

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Division 1, Group E, F, G
Class II, Division 2, Group F, G
Class III

NEC/CEC:

Simultaneous Exposure
Type 3R, 4X
IP66/67
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)

ATEX/IECEx:

Zone 2 and 22
II 2 GD
IP66/67

NBR IEC:

Zone 2 and 22
Ex nA IIC Gc
Ex tc IIIC Dc
IP66

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - Marine and wet locations
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors are present
 - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
 - 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
 - Parking garages
 - Other areas where dust, water, dirt and rough usage are a problem



Features

- Compact light weight low profile design is suited for low mounting heights.
- Modular design allows scores of fixture component combinations to meet installation needs. Uses same mounting hoods as Mercmaster III.
- Fixture housing and mounting hoods are copperfree cast aluminum with baked epoxy finish. All exposed hardware is stainless steel.
- Accommodates a wide range of voltages.
- Ambient temperatures:
 - 70 W to 100 W equivalent: -40 °C to +65 °C (-40 °F to +149 °F)
 - 150 W to 175 W equivalent: -40 °C to +55 °C (-40 °F to +131 °F)
 - 250 W equivalent: -40 °C to +50 °C (-40 °F to +122 °F)
- Electrical: 120-277 Vac, 50/60 Hz; 347-480 Vac, 50/60 Hz, Volts +/- 10%
- Pole terminal block: 1 x 8-24 AWG; 1 x 0.75 to 6 mm² (0.0012 to 0.0093 in²).
- 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 Mercmaster mounting hoods have provision for easy field installation of fuses in fixtures (see Fixture Unit — Electrical Specification).
- NPT and metric threads standard.
- NEMA Type V light distribution is standard.
 - Type V distribution is required in areas where sufficient, evenly distributed light is necessary. It produces a circular distribution that has the same intensity at all angles.
- NEMA Type I light distribution is available as an option for select NEC/CEC certified fixtures.
 - Type I distribution is the perfect lighting for walkways, Type I distribution is perfect for lighting walkways, catwalks or anyplace where a narrow beam of light is required.
- For ATEX/IECEx rated fixtures, ballast bodies and mounting hoods must be purchased separately.

Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate

Standard Finishes

- Mounting hoods, bodies and guards: baked gray epoxy-clad finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 8750, UL 844
- CSA Standard: C22.2 No. 250.0, C22.2 No. 137
- cCSAus Certified: 065182

ATEX/IECEx Certifications and Compliances

- ATEX
 - Gas: Zone 2
 - Conforming to ATEX 94/9/CE: CE 0081 II 3 G
 - ATEX Protection: Ex nA IIC Gc
 - T Rating:
 - 70 W and 100 W equivalent: T4 [+40 °C(+104 °F)], T4 (131 °F/55 °C), T3 [+65 °C(+149 °F)]
 - 150 W to 175 W equivalent: T4 [+40 °C(+104 °F)], T4 [+ 55 °C(+131 °F)]
 - 250 W equivalent: T4 [+40 °C(+104 °F)], T4 [+50 °C(+122 °F)]
- Dust: Zone 22
 - Conforming to ATEX 94/9/CE: CE 0081 II 3 D
 - ATEX Protection: Ex tc IIIC Dc
 - Surface Temperature: T92 °C (T197.6 °F)
 - Ambient Temperature:
 - 70 W and 100 W equivalent: -40 °C to +65 °C (-40 °F to +149 °F)
 - 150 W to 175 W equivalent: -40 °C to +55 °C (-40 °F to +131 °F)
 - 250 W equivalent: -40 °C to +50 °C (-40 °F to +122 °F)
 - ATEX Certificate: LCIE II ATEX 1008/01
 - Index of Protection: IP66

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ATEX/IECEx:

Zone 2 and 22
II 2 GD
IP66/67

NBR IEC:

