20)	<b>LDRBM16Z</b>
<b>Mounting Strap</b> — Zinc plated steel mounting straps				
	For LDB or LDG Series	0.9 (1.98)	0.6 (36.61)	<b>LDGSBZ</b>
	For LDR Series	0.9 (1.98)	0.6 (36.61)	<b>LDRSBZ</b>

## Dimensions in Millimeters (Inches)



# ATX™ LDB, LDG and LDR Series Wellglass Luminaires

Flameproof. High Pressure Sodium, Mercury, Metal Halide, Mixed, Incandescent, Induction

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66/67 - IK08

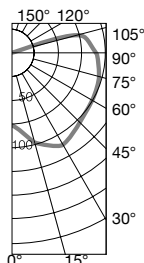
## Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120.  
Luminaire symbol according to NF C 71-121.

85 W Induction  
Efficiency 85.9%  
NF C 71-121: 0.62 J + 0.24 T

### CANDELA DISTRIBUTION

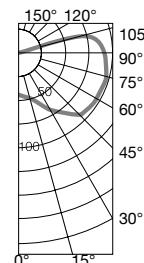
	90-270	0-180
0	75	75
5	80	80
10	89	89
15	98	98
20	105	105
25	114	114
30	117	117
35	116	116
40	112	112
45	107	107
50	102	102
55	99	99
60	97	97
65	94	94
70	92	92



150 W High Pressure Sodium  
Efficiency 70.6%  
NF C 71-121: 0.50 J + 0.20 T

### CANDELA DISTRIBUTION

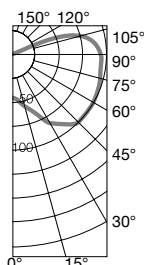
	90-270	0-180
0	33	33
5	36	36
10	42	42
15	48	48
20	55	55
25	62	62
30	70	70
35	78	78
40	84	84
45	87	87
50	89	89
55	88	88
60	88	88
65	87	87
70	87	87



250 W High Pressure Sodium  
Efficiency 79.3%  
NF C 71-121: 0.56 J + 0.23 T

### CANDELA DISTRIBUTION

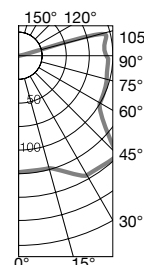
	90-270	0-180
0	40	40
5	43	43
10	49	49
15	57	57
20	64	64
25	72	72
30	80	80
35	89	89
40	95	95
45	97	97
50	98	98
55	97	97
60	96	96
65	95	95
70	94	94



500 W Incandescent  
Efficiency 98%  
NF C 71-121: 0.71 H + 0.28 T

### CANDELA DISTRIBUTION

	90-270	0-180
0	147	147
5	128	128
10	133	133
15	149	149
20	159	159
25	159	159
30	173	173
35	166	166
40	157	157
45	136	136
50	120	120
55	104	104
60	99	99
65	91	91
70	92	92



# ATX™ HBDA Series Rectangular Bulkhead Luminaires

## Flameproof. Compact Fluorescent, Incandescent

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**⊕ II 2 GD**  
**IP66 - IK09**

### Applications

- For illumination of:
  - Stairways
  - Small areas
  - Emergency exit

### Features

- Lamps (not supplied):
  - Incandescent 2 x 40 W
  - Compact fluorescent 1 x 18/20 W
- E27 lampholder.
- Operates in any position.
- Fixing by 2 brackets.
- Connection on two terminals 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Internal earth 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- External earth 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Two M20 threaded entries.
  - Supplied with one aluminum blanking plug.

### Standard Materials of Fixtures

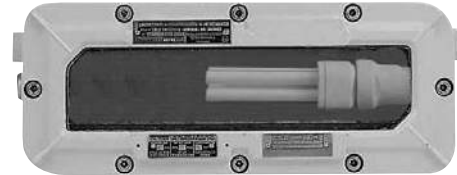
- Body: gray painted cast aluminum
- Lens: sealed toughened lamp glass

### ATEX Certifications and Compliances

- Certification Type: BRI40
  - Gas: Zones 1 and 2
    - Conforming to ATEX 94/9/CE: ⊕ II 2 G
    - Type of Protection: Ex d IIB+H<sub>2</sub>
    - Temperature Class: T4 Incandescent, T6 Compact Fluorescent
  - Dust: Zone 21 and 22
    - Conforming to ATEX 94/9/CE: ⊕ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T135 °C (T275 °F) Incandescent, T85 °C (T185 °F) Compact Fluorescent
- Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
- CE Declaration of Conformity: 50252
- ATEX Certificate: LCIE 03 ATEX 6098X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK09
- Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### Related Products

- For labels see *Labels for Emergency Lighting Units, ATX Self-Adhesive Signaling Labels for Emergency Lighting Units.*



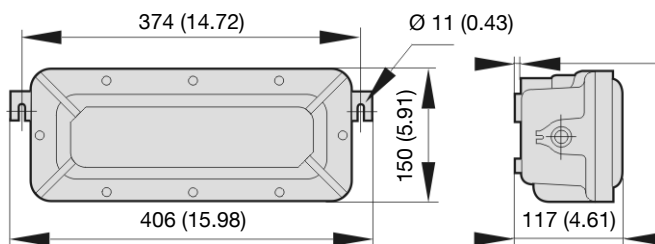
# ATX™ HBDA Series Rectangular Bulkhead Luminaires

Flameproof. Compact Fluorescent, Incandescent

ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 - IK09

Number of Lamps (not supplied)	Lamp Type and Wattage	Cable Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
1	18/20 W Compact Fluorescent	M20	5.7 (12.57)	9 (549.2)	HBDAF118
2	40 W Incandescent	M20	5.7 (12.57)	9 (549.2)	HBDAI240

## Dimensions in Millimeters (Inches)

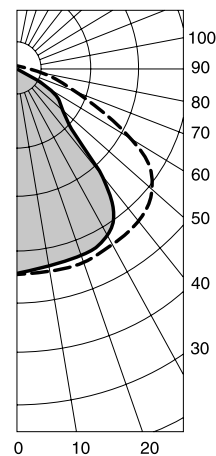


## Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120.  
Luminaire symbol according to NF C 71-121.

--- Longitudinal  
— Transverse

Degree	Candela Distribution	
	(0–180)	(90–270)
0	134	134
5	129	133
10	127	135
15	126	136
20	125	135
25	119	131
30	109	127
35	89	122
40	69	119
45	51	114
50	39	105
60	26	84
70	11	35



# ATX™ HRD Series Tank Inspection Lights

## Flameproof. Incandescent, Halogen

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
 Ⓢ II 2 GD  
 IP65 or IP66/IK08

### Applications

- Designed to illuminate the interiors of boilers, tanks, bunkers, silos, mixers, separators, pipelines and other vessels or reactors that are normally closed.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

### Features

- Type IIB version:
  - 40 W to 100 W incandescent or 50 W halogen lamp (lamp not supplied).
  - Internal aluminum reflector.
  - Operates in any position.
  - E27 lampholder.
  - Terminals: 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>).
  - Internal and external earth: 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>).
  - High temperature cable to be used.
  - Fixing by three integrated lugs.
  - One M20 threaded cable entry.
- Type IIC version:
  - 20 W to 50 W halogen lamp (lamp supplied).
  - Internal aluminum reflector.
  - Operates in any position.
  - G4 lampholder for 20 W and BA 15d for 50 W.
  - Power supply: 230 V 50/60 Hz.
  - Fitted with transformer 230/12 V for 12 V halogen lamp.
  - Terminals: 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>) terminals.
  - Internal earth: 2.5 mm<sup>2</sup> (0.004 in<sup>2</sup>).
  - External earth: 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
  - Supplied with a set of rocker hinges for mounting with DN 50 to DN 150 sightglass fittings (according to DIN 28 120).
  - One M20 threaded cable entry (via increased safety "e" box).

### Standard Materials

- Body and bezel: gray painted marine grade aluminum alloy
- Lens: toughened sealed lamp glass
- Reflector: internal aluminum

### ATEX Certifications and Compliances

- IIB Version
  - Certification Type: HRCd
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
    - Type of Protection: Ex d IIB
    - Temperature class: T4 to T3
  - Dust: Zone 21 and 22
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T130 °C to T195 °C (T266 °F to T383 °F)
    - Ambient Temperature: -40 °C to +40 °C (-40 °F to +104 °F)
    - CE Declaration of Conformity: 50241
    - ATEX Certificate: LCIE 02 ATEX 6232
    - Index of Protection according EN/IEC 60529: IP66
    - Impact Resistance (shock): IK08
    - Internal Volume: > 2 dm<sup>3</sup> (122 in<sup>3</sup>) -2 liters



IIB Version



IIC Version (50 W)



IIC Version (20 W)



IIB Version Fitted with  
DN Model Sightglass Fitting

- IIC Version
  - Certification Type: HRC 20WH (20W), HRC 50 (50W)
  - Zone 1 and 2
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
    - Type of Protection: Ex d IIC
    - Temperature class: T4 (20W), T3 (50W)
  - Zone 21 and 22
    - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: 20 W: T130 °C (T266 °F), 50 W: T195 °C (T383 °F)
    - Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
    - CE Declaration of Conformity: 50260 (20W), 50661 (50W)
    - ATEX Certificate: LCIE 03 ATEX 6110 (20W), LCIE 03 ATEX 6109 (50W)
    - Index of Protection according EN/IEC 60529: IP65

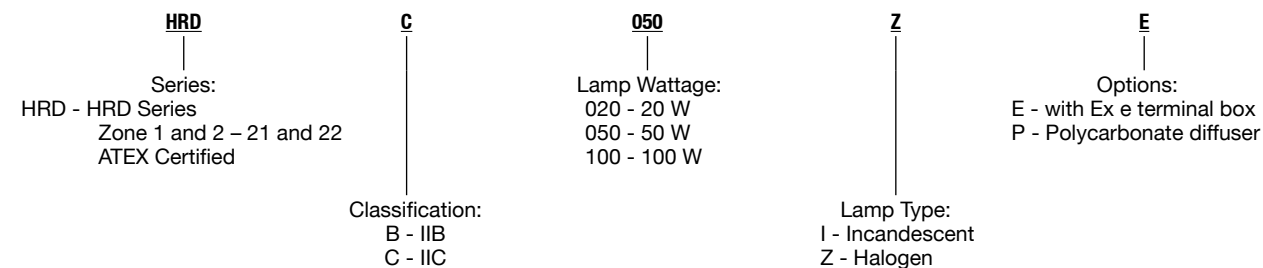
# ATX™ HRD Series Tank Inspection Lights

Flameproof. Incandescent, Halogen

ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP65 or IP66/IK08

Order using catalog numbering guide below or select catalog number from table below

## Catalog Numbering Guide — HRD Series Tank Inspection Lights



Description	Type	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
40 W to 100 W incandescent or 50 W halogen ①	IIB	2.90 (6.39)	8.10 (494.3)	HRDB100I
20 W halogen ② 230 V, 50/60 Hz	IIC	2.30 (5.07)	3.00 (183.1)	HRDC020ZE
50 W halogen ② 230 V, 50/60 Hz	IIC	4.00 (8.82)	3.60 (219.7)	HRDC050ZE

## Technical Data

Catalog Number	Version	Lamp Type and Wattage	T Rating	Ambient Temperature = +40 °C (+104 °F)	
				Gas Cable Temperature	Dust Surface Temperature
HRDB100I or NHRDB100I (lamp not supplied)	IIB	40 W Incandescent	T4	N.A.	+130 °C (+266 °F)
		60 W Incandescent	T3	+87 °C (+188.6 °F)	+137 °C (+278.6 °F)
		100 W Incandescent	T3	+107 °C (+224.6 °F)	+195 °C (+383 °F)
		50 W Halogen	T3	+82 °C (+179.6 °F)	+149 °C (+300.2 °F)

① Can also be used with compact fluorescent lamp.

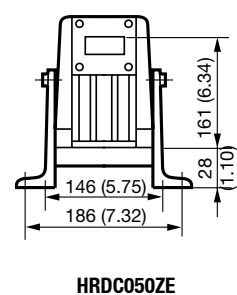
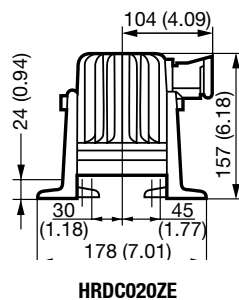
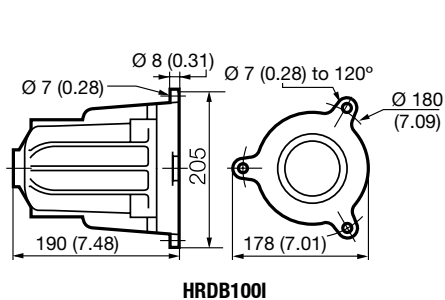
② Lamp supplied.

# ATX™ HRD Series Tank Inspection Lights

## Flameproof. Incandescent, Halogen

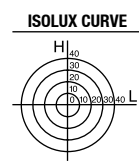
ATEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP65 or IP66/IK08

### Dimensions in Millimeters (Inches)



### Photometric Data

#### IIC Versions



20 W Version		Illuminance E (lux)				
Height (m)	Distance (cm)	0	10	20	30	40
1	L	3000	1000	125	–	–
	H	3000	900	75	–	–
2	L	1150	750	300	100	50
	H	1150	750	300	100	50

50 W Version		Illuminance E (lux)				
Height (m)	Distance (cm)	0	10	20	30	40
1	L	12000	2300	375	50	–
	H	12000	2700	250	50	–
2	L	2550	1550	600	200	–
	H	2550	1800	800	200	–

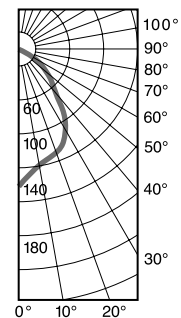
#### IIB Versions

Polar curves for a lumen output of 1000 lm flux, according to NF C 71–120  
 Luminaire symbol as per NF C 71–121

#### 100 W Incandescent

#### CANDELA DISTRIBUTION

Degree	Candelas
0	155
5	145
10	136
15	135
20	133
25	127
30	112
35	90
40	66
45	54
50	46
60	29
70	11



# EF Series Explosionproof Floodlights

## 150 W, 300 W Reflector Incandescent

NEC — For 150 W PAR-38 or R-40 reflector lamps:  
Class I, Groups C, D

NEC — For 300 W R-40 reflector lamps:  
Class I, Group D

### Applications

- Class I, Groups C and D locations such as aircraft service areas, oil and gas loading docks, distilleries.

### Features

- Floodlights feature rugged, lightweight cast aluminum construction and are factory wired and sealed — no external seals are required. Choice of lamp types provides various distribution patterns. Use medium base 150W PAR-38, R-40 or 300W R40 reflector lamps.
- Easy to carry, portable model with wheelbase has handle for convenient carrying, built-on wrench allowing 135° vertical adjustment. Weighs 8.6 kgs (19 lbs).
- External cable on portable wheelbase unit (not furnished) should be 3-conductor No. 16 A.W.G. type S or SO rubber covered cable. Service end of cord should be equipped with a 2-wire, 3-pole explosionproof plug for connecting to an explosionproof receptacle.
- Terminal block has pressure terminal for connecting rubber covered cable to floodlight. Cable Connector takes a 9.5 to 12.7 mm (.375 in to .500 in) outside diameter cord. Sizes up to 15.9 mm (.625 in) diameter are available on special order.
- Permanent base model has explosionproof junction wiring chamber with 19.1 mm (3/4 in) horizontal feed-thru hubs. Vertical adjustment to 135°; horizontal to 345°.

### Standard Materials

- Housing: cast aluminum
- Yoke: high-strength aluminum alloy
- Lens: thermal shock and impact resistant glass

### Standard Finishes

- Floodlight housing, wheelbase, yoke and wiring compartment: aluminum enamel finished

### NEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- Copperfree aluminum alloy and stainless steel construction withstands 500 hours of salt-spray test. Per MIL-F-8115C



GEFWB-30



GEFJB-30

# EF Series Explosionproof Floodlights

## 150 W, 300 W Reflector Incandescent

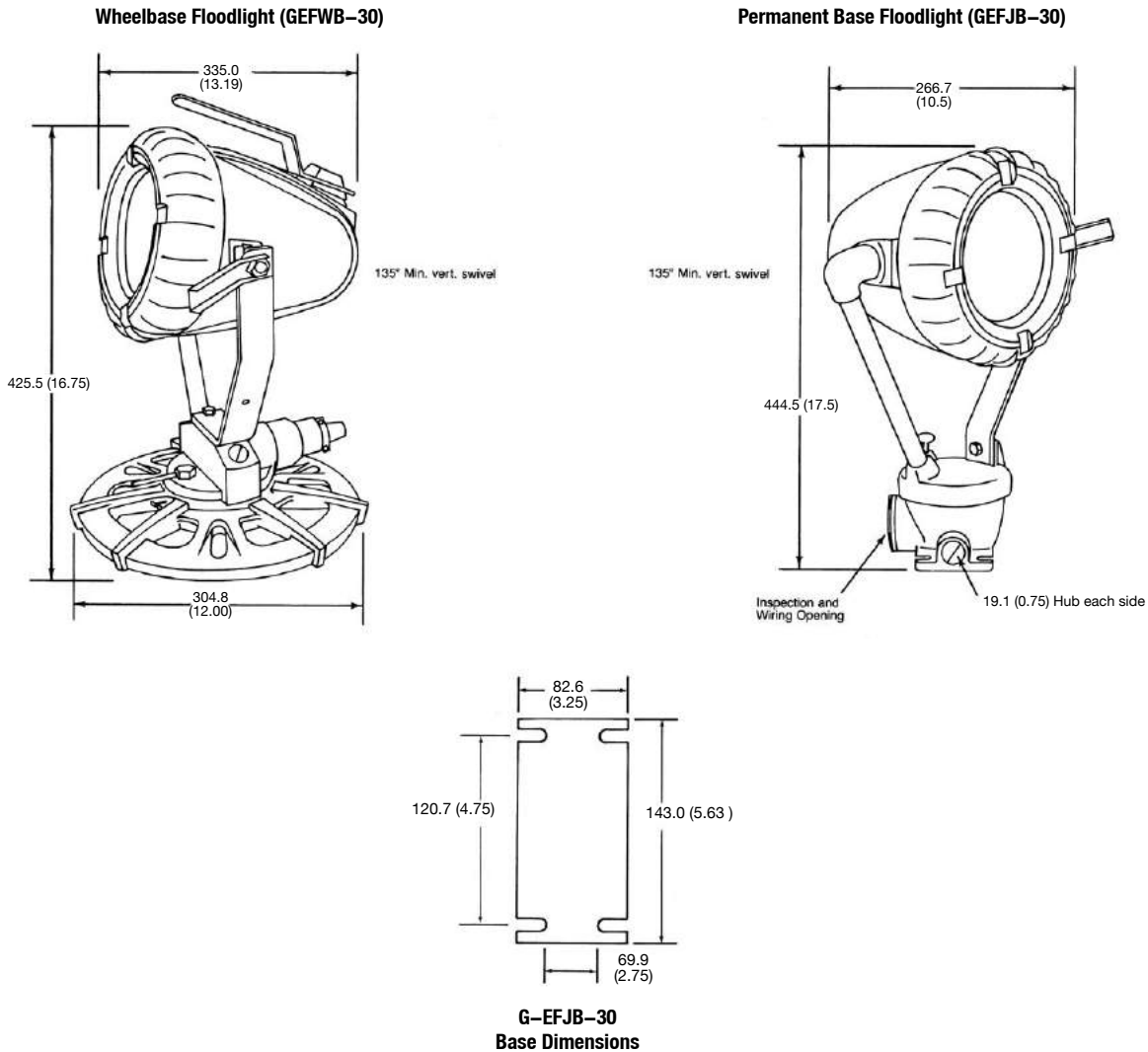
NEC — For 150 W PAR-38 or R-40 reflector lamps:  
Class I, Groups C, D

NEC — For 300 W R-40 reflector lamps:  
Class I, Group D

**EF Series Explosionproof Floodlights**  
For 150W incandescent medium base PAR-38 (T3C) projector spot or flood, or 150W or 300W incandescent medium base R-40 (T2C) reflector spot or flood

Description	Catalog Number
Portable Flood with Wheelbase and Handle. Accommodates 9.5 mm (.375 in— .500 in) ① cable.	G-EFWB-30
Permanent Base Floodlight, for 8.0 mm (.314") conduit	G-EFJB-30

### Dimensions in Millimeters (Inches)



① Can be furnished to accommodate cable sizes to 15.9 mm (.625") Dia. on special order. Cable must be ordered separately.

# AHL and EHL Incandescent Factory Sealed Luminaires and Handlamps

## Explosionproof

Suitable for use in Wet Locations.

**NEC/CEC — AHL:**  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups F ①, G  
Class III

**NEC/CEC — EHL:**  
Class I, Division 1 and 2, Groups C, D

### Applications

- AHL general purpose explosionproof lighting fixture – an A-51 fixture with handle assembly of hook and cable clamp.  
CAUTION: For safe operation, the AHL fixture weight must be supported by the hanger hook, not by the flexible cord, per the National Electrical Code.
- EHL general purpose explosionproof portable handlamp. Only 127 mm (5 in) in diameter for ease of movement.

### Features:

- AHL and EHL
  - Equipped with connection block for ease of wiring and relamping.
  - Cable clamp diameters: AHL – 9.5 mm to 15.9 mm (.375 in to .625 in); EHL – 10.3 mm (.406 in) for 16-3 AWG.
  - Heat- and impact-resistant glass globes.
- AHL
  - Sturdy fixture with rugged hanging hook.
  - Safety grounding – additional terminal furnished to connect to grounding conductor.
- EHL
  - Portability, with phenolic handle and non-sparking guard with hook.
  - Easy relamping – loosen setscrew, unscrew guard, remove globe and insert lamp.
  - Safety grounding – remove cable and clamp and make connections to terminal (including one ground terminal) then tighten clamp.

### Standard Materials

- Globes: heat-and impact-resistant glass
- AHL fixture unit, hook and guard: copperfree aluminum
- AHL cable clamp: brass
- EHL fixture body and handle: laminated phenolic
- EHL handle: laminated phenolic
- EHL hook: brass
- EHL guard: copperfree aluminum

### Standard Finishes

- AHL fixture unit, guard, handle and hook: two-coat epoxy enamel
- AHL cable clamp: natural finish
- EHL fixture body: laminated phenolic
- EHL handle: phenolic
- EHL guard and hook: guard – natural finish; hook – zinc electroplate and clear chromate
- EHL cable clamp: laminated phenolic

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- EHL UL Listed: E59147
- CSA Certification: LR25428

### Related Products

- The EHL handlamp may be used with AE Automatic Take-Up Reelites listed in the *Specialty Products* section and ECC Cord Connector and Plugs and Receptacles in the *Plug and Receptacles* section.



AHL



EHL

① To reduce the risk of ignition of hazardous atmospheres, do not use where electrically conductive dusts are present (most coal dusts are not electrically conductive).





# AHL and EHL Incandescent Factory Sealed Luminaires and Handlamps

## Explosionproof

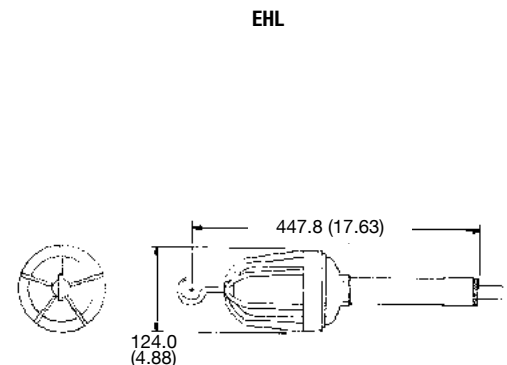
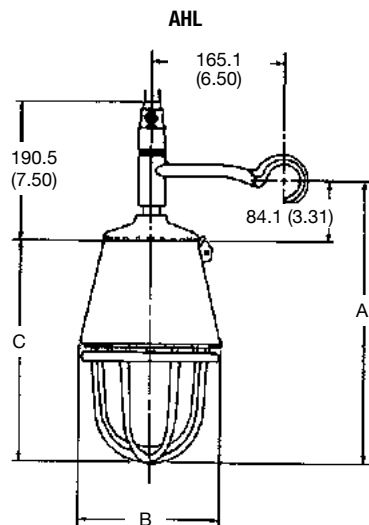
Suitable for use in Wet Locations.

**NEC/CEC — AHL:**  
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups F ①, G  
Class III

**NEC/CEC — EHL:**  
Class I, Division 1 and 2, Groups C, D

	Description	Cable Diameter Millimeters (Inches)	"T" Ratings	Catalog Number
<b>AHL – Explosionproof 60 - 300 W Lighting Fixtures</b>				
<i>CAUTION: For safe operation, weight of fixture must be supported by hanger hook, not by the flexible cord, per the National Electrical Code.</i>				
	60-100 W, A-21 (AAU-1N)	9.53 to 15.88 (.375 to .625)	T4	<b>AHL100</b>
	200-300 W, PS-30 (AAU-2NS)	9.53 to 15.88 (.375 to .625)	T4A	<b>AHL200</b>
<b>EHL – Explosionproof 100 W Portable Handlamp ②</b>				
	Laminated Phenolic Handle. Wiring Connection Block takes from #16 to #14 Wire.			
	100 W, A-21	10.26 (.406)	T3A	<b>EHL100N</b>
<b>EHL Replacement Globe and Guard</b>				
	Heat-resistant glass globe			<b>XP419</b>
	Aluminum guard with hook			<b>XP163SA</b>

### Dimensions in Millimeters (Inches)



Catalog Number	A	B	C
<b>AHL100</b>	362.0 (14.25)	179.3 (7.06)	277.9 (10.94)
<b>AHL200</b>	404.9 (15.94)	223.8 (8.81)	320.8 (12.63)

① To reduce the risk of ignition of hazardous atmospheres, do not use where electrically conductive dusts are present (most coal dusts are not electrically conductive).