Zone 2 and 22
Ex nA IIC Gc
Ex tc IIIC Dc
IP66

- IECEx
 - Gas: Zone 2
 - IEC Protection: Ex nA IIC Gc
 - T Rating:
 - 70 W and 100 W equivalent: T4 [+40 °C (+104 °F)], T4 [+ 55 °C (+131 °F)], T3 [+65 °C (+149 °F)]
 - 150 W to 175 W equivalent: T4 [+40 °C (+104 °F)], T4 [+ 55 °C (+131 °F)]
 - 250 W equivalent: T4 [+40 °C (+104 °F)], T4 [+50 °C (+122 °F)]
 - Dust: Zone 22
 - IEC Protection: Ex tc IIIC Dc
 - Surface Temperature: T92 °C (T197.6 °F)
 - Ambient Temperature:
 - 70 W and 100 W equivalent: -40 °C to +65 °C (-40 °F to +149 °F)
 - 150 W to 175 W equivalent: -40 °C to +55 °C (-40 °F to +131 °F)
 - 250 W equivalent: -40 °C to +50 °C (-40 °F to 122 °F)
 - IECEx Certificate: IECEx LCI II.0058
 - Index of Protection: IP66
- Ex Standards: IEC 60079-0; 60079-15; 60079-31

NBR IEC Brazilian Certifications and Compliances

- Certification Type: MLEDNA
 - Gas: Zone 2
 - IEC Marking: Ex nA IIC Gc
 - T Rating: T5/T6
- Dust: Zone 22
 - IEC Marking: Ex tc IIIC Dc
 - Surface Temperature: T92°C (T197.6°F)
- Ambient Temperature: -40 °C to +55 °C (-4 °F to +131 °F)
- Ingress Protection (solid and liquid): IP66
- INMETRO Certificate: BVC 12.1522
- Ex Standards: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-15, ABNT NBR IEC 60079-31
- Other Standards: ABNT NBR IEC 60529

NEC/CEC Related Products

- NEC, Class I, Division 2 photocells for classified use are available, see *PCD2 Series*.
 - Mounting hoods with photocontrols are not rated IP66/67.

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IP66

Illustrated Features



Heatsink

Reliable heat transfer via the cast, epoxy powder coat aluminum body. Provides maximum heat dissipation from the LED assembly to the outside environment.



Driver Assembly

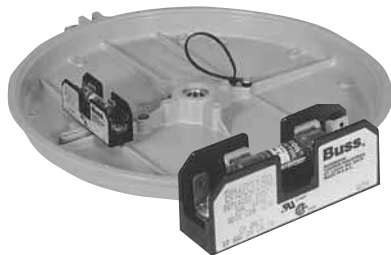
Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

Modular Plug between LED and driver.



LED Chamber

Protected by polycarbonate lens, allows for easy maintenance access.



Fuses ①

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

Photocell ①

Available for all fixtures except cone and ceiling mount. Installs through knock-out in mounting hood. Provides continuous ON-OFF dusk-to-dawn control.

Terminal Blocks (Zone 2)

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24AWG, 0.75 to 6 mm² (0.0012 to 0.0093 in²)

Epoxy Finish

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

Electrical Protection

Ground wire provided to bond mounting hood to ballast housing.

Safety

Rounded heatsink edges prevent possible injury during installation.

"Safety" High Hinge

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

Stainless Steel Latch Assembly

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



Cooler Operating Cone Hood

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

Mounting Hood and Globe Gaskets

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



① Fuses and photocells are available on the NEC/CEC versions only. Not for use in ATEX/IEC or NBR IEC governed locations.

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

Catalog Numbering Guide — NEC/CEC Certified Mercmaster LED

MLEDN	A	17	2	P	5	BU	H1
MLEDN - NEC/CEC Certified Mercmaster LED Series		Light Level Equivalent: 70 - 70 W HPS/PSMH 10 - 100 W HPS/PSMH 15 - 150 W HPS/PSMH 17 - 175 W PSMH ② 25 - 250 W HPS/PSMH		Optical Assembly: P - Polycarbonate Globe		Voltage: BU - Universal Voltages 120-277 Vac, 50/60 Hz BH - 347-480 Vac, 50/60 Hz	
	Mounting: A - Pendant C - Ceiling ① D - Pendant Cone R - 90° Stanchion S - 25° Stanchion W - Wall		Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20		Light Distribution: 1 - NEMA Type I Elliptical (100 W HPS and 175 W PSMH Only) 5 - NEMA Type V Symmetrical		Options: D - Diffused Globe F - Fusing ③ H1 - Photocontrol 120 V ④ H2 - Photocontrol 208 V ④ H3 - Photocontrol 240 V ④ H4 - Photocontrol 277 V ④

Catalog Numbering Guide — NBR IEC Certified Mercmaster LED

NMLEDNA	—	17	—	P	5	BU	D
N MLEDNA - NBR IEC Certified Mercmaster LED Series		Light Level Equivalent: 70 - 70 W HPS/PSMH 10 - 100 W HPS/PSMH 15 - 150 W HPS/PSMH 17 - 175 W PSMH ②		Optical Assembly: P - Polycarbonate Globe		Voltage: BU - Universal Voltages 120-277 Vac, 50/60 Hz	
	Mounting: A - Pendant C - Ceiling D - Pendant Cone R - 90° Stanchion S - 25° Stanchion W - Wall		Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20		Light Distribution: 5 - NEMA Type V Symmetrical		Options: D - Diffused Globe

Catalog Numbering Guide — ATEX/IECEX Certified Mercmaster LED ⑤

MLEDNA	—	17	—	P	5	BU	D
MLEDNA - ATEX/IECEX Certified Mercmaster LED Series		Light Level Equivalent: 70 - 70 W HPS/PSMH 10 - 100 W HPS/PSMH 15 - 150 W HPS/PSMH 17 - 175 W PSMH ②		Optical Assembly: P - Polycarbonate Globe		Voltage: BU - Universal Voltages 120-277 Vac, 50/60 Hz	
	Mounting: ATEX/IECEX version is not available as a complete fixture (not sold with mounting hood)		Hub Size: ATEX/IECEX version is not available as a complete fixture (hub size does not apply)		Light Distribution: 5 - NEMA Type V Symmetrical		Options: D - Diffused Globe

① Ceiling mount luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.

② 175 W Pulse Start Metal Halide only. Does not have a High Pressure Sodium equivalent.

③ Canadian Electrical Code does NOT allow fusing in hazardous locations. Fuse not CEC rated.

④ Luminaires with photocontrol are not rated IP66/67 or marine outside type (salt water).

⑤ For ATEX/IECEX rated fixtures, ballast bodies and mounting hoods must be purchased separately.

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Technical Data

Lamp		Ambient Temperature °C (°F)	Supply Wire Temperature °C (°F)	NEC/CEC		Dust		Gas/Dust Simultaneous ① Class I, Division 2/ Class II, Division 1	ATEX/IECEx and NBR IEC	
Light Level Equivalent to HID	Type			Class I, Division 2 ①	Gas Groups	Class I, Zone 2, AEx nA IIC, Ex nA IIC	Class II, Division 1 and 2 ②		Ex II 3G nA	Ex II 3D ② Ex tc IIIC
70 Watt NEMA Type V	LED	40 (104)	60 (140)	T4A	A, B, C, D	T4	T6	T4	T4	T92°C (T197.6°F) DC
		55 (131)	75 (167)	T4		T4	T6	T4	T4	
		65 (143)	90 (194)	T3C		T3	T6	T3C	T4	
100 Watt NEMA Type V	LED	40 (104)	60 (140)	T4A	A, B, C, D	T4	T6	T4	T4	T92°C (T197.6°F) DC
		55 (131)	75 (167)	T4		T4	T6	T4	T4	
		65 (143)	90 (194)	T3C		T3	T6	T3C	T4	
100 Watt NEMA Type I ③	LED	40 (104)	60 (140)	T4	A, B, C, D	T4	—	—	—	—
		75 (167)	75 (167)	T3C		T3	—	—	—	
		90 (194)	90 (194)	T3C		T3	—	—	—	
150 Watt NEMA Type V	LED	40 (104)	60 (140)	T4A	A, B, C, D	T4	T6	T4	T6	T92°C (T197.6°F) DC IP66
		55 (131)	75 (167)	T4		T4	T6	T4	T6	
175 Watt NEMA Type V	LED	40 (104)	60 (140)	T4A	A, B, C, D	T4	T6	T4	T6	T92°C (T197.6°F) DC IP66
		55 (131)	75 (167)	T4		T4	T6	T4	T6	
175 Watt NEMA Type I ③	LED	40 (104)	60 (140)	T4	A, B, C, D	T4	T5	T4	—	—
		55 (131)	75 (167)	T3C		T3	T5	T3C	—	
250 Watt NEMA Type V ③	LED	40 (104)	60 (140)	T4A	A, B, C, D	T4	T6	T4A	—	—
		50 (122)	75 (167)	T4		T4	T6	T4	—	