② Handlamp accommodates 16-3 SO cable. Contact your sales representative if 14-3 cable is required.

# ATX™ PJ Series Portable Floodlights

## Flameproof. Halogen

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**II 2 GD**  
**IP66 - IK10**

### Applications

- Typical applications include aircraft manufacturing and maintenance facilities, refineries, chemical and etrochemical plants and where the permanent mounting of a fixture is not practical.

### Features

- 55-70 W H3 halogen lamp.
- PK22S lamp holder.
- Connection via two terminals 1 x 2.5 mm<sup>2</sup> (0.002 x 0.004 in<sup>2</sup>).
- Internal earth connection 1 x 2.5 mm<sup>2</sup> (0.002 x 0.004 in<sup>2</sup>).
- External earth connection 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- One M20 threaded rear entry.
- Operates in any position.
- Installed on cradle to allow horizontal and vertical adjustment.

### Standard Materials

- Body and bezel: gray painted aluminum alloy
- Lamp glass: sealed toughened glass
- Carrying handle: plastic covering

### ATEX Certifications and Compliances

- Certification Type: PJ70
  - Gas: Zones 1 - 2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex d IIC
    - Temperature Class: T3 to T4 [See *T Rating (Gas) and Surface Temperature (Dust) Table*]
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: II2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T120 °C to T142 °C (T248 °F to T288 °F) [See *T Rating (Gas) and Surface Temperature (Dust) Table*]

- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50239
- ATEX Certificate: LCIE 02 ATEX 6227
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Internal Volume: < 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters



T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	Position	Gas Temperature Rating			Dust Surface Temp
		Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	at Ta = +55 °C (+131 °F)
55 and 70 Watt Halogen		T4	T3	T3	+142 °C (+288 °F)
		T4	T4	T3	+135 °C (+275 °F)
		T4	T4	T4	+120 °C (+248 °F)

# ATX™ PJ Series Portable Floodlights

## Flameproof. Halogen

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**II 2 GD**  
**IP66 - IK10**

### Catalog Number Logic

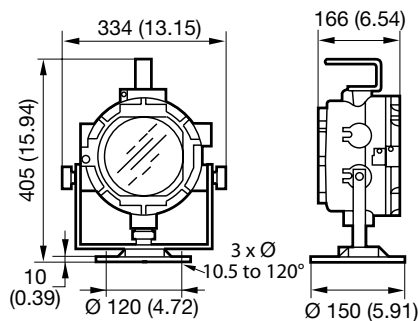
**PJ**  
 Series:  
 PJ - PJ Series  
 Zone 1 and 2 - 21 and 22  
 ATEX Certified

**55**  
 Lamp Type:  
 55 - 55 Watt Halogen  
 70 - 70 Watt Halogen

**01B**  
 Supply Voltage:  
 01B - 12 Vac/Vdc  
 02B - 24 Vac/Vdc  
 11A - 110 Vac, 50/60 Hz  
 23A - 230 Vac, 50/60 Hz

Lamp Type, Wattage and Voltage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
55 W Halogen 12 Vac/Vdc	8 (17.64)	27 (1647.6)	<b>PJ5501B</b>
70 W Halogen 24 Vac/Vdc	8 (17.64)	27 (1647.6)	<b>PJ7002B</b>
70 W Halogen 110 V, 50/60 Hz ①	8 (17.64)	27 (1647.6)	<b>PJ7011A</b>
70 W Halogen 230 V, 50/60 Hz ②	8 (17.64)	27 (1647.6)	<b>PJ7023A</b>

### Dimensions in Millimeters (Inches)



① With transformer 110/24 V (+6% -10%)  
 ② With transformer 230/24 V (+6% -10%)

# ATX™ HLD Series Handlamps

## Flameproof. Incandescent, Halogen

ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66

### Applications

- To provide maintenance staff with task specific portable lighting in Zone 1 hazardous locations.
- Ideal for persons requiring task specific portable lighting in refineries, oil and gas process and chemical plants.

### Features

- To be supplied with SELV (Service Extra Low Voltage) 24 Vac or 30 Vdc.
- 75 W maximum for incandescent lamp.
- 70 W maximum for halogen lamp.
- E27 lamp holder for incandescent lamp (not supplied).
- PK22S lamp holder for H3 lamp (supplied).
- Connection via two terminals — 1 x 2.5 mm<sup>2</sup> (0.002 x 0.004 in<sup>2</sup>).
- One M20 threaded entry.
- Protective guard.
- Fitted with suspension hook.

### Standard Materials

- Body and bezel: gray painted aluminum alloy
- Lamp glass: sealed borosilicate glass
- Protective guard: white zinc plated steel

### ATEX Certifications and Compliances

- Certification Type: BLd
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex d IIC
    - Temperature Class: T3 to T5 [See *T Rating (Gas) and Surface Temperature (Dust) Table*]
  - Dust: Zone 21 and 22
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T110 °C to T138 °C (T230 °F to T280 °F); [See *T Rating (Gas) and Surface Temperature (Dust) Table*]

- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- CE Declaration of Conformity: 50240
- ATEX Certificate: LCIE 02 ATEX 6164
- Index of Protection according EN/IEC 60529: IP66
- Internal Volume: < 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters



T Rating (Gas) and Surface Temperature (Dust) Table

Type	Ambient T°	Gas				Dust
		Lamp glass facing up		Lamp glass facing down		Surface
		Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	Temperature
40 W Incandescent	T Rating	T5	T4	T5	T4	+110 °C (+230 °F)
	Cable T°	+56 °C (+133 °F)	+71 °C (+160 °F)	+66 °C (+151 °F)	+81 °C (+178 °F)	N.A.
60 W Incandescent	T Rating	T4	T4	T4	T4	+130 °C (+266 °F)
	Cable T°	+61 °C (+142 °F)	+76 °C (+169 °F)	+73 °C (+163 °F)	+88 °C (+190 °F)	N.A.
75 W Incandescent	T Rating	T4	T3	T4	T4	+138 °C (+280 °F)
	Cable T°	+67 °C (+153 °F)	+82 °C (+180 °F)	+79 °C (+174 °F)	+94 °C (+201 °F)	N.A.
55 W Halogen	T Rating	T4	T4	T4	T4	+122 °C (+252 °F)
	Cable T°	+67 °C (+153 °F)	+82 °C (+180 °F)	+79 °C (+174 °F)	+94 °C (+201 °F)	N.A.
70 W Halogen	T Rating	T4	T4	T4	T4	+122 °C (+252 °F)
	Cable T°	+67 °C (+153 °F)	+82 °C (+180 °F)	+79 °C (+174 °F)	+94 °C (+201 °F)	N.A.

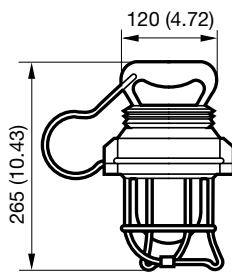
# ATX™ HLD Series Handlamps

## Flameproof. Incandescent, Halogen

ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66

Lamp Type, Wattage and Voltage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
75 W Maximum for Incandescent Lamp	2.8 (6.17)	13 (793.3)	HLD7502B
55 W Halogen 12 Vac/Vdc①	2.8 (6.17)	13 (793.3)	HLD5501B
70 W Halogen 24 Vac/Vdc①	2.8 (6.17)	13 (793.3)	HLD7002B

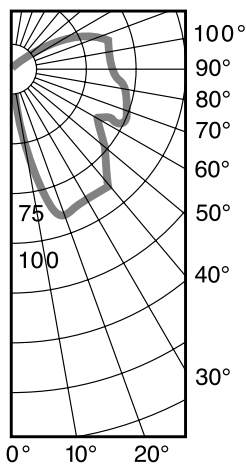
### Dimensions in Millimeters (Inches)



### Photometric Data

Polar curves for a 1000 lm output, according to NF C 71-120  
Luminaire symbol according to NF C 71-121

Degrees	Candelas
0	23
5	37
10	51
15	68
20	83
25	82
30	82
35	82
40	82
45	77
50	72
60	61
70	73



① Lamp supplied.

# ATX™ TCH Series Safety Flashlights

## Increased Safety. Halogen, Incandescent

**ATEX:**  
**Zone 1 and 2 - 21 and 22**  
**II 2 GD**  
**IP66 (TCH1)**  
**IP66/68 (TCH2)**

### Applications

- To provide maintenance staff with task specific portable lighting in Zone 1 hazardous areas.
- Ideal for persons requiring task specific portable lighting in refineries, oil and gas process and chemical plants.

### Features

- Type TCH1:
  - Luminescent switch facilitates locating flashlight in dark.
  - Can be used to transmit a Morse code.
  - Halogen version provides twice the lumen output of incandescent lamps.
  - Hook for hands free operation.
  - Uses R20 or LR20 batteries (not included).
  - Supplied with 1 lamp.
- Type TCH2:
  - Dual optics (one at the end and one on the side) permitting:
    - Focused beam for safe movement.
    - Wide angle side beam for task specific focused lighting.
  - Ergonomic design permits easy manipulation:
    - User can select one of the two beams with one hand.
  - Two beams can be switched on separately and not simultaneously.
  - Should one lamp fail, the second lamp will still provide illumination.
  - Flashlight is stable when placed upright on a horizontal surface.
  - Pocket clip allows for hands free work.
  - Luminescent ring allows easy locating of flashlight in dark.
  - Suspension hook for hands free use.
  - Uses 2 R20 or LR20 batteries (not included).
  - Supplied with one halogen lamp for main beam and one incandescent lamp for side beam.
  - Supplied with one special opening tool.

### Standard Materials

- Type TCH1:
  - Housing: shockproof and antistatic polyamide
  - Internal reflector: polished
  - Lens: polycarbonate
  - Hardware: stainless steel
  - Switch: luminescent
- Type TCH2:
  - Housing: black polycarbonate
  - Internal reflector: polished
  - Lens: polycarbonate
  - Hardware: stainless steel
  - Ring: luminescent

### ATEX Certifications and Compliances

- Certification Type: TCH1
  - Gas: Zones 1–2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex eib IIC
    - Temperature Class: T4
  - Dust: Zone 21-22
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: +95 °C (+203 °F)
    - Ambient Temperature: -20 °C ≤ Ta ≤ +40 °C (-4 °F ≤ To ≤ +104 °F)



TCH1



TCH2

- CE Declaration of Conformity: 50259
- ATEX Certificate: LCIE 03 ATEX 6064
- Index of Protection according EN/IEC 60529: IP66
- Certification Type: TCH2
  - Gas: Zones 1–2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex eib IIC
    - Temperature Class:
      - Incandescent PR6:T4 [+55°C (+131 °F)]
      - Krypton PR102: T4 [+55°C (+131 °F)]
      - Halogen HPR52: T4 [+40°C (104 °F)] - T3 [+55°C (+131 °F)]
      - Halogen HPR01: T4 [+55°C (+131 °F)]
  - Dust: Zone 21-22
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: +130 °C (+266 °F)
  - Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F)
  - CE Declaration of Conformity: 50238
  - ATEX Certificate: LCIE 02 ATEX 6229
  - Index of Protection according EN/IEC 60529: IP66/68 (25m)

### Other Certification

- Certification Type: TCH1 / TCH2
  - INMETRO Certificate: BVC11.0419 (TCH1) and BVC11.0420 (TCH2) ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

# ATX™ TCH Series Safety Flashlights

## Increased Safety. Halogen, Incandescent

ATEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66 (TCH1)  
 IP66/68 (TCH2)

### Ordering Information:

Number of lamps (included)	Type of Lamps (not included)	Number of Battery Cells	Weight kgs (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
1	Incandescent — 2.5 V – 0.3 A	2	0.4 (0.88)	3.4 (207.6)	TCH12C
1	Incandescent — 3.7 V – 0.3 A	3	0.4 (0.88)	3.4 (207.6)	TCH13C
1	Halogen — 2.8 V – 0.5 A	2	0.4 (0.88)	3.4 (207.6)	TCH12H
2	Incandescent — 2.5 V – 0.3 A	2	0.4 (0.88)	1.9 (116.0)	TCH22M
	Halogen — 2.8 V – 0.5 A				

### Spare Lamps for Replacement (Lamp Holder P13, 5S)

Lamp Type	Rating	Catalog Number
Incandescent (PR6)	2.5 V – 0.3 A	TCHL25C
Incandescent (PR7)	3.7 V – 0.3 A	TCHL37C
Halogen (HPR01)	2.8 V – 0.5 A	TCHL28H

# ATX™ TCH Series Safety Flashlights

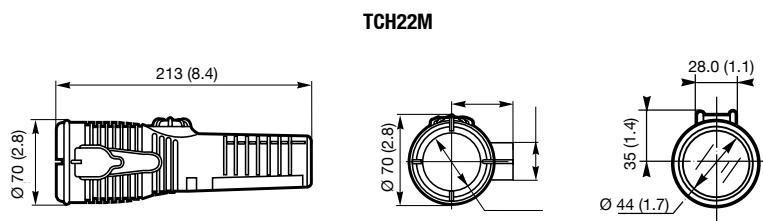
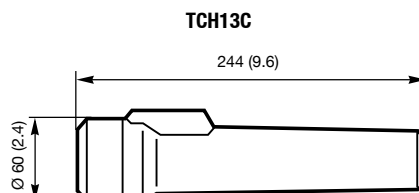
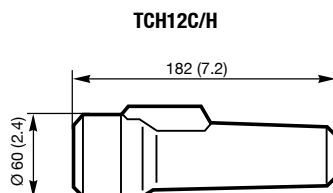
Increased Safety. Halogen, Incandescent

ATEX:  
Zone 1 and 2 - 21 and 22  
II 2 GD  
IP66 (TCH1)  
IP66/68 (TCH2)

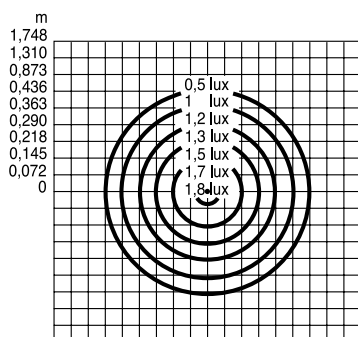
Appleton®

INCANDESCENT/HALOGEN/PORTABLE: ATEX INCREASED SAFETY

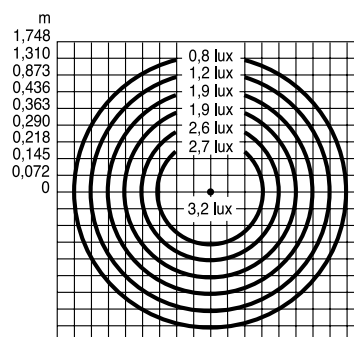
## Dimensions in Millimeters (Inches)



## Photometric Data



Catalog Number TCH12C (at 25 meters) Incandescent



Catalog Number TCH13C (at 25 meters) Incandescent

# EFKB Series Photocontrol

## Explosionproof, Dust-Ignitionproof

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 3, 7CD, 9EFG

### Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- FD factory sealed single gang cast device boxes confine arcing of device within the enclosure, preventing ignition of ignitable atmospheres during operation.
- For remote mounting.

### Features

- Eliminate need for adding sealing fittings and compound at each conduit entrance.
- Smooth, rounded integral bushing in each EFD/EFDB hub protects conductor insulation.
- Accurately tapped, tapered hubs for tight, rigid joints and ground continuity.
- Corrosion resistant captive stainless steel hex head cap screws hold covers to body.

- Clearly marked terminals with brass screws assure quick, easy wiring.
- Sealing chamber has smooth, double flanges that mate both to cover and mounting enclosure to provide flame-tight joints.
- Pigtail leads from push buttons are factory sealed in sealing well.

### Standard Materials

- Body: malleable iron or copperfree (4/10 of 1% max.) aluminum
- Cover: copperfree (4/10 of 1% max.) aluminum


### Standard Finishes

- Body and cover: body, triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat


### NEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203
- UL Listed: E10449, E81751

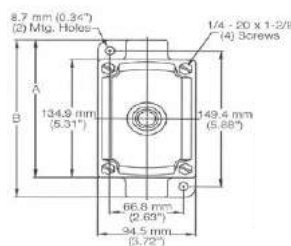
### Photocontrol Relay Cover

	Voltage Range	Catalog Number
	120 V, 50/60 Hz	EFKB-PC120
	208-277 V, 50/60	EFKB-PC277

### FD Back Box

	Type	Hub Size (Inches)	Catalog Number	
			Malleable Iron	Aluminum
	Dead-End	1/2	EFD150NLQ	EFD150ANLQ
		3/4	EFD175NLQ	EFD175ANLQ
		1	EFD110NLQ	EFD110ANLQ
	Feed-Thru	1/2	EFDC150NLQ	EFDC150ANLQ
		3/4	EFDC175NLQ	EFDC175ANLQ
		1	EFDC110NLQ	EFDC110ANLQ

### Dimensions in Millimeters (Inches)



# PCD2 Series Factory Sealed Hazardous Location Photocontrol

For use in Class I, Division 2, Groups A, B, C, D locations

Maintains Class I, Division 2 rating for Mercmaster III – Low Profile, Mercmaster III, and Mercmaster III – 400 Series Luminaires, Mercmaster LED

NEC/CEC:  
Class I, Division 2, Groups A, B, C, D  
NEMA 4X

## Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control in Class I, Division 2 locations.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For use with Mercmaster III – Low Profile, Mercmaster III, and Mercmaster III – 400 Series Luminaires.
- For remote mounting in FS Boxes.

## Features

- Factory sealed design eliminates the need for an explosionproof enclosure.
- Can be easily installed in the field.
- Solid state design for performance and reliability.
- Available for 120, 208, 240, or 277 volts.




- 50-400 W HID, incandescent or fluorescent, 50/60 Hz.
- 1000 V.A. Voltage/Ampere
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18AWG stranded leads 152.4 mm (6 in) in length.
- Will fit through standard 1/2" knockout.
- Supplied with locknut and gasket.

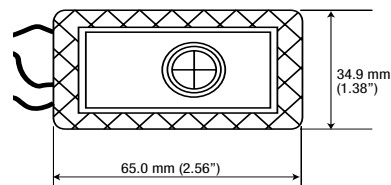
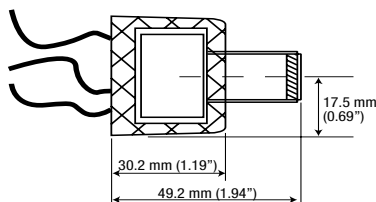
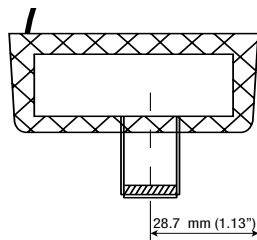
## Materials

- Encapsulated with epoxy sealing compound
- FS: aluminum

## NEC/CEC Certifications and Compliances

- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized

	Voltage Range	Max VA	Max Current Amps	Suffix Designation Catalog Number
<b>Factory-Installed Photocontrol - Not for ceiling or pendant cone.</b> <i>Add to fixture catalog after voltage; i.e.: <b>KPWBL1075MTH1</b>.</i>				
	120 V, 50/60 Hz	1000	—	<b>H1</b>
	208 V, 50/60 Hz	1000	—	<b>H2</b>
	240 V, 50/60 Hz	1000	—	<b>H3</b>
	<b>Mercmaster III wall mounting hood with photocontrol installed shown</b>	277 V, 50/60 Hz	1000	—
<b>Photocontrol for Field Installation</b>				
	120 V, 50/60 Hz	1000	8.3 Amp	<b>PC120D2</b>
	208 V, 50/60 Hz	1000	4.8 Amp	<b>PC247D2</b>
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	
<b>Photocontrol in FS Cover for Use with FS/FD Box</b> <i>Supplied with two stainless steel screws. For neoprene gasket, order catalog number <b>FS-GKR-1N</b>.</i>				
	120V, 50/60 Hz	1000	8.3 Amp	<b>FSKA-PC120D2</b>
	208, 50/60 Hz	1000	4.8 Amp	<b>FSKA-PC247D2</b>
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	



# PC Series Industrial Photocontrol ①

## For Use in Ordinary Locations

For use with all Mercmaster III and Mercmaster LED luminaires

### NEC/CEC:

Rated for Ordinary (Unclassified) Locations

### Applications

- Durable polycarbonate housing with a clear UV stabilized window ultrasonically welded in place.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For use with all LED Series.
- For remote mounting in FS Boxes.




### Features

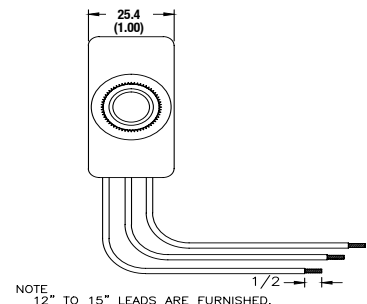
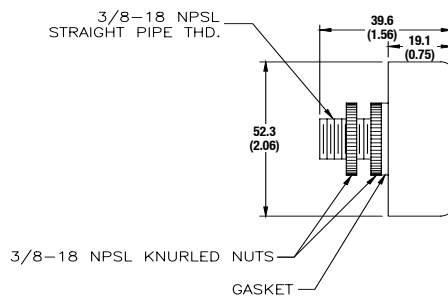
- Solid state design for performance and reliability.
- Available for 120, 208, 240, or 277 volts.
- 1000 V.A.
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18AWG stranded leads 152.4 mm (6.00 in) length.
- Will fit through standard 1/2" knockout.

- Supplied with locknut and gasket.
- Specifications:
  - Turn on: 1 to 4 Fc
  - Turn off: 3 to 12 Fc
  - Time Delay: 30 seconds, minimum
  - Rated Life: 5,000 operation, minimum at rated load

### Materials

- Photocell Housing: UV resistant polycarbonate
- FS Cover: aluminum

	Voltage Range	Max VA	Max Current Amps	Suffix Designation Catalog Number
Factory Installed Photocontrol — Not for ceiling or pendant cone Add to fixture catalog after voltage; i.e.: IMLLEDA32P5BU5.				
	120 V, 50/60 Hz	1000	—	5
	208 V, 50/60 Hz	1000	—	6
	240 V, 50/60 Hz	1000	—	7
	277 V, 50/60 Hz	1000	—	8
Photocontrol, purchased separately				
	120 V, 50/60 Hz	1000	8.3 Amp	PC120
	208 V, 50/60 Hz	1000	4.8 Amp	PC248
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	
Photocontrol in FS Cover for Use with FS/FD Box <i>Supplied with two stainless steel screws. For neoprene gasket, order catalog number <b>FS-GKR-1N</b>.</i>				
	120 V, 50/60 Hz	1000	8.3 Amp	FSKA-PC120
	208 V, 50/60 Hz	1000	4.8 Amp	FSKA-PC247
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	



① Fixtures with photocontrols are rated Type 3R.

# BKX Rigid Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

**CEC:**  
Class II, Division 1 and 2, Groups E, F, G  
Class III,  
Enclosure 4

## Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.

## Features

- All fixture hangers protect fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.
- Available in three depths.
- Accepts JB covers for ordinary location and AHG hangers for Class II hazardous locations.

## Standard Materials

- Gray iron and copperfree aluminum

## CEC Certifications and Compliances

- CSA Standard: C22.2 No 18.1
- CSA Certified: 013017



**BKX Shallow Box**



**BKX Deep Box**

# BKX Rigid Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.





CEC:

Class II, Division 1 and 2, Groups E, F, G

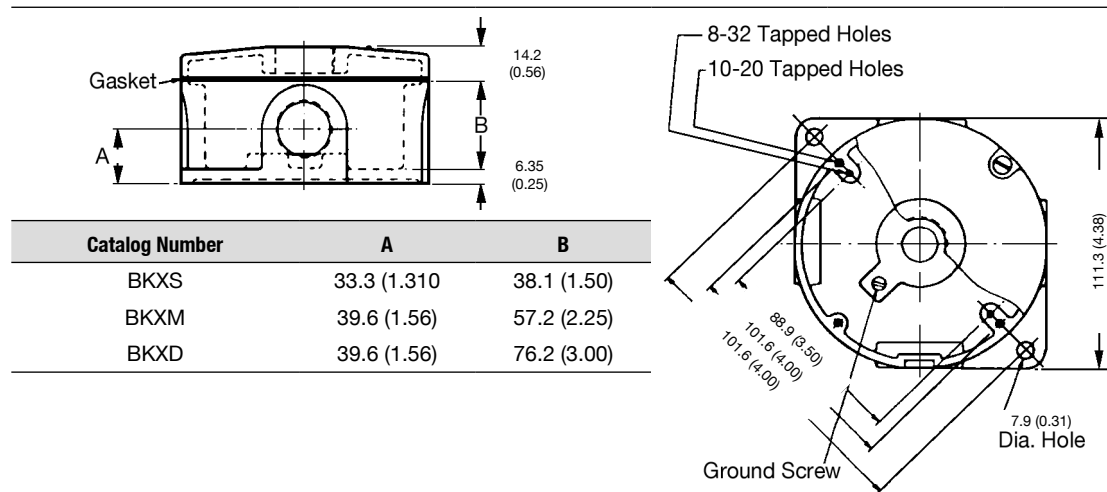
Class III,

Enclosure 4

Furnished with gasketed cover, four threaded conduit entries and 2 close-up plugs

			Catalog Number			
	Fixture Stem Size (Inches)	Hub Size (Inches)	Enclosure Only Ferrous Alloy	Enclosure Only Aluminium	With Cover Gray Iron	With Cover Aluminium
Shallow Box — 2-1/16						
	1/2	1/2	BKXS-1	BKXS-1A	BKXS-11	BKXS-11A
	1/2	3/4	BKXS-2	BKXS-2A	BKXS-21	BKXS-21A
	3/4	3/4	BKXS-2	BKXS-2A	BKXS-22	BKXS-22A
Medium Box — 2-11/16						
	1/2	1/2	BKXM-1	BKXM-1A	BKXM-11	BKXM-11A
	1/2	3/4	BKXM-2	BKXM-2A	BKXM-21	BKXM-21A
	1/2	1	BKXM-3	BKXM-3A	BKXM-31	BKXM-31A
	3/4	3/4	BKXM-2	BKXM-2A	BKXM-22	BKXM-22A
	3/4	1	BKXM-3	BKXM-3A	BKXM-32	BKXM-32A
Deep Box — 3-9/16						
	1/2	1/2	BKXD-1	BKXD-1A	BKXD-11	BKXD-11A
	1/2	3/4	BKXD-2	BKXD-2A	BKXD-21	BKXD-21A
	1/2	1	BKXD-3	BKXD-3A	BKXD-31	BKXD-31A
	3/4	3/4	BKXD-2	BKXD-2A	BKXD-22	BKXD-22A
	3/4	1	BKXD-3	BKXD-3A	BKXD-32	BKXD-32A
Covers with Gasket Attached						
	1/2		—	—	CBK-1G	CBK-1GA
	3/4		—	—	CBK-2G	CBK-2GA

## Dimensions in Millimeters (Inches)



# Fixture Hanger Bracket and Accessories

UNILETS® for use with Threaded Metal Conduit.