“T” Numbers Represent the Maximum Internal Temperature ① or Maximum Surface Temperature ②

“T” #	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	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
	(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” #	ATEX/IECEx and NBR IEC					
	T1	T2		T3		T6
Temp. Range °C (°F)	301-450	201-300		136-200		85
	(547-842)	(394-572)		(277-392)		(185)

① T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

② T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

③ Lamp type is not certified for use in ATEX/IEC or NBR IEC governed locations.

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Lamp Comparison Chart

Lamp Data	Line Current Amps	Input Power	Lumens	CRI	Lamp Life (Hours)	Color Temp CCT
NEMA Type V						
MLEDN70	.31 @ 120 V	35	2300	70	60,000+	5650
	.17 @ 277 V	33				
	.24 @ 347 V	34				
	.11 @ 480 V	32				
MLEDN100	.41 @ 120 V	47.5	3450	70	60,000+	5650
	.20 @ 277 V	46				
	.25 @ 347 V	42				
	.12 @ 480 V	44				
MLEDN150	.53 @ 120 V	61	4850	70	60,000+	5650
	.25 @ 277 V	62				
	.29 @ 347 V	62				
	.14 @ 480 V	64				
MLEDN175	.63 @ 120 V	74	6076	70	60,000+	5650
	.28 @ 277 V	72				
	.25 @ 347 V	86				
	.16 @ 480 V	88				
MLEDN250 ①	.83 @ 120 V	95.5	9455	70	60,000+	5650
	.36 @ 277 V	92				
	.45 @ 347 V	96				
	.31 @ 480 V	95				
NEMA Type I						
MLEDN100 ①	.41 @ 120 V	47.5	2900	70	60,000+	5650
	.20 @ 277 V	46				
	.25 @ 347 V	47.5				
	.12 @ 480 V	46				
MLEDN175 ①	.61 @ 120 V	70	6200	70	60,000+	5650
	.28 @ 277 V	69				
	.24 @ 347 V	70				
	.16 @ 480 V	69				

Mercmaster LED Ballast and Mounting Hood Weights

Description	Weight kg (lb)
Fixture Unit (Ballast Housing)	8.8 (19.4)
Pendant Mounting Hood	1.0 (2.25)
Pendant Cone Mounting Hood	1.1 (2.50)
Ceiling Mounting Hood	1.4 (3.00)
Wall Mounting Hood	1.8 (4.00)
25° Stanchion Mounting Hood	1.5 (3.25)
90° Stanchion Mounting Hood	1.7 (3.75)

① Lamp type is not certified for use in ATEX/IEC or NBR IEC governed locations.