NEC/CEC:

Rated for Ordinary (Unclassified) Locations

POLES/HANGERS: NEC/CEC EXPLOSIONPROOF FLEXIBLE FIXTURE HANGERS

	NPT Size (Inches)	Support Weight kg (lbs)	Catalog Number
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## Fixture Hanger Brackets

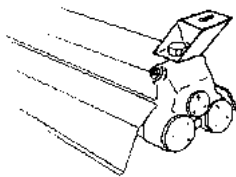


Suitable for use with fixtures with 3/4-14 NPT conduit openings or hubs. Mounts directly to ceiling or wall separately from conduit system. Catalog number includes two brackets and two hexhead bolts. Iron with gray epoxy finish.

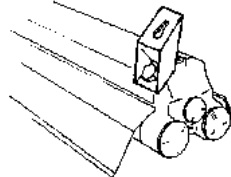
3/4

90.0 (200)

FHS1



Ceiling Mount  
Projects light downward (90°).  
Shown mounted to Appleton  
AH260-118 explosionproof  
fluorescent lighting fixture.



Wall Mount  
Projects light at 45° angle. Shown  
mounted to Appleton AH260-118  
explosionproof fluorescent lighting  
fixture.

## Safety Support Hooks and Rigid Support for Dummy Side of Lighting Fixtures

Complete assembly includes two hooks and one rigid support. Each hook supplied with a screw for closing 3/8" jaw opening. Rigid Support straddles max. 1-1/4" conduit. (Chain shown in installation view not furnished.)



3/4

90.0 (200)

AC-KT

## LC Steel Locking Couplings

Setscrews with Allen head fasten on outside of hub and fixture stem. Prevents fixture stem from turning in hubs not normally supplied with setscrews. 3/4" fixture stem.



3/4

—

SLC75

1

—

SLC1075

## Safety Support Hooks for Dummy Side of Lighting Fixtures

Supplied with screw for closing 3/8" jaw opening.

### Male



1/2

90.0 (200)

EFHM-50

3/4

EFHM-75

### Female

1/2

90.0 (200)

EFHF-50

3/4

EFHF-75

## Rigid Support for Fluorescent Lighting Fixtures (Dummy Side)

Will straddle max. 1-1/4" conduit.



1/2 and 3/4

157.5 (350)

FHS5075

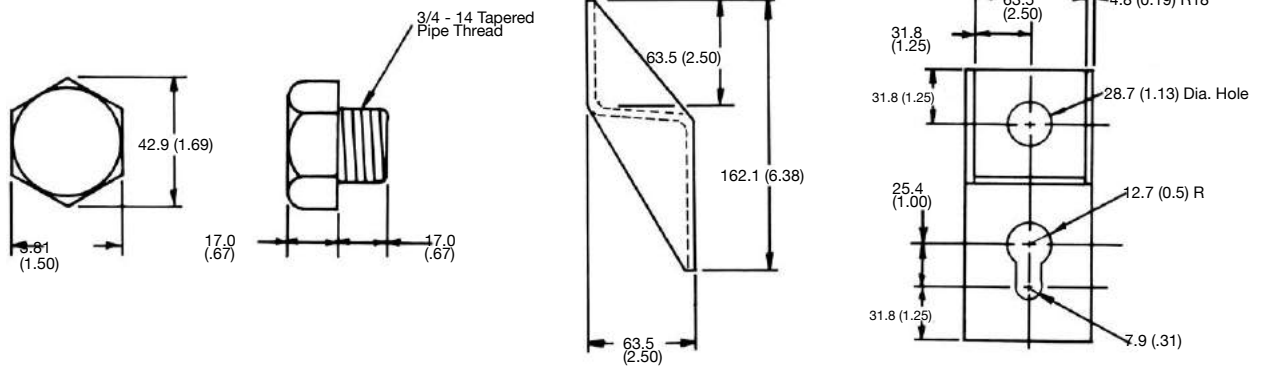
# Fixture Hanger Bracket and Accessories

UNILETS® for use with Threaded Metal Conduit.

NEC/CEC:

Rated for Ordinary (Unclassified) Locations

## Dimensions in Millimeters (Inches) — of FHS1 Fixture Hanger Bracket



POLES/HANGERS: NEC/CEC EXPLOSIONPROOF FLEXIBLE FIXTURE HANGERS

Appleton

# CPU and EFHU Fixture Hangers

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Applications

- Fixture hangers and accessories for suspension of industrial type HID, incandescent, and fluorescent lighting fixtures in Class I, Class II, and Class III classified locations.
- Suitable for use in areas where moisture, dust and corrosive atmospheres are present.
- CPU and EFHU, EFHC, have smooth, rounded integral bushing in each hub to protect conductor insulation.

### Features

- Boxes have cast mounting lugs. Box and hub cover provide a complete assembly for suspending lighting fixtures in classified locations.
- CPU20 Hangers are used where fixture stem is less than 12" long or with EXJF, ESD, or ESS where fixture stem is more than 12" long.
- EFHU Flexible Hangers meet NEC Sec. 501 requirement for flexible suspension where fixture stem is more than 12" long.
- Cushion design protects against vibration, and swivel action (any direction up to 15° from vertical) protects fixture if accidentally struck.
- EFHU Flexible Cushion Hangers available in three spring ranges to support fixture weights of 5.4kg to 21.8kg (12 to 48 lbs) and 21.8kg to 54.4kg (48 to 120 lbs).
- CB205 Connection Block available for connecting all wires without splices.
- Ground-joint mating surfaces assure flame-tight fit.
- Hanger has setscrew in stem hub to prevent fixture stem from turning.

### Standard Materials

- CPU and EFHU: malleable iron or copperfree (4/10 of 1% max. aluminum
- EFHU flexible hanger: brass fixture stem hub assembly

### Standard Finishes

- CPU20 rigid fixture hangers body: triple-coat – (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- CPU20 rigid fixture hangers cover: zinc electroplate and clear chromate
- Separate CPU20 covers: zinc electroplate and clear chromate.
- EFHU flexible cushion fixture hangers: triple-coat – (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat

### NEC/CEC Certifications and Compliances

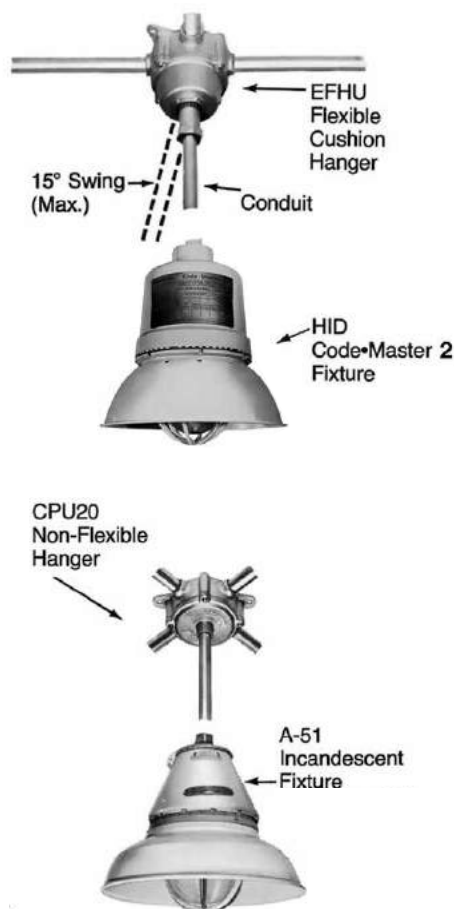
- UL Listed: E10444
- UL Standard: 1203
- CSA Certified EFHU: 025428
- CSA Certified CPU: 013107



CPU

EFHU

### Illustrated Features









# CPU and EFHU Fixture Hangers

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

				NEC Catalog Number		CEC Catalog Number	
				Malleable Iron	Malleable Iron	Aluminum	
Conduit Size (Inches)				Fixture Stem Size (Inches)	Support Weight kg (lbs)		
CPU Fixture Hangers — Non-Flexible Type — Form 20							
	Furnished with cast mounting lugs, four threaded universal 3/4" hubs, four 3/4" to 1/2" reducers, and three 1/2" close-up plugs.						
	1/2 or 3/4	1/2	112.5 (250)	CPU20-50	CPU20-50CN	CPU20-50ACN	
	1/2 or 3/4	3/4	112.5 (250)	CPU20-75	CPU20-75CN	CPU20-75ACN	
EFHU Fixture Hangers — Flexible Cushion Type — Form 20							
	Furnished with cast mounting lugs, four threaded universal 3/4" hubs, four 3/4" to 1/2" reducers, and three 1/2" close-up plugs.						
	1/2 or 3/4	3/4	5.4 to 21.6 (12 to 48)	EFHU75-48	EFHU75-48CN	—	
	1/2 or 3/4	3/4	21.8 to 54.0 (48 to 120)	EFHU75-120	EFHU75-120CN	—	
CPU Fixture Hanger Covers — Non-Flexible Type — Form 20							
	Furnished with screws.						
		1/2	250/112.5	CPSK20-50	CPSK20-50CN	CPSK20-50ACN	
		3/4	250/112.5	CPSK20-75	CPSK20-75CN	CPSK20-75ACN	
EFHU Fixture Hanger Covers — Flexible Cushion Type — Form 20							
	Furnished with screws. 3/4" to 1/2" reducer supplied for 1/2" fixture stem.						
		3/4	5.4 to 21.6 (12 to 48/)	EFH75-48	EFH75-48CN	—	
		3/4	21.8 to 54.0 (48 to 120)	EFH75-120	EFH75-120CN	—	
CPU and EFHU Connection Block Accessory							
	Mounts directly to drilled and tapped pads in CPU and EFHU hangers. Phenolic, with fastening strap and mounting screws.						
			5-Wire. 20-Amp, 300 V Max.	CB205	CB205CN	—	
							
73.2 (2.88)							
CB205		CB205CN					

# CPU and EFHU Fixture Hangers

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

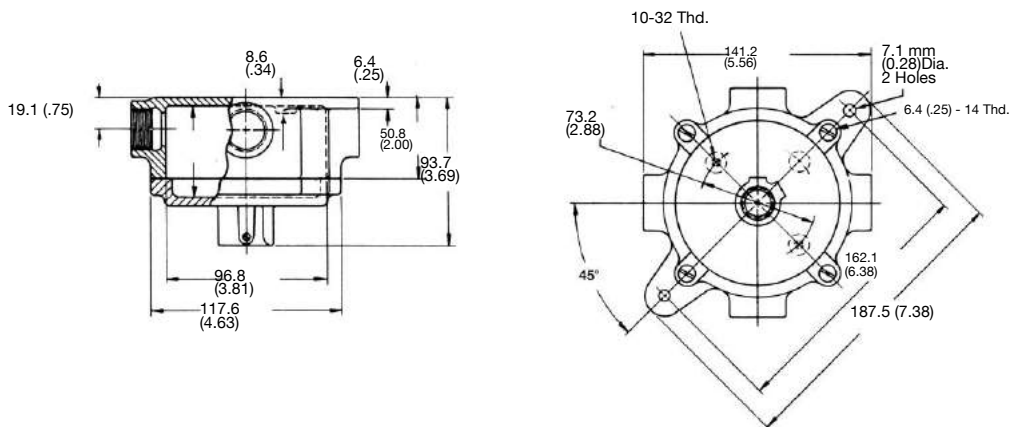
Class I, Division 1 and 2, Groups C, D

Class II, Division 1 and 2, Groups E, F, G

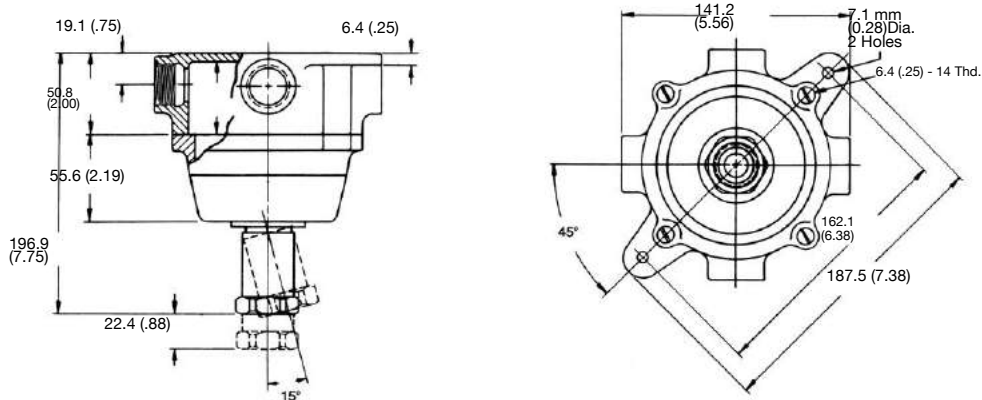
Class III

### Dimensions in Millimeters (Inches)

#### CPU50 and CPU75 Rigid Fixture Hanger



#### EFHU Flexible Cushion Fixture Hanger



# Flexible Fixture Hangers, EXJF Couplings, ESD and ESS Swivels

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit. For Use with Rigid Fixture Hangers Where Fixture Stem is More Than 304.8 mm (12") Long.

### NEC/CEC:

Class I, Division 1 and 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

### Applications

- Fixture hangers and accessories for suspension of industrial type HID, incandescent, and fluorescent lighting fixtures in Class I, Class II, and Class III classified locations.
- Suitable for use in areas where moisture, dust and corrosive atmospheres are present.

### Features

- EYJF Hanger Coupling
  - Meets NEC Sec. 501 requirement for flexible suspension where fixture stem is more than 304.8 mm (12 in) long.
  - Watertight construction.
  - Convenient method for attaching explosionproof lighting fixtures to non-flexible hangers.
  - Allows free swing of lighting fixture in any direction. Absorbs shock, prevents damage to conduit and connections.
  - Assures plumb hanging of fixture.
  - Both end fittings are female with removable male close nipples. To make union end-coupling, remove nipple from either end and thread in a 1/2" or 3/4" UNY Union.
  - Female end fittings have setscrews with screwdriver slot to allow locking of conduit. Prevents turning of fixture stem and nipple.
- ESS and ESD swivels for use with rigid fixture hangers where fixture stem is more than 304.8 mm (12 in) long.

### Standard Materials

- EXJF flexible hanger couplings: outer bronze braid, inner brass core with insulating liner and brass end fittings.
- ESD and ESS swivels: malleable iron.

### Standard Finishes

- EXJF flexible couplings: natural finish.
- ESD and ESS swivels: triple-coat – 1) zinc electroplate, (2) chromate, and (3) epoxy powder coat.

### Options

- EXJF available in stainless steel, add **-SS** to catalog number.

### NEC/CEC Certifications and Compliances

- UL Listed: E10444
- UL Standard: 1203
- CSA Certified: 065182



EXJF

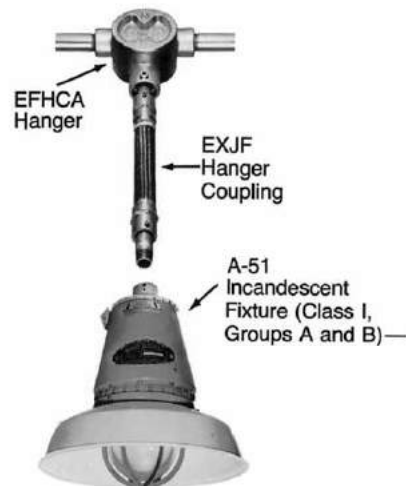


ESD



ESS

### Illustrated Features



# Flexible Fixture Hangers, EXJF Couplings, ESD and ESS Swivels

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit. For Use with Rigid Fixture Hangers Where Fixture Stem is More Than 304.8 mm (12") Long.

### NEC/CEC:

Class I, Division 1 and 2, Groups A, B♦, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

POLES/HANGERS: NEC/CEC EXPLOSIONPROOF FLEXIBLE FIXTURE HANGERS

Size (Inches)	Millimeters (Inches)		Catalog Number
	Flexible Length	Overall Length	

### EXJF Flexible Fixture Hanger ①



Raintight construction. Supplied with two female hubs, each with a removable close nipple. Can be used to make male to male, female to male or female to female. Setscrew with screwdriver slot allows locking of conduit—prevents fixture stem from turning. Maximum load 120 pounds.

1/2	102 (4.00)	276 (10.88)	EXJF14
3/4	102 (4.00)	278 (10.94)	EXJF24
1/2	152 (6.00)	327 (12.88)	EXJF16
3/4	152 (6.00)	329 (12.94)	EXJF26
1/2	203 (8.00)	329 (14.88)	EXJF18
3/4	203 (8.00)	379 (14.94)	EXJF28
1/2	254 (10.00)	429 (16.88)	EXJF110
3/4	254 (10.00)	430 (16.94)	EXJF210
1/2	305 (12.00)	480 (18.88)	EXJF112
3/4	305 (12.00)	481 (18.94)	EXJF212
1/2	381 (15.00)	556 (21.88)	EXJF115
3/4	381 (15.00)	557 (21.94)	EXJF215
1/2	457 (18.00)	632 (24.88)	EXJF118
3/4	457 (18.00)	633 (24.94)	EXJF218

### Swivel Hangers — Setscrew with screwdriver slot allows locking of conduit — Prevents fixture stem from turning

#### ESD Swivel

15° swivel from center and full 360° free swing.



1/2	ESD50 ②
3/4	ESD75 ②

#### ESS Swivel

15° swivel from center.



1/2	ESS50 ②
3/4	ESS75 ②

① Available in stainless steel. Add suffix **-SS** to catalog number. Consult your local sales representative.

② Not CSA Certified.

♦ Shaded area indicates items suitable for Class I, Groups A and B in addition to Class I, Groups C and D; Class II, Groups E, F and G; and Class III.

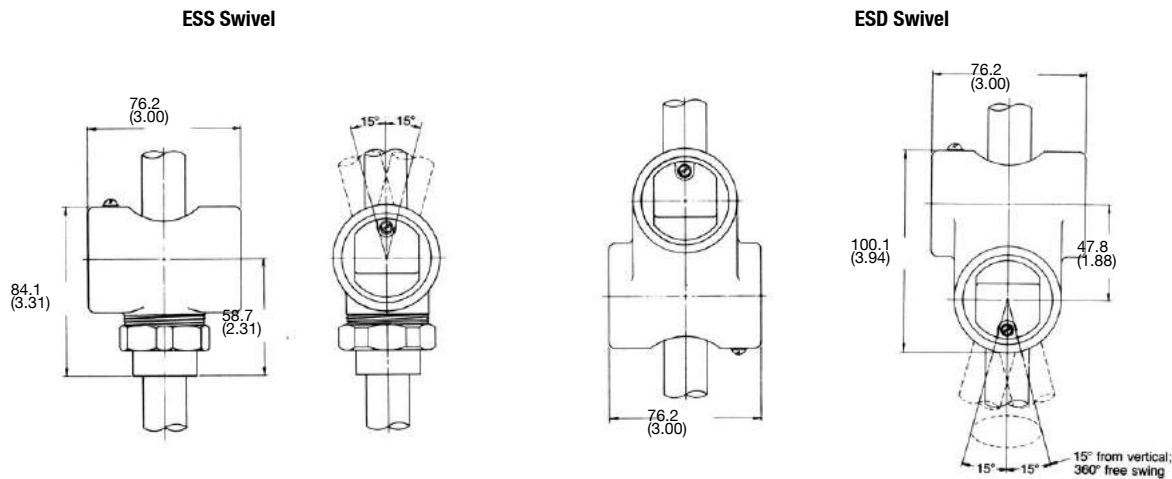
# Flexible Fixture Hangers, EXJF Couplings, ESD and ESS Swivel

## Explosionproof, Dust-Ignitionproof

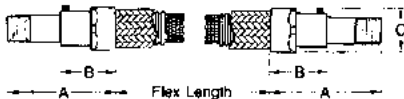
UNILETS® for use with Threaded Metal Conduit. For Use with Rigid Fixture Hangers Where Fixture Stem is More Than 304.8 mm (12") Long.

NEC/CEC:  
 Class I, Division 1 and 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III

### Dimensions in Millimeters (Inches)



### EXJF



Size Inches	Dimensions in Millimeters (Inches)		
	A	B	C
1/2	85.9 (3.38)	47.8 (1.88)	36.6 (1.44)
3/4	85.9 (3.38)	47.8 (1.88)	44.5 (1.75)

POLES/HANGERS: NEC/CEC EXPLOSIONPROOF FLEXIBLE FIXTURE HANGERS



# EFHC and EFHCA Fixture Hangers and Accessories

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups A<sup>①</sup>, B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

### Applications

- Fixture hangers and accessories for suspension of industrial type HID, incandescent, and fluorescent lighting fixtures in Class I, Class II, and Class III classified locations.
- Suitable for use in areas where moisture, dust and corrosive atmospheres are present.
- EFHC and EFHCA hangers have smooth, rounded integral bushing in each hub to protect conductor insulation.

### Features

- EFHC and EFHCA Fixture Hangers are used where fixture stem is less than 304.8 mm (12 in) long or with EXJF, ESD, or ESS where fixture stem is more than 304.8 mm (12 in) long.
- Raintight when used with O-Ring.
- Provided with threaded removable cover for convenience in pulling or splicing conductors.
- Mounting strap available for fastening EFHC or EFHCA to a mounting surface.
- CB202 connection block available for convenience in connecting line and fixture wires without splices.
- Hanger has setscrew in stem hub to prevent fixture stem from turning.

### Standard Materials

- EFHC and EFHCA fixture hanger body: malleable iron
- EFHC and EFHCA fixture cover: copperfree (4/10 of 1% max.) aluminum
- EFHC and EFHCA mounting strap and LC locking coupling: steel

### Standard Finishes

- EFHC and EFHCA fixture hanger body: triple-coat – 1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- EFHC and EFHCA fixture hanger cover: epoxy powder coat
- EFHC/EFHCA mounting strap and LC locking coupling: zinc electroplate

### NEC/CEC Certifications and Compliances

- UL Listed: E10444
- UL Standard: 1203
- CSA Certified: 025875



EFHC



EFHCA

### Illustrated Features



<sup>①</sup> Suitable for Class I, Groups A, B, C, D.

# EFHC and EFHCA Fixture Hangers and Accessories

## Explosionproof, Dust-Ignitionproof





UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups Aⓐ, BⓈ, C, D

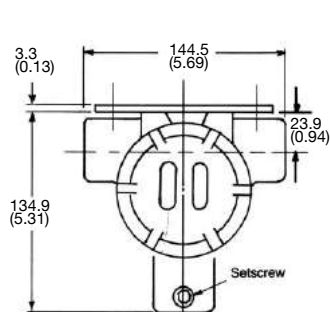
Class II, Division 1 and 2, Groups E, F, G

Class III

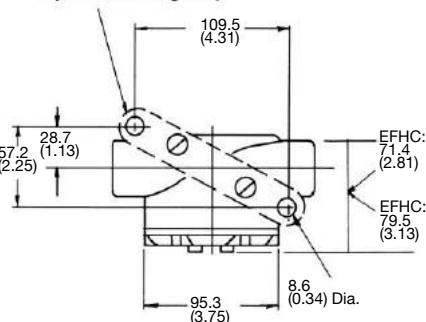
	Conduit Size (Inches)	Fixture Stem Size (Inches)	Catalog Number
<b>EFHC Fixture Hanger</b>			
	Class I, Groups BⓈ, C and D		
	Class II, Groups E, F and G		
	Class III		
	3/4	1/2	EFHC7550 ⓐ
	3/4	3/4	EFHC7575 ⓐ
	1	1/2	EFHC1050 ⓐ
	1	3/4	EFHC1075 ⓐ
<b>EFHCA Fixture Hanger</b>			
	Class I, Groups Aⓐ, B, C and D		
	Class II, Groups E, F and G		
	Class III		
	3/4	1/2	EFHCA7550 ⓐ
	3/4	3/4	EFHCA7575 ⓐ
	1	1/2	EFHCA1050 ⓐ
	1	3/4	EFHCA1075 ⓐ
<b>EFHC and EFHCA Connection Block Accessory – Porcelain</b>			
	Designed to fit in hanger without fastening.		
	2 Wire, 20 Amp 277 Volt		
	Maximum Wire Size		
	Two No. 10 AWG large terminal		CB202
	Two No. 14 AWG small terminal		
<b>EFHC and EFHCA Steel Mounting Strap</b>			
	For fastening EFHC or EFHCA to a mounting surface.		
	Add suffix S to above EFHCA or EFHC catalog numbers.		Add suffix <b>S</b>

### Dimensions in Millimeters (Inches)

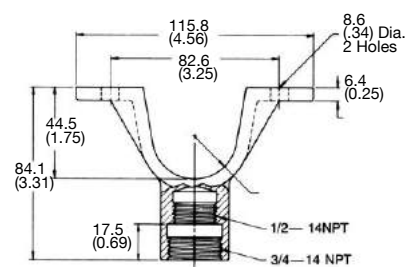
#### EFHCA and EFHC Fixture Hangers



#### Optional Mounting Strap



#### FHS Rigid Support



ⓐ Suitable for Class I, Groups A, B, C and D.

◆ Shaded area indicates items suitable for Class I, Groups B, C and D; Class II, Groups E, F and G; and Class III. Sealing fitting must be installed adjacent to enclosure for all conduits for Group B location (EFHC Series).

# GRF Conduit Outlet Boxes and Fixture Hanger Covers and Canopies

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### Applications

- Fixture hangers and accessories for suspension of industrial type HID, incandescent, and fluorescent lighting fixtures in Class I, Class II, and Class III classified locations.
- Suitable for use in areas where moisture, dust and corrosive atmospheres are present.
- GRF conduit outlet boxes have smooth, rounded integral bushing in each hub to protect conductor insulation.

### Features

- GRF conduit outlet box with fixture hanger canopy or cover is used where fixture stem is less than 12"/304.8 mm long or with EXJF, ESD, or ESS where fixture stem is more than 12" long.
- Raintight when used with O-Ring.
- For use with hub cover or canopy. Canopy has threaded cover opening for convenience in splicing conductors.
- Cover and canopy hubs have set-screws with screwdriver slots to allow locking of conduit. Prevents fixture stem from turning.

### Standard Materials

- Malleable iron or copperfree (4/10 of 1% max.) aluminum

### Standard Finishes

- Bodies: triple-coat – (1) zinc electroplate; (2) chromate, and (3) epoxy powder coat
- Covers and canopies: zinc electroplate and clear chromate

### NEC/CEC Certifications and Compliances

- UL Standard: 1203
- CSA Certified: 025875

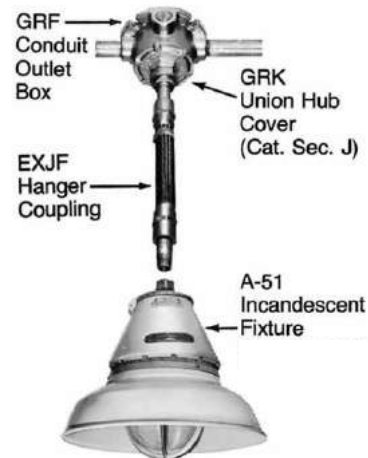


GRFC



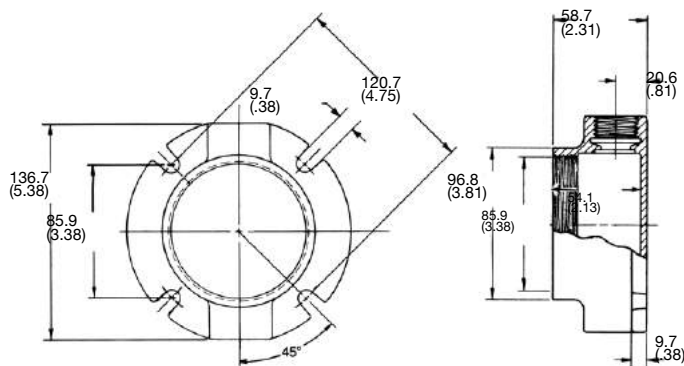
GRF Canopy

### Illustrated Features

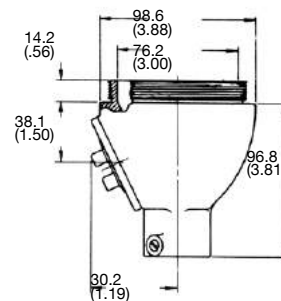


### Dimensions in Millimeters (Inches)

GRF Conduit Outlet Box



GRF Canopy










# GRF Conduit Outlet Boxes and Fixture Hanger Covers and Canopies

## Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

### NEC/CEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III

				NEC Catalog Number		CEC Catalog Number	
		Conduit Size (Inches)	Fixture Stem Size (Inches)	Malleable Iron	Aluminum	Malleable Iron	
GRF Flanged Conduit Outlet Boxes — Form 1, Less Cover — For use with GRF fixture hanger canopies and covers below — Nominal diameter of cover opening is 3-3/8” — Furnished with threaded hubs and ground screw — Flange has four 3/8” mounting slots							
	1/2	—	GRFC-50LC	—	GRFC-50LCCN		
	3/4	—	GRFC-75LC	—	GRFC-75LCCN		
	1	—	GRFC-100LC	—	GRFC-100LCCN		
	1/2	—	GRFL-50LC	—	GRFL-50LCCN		
	3/4	—	GRFL-75LC	—	GRFL-75LCCN		
	1	—	GRFL-100LC	—	GRFL-100LCCN		
	1/2	—	GRFT-50LC	—	GRFT-50LCCN		
	3/4	—	GRFT-75LC	—	GRFT-75LCCN		
	1	—	GRFT-100LC	—	GRFT-100LCCN		
	1/2	—	GRFX-50LC	GRFX-50ALCCN	GRFX-50LCCN		
	3/4	—	GRFX-75LC	GRFX-75ALCCN	GRFX-75LCCN		
	1	—	GRFX-100LC	—	GRFX-100LCN		
GRF Fixture Covers – Form 1 — Furnished with external threads for attachment to GRF mounting box above							
Threaded Hub Cover							
		1/2	GRK-50	—	GRK-50CN		
		3/4	GRK-75	—	GRK-75CN		
Union Hub Cover							
		3/4	GRK-75U	—	GRK-75UCN		
GRF Fixture Canopies – Form 1 — Furnished with external threads for attachment to GRF mounting box above — Threaded cover opening on side for convenience in splicing							
	Class I, Group D	1/2	GRK-50C	—	GRK-50CCN		
		3/4	GRK-75C	—	GRK-75CCN		
		1	GRK-100C	—	GRK-100CCN		

# AHG and UNJ Flexible Fixture Hangers

Malleable Iron. Ball Type.:15° Swing. Cushion Type: 8° Swing

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:  
Listed for Ordinary (Unclassified) Locations

## Applications

- AHG cushion hangers are enclosed and gasketed—ideal where dust and dampness are present.

## Features

- All hangers
  - All fixture hangers protect fixture against wind and vibration damage.
  - Cushion type for added protection where lighting fixtures are subjected to vibration.
- AHG hangers
  - Enclosed and gasketed.
  - Neoprene diaphragm keeps moisture and dirt out of system.
  - Cushion type permits 8° swing from vertical.
- UNJ hangers
  - Economical general purpose hanger.
  - Permits 15° swing.

## Standard Materials

- AHG fixture hangers: malleable iron
- UNJ fixture hangers: malleable iron and steel

## Standard Finishes

- AHG: triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- UNJ: malleable iron and steel parts, zinc electroplate and clear chromate

## NEC/CEC Certifications and Compliances

- CSA Certified: 065180 (UNJ)
- UL Listed: E109438 (AWG)



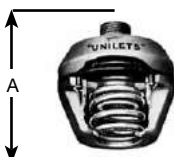

AHG5050



UNJ-50

## Illustrated Features



	Fixture Stem Size (Inches)	Male Nipple Size (Inches)	Length A mm (in)	Support Weight kg (lbs)	Catalog Number
AHG — Fixture Hangers — Cushion Type — Enclosed and Gasketed — Cushions 18.0 kg (40 lbs.)					
 Cushion	1/2	1/2	81.0 (3.19)	18 (40)	AHG5050
	1/2	3/4	81.0 (3.19)		AHG7550
	3/4	3/4	81.0 (3.19)		AHG7575
UNJ — Fixture Hangers — Malleable Iron and Steel — Ball Type					
 Ball	1/2	1/2	101.6 (4.00)	54 (120)	UNJ-50
	3/4	3/4	101.6 (4.00)		UNJ-75

# AL Ball and Cushion Flexible Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC. Ball Joint Permits 20° Swing.

## NEC:

Listed for Ordinary (Unclassified) Locations

## Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.
- Functions as combination conduit outlet box and hanger.

## Features

- Protects fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.
- Dual function—conduit outlet box and fixture hanger.
- Choice of ball or cushion type.
- Swivel joint construction—allows 20° swing from vertical.
- Cushion style, with conical spring, supports up to 54 kg (120 lbs).
- Cushion type has setscrew for locking fixture stem.
- Fixture and hanger stem can be wired at work bench.
- Connection block available for convenient wiring of fixture leads.

## Standard Materials

- Malleable iron with steel cover

## Standard Finishes

- Malleable iron parts: triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel parts: zinc electroplate

## NEC Certifications and Compliances

- UL Listed: E109438



ALA — Ball Hanger



ALC — Ball Hanger

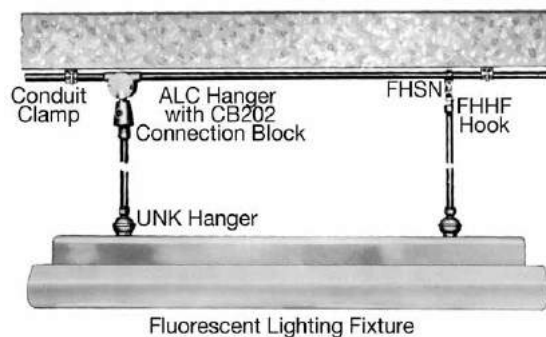


ALL — Cushion Hanger



ALT — Cushion Hanger





## Illustrated Features



# AL Ball and Cushion Flexible Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC. Ball Joint Permits 20° Swing.

NEC:  
Listed for Ordinary (Unclassified) Locations

	Conduit Size (Inches)	Fixture Stem Size (Inches)	Support Weight kg (lbs)	Catalog Number
ALA — Ball Hanger				
	1/2	1/2	112.5 (250)	ALA50-B
	3/4	1/2		ALA7550-B
	3/4	3/4	112.5 (250)	ALA75-B
ALA — Cushion Hanger — Furnished with a 3/4" to 1/2" reducer for 1/2" stems				
	1/2	3/4 or 1/2	1.4 to 5.4 (3 to 12)	ALA50-12
	3/4	3/4 or 1/2		ALA7575-12
	1/2	3/4 or 1/2	5.4 to 21.6 (12 to 48)	ALA50-48
	3/4	3/4 or 1/2		ALA7575-48
	1/2	3/4 or 1/2	21.6 to 54.0 (48 to 120)	ALA50-120
	3/4	3/4 or 1/2		ALA7575-120
ALC — Ball Hanger				
	1/2	1/2	112.5 (250)	ALC50-B
	3/4	1/2		ALC7550-B
	1	1/2		ALC1050-B
	3/4	3/4	112.5 (250)	ALC75-B
	1	3/4		ALC1075-B
ALC — Cushion Hanger — Furnished with a 3/4" to 1/2" reducer for 1/2" stems				
	1/2	3/4 or 1/2	1.4 to 5.4 (3 to 12)	ALC50-12
	3/4	3/4 or 1/2		ALC7575-12
	1	3/4 or 1/2		ALC1075-12
	1/2	3/4 or 1/2	5.4 to 21.6 (12 to 48)	ALC50-48
	3/4	3/4 or 1/2		ALC7575-48
	1	3/4 or 1/2		ALC1075-48
	1/2	3/4 or 1/2	21.6 to 54.0 (48 to 120)	ALC50-120
	3/4	3/4 or 1/2		ALC7575-120
	1	3/4 or 1/2		ALC1075-120

POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS





Appleton®

# AL Ball and Cushion Flexible Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC. Ball Joint Permits 20° Swing.

NEC:

Listed for Ordinary (Unclassified) Locations

	Conduit Size (Inches)	Fixture Stem Size (Inches)	Support Weight kg (lbs)	Catalog Number	
ALL — Ball Hanger					
	1/2	1/2	112.5 (250)	ALL50-B	
	3/4	1/2		ALL7550-B	
		3/4	3/4	112.5 (250)	ALL75-B
ALL — Cushion Hanger — Furnished with a 3/4" to 1/2" reducer for 1/2" stems					
	1/2	3/4 or 1/2	1.4 to 5.4 (3 to 12)	ALL50-12	
	3/4	3/4 or 1/2		ALL7575-12	
	1/2	3/4 or 1/2	5.4 to 21.6 (12 to 48)	ALL50-48	
	3/4	3/4 or 1/2		ALL7575-48	
	1/2	3/4 or 1/2	21.6 to 54 (48 to 120)	ALL50-120	
	3/4	3/4 or 1/2		ALL7575-120	
ALT — Ball Hanger					
	1/2	1/2	112.5 (250)	ALT50-B	
	3/4	1/2		ALT7550-B	
	1	1/2		ALT1050-B	
		3/4	3/4	112.5 (250)	ALT75-B
	1	3/4	ALT1075-B		
ALT — Cushion Hanger — Furnished with a 3/4" to 1/2" reducer for 1/2" stems					
	1/2	3/4 or 1/2	1.4 to 5.4 (3 to 12)	ALT50-12	
	3/4	3/4 or 1/2		ALT7575-12	
	1	3/4 or 1/2		ALT1075-12	
	1/2	3/4 or 1/2	5.4 to 21.6 (12 to 48)	ALT50-48	
	3/4	3/4 or 1/2		ALT7575-48	
	1	3/4 or 1/2		ALT1075-48	
		1/2	3/4 or 1/2	21.6 to 54 (48 to 120)	ALT50-120
	3/4	3/4 or 1/2	ALT7575-120		
	1	3/4 or 1/2	ALT1075-120		








POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS

 **Appleton**

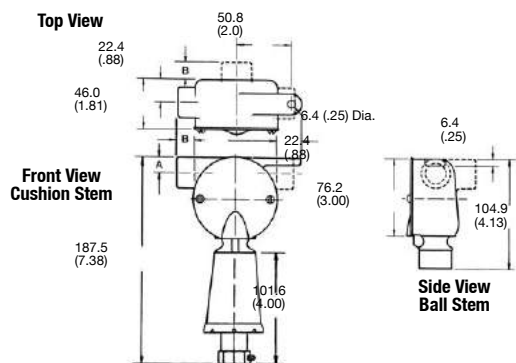
# AL Ball and Cushion Flexible Fixture Hangers

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC:  
Listed for Ordinary (Unclassified) Locations

	Size (Inches)	Support Weight kg (lbs)	Catalog Number
AL — Hanger Bodies			
	1/2	(Refer to Cushion and Ball Fixture Stems Below)	ALA50
	3/4		ALA75
	1/2	(Refer to Cushion and Ball Fixture Stems Below)	ALC50
	3/4		ALC75
	1		ALC100
	1/2	(Refer to Cushion and Ball Fixture Stems Below)	ALL50
	3/4		ALL75
	1/2	(Refer to Cushion and Ball Fixture Stems Below)	ALT50
	3/4		ALT75
	1		ALT100
AL — Ball Fixture Stem			
	1/2	112.5 (250)	BJ50
	3/4		BJ75
AL — Cushion Fixture Stems			
Fixture stem tapped for 3/4"; 3/4" to 1/2" reducer furnished for 1/2" stems. With setscrew for locking fixture stem.			
	3/4 or 1/2	1.4-5.4 (3-12)	CJC75-12
	3/4 or 1/2	5.4-21.6 (12-48)	CJC75-48
	3/4 or 1/2	21.6-54.0 (48-120)	CJC75-120
AL — Porcelain Connection Block			
	2 Wire, 20 Amp, 277 Volt Maximum Wire Size Two No. 10 AWG Large Terminal Two No. 14 AWG Small Terminal		CB202

## AL Fixture Hanger Dimensions — Millimeters (Inches)



Conduit Trade Size	Dimensions in Millimeters (Inches)	
	A	B
1/2"	4.2 (0.56)	17.5 (0.69)
3/4"	17.5 (0.69)	17.5 (0.69)
1"	22.4 (0.88)	20.6 (0.81)

# JB and GS Flexible Fixture Hangers

Malleable Iron. Ball Type, 15° Swing; Cushion Type, 8° Swing

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

## Applications

- JB, GS and AHG cushion hangers are enclosed and gasketed—ideal where dust and dampness are present.
- JB and GS hangers designed for use with JB and GS boxes.

## Features

- All hangers
  - All fixture hangers protect fixture against wind and vibration damage.
  - Cushion type for added protection where lighting fixtures are subjected to vibration.
- JB and GS hangers
  - Mount directly to JB and GS cast conduit outlet boxes.
  - Choice of ball or cushion type.
  - Ball type permits 15° swing, cushion type 8° swing from vertical
  - Cushion type is enclosed and gasketed.

## Standard Materials

- Malleable iron

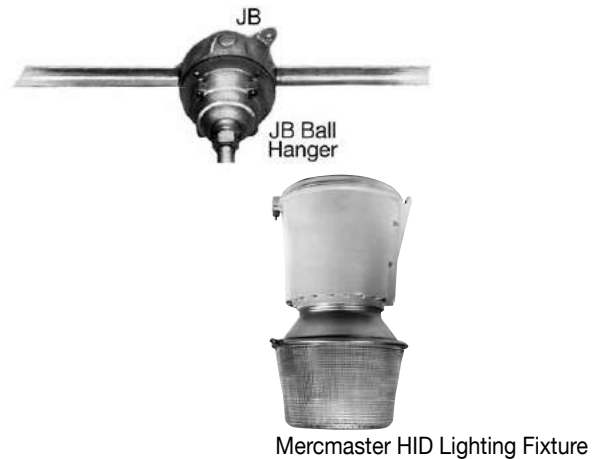
## Standard Finishes

- GS: triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- JB series support: zinc electroplate and clear chromate

## NEC/CEC Certifications and Compliances

- JB and GS cushion type hangers suitable for classified location use in Class I, Division 2 areas, if installed in compliance with NEC 501-9(b)
- CSA Certified: 065180
- UL Listed: E109438

## Illustrated Features



POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS

Appleton®



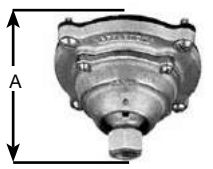

# JB and GS Flexible Fixture Hangers

Malleable Iron. Ball Type, 15° Swing; Cushion Type, 8° Swing

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

	Fixture Stem Size (Inches)	Male Nipple Size (Inches)	Length A mm (in)	Support Weight kg (lbs)	Catalog Number
<b>JB—Fixture Hanger Covers — For use with JBX, JBDX and JBLX bodies — Furnished with gasket and screws</b>					
	<b>Ball Type</b>				
	1/2		65.0 (2.56)	113 (250)	<b>JBK-50-BS</b>
	3/4		65.0 (2.56)		<b>JBK-75-BS</b>
	<b>Cushion Type</b>				
	Enclosed and gasketed. Cushions 18.0 kg. (40 lbs.)				
	1/2		41.4 (1.63)	18 (40)	<b>JBK-50-CS</b>
3/4		41.4 (1.63)	<b>JBK-75-CS</b>		
<b>GS—Fixture Hanger Covers (Form 20) — For use with GS and GSU bodies — Furnished with gasket and screws</b>					
	<b>Ball Type</b>				
	1/2		76.2 (3.00)	250 (113)	<b>GSK-50-20B</b>
	3/4		82.6 (3.25)		<b>GSK-75-20B</b>
	<b>Cushion Type</b>				
	Enclosed and gasketed. Cushions 18.0 kg. (40 lbs.)				
	1/2		50.8 (2.00)	40 (18)	<b>GSK-50-20C</b>
3/4		50.8 (2.00)	<b>GSK-75-20C</b>		

POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS

# SSH Flexible Fixture Hangers

## Heavy Duty Outlet Box Swivel. Ball Joint Swivel Permits 20° Swing

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.
- SSH heavy duty swivel hangers for mounting to outlet and concrete boxes.

### Features

- Protect fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.
- Heavy duty—support fixtures up to 22.7 kg (50 lbs).
- Steel plate serves as cover for outlet or concrete box.
- Ball type swivel joint permits 20° swing from vertical.

### Standard Materials

- Malleable iron and steel

### Standard Finishes

- Malleable iron and steel parts: zinc electroplate and clear chromate

### NEC/CEC Certifications and Compliances

- CSA Certified: 065180
- UL Listed: E2527
- UL Standard: 514A



11360

11362

### Illustrated Features



Cat. No. 11360 Safety Swivel Hanger  
installed in OCR3-1/2 Concrete Box  
with OCP3/8 Plate



Cat. No. 11362 Safety Swivel Hanger  
installed in a 4-11/16" Square Box  
shown with NBFS-38 (not included)

Industrial lighting installations often employ the use of extra heavy fixtures requiring a properly anchored swivel attachment, assuring positive safety to carry the necessary weight. In the Type "SSH" Safety Swivel Hanger, the weight of the entire suspended unit is borne by a fixture stud instead of relying upon the screws and screw ears of the box or ring for support. The "SSH" hanger is furnished with a steel plate to serve as a cover for the 4" Concrete, Octagonal, and 4-11/16" Square boxes.

POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS

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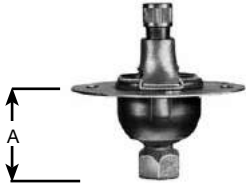


# SSH Flexible Fixture Hangers

## Heavy Duty Outlet Box Swivel. Ball Joint Swivel Permits 20° Swing

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

	Fixture Stem Size (Inches)	Fixture Stud Size (Inches)	Length A mm (in)	Support Weight kg (lbs)	Catalog Number
<b>Concrete Box — Safety Swivel Hanger — For Concrete Box 2-1/2" to 4" Deep</b>					
	1/2	3/8	55.6 (2.19)	22.5 (50)	<b>11360</b>
<b>Octagonal Box — Safety Swivel Hanger — For 4" Octagonal Box 1-1/2" or 2-1/8" Deep</b>					
	1/2	3/8	55.6 (2.19)	22.5 (50)	<b>11355</b>
<b>Square Box — Safety Swivel Hanger — For 4-11/16" Square Box 1-1/2" or 2-1/8" Deep</b>					
	1/2	3/8	55.6 (2.19)	22.5 (50)	<b>11362</b>

POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS



# SHC Flexible Fixture Hangers

## Outlet Box Mounted Series

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.
- SHC fixture hanger covers for mounting to 3-1/4" and 4" octagonal boxes and 4" square boxes.

### Features

- Protect fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.
- Ball type swivel joint permits 20° swing from vertical.
- Support fixtures with a maximum weight of 22.7 kg (50 lbs).

### Standard Materials

- Steel and malleable iron

### Standard Finishes

- Malleable iron and steel parts: zinc electroplate and clear chromate

### NEC/CEC Certifications and Compliances

- CSA Certified: 065180
- UL Listed: E2527
- UL Standard: 514A



8438R



8458R

### Illustrated Features



Ball Type Swivel Fixture Hanger Covers shown with octagonal and with square stamped steel outlet boxes.

	Fixture Stem Size (Inches)	Length A mm (in)	Support Weight kg (lbs)	Catalog Number
<b>SHC Ball Type Swivel Hanger Covers — Permit 20° swing from vertical</b>				
<b>For 3-1/4" and 4" Octagonal Boxes</b>				
	1/2	44.5 (1.75)	22.5 (50)	8438R
	3/4	50.8 (2.00)	22.5 (50)	8436R
<b>For 4" Square Boxes</b>				
	1/2	44.5 (1.75)	22.5 (50)	8458R
	3/4	50.8 (2.00)	22.5 (50)	8456R

POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS

Appleton®

# EF and FHS Series Flexible Fixture Hangers

## Hook and Loop

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

CEC:  
Listed for Ordinary (Unclassified) Locations

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.

### Features

- Protect fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.
- EF hook and loop hangers
  - Malleable iron for strength and safety.
  - Hook and loop combination permits quick disconnect and removal of fixture for maintenance.
  - Offer inexpensive means of pendant flexible suspension of lighting fixtures.
  - Permit free swing in any direction.
  - EF jaw openings can be completely closed for added safety.
- FHS support hangers
  - Provide up to 158.8 kg (350 lbs) support for fluorescent fixtures on the non-electrical side of mounting.
  - Straddle a maximum of 1-1/4" conduit and take 1/2" or 3/4" fixture hook or conduit.