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	LED Wattage BU/BH	Lamp Wattage Equivalent	NEMA Type	Hub Size	Conformance	NEC/CEC Catalog Numbers ②③④⑤
Pendant — One Hub, Rigid Mounting						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNA702P5
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNA102P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	3/4	NEC/CEC	MLEDNA102P1 ①
	61/62 W	150 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNA152P5
	74/72 W	175 W PSMH	Type V	3/4	NEC/CEC	MLEDNA172P5
	70/64 W	175 W PSMH	Type I	3/4	NEC/CEC	MLEDNA172P1 ①
	95.5/92 W	250 W HPS/MH	Type V	3/4	NEC/CEC	MLEDNA252P5
	35/33 W	70 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNA703P5
	47.5/46 W	100 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNA103P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1	NEC/CEC	MLEDNA103P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNA153P5
	74/72 W	175 W PSMH	Type V	1	NEC/CEC	MLEDNA173P5
	70/64 W	175 W PSMH	Type I	1	NEC/CEC	MLEDNA173P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNA253P5
Pendant Cone — One Hub, Rigid Mounting						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDND702P5
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDND102P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	3/4	NEC/CEC	MLEDND102P1 ①
	61/62 W	150 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDND152P5
	74/72 W	175 W PSMH	Type V	3/4	NEC/CEC	MLEDND172P5
	70/64 W	175 W PSMH	Type I	3/4	NEC/CEC	MLEDND172P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDND252P5
	35/33 W	70 W HPS/PSMH	Type V	1	NEC/CEC	MLEDND703P5
	47.5/46 W	100 W HPS/PSMH	Type V	1	NEC/CEC	MLEDND103P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1	NEC/CEC	MLEDND103P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1	NEC/CEC	MLEDND153P5
	74/72 W	175 W PSMH	Type V	1	NEC/CEC	MLEDND173P5
	70/64 W	175 W PSMH	Type I	1	NEC/CEC	MLEDND173P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1	NEC/CEC	MLEDND253P5

① NEMA Type I Elliptical.

② Voltage specifications: for 120-277 Vac, 50/60 Hz universal voltages add **-BU** to the end of the catalog number. For 347-480 Vac, 50/60 Hz add **-BH** to the end of the catalog number. Example: MLEDNA702P5**BU**.

③ For optional diffused globe, add suffix **-D** to the end of the catalog number.

④ For optional fusing, add suffix **-F** to the end of the catalog number. The Canadian Electrical Code does NOT allow fusing in hazardous locations **☞**. Fuse not CEC rated.

⑤ For optional photocontrols add the appropriate suffix to the end of the catalog number: **-H1** for 120 V; **-H2** for 208 V; **-H3** for 240 V; **-H4** for 277 V. Luminaires with photocontrol are not rated IP66/67 or marine outside type (salt water). Ceiling mount luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.

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	LED Wattage BU/BH	Lamp Wattage Equivalent	NEMA Type	Hub Size	Conformance	NEC/CEC Catalog Numbers ②③④⑤
Ceiling — Five Hubs, Four Close-up Plugs						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNC702P5
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNC102P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	3/4	NEC/CEC	MLEDNC102P1 ①
	61/62 W	150 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNC152P5
	74/72 W	175 W PSMH	Type V	3/4	NEC/CEC	MLEDNC172P5
	70/64 W	175 W PSMH	Type I	3/4	NEC/CEC	MLEDNC172P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNC252P5
	35/33 W	70 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNC703P5
	47.5/46 W	100 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNC103P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1	NEC/CEC	MLEDNC103P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNC153P5
	74/72 W	175 W PSMH	Type V	1	NEC/CEC	MLEDNC173P5
	70/64 W	175 W PSMH	Type I	1	NEC/CEC	MLEDNC173P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNC253P5
Wall — Five Hubs, Four Close-Up Plugs						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNW702P5
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNW102P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	3/4	NEC/CEC	MLEDNW102P1 ①
	61/62 W	150 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNW152P5
	74/72 W	175 W PSMH	Type V	3/4	NEC/CEC	MLEDNW172P5
	70/64 W	175 W PSMH	Type I	3/4	NEC/CEC	MLEDNW172P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	3/4	NEC/CEC	MLEDNW252P5
	35/33 W	70 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNW703P5
	47.5/46 W	100 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNW103P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1	NEC/CEC	MLEDNW103P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNW153P5
	74/72 W	175 W PSMH	Type V	1	NEC/CEC	MLEDNW173P5
	70/64 W	175 W PSMH	Type I	1	NEC/CEC	MLEDNW173P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1	NEC/CEC	MLEDNW253P5

① NEMA Type I Elliptical.