### Standard Materials

- Malleable iron



EFHM



EFHF




FHS

### Standard Finishes

- Zinc electroplate and clear chromate

### CEC Certifications and Compliances

- CSA Certified: 065180

		Size (Inches)	Length A mm (in)	Support Weight kg (lbs)	Catalog Number
EF — Safety Support Hooks — With 3/8” jaw opening					
		EFHM—Male			
		1/2	66.8 (2.63)	90.0 (200)	EFHM-50
		3/4	74.7 (2.94)		EFHM-75
		EFHF—Female			
		1/2	50.8 (2.00)	90.0 (200)	EFHF-50
		3/4	52.1 (2.05)		EFHF-75
EFHM	EFHF				

**FHS — Support for Fixtures, Dummy Side — Straddles up to 1-1/4 trade size conduit — 11/32" diameter mounting holes, spaced 3-1/4" apart**



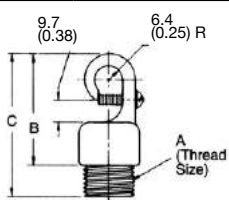
1/2 or 3/4

87.1 (3.31)

157.5 (350)

**FHS5075**

### Dimensions in Millimeters (Inches)

	A	B	C	Catalog Number
<b>EFHM — Male</b>				
	1/2-14 NPT	50.8 (2.00)	66.8 (2.63)	<b>EFHM-50</b>
	3/4-14 NPT	54.1 (2.13)	73.2 (2.88)	<b>EFHM-75</b>
<b>EFHF — Female</b>				
	1/2-14 NPT	50.8 (2.00)	N/A	<b>EFHF-50</b>
	3/4-14 NPT	54.1 (2.13)	N/A	<b>EFHF-75</b>

# FH and FHSN Series Flexible Fixture Hangers

## Hook and Loop

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

### CEC:

*Listed for Ordinary (Unclassified) Locations*

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.

### Features

- Protect fixture against wind and vibration damage.
- Cushion type for added protection where lighting fixtures are subjected to vibration.
- Malleable iron for strength and safety.
- Hook and loop combination permits quick disconnect and removal of fixture for maintenance.
- Offer inexpensive means of pendant flexible suspension of lighting fixtures.
- Permit free swing in any direction.
- EF and FHSN jaw openings can be completely closed for added safety.

### Standard Materials

- Malleable iron

### Standard Finishes

- Zinc electroplate and clear chromate

### CEC Certifications and Compliances

- CSA Certified: 065180



FHLM



FHHM



FHSN

### Illustrated Features



POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS





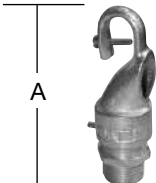

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# FH and FHSN Series Flexible Fixture Hangers

## Hook and Loop

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

CEC:  
Listed for Ordinary (Unclassified) Locations

		Size (Inches)	Length A (mm) in	Support Weight kg (lbs)	Catalog Number
FH — Hanger Loops — With 5/8" diameter wireway					
 FHLM	 FHLF	FHLM — Male			
		1/2	98.6 (3.88)	157.5 (350)	FHLM-50
		3/4	104.9 (4.13)		FHLM-75
		FHLF — Female			
		1/2	82.6 (3.25)	157.5 (350)	FHLF-50
		3/4	82.6 (3.25)		FHLF-75
FH — Hanger Hooks — With 5/8" diameter wireway, 3/8" jaw opening					
 FHHM	 FHHF	FHHM — Male			
		1/2	98.6 (3.88)	90.0 (200)	FHHM-50
		3/4	104.9 (4.13)		FHHM-75
		FHHF — Female			
		1/2	82.6 (3.25)	90.0 (200)	FHHF-50
		3/4	82.6 (3.25)		FHHF-75
FHHCG—Gasketed Fixture Hanger Hook — With 5/8" wire opening, 3/8" jaw opening, safety screw — As FHHM's above, with internal grommet to prevent moisture and dirt entry					
 A	FHHCG — Male				
	1/2	108.0 (4.25)	34.0 (75)	FHHCG-3750-SS	
	3/4	108.0 (4.25)		FHHCG-3775-SS	
FHSN — Conduit Suspension Hanger — With safety strap—clamps around rigid conduit or IMC —Has 3/8" jaw opening					
 A	1/2	79.5 (3.13)	67.5 (150)	FHSN-50	
	3/4	82.6 (3.25)		FHSN-75	
	1	85.9 (3.38)		FHSN-100	

POLES/HANGERS: NEC/CEC ORDINARY LOCATION FLEXIBLE FIXTURE HANGERS

Appleton®

# GHPH Power Hook for Industrial High Bay Luminaire

## Receptacle and Hook and Loop

UNILETS® for Use with Threaded Rigid Metal Conduit and IMC.

NEC/CEC:

Listed for Ordinary (Unclassified) Locations

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.

### Features

- Permit quick disconnect and removal of fixture for maintenance.
- Available in pendant or feed-thru.
- Available with matching cord set.

### Standard Materials

- Malleable iron with steel cover
- Screws: stainless steel

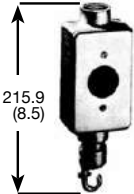
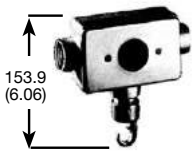
### Standard Finishes

- Malleable iron parts: triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel parts: zinc electroplate


### NEC/CEC Certifications and Compliances

- UL Standard: UL 57
- CSA Standard: C22.2 No. 9, C22.2 No. 250
- CSA Certified: 009349


### GHPHP and GHPHT — Receptacle Hangers

		Conduit Hub Size (Inches)	Voltage	Hubbell Plug	Catalog Number	
					Pendant	Feed-Thru
Furnished with assembled FS box, EFHM, safety lock, receptacle, and steel cover. Supports 90.7kg (200 lbs).						
 GHPHP	 GHPHT	3/4	120	L5-15P	GHPHP12	GHPHT12
		3/4	208, 240	L6-15P	GHPHP24	GHPHT24
		3/4	277	L7-15P	GHPHP27	GHPHT27
		3/4	347	L37-20P	GHPHP34 ①	GHPHT34 ①
		3/4	480	L8-20P	GHPHP48	GHPHT48
		3/4	600	L9-20P	GHPHP60 ①	GHPHT60 ①

### Cord Sets — With Loop — Supplied with 600 V, 90°C 3 conductor No. 16 SOW cable, locking plug and 3/4" FHLM loop

	Voltage	Amperes	0.6 m (2' ft) Cord	0.9 m (3 ft) Cord	1.21 m (4 ft) Cord
	120	15	G-HCPL-2-12	G-HCPL-3-12	G-HCPL-4-12
	208, 240	15	G-HCPL-2-24	G-HCPL-3-24	G-HCPL-4-24
	277	15	G-HCPL-2-27	G-HCPL-3-27	G-HCPL-4-27
	347	20	G-HCPL-2-34 ①	G-HCPL-3-34 ①	G-HCPL-4-34 ①
	480	20	G-HCPL-2-48	G-HCPL-3-48	G-HCPL-4-48
	600	20	G-HCPL-2-60 ①	G-HCPL-3-60 ①	G-HCPL-4-60 ①

### Fuse and Cartridge — Cartridges are furnished complete with two 254 mm (10") long high temperature wire leads and 600 Volt fuse

	Amperes	Catalog Number
	6	G-F6
	10	G-F10
	20	G-F20
	30	G-F30

① Certified to meet the Canadian Electrical Code (CEC) only.

Visit our website at [www.emerson.com](http://www.emerson.com) or contact us at (800) 621-1506.

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# Power Hook for Industrial High Bay Luminaires

## Furnished with Receptacle, Plug, 18" 16-3 SO Cord and Loop Fixture Hanger

CEC:  
Listed for Ordinary (Unclassified) Locations

### Applications

- Designed for suspension of HID, fluorescent and incandescent lighting fixtures.

### Features

- All hangers
  - All fixture hangers protect fixture against wind and vibration damage.
  - Cushion type for added protection where lighting fixtures are subjected to vibration.
- G-HBPH power hook for industrial luminaires
  - Loop that suspends fixture cannot be removed until plug is disconnected from power receptacle.
  - 20 Amp plug, receptacle and cable are provided in all voltages.
  - Rotating plug after insertion locks plug in receptacle, eliminating plug fall-out.
  - Loop and hook provide flexible mounting, ideal in areas where vibration is encountered.

### Standard Materials

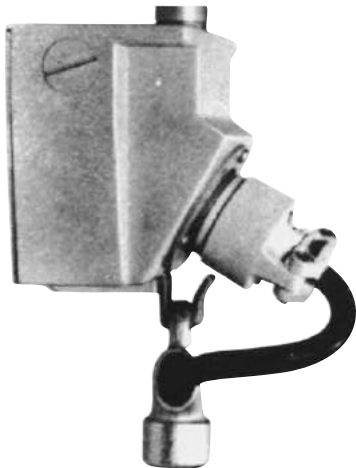
- Copperfree (4/10 of 1% max.) cast aluminum

### Standard Finishes

- Powder coat epoxy

### CEC Certifications and Compliances

- CSA Standard: C22.2 No. 9, C22.2 No. 250
- CSA Certified: 009349



	Size (Inches)	Voltage	Catalog Number
	3/4	120	G-HBPH-120
	3/4	208	G-HBPH-208
	3/4	240	G-HBPH-240
	3/4	277	G-HBPH-277
	3/4	347	G-HBPH-347
	3/4	480	G-HBPH-480
	3/4	600	G-HBPH-600

# Round Tapered Steel Poles

**NEC/CEC:**  
Rated for Ordinary (Unclassified) Locations

## Applications

- To mount single or multiple luminaires to heights from 6.1 to 11.9 m (20 to 39 ft).

## Features

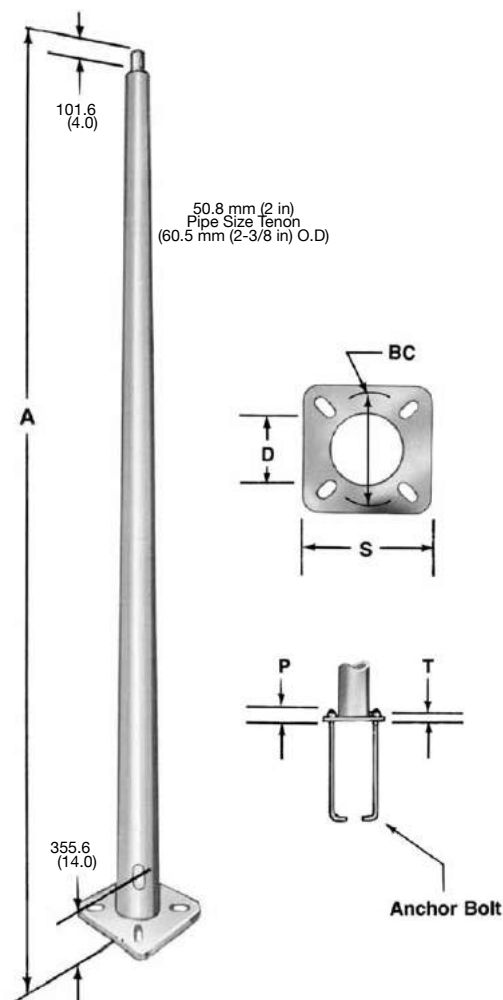
- 50.8 mm (2 in) pipe size tenon accepts a single luminaire, or 2, 3, or 4 luminaires with appropriate pole-top mounting bracket.
- Shafts are tapered, one-section design of 11 gauge commercial quality steel with a minimum yield strength of 55,000 psi after fabrication.
- Base plates are of structural quality hot-rolled steel with guaranteed minimum yield strength of 36,000 psi.
- A 101.6 x 165.1 mm (4 in x 6-1/2 in) reinforced handhole with cover and grounding lug 55.6 mm (14 in) above the pole base is standard.
- Anchor bolts are furnished complete with nuts and washers, and are of 55,000 psi steel.

## Standard Finishes

- Poles are finished with red-oxide prime-paint after fabrication

## Options

- For bronze powder coat finish (to match Appleton fixtures) add Suffix **-EPX**.
- For galvanized finish add **-GAL**.



Dimensions may vary. Consult your local sales representative for specifications

Mounting Height m (ft) A	Shaft Size ②	Base Size mm (in) S ①	Bolt Circle mm (in) BC	Base Thickness mm (in) T ①	Bolt Proj. mm (in) P ①	Tube Diameter mm (in) D	Anchor Bolt Dia. x Lgth. mm (in)	Max. Proj Area Sq.M (Sq. Ft) ③	Catalog Number ④
6.1 (20)	165.1 x 94.0 x 6.1 (6.5 x 3.7 x 20')	254.0 (10.0)	①	25.4 (1.0)	57.2 (2.25)	165.1 (6.5)	25.4 x 1016 (1 x 40)	1.74 (18.7)	G-PRTH-20
7.6 (25)	177.8 x 88.9 x 7.6 (7.0 x 3.5 x 25')	266.7 (10.5)	①	25.4 (1.0)	57.2 (2.25)	177.8 (7.0)	25.4 x 1016 (1 x 40)	1.34 (14.4)	G-PRTH-25
9.1 (30)	203.2 x 96.5 x 9.1 (8.0 x 3.8 x 30')	292.1 (11.5)	①	25.4 (1.0)	57.2 (2.25)	203.2 (8.0)	25.4 x 1016 (1 x 40)	1.35 (14.5)	G-PRTH-30
10.7 (35)	215.9 x 91.4 x 10.7 (8.5 x 3.6 x 35')	304.8 (12.0)	①	25.4 (1.0)	57.2 (2.25)	215.9 (8.5)	25.4 x 1016 (1 x 40)	1.17 (12.6)	G-PRTH-35
11.9 (39)	228.6 x 88.9 x 11.9 (9.0 x 3.5 x 39')	330.2 (13.0)	①	25.4 (1.0)	57.2 (2.25)	228.6 (9.0)	25.4 x 1016 (1 x 40)	1.09 (11.7)	G-PRTH-39

① Dimensions may vary—Consult your local sales representative for specifications.

② Shaft bottom [MM. Dia.(In. Dia)] x shaft top [MM. Dia. (In.Dia.)] x shaft length to tenon.

③ Calculated for winds of 160 KPH/100 MPH.

④ Anchor bolts and templates are preshipped upon request.

# Hinged Steel Poles

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

## Applications

- To mount single or multiple luminaires to heights from 6.1 to 9.1 m (20 to 35 ft). Hinged design allows easy servicing of luminaires at shoulder height.

## Features

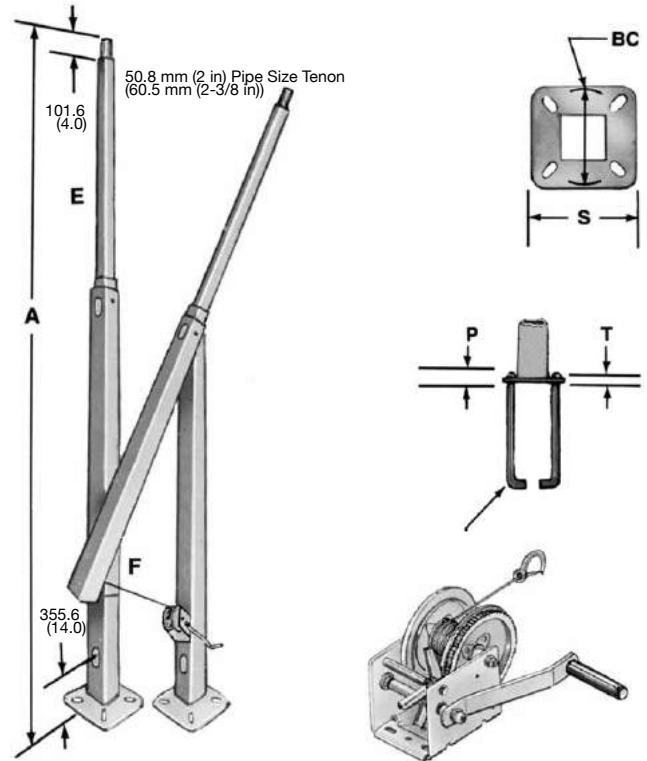
- Shafts are structural steel with a minimum yield strength of 46,000 psi.
- Heavy duty hinge assembly secures upper section to lower section with high strength 19.05 mm (3/4 in) Dia. bolt. A flexible protective channel is provided to protect wires when pole is lowered.
- Pole counter-balance is designed to offset weight of luminaires and is made from steel with minimum yield strength of 36,000 psi.
- Base plates are of structural quality hot-rolled steel with minimum yield strength of 36,000 psi.
- A 76.2 x 127 mm (3 in x 5 in) reinforced handhole with cover and grounding lug 355.6 mm (14 in) above the pole base is standard.
- Anchor bolts are furnished complete with nuts and washers, and are of 50,000 psi steel.

## Standard Finishes

- Poles are finished with red-oxide prime-paint after fabrication

## Options

- For bronze powder coat finish (to match Appleton fixtures) add suffix **-EPX**. For galvanized finish add **-GAL**.
- An optional lowering winch is available and recommended for easy one-man operation of hinged poles. (Only one lowering winch per installation is required because winch assembly mounts from pole to pole and dismounts for easy storage.) Lowering winch is furnished with mounting hardware, 7.62 m (25 ft) of 4.8 mm (3/16 in) galvanized wire rope and safety snap hook.



Accessory: GLW –  
Lowering Device (Winch)

Dimensions may vary. Consult your local sales representative for specifications

Mounting Height m (ft)	Shaft Size Mm.Sq. (in.Sq.) x Ga.		Base Size Mm. Sq (in. Sq)	Bolt Circle mm (in)	Base Thickness Mm (in)	Bolt Proj. Mm (in)	Anchor Bolt Dia. x Lgth. mm (in)	Max. Proj Area Sq.M. (Sq. Ft.) ③	Loading Weight kg (lbs)	Catalog Number ②
A	F	E	S ①	BC	T	P				
6.1 (20)	2580.6 (4) x 7	2580.6 (4) x 11	6451.6 (10.0)	①	19.1 (0.75)	50.8 (2.0)	19.1 x 711.2 (.75 x 28)	0.86 (9.3)	104.3 (230)	G-PHSM-20
6.1 (20)	3225.8 (5) x 7	3225.8 (5) x 11	7419.3 (11.5)	①	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1.0 x 40)	1.4 (15.2)	158.8 (350)	G-PHSH-20
7.32 (24)	2580.6 (4) x 7	2580.6 (4) x 11	6451.6 (10.0)	①	19.1 (0.75)	50.8 (2.0)	19.1 x 711.2 (.75 x 28)	0.57 (6.1)	77.1 (170)	G-PHSM-24
7.32 (24)	3871.0 (6) x 7	3871.0 (6) x 11	7741.9 (12.0)	①	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1.0 x 40)	1.33 (14.3)	127.0 (280)	G-PHSH-24
9.14 (30)	2580.6 (4) x 7	2580.6 (4) x 11	6541.6 (10.0)	①	19.1 (0.75)	50.8 (2.0)	19.1 x 711.2 (.75 x 28)	0.27 (2.9)	68.0 (150)	G-PHSM-30
9.14 (30)	3871.0 (6) x 7	3871.0 (6) x 11	7741.9 (12.0)	①	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1.0 x 40)	1.00 (10.8)	108.9 (240)	G-PHSH-30
10.67 (35)	3871.0 (6) x 7	3871.0 (6) x 11	7741.9 (12.0)	①	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1.0 x 40)	0.33 (3.6)	81.6 (180)	G-PHSH-35

① Dimensions may vary—Consult your local sales representative for specifications.

② Anchor bolts and templates are preshipped upon request. For accessory lowering winch, specify Cat. No. GLW.

③ Calculated for winds of 100 MPH/160 KPH.

# Square Tapered Steel Poles

**NEC/CEC:**  
Rated for Ordinary (Unclassified) Locations

## Applications

- To mount single or multiple luminaires to heights from 6.1 to 11.9 m (20 to 39 ft).

## Features

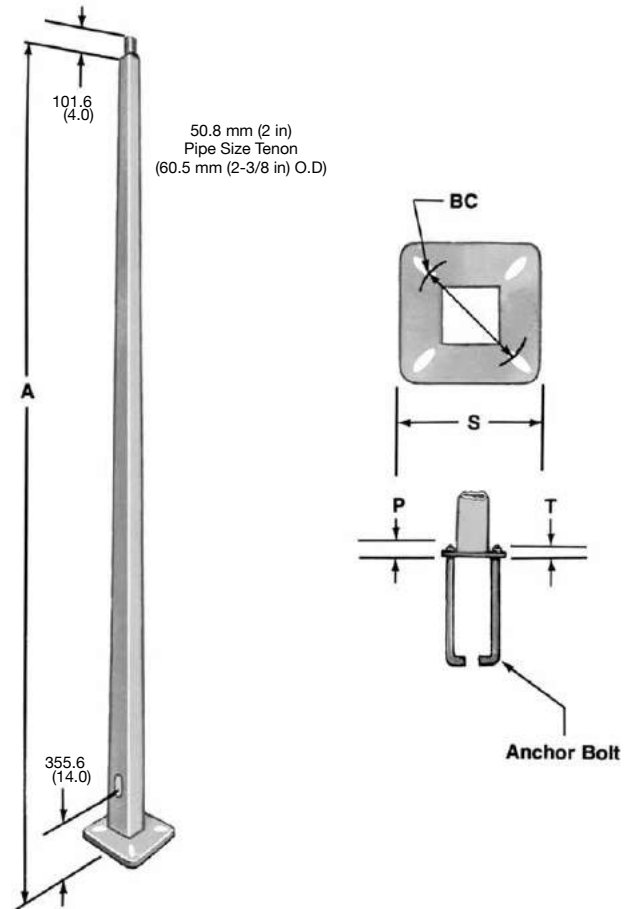
- 0.61 mm (2 in) pipe size tenon accepts a single luminaire or 2, 3, or 4 luminaires with appropriate pole-top mounting bracket.
- High strength shafts have a uniform taper and are made from 11 gauge commercial quality hot rolled steel.
- Base plates are of structural quality hot rolled steel with minimum yield strength of 36,000 psi.
- A 76.2 x 127 mm (3 in x 5 in) reinforced handhole with cover and grounding lug 355.6 mm (14 in) above the pole base is standard.
- Anchor bolts are furnished complete with nuts and washers, and are of 55,000 psi steel.

## Standard Finishes

- Poles are finished with red-oxide prime-paint after fabrication

## Options

- For bronze powder coat finish (to match Appleton fixtures) add Suffix **-EPX**. For galvanized finish add suffix **-GAL**.



Dimensions may vary. Consult your local sales representative for specifications

Mounting Height m (ft) A	Shaft Size ① Sq.MM. x M (Sq.In. x Ft)	Base Size mm (in) S ②	Bolt Circle mm (in) BC	Base Thickness mm (in) T ②	Bolt Proj. mm (in) P ②	Anchor Bolt Dia. x Lgth. In/mm	Max. Proj Area Sq.M (Sq.Ft) ③	Catalog Number ④
6.1 (20)	3387 x 2097 x 6.1 (5.25 x 3.25 x 20')	266.7 (10.5)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016.0 (1 x 40)	0.87 (9.4)	G-PSTH-20
7.3 (24)	4032 x 2484 x 12.2 (6.25 x 3.85 x 24')	330.2 (13.0)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016.0 (1 x 40)	0.83 (8.9)	G-PSTH-24
9.1 (30)	4290 x 2097 x 9.1 (6.65 x 3.25 x 30')	304.8 (12.0)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016.0 (1 x 40)	0.54 (5.8)	G-PSTH-30
10.7 (35)	4032 x 2097 x 10.7 (6.25 x 3.25 x 35')	330.2 (13.0)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016.0 (1 x 40)	0.41 (4.4)	G-PSTH-35
11.9 (39)	4613 x 2097 x 11.9 (7.15 x 3.25 x 39')	330.2 (13.0)	②	25.4 (1.0)	63.5 (2.50)	25.4 x 1016.0 (1 x 40)	0.35 (3.8)	G-PSTH-39

① Shaft bottom [MM. Dia.(In. Dia)] x shaft top [MM. Dia.(In. Dia)] x shaft length to tenon.

② Dimensions may vary—Consult your local sales representative for specifications.

③ Calculated for winds of 100 MPH.

④ Anchor bolts and templates are preshipped upon request.

# Square Steel Poles

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

## Applications

- To mount single or multiple luminaires to heights from 4.3 to 9.1 m (14 to 30 ft).

## Features

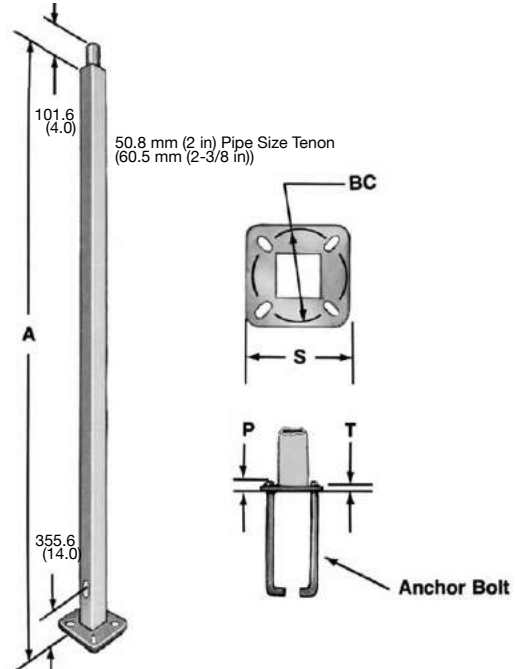
- 50.8 mm (2 in) pipe size tenon accepts a single luminaire, or 2, 3, or 4 luminaires with appropriate pole-top mounting bracket.
- High strength shafts are made from square steel structural tube with minimum yield strength of 46,000 psi.
- Base plates are of structural quality hot-rolled steel with minimum yield strength of 36,000 psi.
- A 76.2 x 127 mm (3 in x 5 in) reinforced handhole with cover and grounding lug 355.6 mm (14 in) above the pole base is standard.
- Anchor bolts are furnished complete with nuts and washers, and are of 55,000 psi steel.

## Standard Finishes

- Poles are finished with red-oxide prime-paint after fabrication

## Options

- For bronze powder coat finish (to match Appleton fixtures) add Suffix **-EPX**. For galvanized finish add suffix **-GAL**.



Dimensions may vary. Consult your local sales representative for specifications

Mounting Height m (ft) A	Shaft Size ① mm (in)	Base Size mm (in) S ②	Bolt Circle mm (in) BC	Base Thickness mm (in) T ②	Bolt Proj. in (mm) P ②	Anchor Bolt Dia. x Lgth. mm (in)	Max. Proj Area Sq.M. (Sq.Ft.) ③	Catalog Number ④
4.3 (14)	101.6 x 101.6 x 11Ga. (4" x 4" x 11Ga.)	203.2 (8.0)	②	19.1 (0.75)	50.8 (2.00)	19.1 x 508.0 (0.75 x 20)	1.01 (10.9)	G-PSSM-14
4.3 (14)	101.6 x 101.6 x 11Ga. (4" x 4" x 7Ga.)	203.2 (8.0)	②	19.1 (0.75)	50.8 (2.00)	19.1 x 508.0 (0.75 x 20)	1.34 (14.4)	G-PSSH-14
5.2 (17)	101.6 x 101.6 x 11Ga. (4" x 4" x 11Ga.)	203.2 (8.0)	②	19.1 (0.75)	50.8 (2.00)	19.1 x 508.0 (0.75 x 20)	0.64 (6.9)	G-PSSM-17
5.2 (17)	101.6 x 101.6 x 7Ga. (4" x 4" x 7Ga.)	203.2 (8.0)	②	19.1 (0.75)	50.8 (2.00)	19.1 x 508.0 (0.75 x 20)	1.11 (11.9)	G-PSSH-17
6.1 (20)	101.6 x 101.6 x 7Ga. (4" x 4" x 7Ga.)	203.2 (8.0)	②	19.1 (0.75)	50.8 (2.00)	19.1 x 508.0 (0.75 x 20)	0.94 (10.1)	G-PSSM-20
6.1 (20)	127.0 x 127.0 x 7Ga. (5" x 5" x 7Ga.)	279.4 (11)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1 x 40)	1.60 (17.2)	G-PSSH-20
7.3 (24)	127.0 x 127.0 x 11Ga. (5" x 5" x 7Ga.)	279.4 (11)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1 x 40)	1.11 (11.9)	G-PSSM-24
7.3 (24)	152.4 x 152.4 x 7Ga. (6" x 6" x 7Ga.)	304.8 (12.0)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1 x 40)	1.75 (18.8)	G-PSSH-24
9.1 (30)	127.0 x 127.0 x 7Ga. (5" x 5" x 7Ga.)	279.4 (11)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1 x 40)	0.64 (6.9)	G-PSSM-30
9.1 (30)	152.4 x 152.4 x 7Ga. (6" x 6" x 7Ga.)	304.8 (12.0)	②	25.4 (1.0)	57.2 (2.25)	25.4 x 1016 (1 x 40)	1.09 (11.7)	G-PSSH-30

① Shaft bottom [MM. Dia.(In. Dia)] x shaft top [MM. Dia.(In. Dia)] x shaft length to tenon.

② Dimensions may vary—Consult your local sales representative for specifications.

③ Calculated for winds of 100 MPH.

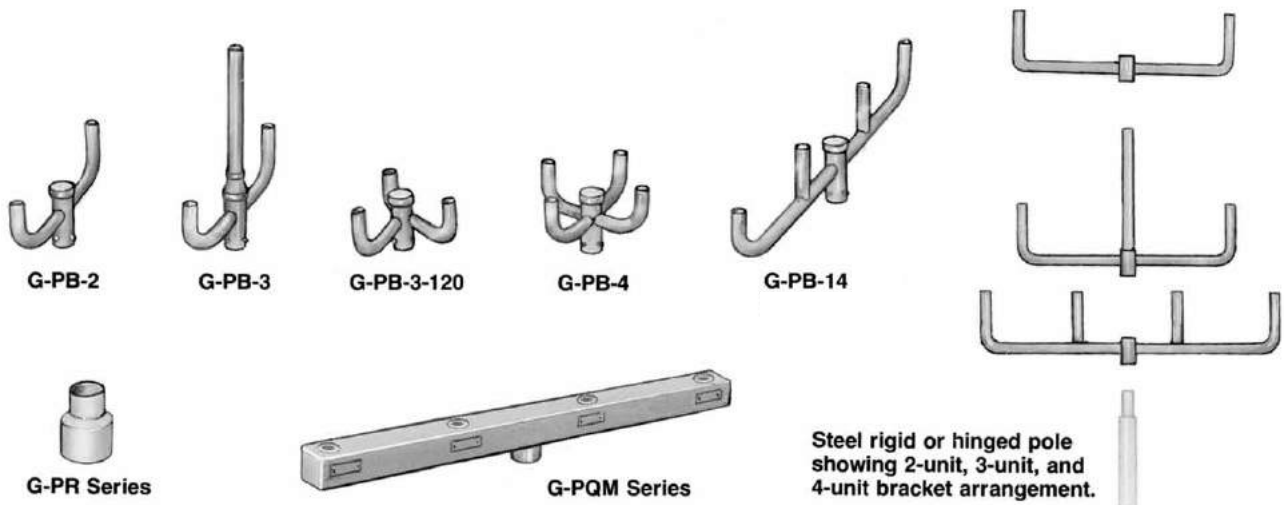
④ Anchor bolts and templates are preshipped upon request.

# Floodlight Mounting Brackets

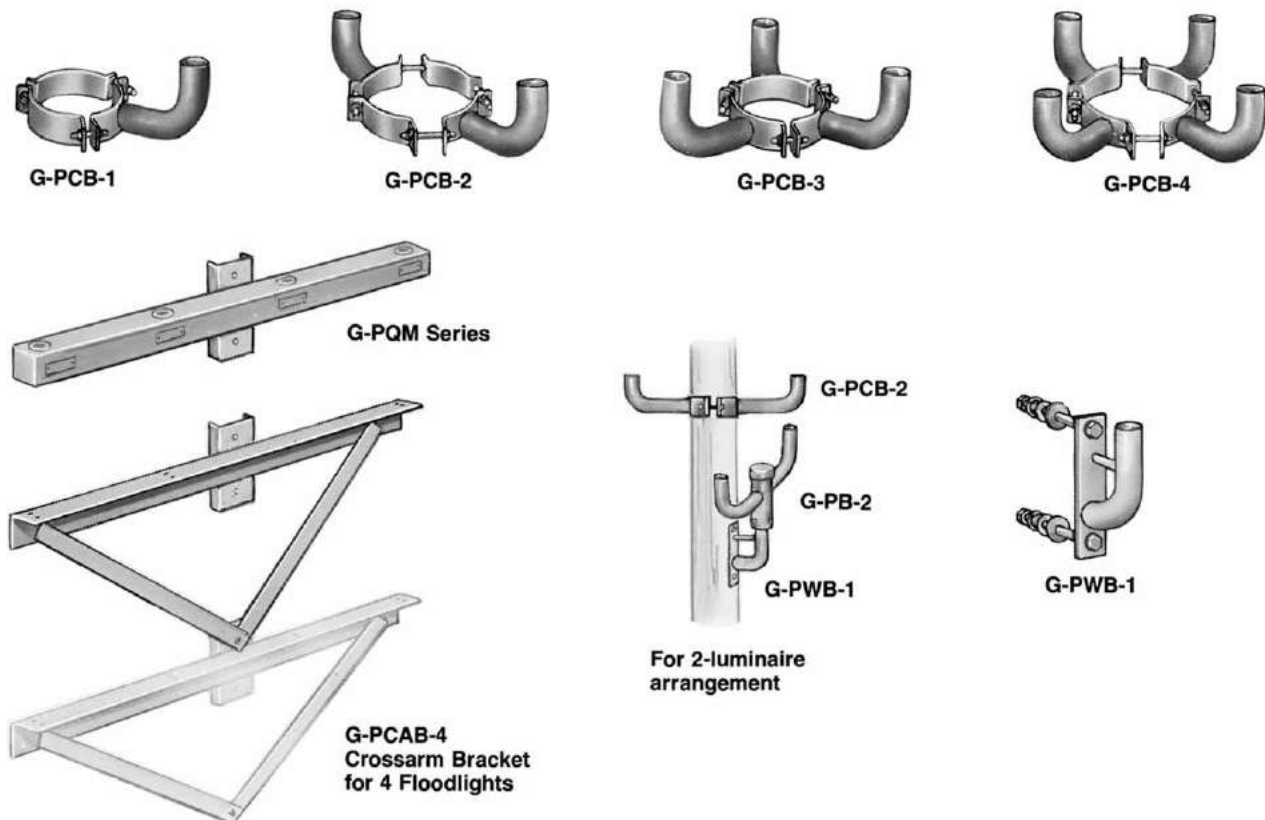
Single or Multiple Installation on Wall, Wood or Metal Poles

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

## Metal Pole Brackets



## Wood Pole Brackets



# Floodlight Mounting Brackets

## Single or Multiple Installation on Wall, Wood or Metal Poles

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

### Poletop Brackets for Metal Poles — Dimensions may vary. Consult your local sales representative for specifications

Floodlight mounting brackets for installation of 2 to 4 floodlights atop metal poles are manufactured from high-strength steel tube, and slip-fit onto 50.8 mm (2 in) pipe size poletop tenons. Furnished with 3 locking setscrews and red oxide prime coat finish. Bracket tenon is 50.8 mm (2 in) pipe size (60.5 mm 2-3/8 in) O.D.).

Dimensions mm (in)	Description	Catalog Number
	Poletop Bracket for Two Luminaires	G-PB-2
	Poletop Bracket for Three Luminaires	G-PB-3
	Poletop Bracket for Three Luminaires (120° apart)	G-PB-3-120
	Poletop Bracket for Four Luminaires (in line)	G-PB-14
	Poletop Bracket for Four Luminaires	G-PB-4

# Floodlight Mounting Brackets

## Single or Multiple Installation on Wall, Wood or Metal Poles

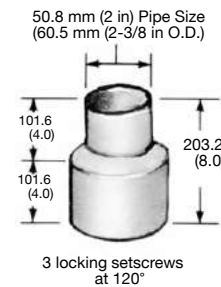
**NEC/CEC:**  
Rated for Ordinary (Unclassified) Locations

### Poletop Reducers

Made from high strength steel tubing, complete with 3 locking setscrews and with red-oxide prime finish.

Poletop Pipe Size Reduction mm (in)	Catalog Number
63.5 to 50.8 (2-1/2 to 2)	G-PR-2-1/2
76.2 to 50.8 (3 to 2)	G-PR-3
88.9 to 50.8 (3-1/2 to 2)	G-PR-3-1/2
101.6 to 50.8 (4 to 2)	G-PR-4
127 to 50.8 (5 to 2)	G-PR-5

**Dimensions in Millimeters (Inches) — May vary. Consult your local sales representative for specifications**



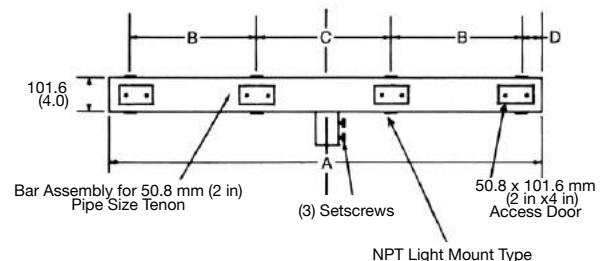
### Lite Mount Bars for 4, 8, or 12 Quartzlite or Areamaster Jr. Floodlights

Bars have 11 gauge steel body and 12 gauge steel cover. Two styles: to mount on 50.8 mm (2 in) pipe size poletop tenon, or on wood poles using thru-bolts. Welded construction, with 19.1 mm (3/4 in) N.P.S. tapped hubs. Rain-tight, with red-oxide prime finish.

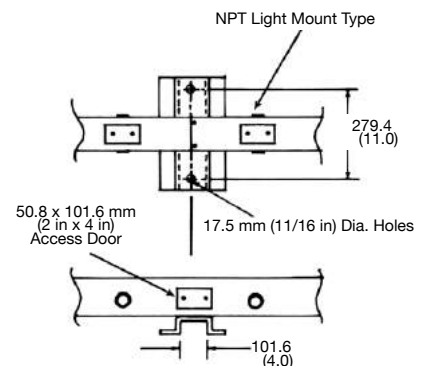
Number of Fixtures	Length A	Dim. B	Dim C	Dim. D
4	28	—	25	1-1/2
8	60	17	24-1/2	1-1/4
12	96	17	25	1-1/2

**Dimensions in Millimeters (Inches) — May vary. Consult your local sales representative for specifications**

#### For Metal Poles



#### For Wood Poles



### Dimensions For Mounting Quartzlites or Areamaster Jr.

Number of Fixtures For Mounting	Catalog Number	
	Metal Pole	Wood Pole
4 Fixtures	G-PQM-4T	G-PQM-4W
8 Fixtures	G-PQM-8T	G-PQM-8W
12 Fixtures	G-PQM-12T	G-PQM-12W



# McGill™ HID Temporary Lighting

## Designed and Packaged for Quick Installation

**NEC:**  
Listed for Ordinary (Unclassified) Locations

### Applications

- More and more contractors are using temporary HID fixtures to light their work sites. Instead of modifying Low-Bay fixtures for this application, McGill's HID Temporary Lighting allows them to buy something faster and easier.

### Features

- 400 W Pulse Start Metal Halide lamp provides over 6' candles of illumination at a 6.1 m (20 ft) mounting height.
- McGill offers lighting layouts to conform with OSHA requirements for light output.
- Type "O" lamp and mogul socket complies with NEC 2008 Section 410.130(F)(5) and ANSI C78.387.
- Quick-attach durable 254 mm (10 in) welded wire guard mounts directly to the body to protect lamp and lampholder from accidental impact.
- Fixture is factory wired at 120 Volt, but can be rewired internally for other voltage settings.
- 0.9 meter (3 ft) cord with 5-15P molded plug on end.
- Compact size for easy handling.
- Low-profile fixture design keeps it up and out of the way of activity below.
- High light output and long lamp life.
- Open-air ballast for cooler operation.
- Hook with locking feature.
- (2) 19.1 mm (3/4 in) knock-outs for conduit access.
- Single durable package design makes it easier for distributors to stock and more organized for contractors on the job site.
- Quick and easy to assemble.
- Optional bottom trap available.
- Voltage: 120 V maximum.

### Standard Materials

- Enclosure: Heavy-duty steel with powder coated finish
- Lamp: 400 Watt Pulse Start Metal Halide: O-Type, BT37 Clear, EX39 (Exclusionary Mogul Base)
- Multi-Tap ballast: 120, 208, 240, 277 Volt; Factory wired at 120 Volt
- Power cord: 0.9 meter (3 ft), 18/3 SJTW, 120 Volt, 15 Amp cord complete with NEMA 5-15 molded plug
- Lamp guard: 11 ga. white painted steel
- Mounting hook: 11 ga. steel

### NEC Certifications and Compliances

- UL and cUL Listed: E196293
- UL Standard: UL 1598
- Suitable for damp locations

### Options

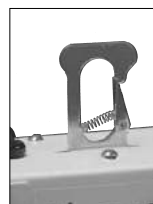
- Optional bottom trap available

	Catalog Number
400 W Fixture with Guard	TL40PMT0
Bottom Guard Trap	TLTRAPW
Replacement Lamp Guard	TLGUARDW
Replacement Lamp: 400 W PSMH, O-Type, BT37 Clear, EX39	GMP400BUPS



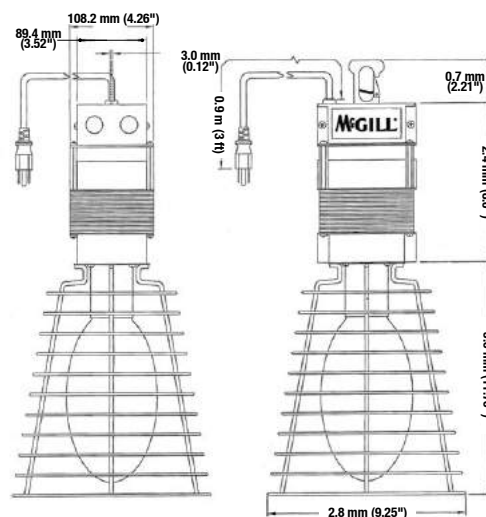
Shown with optional bottom trap

### Illustrated Feature



Spring-lock hook allows contractors to mount the unit in seconds, without the need for tools.

### Dimensions in Millimeters (Inches)



# McGill™ String-O-Lights

## Low Cost Temporary Lighting

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

### Applications

- McGill offers flatwire style for temporary job site lighting systems.

### Features

- They are available in 15.2 to 61 m (50 to 200 ft) lengths of 2- and 14 gauge wire with 5 to 10 cage/socket assemblies.
- Brass sockets are enclosed in weather-resistant molded PVC, and plastic connectors provide greater reliability.
- Packaging provides tangle-free, on-the-job handling and installation.
- Easy-open cages snap open and closed for faster installation without tools and easy lamp replacements.
- Non-corrosive cages are fastened to sockets by a non-corrosive collar and accommodate up to 200 Watt bulbs.
- Cable styles meet NEC requirements.
- Convenient, economical temporary lighting.
- 30.5 m (110 ft) messenger wire available to support string where needed.
- Fully assembled; ready for installation.
- Weather-resistant sockets.
- All parts sold separately.

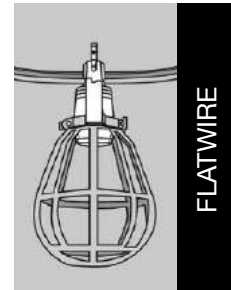
### Standard Materials

- Cages: yellow plastic

*Note: Not for use with Rough Service Lamps*



Flat Wire Cable Style



### Illustrated Features



Easy-Open Cages



Packaging

# McGill™ String-O-Lights

## Low Cost Temporary Lighting

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

	Length m (ft)	No. of Cages/ Sockets	Socket Spacing m (ft)	Catalog Number for A-23 Bulb
<b>Flat Wire Styles</b>				
14/2 Flat wire cable	30.5 (100)	10	3.0 (10)	2252-0035
14/2 Flat wire cable	15.2 (50)	5	3.0 (10)	2252-0038
14/2 Flat wire cable	61.0 (200)	10	6.1 (20)	2252-0043
<b>Flat Wire Styles with Plug</b>				
14/2 Flat wire cable with 1-15P plug on one end	30.5 (100)	10	3.0 (10)	2252-0040
14/2 Flat wire cable with 1-15P plug on one end	15.2 (50)	5	3.0 (10)	2252-0041
14/2 Flat wire cable with 1-15P plug on one end	61.0 (200)	10	6.1 (20)	2252-0044
<b>Accessories and Replacement Parts</b>				
				Catalog Number
Hangers (for open conductor styles)				2252-1025
<b>Cages</b>				
				Catalog Number
				for A-23 Bulb    for PS-30 Bulb
<b>For use with McGill String-O-Lights</b>				
Single plastic replacement cage only				MCG2250    —
Single plastic replacement cage with screw collar				2250-S    2255
Single plastic replacement cage with right-hand socket assembly and hanger				2252    2256
Single plastic replacement cage with left-hand socket assembly and hanger				2253    —
Single plastic replacement cage with hanger (no socket)				2254    —
<b>For use with most types of Lampholders ①</b>				
Single plastic cage only				2259    —
<b>Socket/Wire Sets</b>				
				Catalog Number
Weather-resistant 600 Watt, 250 Volt, 114.3 mm (4-1/2") leads of 14 gauge wire, vulcanized, pigtail socket; left-hand thread				4018
Messenger wire: 30.5 meters (110 feet) 2.3 mm (3/32") diameter 7 x 7 stranded galvanized aircraft cable				2251

① Not for use with rough service lamps

# McGill™ 7000 Series Industrial Extension Lights

## Rubber Handle without Receptacle

**NEC/CEC:**  
Listed for Ordinary (Unclassified) Locations

**NEC:**  
Meets OSHA requirements

### Features

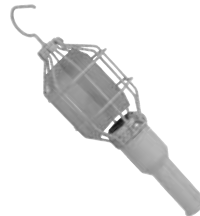
- 7000 Series extension lights resist damage and deterioration.
- Open-end or NO-ROL closed-end cages of extra-heavy, electrically welded, wire accommodate up to 200 Watt bulbs.
- Ideal for use where safety codes prohibit outlets in handles.
- Easy relamping cage.
- Internal strain relief withstands 9.1 kg (30 lb) pull test.
- All-weather cords with molded plugs.

### Standard Materials

- Cage: 10 gauge steel wire
- Cord: thermoplastic
- Handle: yellow, grease-resistant, high quality rubber

### NEC/CEC Certification and Compliances ①

- UL Listed (with cord): E59071
- UL Listed (without cord): E59054
- UL Standard: 153
- CSA Certified (with cord): LL89639
- CSA Certified (without cord): LL56247
- CSA Standard: C22.2 No. 12



7000-RIG



7999-RGH

① 100 Watt Maximum for UL Listing and CSA Certification.

# McGill™ 7000 Series Industrial Extension Lights

## Rubber Handle without Receptacle

**NEC/CEC:**  
Listed for Ordinary (Unclassified) Locations

**NEC:**  
Meets OSHA requirements

Catalog Numbers			
	with out Cord	with 7.6 m (25') 16/3–SJTW Cord	with 15.2 m (50') 16/3–SJTW Cord
Closed-End Extension Lights			
Handle and cage	7000-G	7025-G	7050-G
Handle and cage with reflector	7000-RG	7025-RG	7050-RG
Insulated cage, reflector (100 Watt max.)	7000-RIG	7025-RIG	7050-RIG
Non-metallic cage, reflector (100 Watt max.)	7999-RGH	7925-RGH	7950-RGH
Replacement Cord Sets			
Cord set with molded plugs		6229-1 ①	6229-2 ①
Catalog Number ①			
	for 60–100 Watt		for 200 Watt
Open-End Extension Lights (without cord)			
Handle and cage		7001-G	7002-G
Handle and cage with reflector		7001-RG	7002-RG
Accessories and Replacement Parts			
Catalog Number			
	With Out Reflector		With Reflector
Cages			
Closed-end cage for 7000		8171	8170
Open-end cage (100 Watt lamp max.)		8133	8162
Open-end cage (200 Watt lamp max.)		8335-2	8336
Closed-end vinyl insulated cage (100 Watt A-21)		08171	08170
Open-end vinyl insulated cage (100 Watt lamp max.)		—	08162
Open-end vinyl insulated cage (200 Watt lamp max.)		—	08336
Non-metallic cage for 7999		—	8224
Catalog Number			
	Accessory		With Out Switch
Handles and Sockets			
Handle for 7000, 7001, 7002		—	6403
Handle and socket for 7000, 7001, 7002		—	8959
Socket for 7000, 7001, 7002		—	4015
Grounding clamp		9232	—

① Not UL Listed.

# McGill™ 7000 Series Industrial Extension Lights

## Rubber Handle without Receptacle

NEC/CEC:  
Listed for Ordinary (Unclassified) Locations

NEC:  
Meets OSHA requirements

	Catalog Numbers		
	with out Cord	with 7.6 m (25') 16/3-SJTW Cord	with 15.2 m (50') 16/3-SJTW Cord
<b>Closed-End Extension Lights</b>			
Handle and cage	C7000-G	C7025-G	C7050-G
Handle and cage with reflector	C7000-RG	C7025-RG	C7050-RG
Insulated cage, reflector (100 Watt max.)	C7000-RIG	C7025-RIG	C7050-RIG
Non-metallic cage, reflector (100 Watt max.)	C7999-RGH	C7925-RGH	C7950-RGH
<b>Replacement Cord Sets</b>			
Cord set with molded plugs		C6229-1 ①	C6229-2 ①

	Catalog Number ①	
	for 60–100 Watt	for 200 Watt
<b>Open-End Extension Lights (without cord)</b>		
Handle and cage	C7001-G	C7002-G
Handle and cage with reflector	C7001-RG	C7002-RG

### Accessories and Replacement Parts

	Catalog Number	
	With Out Reflector	With Reflector
<b>Cages</b>		
Closed-end cage for 7000	8171	8170
Open-end cage (100 Watt lamp max.)	8133	8162
Open-end cage (200 Watt lamp max.)	8335-2	8336
Closed-end vinyl insulated cage (100 Watt A-21)	08171	08170
Open-end vinyl insulated cage (100 Watt lamp max.)	—	08162
Open-end vinyl insulated cage (200 Watt lamp max.)	—	08336
Non-metallic cage for 7999	—	8224

	Catalog Number	
	Accessory	With Out Switch
<b>Handles and Sockets</b>		
Handle for 7000, 7001, 7002	—	6403
Handle and socket for 7000, 7001, 7002	—	8959
Socket for 7000, 7001, 7002	—	4015
Grounding clamp	9232	—

① Not CSA Listed.

# McGill™ 7000–38 Series Industrial Extension Lights For PAR-38 Lamps

**CEC:**  
Listed for Ordinary (Unclassified) Locations

## Applications

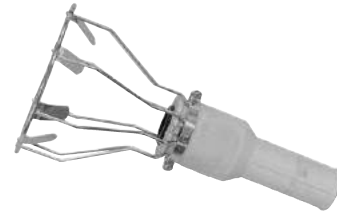
- These extension lights are ideal for temporary flood lighting, railroad car inspections, spot light inspecting of the internal conditions of large well pipes, and other applications requiring intense lighting.

## Features

- 7000 Series extension lights resist damage and deterioration.
- Open-end of extra-heavy, electrically welded, wire accommodates up to 200 Watt bulbs.
- Ideal for use where safety codes prohibit outlets in handles.
- Easy relamping cage.
- Internal strain relief withstands 9.1 kg (30 lb) pull test.
- All-weather cords with molded plugs.