② Voltage specifications: for 120-277 Vac, 50/60 Hz universal voltages add **-BU** to the end of the catalog number. For 347-480 Vac, 50/60 Hz add **-BH** to the end of the catalog number. Example: MLEDNA702P5BU.

③ For optional diffused globe, add suffix **-D** to the end of the catalog number.

④ For optional fusing, add suffix **-F** to the end of the catalog number. The Canadian Electrical Code does NOT allow fusing in hazardous locations $\forall$. Fuse not CEC rated.

⑤ For optional photocontrols add the appropriate suffix to the end of the catalog number: **-H1** for 120 V; **-H2** for 208 V; **-H3** for 240 V; **-H4** for 277 V. Luminaires with photocontrol are not rated IP66/67 or marine outside type (salt water). Ceiling mount luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Division 1, Group E, F, G
Class II, Division 2, Group F, G
Class III

NEC/CEC:

Simultaneous Exposure
Type 3R, 4X
IP66/67
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)

	LED Wattage BU/BH	Lamp Wattage Equivalent	NEMA Type	Hub Size	Conformance	NEC/CEC Catalog Numbers ②③④⑤
25° Stanchion — One Hub						
	35/33 W	70 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNS704P5
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNS104P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1-1/4	NEC/CEC	MLEDNS104P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNS154P5
	74/72 W	175 W PSMH	Type V	1-1/4	NEC/CEC	MLEDNS174P5
	70/64 W	175 W PSMH	Type I	1-1/4	NEC/CEC	MLEDNS174P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNS254P5
	35/33 W	70 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNS705P5
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNS105P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1-1/2	NEC/CEC	MLEDNS105P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNS155P5
	74/72 W	175 W PSMH	Type V	1-1/2	NEC/CEC	MLEDNS175P5
	70/64 W	175 W PSMH	Type I	1-1/2	NEC/CEC	MLEDNS175P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNS255P5
90° Stanchion — One Hub						
	35/33 W	70 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNR704P5
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNR104P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1-1/4	NEC/CEC	MLEDNR104P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNR154P5
	74/72 W	175 W PSMH	Type V	1-1/4	NEC/CEC	MLEDNR174P5
	70/64 W	175 W PSMH	Type I	1-1/4	NEC/CEC	MLEDNR174P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1-1/4	NEC/CEC	MLEDNR254P5
	35/33 W	70 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNR705P5
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNR105P5
	46.7/46.6 W	100 W HPS/PSMH	Type I	1-1/2	NEC/CEC	MLEDNR105P1 ①
	61/62 W	150 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNR155P5
	74/72 W	175 W PSMH	Type V	1-1/2	NEC/CEC	MLEDNR175P5
	70/64 W	175 W PSMH	Type I	1-1/2	NEC/CEC	MLEDNR175P1 ①
	95.5/92 W	250 W HPS/PSMH	Type V	1-1/2	NEC/CEC	MLEDNR255P5

① NEMA Type I Elliptical.

② Voltage specifications: for 120-277 Vac, 50/60 Hz universal voltages add **-BU** to the end of the catalog number. For 347-480 Vac, 50/60 Hz add **-BH** to the end of the catalog number. Example: MLEDNA702P5**BU**.

③ For optional diffused globe, add suffix **-D** to the end of the catalog number.

④ For optional fusing, add suffix **-F** to the end of the catalog number. The Canadian Electrical Code does NOT allow fusing in hazardous locations **or**. Fuse not CEC rated.