## Standard Materials

- Cage: 10 gauge steel wire
- Cord: thermoplastic
- Handle: yellow, grease-resistant, high quality rubber



7000–G–38

## CEC Certification and Compliances

- CSA Certified (with cord): LL89639
- CSA Certified (without cord): LL56247
- CSA Standard: C22.2 No. 12

	Catalog Number		
	with out Cord	with 7.6 m (25') 6/3–SJTW Cord	with 15.2 m (50') 16/3–SJTW Cord
Handle and cage (100 Watt max. bulb)	7000-G-38	7025-G-38	7050-G-38
Handle and cage (200 Watt bulb)	7000-G-38-200	7025-G-38-200	7050-G-38-200
Handle and cage	C7000-G-38 ①	C7025-G-38 ①	C7050-G-38 ①

## Accessories and Replacement Parts

	Catalog Number	
	With Out Reflector	with Trap
<b>Cages</b>		
Cage for 7000-38	1455-38	1455-38-T
		With Out Switch
<b>Handles and Sockets</b>		
Handle for 7000, 7001, 7002		6403
Grounding clamp		8959
	7.6 m (25') 6/3–SJTW Cord	15.2 m (50') 16/3–SJTW Cord
<b>Cord Sets</b>		
Cord set with molded plugs	6229-1	6229-2

① Certified to meet the Canadian Electrical Code (CEC) only.

# McGill™ 6000 Series Commercial–Duty Extension Lights

## Polypropylene Handle with Receptacle

**NEC/CEC:**  
Listed for Ordinary (Unclassified) Locations

**NEC:**  
Meets OSHA requirements

### Features

- Commercial-duty extension lights resist impact, abrasion and oil.
- Three wire grounded handles with convenience receptacle.
- Easy-open, NO-ROL cage with rotating hook saves time and permits precise lamp positioning.
- Plated metal parts resist rust and corrosion.
- All-weather cords have molded plugs.
- 10 Amp, 125 Vac receptacle rating.
- Cage accommodates 100 Watt max. bulbs.
- Push-through switch.
- Accommodates 16/3 cord type only.

### Standard Materials

- Cord: 16/3-SJTW yellow thermoplastic
- Cage: 10 gauge steel

### Standard Finish

- Cage: zinc-plated

### NEC/CEC Certification and Compliances ①

- UL Listed: E59071
- UL Standard: 153
- CSA Certified: LL89639



6025-SRG

	with 0.3 m (1') 16/3-SJTW Cord	Catalog Numbers with 7.6 m (25') 16/3-SJTW Cord	with 15.2 m (50') 16/3-SJTW Cord
Handle and cage with switch and reflector	6012-SRG ②	6025-SRG	6050-SRG
Handle and cage with switch and reflector	C6012-SRG ③ ④	C6025-SRG ④	C6050-SRG ④
Handle and cage with switch and reflector and GFCI	—	6025-SRG-GFCI	—

① 100 Watt Maximum for UL Listing and CSA Certification.

② UL Listed for cord reel usage only.

③ CSA Listed for cord reel usage only.

④ Certified to meet the Canadian Electrical Code (CEC) only.

# McGill™ 5000 Series Industrial Extension Lights

## Thermoplastic Handle With or Without Receptacle

**NEC/CEC:**  
Listed for Ordinary (Unclassified) Locations

**NEC:**  
Meets OSHA requirements

### Features

- Industrial-duty extension lights resist impact, abrasion and oil.
- Yellow handles with receptacle, yellow cords, and grounded cages enhance safety, while easy-open cages speed relamping.
- All-weather cords have molded plugs for durability.
- Cages feature rotating hooks and NO-ROL design for accurate light positioning.
- Accommodates up to 200 Watt rough service bulbs.
- Meets NEC requirements for power tool grounding.

### Standard Materials

- Cords: 16/3-SJTW thermoplastic
- Cages: 10 gauge steel

### Standard Finish

- Cages: zinc plated, chrome finish

### Options

- NEC Version: 13 Amp, 125 Vac receptacle rating.
- CEC Version 15 Amp, 120 Vac receptacle rating.

### NEC/CEC Certification and Compliances ①

- UL Listed (with cord): E59071
- UL Listed (without cord): E59054
- UL Standard: 153
- CSA Certified (with cord): LL89639
- CSA Certified (without cord): LL56247
- CSA Standard: C22.2 No. 12

	Amp /Vac	with out Cord	Catalog Numbers with 7.6 m (25') 16/3–SJTW Cord	with 15.2 m (50') 16/3–SJTW Cord
Closed-End Extension Lights				
Handle and cage	13 Amp/ 125 Vac	5000-G	5025-G	5050-G
Handle and cage	15 Amp/ 120 Vac	C5000-G ②	C5025-G ②	C5050-G ②
Handle and cage with reflector	13 Amp/ 125 Vac	5000-RG	5025-RG	5050-RG
Handle and cage with reflector	15 Amp/ 120 Vac	C5000-RG ②	C5025-RG ②	C5050-RG ②
Handle and cage, no receptacle	13 Amp/ 125 Vac	5000-GN	5025-GN	5050-GN
Handle and cage, no receptacle	15 Amp/ 120 Vac	C5000-GN ②	C5025-GN ②	C5050-GN ②
Handle and cage with reflector, no receptacle	13 Amp/ 125 Vac	5000-RGN	5025-RGN	5050-RGN
Handle and cage with reflector, no receptacle	15 Amp/ 120 Vac	C5000-RGN ②	C5025-RGN ②	C5050-RGN ②
Handle and non-metallic cage	13 Amp/ 125 Vac	—	5999-GH	—
Handle and non-metallic cage	15 Amp/ 120 Vac	—	C5999-GH ②	—
Handle and non-metallic cage with reflector	13 Amp/ 125 Vac	—	5999-RGH	—
Replacement Cord Sets				
Cord set with molded plugs			6229-1	6229-2
Catalog Number				
			With Out Reflector	With Reflector
Cages				
Wire cage			8171	8170
Vinyl insulated metal cage (100 Watt A-21)			08171	08170
Non-metallic cage (100 Watt A-19)			—	8224
Catalog Number				
			With Out Switch	
Handles and Sockets				
Handle and socket for 5000			0877	
Handle and socket for 5000-N			0877-N	
Socket for 5000 and 5000-N			00868	

① 100 Watt Maximum for UL Listing and CSA Certification.

② Certified to meet the Canadian Electrical Code (CEC) only.

# McGill™ Handy Compact Fluorescent Work Light

## 13 Watt

NEC:  
Listed for Ordinary (Unclassified) Locations

### Applications

- The compact light provides cool operation, allowing for work in small areas without excessive heat build-up or burns from accidental contact.

### Features

- This energy-efficient work light features an exclusive 10,000 hour, 13 Watt rough service twin tube fluorescent lamp.
- Optional magnetic base with removable plastic swivel hook available.
- 13 Watt, 120 Volt PLC, 15 mm (0.59 in) lamp.
- Double insulated, enclosed electrical components.
- Convenient on/off switch under domed cap.
- Durable construction for industrial and commercial applications.

### Standard Materials

- Cord and molded plug: 18 gauge SJTOW oil-resistant
- Outer tube with reflector break-resistant polycarbonate

### NEC Certification and Compliances

- UL Listed: E59071
- UL Standard: 153



5331-0001



5331-0008

(Magnetic base and removable swivel hook assembly)

	Catalog Number
120V, 13 Watt lamp, 50.8 mm (2") diameter, 292.1 mm (11-1/2") length with 7.6 m (25'), 18/2-SJTOW yellow cord, in-line ballast, and built-in switch	5331-0001
Replacement 13 Watt lamp for 5331-0001 (shock resistant, rough service)	5331-0002
Magnetic base and removable swivel hook assembly	5331-0008
Scratch Guard	5331-0035

# McGill™ Rough Service Fluorescent Lamp

## 13 Watt

**NEC:**  
Listed for Ordinary (Unclassified) Locations

### Applications

- The compact light provides cool operation, protecting personnel from accidental contact burns.

### Features

- This 13 Watt energy-efficient work lamp provides light output equivalent to a 75-100 Watt incandescent with lamp life rated at 10,000 hours.
- Optional tool tap and scratch guard are available.
- Reflector directs light to work surface away from eyes.
- Scratch guard protects light.
- On/off switch, located under handle is water and dust resistant.
- Compact ballast located in handle.
- Rubber bumpers and handle protect light on impact.
- Exclusive in-line tool tap (110 Volt) with outlet cover.

### Standard Materials

- Cord and molded plug: 16 or 18 gauge SJTOW oil-resistant
- Adjustable hooks with cushion tips: spring steel

### NEC Certification and Compliances

- UL Listed: E59071
- UL Standard: 153



5331-0034



5331-0008

(Magnetic base and removable swivel hook assembly)

	Catalog Number
<b>Fluorescent Lamp</b>	
13 Watt Handi-Light with tool tap and scratch guard, 7.6 m (25') 16/3-SJTOW	—
13 Watt Handi-Light with scratch guard and 7.6 m (25') 18/2-SJTOW	5331-0032
13 Watt Handi-Light with Saf-T-Tie insert: cord locking mechanism, tool tap, scratch guard and 457.2 mm (18") 16/3-SJTOW	5331-0034
<b>Accessories and Replacement Parts</b>	
13 Watt Handi-Light head kit with switch, ballast and scratch guard	5331-0033
Scratch guard only	5331-0035
13 Watt Handi-Light head kit with switch and scratch guard; less ballast	5331-0036
13 Watt lamp only (shock resistant, rough service)	5331-0002
Magnetic base and removable swivel hook assembly	5331-0008

# McGill™ Fluorescent Work Lights

## 12 Volt, 13 Watt

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

### Applications

- For applications requiring low-voltage, bright, energy-efficient lighting.

### Features

- The light is powered by a printed circuit, solid state ballast connected to the lamp base.
- Hook with protective plastic tip, allowing for the light to hang on user's belt or shoulder strap for hands-free operation.
- Models available with 6.1 m (20 ft) 18/2-SJTOW oil-resistant, low temperature cord or 0.3 m (1 ft) to 1.5 m neoprene black coil cord; both with male lighter plugs on the ends.
- Ideal for use in confined areas.
- Replaceable 13 Watt, 12 Volt, 12.5 Amp Vac twin tube lamp.
- Ballast designed to operate at -20 °C (-4 °F)
- Ballast protected against voltage surges up to 18 Volts.
- Convenient on/off switch.
- Optional battery pack with charger available.
- Optional magnetic base with removable plastic swivel hook available.

### Standard Materials

- Single metal hook with protective plastic tip
- Break-resistant polycarbonate outer tube with reflector



5331-0003



5331-0004



5331-0008

(Magnetic base and removable swivel hook assembly)

Catalog Number	
<b>Work Lights</b>	
12 Volt, 13 Watt lamp, 50.8 mm (2 ft) dia., 292.1 mm (11.5 in) length with 6.1 m (20 ft) 18/2-SJTOW yellow cord and male lighter plug	5331-0003
12 Volt, 13 Watt lamp, 50.8 mm (2 ft) dia., 292.1 mm (11.5 in) length with 0.3 m (1ft) - 1.5 m (5 ft) coil cord and male lighter plug	5331-0004
<b>Accessories and Replacement Parts</b>	
13 Watt lamp only (shock resistant, rough service)	5331-0002
Magnetic base and removable swivel hook assembly	5331-0008

# McGill™ Battery Pack with Charger

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

## Applications

- Ideal for use with 12 Volt, 13 Watt fluorescent work lights when working in remote areas. Charger plugs into 120 Vac and charges at 1.2 amps, 12 Vdc. Charger is furnished with 1.8 m (6 ft) cord and male lighter plug to insert into the female outlet of the battery. Charger then plugs directly into a 120 Volt outlet. If battery is discharged to recommended maximum depth, the charger requires 16 hours to fully recharge. As battery is charged, the output of the charger reduces to low level. Battery must be removed from the charger within three days. Fully charged battery will operate a work light for about 5 hours continuously

## Features

- 7 Amp hour capacity, sealed lead acid type battery.
- Taper charger.
- Safety vent opens if battery is overheated.
- Battery furnished with 0.3 m (1 ft) power cord having female 12 Volt outlet.
- Battery pack:
  - 2.6 kgs (5.75 lbs)
  - 152.4 mm (6 in) height
  - 63.5 mm (2.5 in) width
  - 88.9 mm (3.5 in) length

## Standard Material

- Battery case: rugged nylon with double zipper, closed cell foam padding on the sides and bottom
- 50.8 mm (2 in) adjustable web belt with quick release buckle
- Two “D” rings to connect the hooks of the shoulder strap
- Shoulder strap is 1524.0 mm (6 in) long with 0.3 m (1 ft) long foam pad, adjustable strap on each end.
- Triangular “D” ring provides a place to hang your light to give hands-free lighting.



5331-0005

Appleton®

GENERAL TEMPORARY LIGHTING

Catalog Number	
<b>Battery Pack</b>	
Battery pack, charger, shoulder strap, and case with belt	5331-0005
<b>Accessories and Replacement Parts</b>	
13 Watt, 12 Volt, 1.25 Amp DC lamp (shock resistant, rough service)	5331-0006
7 Amp hour battery assembly	5331-0007

# McGill™ Fluorescent Industrial Extension Lights

**NEC/CEC:**  
Listed for Ordinary (Unclassified) Locations

**NEC:**  
Meets OSHA requirements

## Applications

- Compact, lightweight with hinged hooks, these fluorescent extension lights were designed to carry and use virtually anywhere.

## Features

- Ideal for use in confined areas.
- Emanates soft, glare-free light.
- Safe and durable, these lamps remain cool to the touch.
- Outer tube protects 15, 8, or 4 Watt lamps.
- Durable, heavy-duty construction throughout.
- Low energy, long-life.
- No exposed metal parts.

## Standard Materials

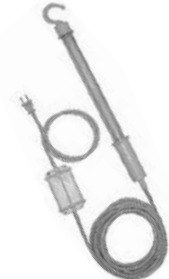
- Impact resistant plastic

## NEC/CEC Certification and Compliances

- UL Listed: E59071
- UL Standard: 153
- CSA Certified: LL89639
- CSA Standard: C22.2 No. 12



5330-1525



5330-0818

## 15 Watt Extension Lights

	Catalog Number	
	with 7.6 m (25 ft) Cord	with 15.2 m (50 ft) Cord
15 Watt lamp 54.1 mm (2.13 in) dia., 571.5 mm (22.5 in) length, with SJTO yellow cord — 18/3 from 3 prong plug to ballast, 18/2 to lamp. No. F15T8/CW bulb and FS-2 starter furnished	5330-1525	5330-1550
15 Watt lamp 54.1 mm (2.13 in) dia., 571.5 mm (22.5 in) length, with SJTW yellow cord — 16/3 from 3 prong plug to ballast, 18/2 to lamp. No. F15T8/CW bulb and FS-2 starter furnished	5332-1525 ①	—

## 4 and 8 Watt Extension Lights

	Catalog Number — 18/2-SJTO Cord		
	with 4.6 m (15 ft)	with 6.7 m (22 ft)	with 7.6 m (25 ft)
4 Watt, F4T5/CW; 279.4 mm (11 in) overall length	5330-0411	5330-0418	—
8 Watt, F8T5/CW; 431.8 mm (17 in) overall length	5330-0811	5330-0818	—
8 Watt, F8T5/CW; 431.8 mm (17 in) overall length	—	5332-0818 ①	5332-0825 ①

## Accessories and Replacement Parts

	Catalog Number
Plastic shield for 5330-0411 and 5330-0418	—
Hook only for 5330-0411, -0418, -0811, and -0818	5330-0401
Plastic shield for 5330-0811 and 5330-0818	5330-0800
Plastic shield for 5330-1525	5330-1500
Hooks, plastic, set of two (2) for 5330-1525	5330-1501

① Certified to meet the Canadian Electrical Code (CEC) only.

# McGill™ High Intensity Low-Voltage Extension Lights

**NEC/CEC:**  
**Rated for Ordinary (Unclassified) Locations**

## Features

- Compact, durable, and safe 30 Watt spot and 35 Watt flood lights.
- Ideal for use where low-voltage and maximum illumination are needed.
- Powerpak transformer converts 120 Vac to 12 Vac, also available as separate item.
- Spot and flood light available with battery clips where no voltage conversion is necessary.
- Available with battery clips where no voltage conversion is necessary.
- Heavy-duty cords, plugs, and connectors.
- TWIST-LOK connector permits economical cord and lamp replacement.

## Standard Materials

- Bulb and powerpak transformer
- Secondary cord: 15.2 m (50 ft) 16/2-SJTO
- Handle: impact-resistant plastic
- Lens: polycarbonate



5329-4000

	Catalog Number	
	with Power Pack Transformer	with Battery Clips
Complete unit with 30 W, 50,000 candle power spot bulb; 15.2 m (50 ft) 16/2-SJTO cord and plug	5329-4000 ①	5329-4001 ①
Complete unit with 35 W, 325 candle power flood bulb; 15.2 m (50 ft) 16/2-SJTO cord and plug	5329-4010 ②	5329-4011 ②

## Accessories and Replacement Parts

	Catalog Number
Mini-Powerpak with 15.2 m (50 ft) 16/3-SOW primary cord	5329-0015
30 Watt spot light with 15.2 m (50 ft) 16/2-SJTO cord and TWIST-LOK connector	5329-4002 ①
35 Watt flood light with 15.2 m (50 ft) 16/2-SJTO cord and TWIST-LOK connector	5329-4012 ②
Plastic lens	5329-4003
Lens retaining ring	5329-4004

① Accommodates G.E. bulb #4405 and 4405-1.

② Accommodates G.E. bulb #4422.

# McGill™ Mini-Powerpak Low-Voltage Extension Lights

NEC:  
Rated for Ordinary (Unclassified) Locations

NEC:  
Meets OSHA requirements

### Features

- Lightweight, compact transformer converts 120 Vac to 12 Vac lighting.
- Under 2.7 kgs (6 lbs) total weight.
- Transformer potted and sealed to resist moisture.
- Fuse protected primary fuse.
- TWIST-LOK connector.
- 75 W low-voltage bulb included.

### Standard Material

- Extension light
- Transformer: 76.2 x 88.9 x 177.8 mm (3 x 3-1/2 x 7 in)
- Power cord: 1.5 m (5 ft) 16/3-SOW



5329-7010

Appleton®

GENERAL TEMPORARY LIGHTING

		Catalog Number
<b>Extension Lights</b>		
Complete unit with power supply cord, Mini-Powerpak transformer		
7000-G extension light with 7.6 m (25 ft) 16/3-SJTW Cord		5329-7000
7000-RG extension light with 7.6 m (25 ft) 16/3-SJTW Cord		5329-7010
<b>Accessories and Replacement Parts</b>		
Mini-Powerpak with 1.5 m (5 ft) 16/3-SOW primary cord		5329-0015
7.6 m (25 ft) 16/3-SJTW secondary cord assy., with TWIST-LOK plug		5329-0003
75 Watt low-voltage medium base A-21 bulb		6461

# McGill™ Fluorescent Hand Lamps

## Explosionproof. 13 Watt Twin Tube and 26 Watt Quad

### NEC:

Class I, Division 1, Groups C, D  
Class II, Division 1, Groups F, G

### Features

- This portable, fluorescent light features durable, heavy-duty construction with non-metallic guard, swivel hook and handle assembly.
- The handle holds a 125 Volt rated ballast designed to operate on 50 or 60 Hz with recyclable thermal protection.
- "T" Number: T6.
- Easy maintenance.
- Completely watertight.
- No exposed metal parts.
- 900 lumens for 13 Watt unit.
- 1800 lumens for 26 Watt unit.
- Corrosion-resistant.
- 101.6 mm (4 in) outside diameter.
- 596.9 mm (23.5 in) length.
- 1.6 kgs (3.5 lbs)

### Standard Materials

- Globe: tempered glass

### NEC Certification and Compliances

- UL Listed: E43473
- UL Standard: 844



5227-0006

Appleton®

GENERAL TEMPORARY LIGHTING

	Catalog Number
<b>13 Watt Twin Tube Selection Chart</b>	
Hand lamp with 15.2 m (50 ft) 16/3-SO cord (male plug not included)	5227-0003
Twin tube hand lamp with out cord	5227-0006
<b>26 Watt Quad Tube Selection Chart</b>	
Hand lamp with 15.2 m (50 ft) 16/3-SO cord (male plug not included)	5227-0007
Quad tube hand lamp with out cord	5227-0008

# McGill™ Tubular Fluorescent Inspection Light

## Explosionproof. 8 Watt

NEC:  
Class I, Division 1, Group D  
Class II, Group G

### Applications

- This inspection light is ideal for inspection of aircraft fuel systems because of its narrow diameter, light weight and cool operating temperature.

### Features

- Furnished with high impact aluminum alloy guard and non-sparking swivel hook.
- "T" Number: T5.
- Easy maintenance — only glass globe requires factory replacement.
- 450 lumens.
- 63.5 mm (2.5 in) outside diameter.
- 685.8 mm (27 in) length.
- 1.5 kgs (3.3 lbs)

### NEC Certification and Compliances

- UL Listed: E43473
- UL Standard: 844



5227-0004

Catalog Number	
Hand lamp with 15.2 m (50 ft) 16/3-SO cord (male plug not included)	5227-0004

# McGill™ Industrial Extension Lights

## Explosionproof

**NEC:**  
Class I, Division 1, Groups C, D

### Features

- This watertight portable extension light features a lightweight aluminum alloy guard with a non-sparking swivel hook, as well as a chemical-resistant handle and globe holder.
- High impact glass globe accepts an A-21.
- The one-piece construction of the 15 Amp, 240 Vac socket withstands temperatures up to 182 °C (360 °F) in service.
- "T" Number: T3A.
- Completely watertight.
- Accommodates 16/3-SO or 14/3-SO cord.
- 127 mm (5 in) outside diameter.
- 469.9 mm (18.5 in) length.
- 1.8 kgs (4 lbs).

### Standard Materials

- 100 Watt rough service bulb

### NEC Certification and Compliances

- UL Listed: E43473
- UL Standard: 844



5227-0005

	Catalog Number
<b>Extension Lights</b>	
Hand lamp with 15.2 m (50 ft) 16/3-SO cord (male plug not included)	5227-0001
Hand lamp with out cord	5227-0005
<b>Accessories and Replacement Parts</b>	
Handle assembly and lamp holder	5227-9915
Guard and globe assembly	5227-9916

Appleton®

GENERAL TEMPORARY LIGHTING

# McGill™ Low–Voltage, High Intensity Hand Lamp

## Explosionproof

NEC:  
Class I, Division 1, Groups C, D

### Applications

- Ideal for inspecting refinery towers, manholes, or railroad tank cars.

### Features

- This low-voltage spotlight uses a 12 Volt, PAR-36, 30 Watt, automotive type, sealed beam high intensity lamp.
- The aluminum light guard is high impact alloy and swivel hook is non-sparking.
- "T" Number: T3C.
- 30,000 beam candlepower.
- 6.4 mm (0.25 in) thick glass lens.
- Can be powered by low-voltage transformer or alternate 12 Volt source.
- 139.7 mm (5.50 in) outside diameter.
- 406.4 mm (16 in) length including hook.
- 1.4 kgs (3 lbs).

### Standard Materials

- Light guard: aluminum

### NEC Certification and Compliances

- UL Listed: E43473
- UL Standard: 844



5227-0002

Catalog Number	
Hand lamp with 15.2 m (50 ft) 16/3-SO cord (male plug not included)	5227-0002

# McGill™ Fluorescent Utility Lights

**NEC/CEC:**  
Listed for Ordinary (Unclassified) Locations

## Applications

- Whether the application calls for securely lighting a livestock operation, damp barn, or even a harsh, outdoor environment, the 22 Watt fluorescent utility light delivers energy-efficient, trouble-free service for a variety of demanding lighting needs. The single unit incorporates non-corrosive construction, its own wiring compartment, and an impact-resistant thermoplastic mounting base.

## Features

- Removable globe for effortless “push-pull” relamping and cleaning.
- Standard 15 mm (0.59 in), 22 Watt quad-tube lamp provides 75% greater energy efficiency.
- Average service life of 10,000 hours.
- Fastens directly to walls, ceilings, or structural members.
- 88.9 mm (3.5 in) diameter, 241.3 mm (9.5 in) height.
- Two 7.9 mm (0.31 in) diameter mounting holes on 111.3 mm (4.48 in) centers.
- 22 Watt, 120 Volt PLC, 15 mm (0.59 in) lamp equivalent to 75 Watt incandescent.
- Delivered complete with globe, ballast, lamp, socket and wiring box.
- For use up to 38 °C (100 °F) ambient temperature.
- Use with either 12.7 mm (0.5 in) or 19.1 mm (0.75 in) rigid non-metallic conduit.



600-FL22

## NEC/CEC Certification and Compliances

- UL Listed: E13761
- UL Standard: 1598
- CSA Certified: LL56247
- CSA Listed: C22.2 No. 250.0

	Wiring Compartment Cubic Decimeter (Cubic Inch)	Supply Wire Rating °C (°F)	Catalog Numbers	
			12.7 mm (0.5 in) Threaded Conduit Opening	19.1 mm (0.75 in) Threaded Conduit Opening
Utility light with glass globe				
For damp locations	0.20 (12)	90 (194)	600-FL22	601-FL22
For damp locations	0.20 (12)	105 (221)	C600-FL22 ②	C601-FL22 ②
Sealed unit for wet locations	0.20 (12)	90 (194)	605-FL22	606-FL22
Sealed unit for wet locations	0.20 (12)	105 (221)	C605-FL22 ②	C606-FL22 ②
Utility light with clear plastic prismatic globe				
For damp locations	0.20 (12)	90 (194)	640-FL22	641-FL22
For damp locations	0.20 (12)	105 (221)	C640-FL22 ②	C641-FL22 ②
Sealed unit for wet locations ①	0.20 (12)	90 (194)	645-FL22	646-FL22
Sealed unit for wet locations ①	0.20 (12)	105 (221)	C645-FL22 ②	C646-FL22 ②
Utility light with red plastic prismatic globe				
For damp locations	0.20 (12)	90 (194)	650-FL22	651-FL22
For damp locations	0.20 (12)	105 (221)	C650-FL22 ②	C651-FL22 ②
Sealed unit for wet locations ①	0.20 (12)	90 (194)	655-FL22	656-FL22
Sealed unit for wet locations ①	0.20 (12)	105 (221)	C655-FL22 ②	C656-FL22 ②
Accessories and Replacement Parts — Additional plastic globes see Protect-O-Globes				
				Catalog Number
Glass globe only - 220.7 mm (8.68 in) long				0753
Clear plastic prismatic globe only - 209.6 (8.25) mm long				5213-6649
Red plastic prismatic globe only - 209.6 (8.25) mm long				5213-6659
Protective metal cage for glass globes only				1435-6
22 Watt, 120 Volt PLC, 15 mm (0.59 in) lamp				5213-6660
Base, socket, and ballast assembly only for 600-FL22				5213-6623
Base, socket, ballast, and seal assembly only for 605-FL22				5213-6625

① For base-up operation only.

② Certified to meet the Canadian Electrical Code (CEC) only.

# McGill™ Incandescent Utility Lights

**NEC/CEC:**  
*Listed for Ordinary (Unclassified) Locations*

## Applications

- Ideal for food processing plants, barns, garages, warehouses, and workshops.
- Low cost, corrosion-resistant, enclosed utility lights, complete with base, wiring box, and globe, are convenient to use.

## Features

- Fasten directly to walls, ceilings, or structural members — no separate outlet box required.
- Glass or plastic globes screw out for easy replacement of A-21 bulbs (not included) up to 150 Watts.
- High quality materials and sockets assure long, trouble-free service life.
- 88.9 mm (3.5 in) diameter; 241.3 mm (9.5 in) height
- Two 7.9 mm (0.31) diameter mounting holes on 111.3 mm (4.38 in) centers.
- Moisture-resistant construction with no exposed metal parts.
- Large compartment for easy wiring.
- Super strong, impact-resistant, thermoplastic mounting unit.
- For use up to 38 °C (100 °F) ambient temperature.
- Accommodates up to 150 Watts max. domestic A-21 bulbs.
- For use with either 12.7 mm (1.5) or 19.1 mm (0.75 in) rigid non-metallic conduit.

## NEC/CEC Certification and Compliances

- UL Listed: E22558
- UL Standard: 1598
- CSA Certified: LL56247
- CSA Listed: C22.2 No. 250.0



606 with 1435-6



653

# McGill™ Incandescent Utility Lights

NEC/CEC:  
Listed for Ordinary (Unclassified) Locations

	Wiring Compartment Cubic Decimeter (Cubic Inch)	Supply Wire Rating °C (°F)	Catalog Numbers	
			12.7 mm (0.5 in) Threaded Conduit Opening	19.1 mm (0.74) Threaded Conduit Opening
Utility light with glass globe				
For damp locations	0.25 (15)	125 (257)	600	601
For damp locations	0.25 (15)	105 (221)	C600 ③	C601 ③
For damp locations	0.20 (12)	60 (140)	603	604
For damp locations	0.20 (12)	60 (140)	C603 ③	C604 ③
Sealed unit for wet locations	0.20 (12)	60 (140)	605	606
Sealed unit for wet locations	0.20 (12)	60 (140)	C605 ③	C606 ③
Utility light with clear plastic globe ①				
For damp locations	0.25 (15)	125 (257)	640	641
For damp locations	0.25 (15)	105 (221)	C640 ③	C641 ③
For damp locations	0.20 (12)	60 (140)	643	644
For damp locations	0.20 (12)	60 (140)	C643 ③	C644 ③
Utility light with red plastic globe ①				
For damp locations	0.25 (15)	125 (257)	650	651
For damp locations	0.25 (15)	105 (221)	C650 ③	C651 ③
For damp locations	0.20 (12)	60 (140)	653	654
For damp locations	0.20 (12)	60 (140)	C653 ③	C654 ③
Accessories and Replacement Parts — Additional plastic globes see Protect-O-Globes				
				Catalog Number
Protective metal cage for glass globes only				1435-6
Base and socket only for 600, 640, and 650				610
Base and socket only for 601, 641, and 651				611
Base and socket only for 603, 643 and 653				5213-0623
Base and socket only for 604, 644 and 654				5213-0672
Base, socket, and seal assembly only for 605				5213-0637
Base, socket, and seal assembly only for 606				5213-0638
Socket only for 0.25 cubic decimeter (15 cubic inch) wiring compartment				600-3
Socket only for 0.20 cubic decimeter (12 cubic inch) wiring compartment				606-3
Glass globe only for 600, 601, 603, and 604 - 296.9 mm (6.69 in) long				0753
Glass globe only for 605 and 606 - 296.9 mm (6.69 in) long				0753-HR ②
Clear plastic globe only for 640, 641, 643 and 644 - 6.1 mm (6.13 in) long				649
Red plastic globe only for 650, 651, 653 and 654 - 6.1 mm (6.13 in) long				659
Green plastic globe only - 6.1 mm (6.13 in) long				669

① Plastic globes max. 75 Watt base-up mounting.

② Heat resistant globes required for wet locations.

③ Certified to meet the Canadian Electrical Code (CEC) only.

# McGill™ Fluorescent Lamp Changers

## Grips Lamp

NEC/CEC:  
 Rated for Ordinary (Unclassified) Locations

### Applications

- Eliminate the need for climbing ladders and scaffolds.

### Features

- Changers securely grip lamps for easy removal.
- Two models to choose from.
- Models for spring-loaded, bi-pin, single-pin, or recessed double contact lamps.



174



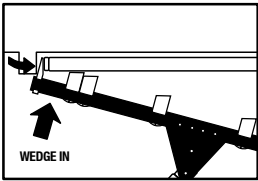
184

Catalog Number	
<b>Lamp Changers</b>	
Complete changer unit for up to 38.1 mm (1.5 in) diameter, 1.2 m (4 ft) lamps that require 90° rotation or axial movement. Includes changer head, four zinc-plated steel pole sections each 609.6 mm (24 in) long, and starter changer. For T-8, T-10, T-12 single-pin, T-8, T-12 med. bi-pin, and T-10, T-12 recessed double contact lamps.	174
Complete changer unit for 38.1 mm (1.5 in) diameter, spring-loaded lamps up to 2.4 m (8 ft) long. Includes changer head and two-section aluminum telescoping pole extending to 3.8 m (12.5 ft).	184
<b>Accessories and Replacement Parts</b>	
Zinc-plated 0.6 m (2 ft) steel pole section for 174	170-P
Zinc-plated steel changer head only for 174	171-C
Aluminum starter changer only for 174	173-S
Fluorescent changer pull cord only for 174	01540
Yellow driver, five clips, and speed nuts for 184	5274-1743

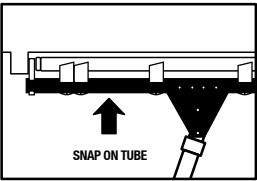
### Changing Lamps is Easy With McGill Fluorescent Lamp Changers

1. First, angle changer to wedge yellow driver between lamp and socket. Then snap changer onto tube by rocking changer gently.
2. Next, standing at end of changer, push pole so driver will extract fluorescent lamp out of socket.

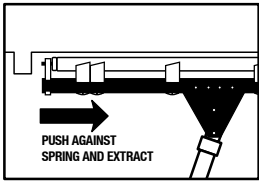
Model #184



Wedge driver between lamp and socket.



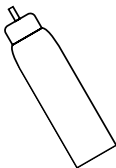
Snap changer onto tube. Rock changer onto lamp.



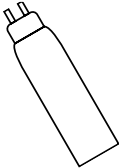
Push against changer spring and extract.

### Lamp Identification

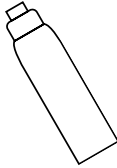
The changers featured on this page accommodate the fluorescent lamps at right.



Single-pin: T-8, T-10, T-12



Medium bi-pin: T-8, T-12



Recessed double contact: T-10, T-12

# McGill™ Incandescent Lamp Changers

## Rubber Covered Fingers with Garter Springs

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

### Features

- Rubber covered fingers with garter springs make changing a variety of lamp types simple.
- Hard-to-reach lamps are easily replaced without using ladders or platforms.
- A variety of styles and sizes is available to fit practically all commonly used lamps.
- Models for use with incandescent, mercury, metal halide, and sodium lamps.
- Garter spring grips lamps firmly.
- Lightweight for ease-of-use and convenience.
- Insulated to help protect against shock.
- Changes lamps up to 7.6 m (25 ft) height (poles sold separately).



151-CA



153-C

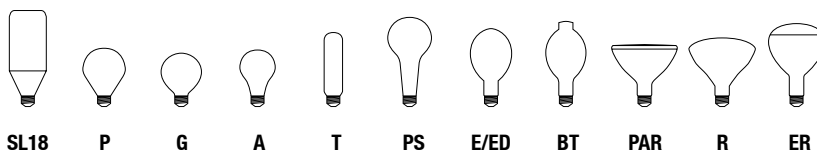


161-C

	Lamp Size ①	Wattage	Catalog Number
Changer head with angle adjustment ②	A-15, -17, -19; G-16-1/2, -18-1/2	15-100	150-CA
Changer head with angle adjustment ②	A-19, -21, -23; P-25; PS-25, -30, -35; FLE-20/T-19 ③; SL-18 ③; G-25, -30	25-500 (18 fluorescent ③)	151-CA
Changer head only	PS-35, -40; G-40, -48	25-500	152-C
Changer head only	PS-52; G-48, -64	750-1500 (incandescent)	153-C
Changer head only	T-16, -18, -20	1000-1500 (incandescent) 400-1000 (mercury)	154-C
Changer head only	R-52, -57	500-1000 (incandescent flood) 400-750 (mercury)	155-C
Changer head only	R-30, -40; PAR-30, -36, -38; ER-30, -40	50-500 (incandescent) 100-175 (mercury)	156-C
Changer head only	E-37; BT-37, -46; ED-37	400-700 (mercury) 400-1000 (metal halide)	158-C
Changer head only	R-60	750 (incandescent) 400 (mercury flood)	159-C
Changer head only	E-21, -23, -23-1/2, -25, -28; ED-23-1/2, -28; BT-28	75-250 (mercury) 175-400 (metal halide) 50-1000 (sodium)	161-C
Changer head only	E-17, -18; ED-17, -18; B-17	50 (mercury) 35-400 (sodium) 70-175 (metal halide)	163-C

### Lamp Identification

A lamp designation consists of a letter indicating the shape and a figure to identify the approximate diameter in eighths of an inch. Lamps are measured through their greatest diameter. G-25 lamps are globe shaped with a 79.5 mm (3.13 in) diameter.



① Lamp size, not wattage, determines proper changer. May not accommodate weight of greater Wattage lamps.

② Jointed angle adapter for easy removal of horizontally or angle mounted lamps included. Use with small headed units only.

③ Not for use with angle adapter.

# McGill™ Incandescent Lamp Changers

## Rubber Suction Cups

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

### Features

- Rubber suction cups make it easy to change lamps where space surrounding bulbs is limited.
- Made of durable synthetic rubber, these changers securely fasten onto lamps and allow for safely changing lamps up to 7.6 m (25 ft) heights (poles sold separately).
- For lamps with smooth face only.



157-C



162-C



166-C

	Lamp Size ①	Wattage	Catalog Number
Changer with rubber suction cups	R-40, -52, RB-52	75-1000 (incandescent spot/flood)	157-C
Changer with rubber suction cup	PAR-30, -36, -38	25-150 (incandescent)	162-C
Changer with rubber suction cup	R-20, -30, ER-30, PAR-20	30-75 (incandescent)	166-C

① Bulb size, not Wattage, determines changer to be used. Use on smooth surface lamps only.

# McGill™ Lamp Changer Accessories and Replacement Parts

NEC/CEC:  
Rated for Ordinary (Unclassified) Locations

## Application

- Lightweight accessories and replacement parts provide a safe and sure way to remove and replace bulbs.

## Features

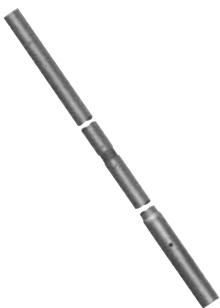
- For use with incandescent lamp changers, these 1.5 m (5 ft) insulated, interchangeable pole sections are designed for quick assembly to desired length. Up to four poles can be securely locked together with spring-loaded buttons.
- Broken lamp base remover has plastic shield designed to catch fragments and help protect user. Fits 160-P lamp changer pole, providing a fully insulated, safe, and sure way to remove bases of broken lamps.



200



9260



160-P

	Catalog Number
Interchangeable, wood insulated steel pole, 1.5 m (5 ft) sections	160-P
Broken lamp base remover for standard and mogul lamp bases	200
Garner springs for 150-CA, 151-CA, 154-C, 161-C changer heads	7013
Garner springs for 152-C, 153-C, 156-C, 158-C changer heads	7014
Garner springs for 155-C and 159-C changer heads	7019
Spring clip and button for lamp changer poles	9260

LAMP CHANGERS

Appleton®

# McGill™ Protect-O-Sleeves

## For Fluorescent Tubes

**NEC:**  
*Rated for Ordinary (Unclassified) Locations*  
*Meets OSHA safety requirements*

### Applications

- Reusable Protect-O-Sleeves encase existing fluorescent tubes to insulate and improve lighting efficiency at low temperatures.
- High tensile, polycarbonate strength protects people, equipment, and products.

### Features

- Furnished with end caps that fit snugly between lamp and sleeve.
- Insulates lamps up to 2.5 times at -6 °C (20 °F).
- Accommodates lamps up to 800 milliamps ①.
- For use up to 38 °C (100 °F) ambient temperature.
- Most T-8 and T-12 versions available in colors.



2260 (T-12)



2270 (T-8)



2546 (T-5)

#### T-5 Clear Protect-O-Sleeves ②

Lamp Type	Nominal Lamp Length Millimeters (Inches)	Catalog Number for Sleeve with 2 Caps for T-5 Diameter Lamps	Box Quantity
F-14	558.8 (22)	2522	48
F-21	863.6 (34)	2534	24
F-28	1168.4 (46)	2546	24

#### T-8 and T-12 Clear Protect-O-Sleeves ①

Lamp Type	Nominal Lamp Length Millimeters (Inches)	Catalog Number for Sleeve with 2 Caps for T-12 Diameter Lamps	Catalog Number for Sleeve with 2 Caps for T-8 Diameter Lamps	Box Quantity
F-15	457.2 (18)	—	2270	24
F-20	609.6 (24)	2268	2278	24
F-30	914.4 (36)	—	2271	24
F-32	1219.2 (48)	—	2295	24
F-36	914.4 (36)	2269	—	24
F-40	1219.2 (48)	2260	—	24
F-40	1524.0 (60)	—	2286	24
F-48	1168.4 (46)	2261	—	24
F-60	1524.0 (60)	2276	—	24
F-72	1828.8 (72)	2262	2272	24
F-96	2438.4 (96)	2263	2273	24

① No. 2285 heat sink screens must be used with T-8 and T-12 800-milliamper maximum HO lamp bases. Two heat sink screens required per sleeve (one at each end between lamp and sleeve). HO lamps create excessive heat at the ends. The open metal mesh of the heat sink screens spreads the excess heat over a larger area to help eliminate deterioration of the sleeve. **NOT for use with VHO lamps.**

② **NOT for use with HO or VHO lamps.**

# McGill™ Protect-O-Sleeves

## For Fluorescent Tubes

**NEC:**  
*Rated for Ordinary (Unclassified) Locations*  
*Meets OSHA safety requirements*

### Colored Protect-O-Sleeves ①

Lamp Type	Catalog Numbers for Sleeve with 2 Caps					Box Quantity
	Blue	Green	Pink	Red	Yellow	
F-32, T-8	2295-B	2295-G	2295-P	2295-R	2295-Y	12
F-40, T-12	2260-B	2260-G	2260-P	2260-R	2260-Y	12
F-48, T-12	2261-B	2261-G	2261-P	2261-R	2261-Y	12
F-72, T-12	2262-B	2262-G	2262-P	2262-R	2262-Y	12
F-96, T-8	2273-B	2273-G	2273-P	2273-R	2273-Y	12
F-96, T-12	2263-B	2263-G	2263-P	2263-R	2263-Y	12

### Accessories and Replacement Parts

	Catalog Number
Universal end cap for T-5, 2500 series	2508
Universal end cap for T-12, 2260 series	2265
Heat sink screen for HO lamp bases	2285 ①
Universal end cap for T-8, 2270 and 2295 series sleeves produced prior to 8-1-97	2274
Universal end cap for T-8, 2270 and 2295 series sleeves produced after 8-1-97	2279

① No. 2285 heat sink screens must be used with T-8 and T-12 800-millilamp maximum HO lamp bases. Two heat sink screens required per sleeve (one at each end between lamp and sleeve). HO lamps create excessive heat at the ends. The open metal mesh of the heat sink screens spreads the excess heat over a larger area to help eliminate deterioration of the sleeve. **NOT for use with VHO lamps.**

# McGill™ Tubeloc Holders

NEC/CEC:  
Listed for Ordinary (Unclassified) Locations

### Applications

- Securely position and hold tubes in fluorescent fixtures

### Features

- Shock resistant
- Styles to fit most fluorescent lamps in use today

### Standard Finish




- Holders: shock resistant nylon

### NEC/CEC Certification and Compliances

- UL Listed: E109438
- UL Standard: 1598
- CSA Certified: LL36636
- CSA Standard: C22.2



M180

Description		Catalog Number
	T-8 and T-12 Bi-pin, 14-40 Watts	M175
	T-12 Recessed double contact; Slimline single-pin; medium bi-pin; T-17 power groove with recessed double contact base (19.1 mm (0.75 in) dia. plunger)	M176
	T-17 Bi-pin mogul base	M180

# McGill™ Protect-O-Globes

## For Incandescent Bulbs

**NEC:**  
**Rated for Ordinary (Unclassified) Locations**  
**Meets OSHA requirements**

### Applications

- Protect lamps and the working environment with economical polycarbonate globes that are virtually unbreakable.
- Ideal for the replacement of glass and wire guard combinations where incandescent or HID lamps are used in vandal-proof applications.

### Features

- Various styles, sizes, and colors available.
- Prismatic globes provide lateral light diffusion.
- Smooth globes reduce operating temperatures, amplify light source.
- Accommodates up to 150 Watts maximum, base-up operation.



1500-C



0604AP



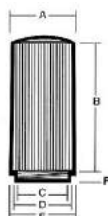
3316

Appleton®

LAMP PROTECTION

Description	Color	Finish	Thread Diameter mm (in)	Globe Dimensions Millimeters (Inches) – W x L	Maximum Wattage	Catalog Number
<b>Globes</b>						
209.6 mm (8.25 in) cylinder	Clear	Prismatic	82.6 (3.25)	88.9 x 209.6 (3.50 x 8.25)	60	<b>0134CP</b> ①
209.6 mm (8.25 in) cylinder	Clear	Smooth	82.6 (3.25)	88.9 x 209.6 (3.50 x 8.25)	60	<b>0134CS</b> ①
211.1 mm (8.31 in) cylinder	Clear	Smooth	108.0 (4.25)	120.7 x 211.1 (4.75 x 8.31)	150	<b>1500-C</b>
158.8 mm (6.25 in) bullet	Clear	Smooth	82.6 (3.25)	95.3 x 158.8 (3.75 x 6.25)	60	<b>0603CS</b> ①
158.8 mm (6.25 in) bullet	Green	Smooth	82.6 (3.25)	95.3 x 158.8 (3.75 x 6.25)	60	<b>0603GS</b> ①
158.8 mm (6.25 in) bullet	Red	Smooth	82.6 (3.25)	95.3 x 158.8 (3.75 x 6.25)	60	<b>0603RS</b> ①
158.8 mm (6.25 in) bullet	Amber	Smooth	82.6 (3.25)	95.3 x 158.8 (3.75 x 6.25)	60	<b>0603AS</b> ①
158.8 mm (6.25 in) cylinder	Clear	Smooth	82.6 (3.25)	95.3 x 158.8 (3.75 x 6.25)	60	<b>0604CS</b> ①
158.8 mm (6.25 in) cylinder	Clear	Smooth	81.0 (3.15)	94.5 x 152.4 (3.72 x 6.0)	75	<b>0752-C</b>
158.8 mm (6.25 in) cylinder	Green	Smooth	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604GS</b> ①
158.8 mm (6.25 in) cylinder	Red	Smooth	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604RS</b> ①
158.8 mm (6.25 in) cylinder	Amber	Smooth	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604AS</b> ①
158.8 mm (6.25 in) cylinder	Clear	Prismatic	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604CP</b> ①
158.8 mm (6.25 in) cylinder	Clear	Prismatic	81.0 (3.15)	94.5 x 152.4 (3.72 x 6.0)	75	<b>0752-P</b>
158.8 mm (6.25 in) cylinder	Green	Prismatic	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604GP</b> ①
158.8 mm (6.25 in) cylinder	Red	Prismatic	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604RP</b> ①
158.8 mm (6.25 in) cylinder	Amber	Prismatic	82.6 (3.25)	88.9 x 158.8 (3.5 x 6.25)	60	<b>0604AP</b> ①
<b>Bases</b>						
Yellow plastic base for use with 0752-C/P globes			81.0 (3.15)	87.4 x 41.4 (3.44 x 1.63)	75	<b>3316</b>
Yellow plastic base for use with 1500-C globe			108.0 (4.25)	87.4 x 41.4 (3.44 x 1.63)	150	<b>4014</b>

### Dimensions



Cylinder Prismatic

A - 88.9 mm (3.5 in)  
 B - 190.5 mm (7.5 in)  
 C - 76.2 mm (3.0 in)  
 D - 82.6 mm (3.25 in)  
 E - 95.3 mm (3.75 in)  
 F - 12.7 mm (0.5 in)



Cylinder Smooth

A - 88.9 mm (3.5 in)  
 B - 139.7 mm (5.5 in)  
 C - 76.2 mm (3.0 in)  
 D - 82.6 mm (3.25 in)  
 E - 95.3 mm (3.75 in)  
 F - 12.7 mm (0.5 in)



Bullet Smooth

A - 95.3 mm (3.75 in)  
 B - 139.7 mm (5.5 in)  
 C - 76.2 mm (3.0 in)  
 D - 82.6 mm (3.25 in)  
 E - 12.7 mm (0.5 in)

① Can be used with McGill Incandescent and Fluorescent Utility Lights.

# McGill™ Wire Lamp Guards and Wire Lamp Guard Grounding Kit

**NEC:**  
*Rated for Ordinary (Unclassified) Locations*  
*Meets OSHA requirements*

## Applications

- Wire lamp guards with universal collars help prevent breakage and theft.









## Features

- A wide variety of types and sizes is available to fit your diverse needs.
- Heavy-duty, 10 or 12 gauge, zinc-plated construction ensures long life.
- Easy to install.
- Vinyl coated versions available.
- Rust-resistant zinc plating with chromate finish.
- Clamp type guards for vapor-tight fixtures available.
- Spot welded steel wire ensures long life.


## Application

- To ensure that your lamps are grounded, and comply with NEC and OSHA requirements, the grounding kit supplies a metal fastener and 0.3 m (1 in) wire to connect wire lamp guards to a grounding circuit.

### Wire Lamp Guards

	Description	Collar Diameter Millimeters (Inches)	Catalog Number	
			for 100 W Bulb	for 200 W Bulb
	GRIPON guards with out reflectors	38.1 (1.50)	2100-2100-A	2200-2200-A
	Vinyl coated GRIPON guards with out reflectors	38.1 (1.50)	V-2100BULK	V-2200BULK
	PROTECTOR "O" guards; open bottom heavy-duty	38.1 (1.50)	1433	1434
	Vinyl coated PROTECTOR "O" guards	38.1 (1.50)	V-1433	V-1434
	Trap only to close bottom of 1433 and 1434	—	2932	2933
	Closed bottom wall and receptacle lamp guards	88.9 (3.50)	1438	—
	Cage for utility light ①	88.9 (3.50)	1435-6	—
	Guards for PAR and R-38 lamps	42.6 - 66.8 (1.69 - 2.63)	1438-1	—
	Guards for vapor-tight fixtures	95.25 (3.75)	1435-1	1435-3 ②

### Wire Lamp Guard Grounding Kit

Description		Catalog Number
	Grounding Kit	9995

① See McGill Incandescent and Fluorescent Utility Lights. Plastic cages available, see McGill String-O-Lights.

② 300 Watt type PS25 lamp only.

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Emerson brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge. Appleton is our premium line of lighting and electrical products for hazardous and industrial locations.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson brands to make electrical installations safer, more productive and more reliable.

The Appleton Group business unit of Emerson is organized into three focused groups that provide distributors and end users expert knowledge and excellent service.

#### **Electrical Construction Materials**

This group is made up of the Appleton and O-Z/Gedney brands. They manufacture a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial and hazardous lighting. Whether the application is hazardous location, industrial or commercial, the electrical construction materials group has the products to meet your needs.

#### **Power Quality Solutions**

The SolaHD brand offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge protection devices and power supplies.

#### **Heating Cable Systems**

This group is made up of the EasyHeat and Nelson brands. They offer a broad range of electrical heating cable products for residential, commercial and industrial applications.

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