⑤ For optional photocontrols add the appropriate suffix to the end of the catalog number: **-H1** for 120 V; **-H2** for 208 V; **-H3** for 240 V; **-H4** for 277 V. Luminaires with photocontrol are not rated IP66/67 or marine outside type (salt water). Ceiling mount luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Division 1, Group E, F, G
Class II, Division 2, Group F, G
Class III

NEC/CEC:

Simultaneous Exposure
Type 3R, 4X
IP66/67
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)

Fixture Unit — Electrical Specification



LED Wattage BU/BH	Light Level Equivalent	NEMA Type	Current Draw	Catalog Number		Conformance	Voltage Range	Voltage Suffix
				Fuse Kit ①	Fixture Unit			
NEC/CEC Certified Ballast Housing								
35/33 W	70 W HPS	Type V	120 Vac @ .31 Amps 277 Vac @ .17 Amps	F3	MLEDN70P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
34/32 W	70 W HPS	Type V	347 Vac @ .24 Amps 480 Vac @ .11 Amps	F3	MLEDN70P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
47.5/46 W	100 W HPS	Type V	120 Vac @ .41 Amps 277 Vac @ .20 Amps	F3	MLEDN10P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
47.5/46 W	100 W HPS	Type I	120 Vac @ .41 Amps 277 Vac @ .20 Amps	F3	MLEDN10P1	NEC/CEC	120-277 Vac, 50/60 Hz	BU
42/44 W	100 W HPS	Type V	347 Vac @ .25 Amps 480 Vac @ .12 Amps	F3	MLEDN10P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
47.5/46 W	100 W HPS	Type I	347 Vac @ .25 Amps 480 Vac @ .12 Amps	F3	MLEDN10P1	NEC/CEC	347-480 Vac, 50/60 Hz	BH
61/62 W	150 W HPS	Type V	120 Vac @ .53 Amps 277 Vac @ .25 Amps	F3	MLEDN15P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
62/64 W	150 W HPS	Type V	347 Vac @ .29 Amps 480 Vac @ .14 Amps	F3	MLEDN15P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
74/72 W	175 W PSMH	Type V	120 Vac @ .63 Amps 277 Vac @ .28 Amps	F3	MLEDN17P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
70/69 W	175 W PSMH	Type I	120 Vac @ .61 Amps 277 Vac @ .28 Amps	F3	MLEDN17P1	NEC/CEC	120-277 Vac, 50/60 Hz	BU
86/88 W	175 W PSMH	Type V	347 Vac @ .25 Amps 480 Vac @ .16 Amps	F3	MLEDN17P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
70/69 W	175 W PSMH	Type I	347 Vac @ .24 Amps 480 Vac @ .16 Amps	F3	MLEDN17P1	NEC/CEC	347-480 Vac, 50/60 Hz	BH
95.5/92 W	250 W HPS/PSMH	Type V	120 Vac @ .83 Amps 277 Vac @ .36 Amps	F3	MLEDN25P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
96/95 W	250 W HPS/PSMH	Type V	347 Vac @ .45 Amps 480 Vac @ .31 Amps	F3	MLEDN25P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH

① Canadian Electrical Code does NOT allow fusing in hazardous locations ✖. Fuse not CEC rated.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NBR IEC:
Zone 2 and 22
Ex nA IIC Gc
Ex tc IIIC Dc
IP66

	LED Wattage	Lamp Wattage Equivalent	NEMA Type	Hub Size	Conformance	NBR IEC Catalog Numbers ①
Pendant — One Hub, Rigid Mounting						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAA702P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAA102P5BU
	61/62 W	150 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAA152P5BU
	74/72 W	175 W PSMH	Type V	3/4	NBR IEC	NMLEDNAA172P5BU
	35/33 W	70 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAA703P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAA103P5BU
	61/62 W	150 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAA153P5BU
	74/72 W	175 W PSMH	Type V	1	NBR IEC	NMLEDNAA173P5BU
Pendant Cone — One Hub, Rigid Mounting						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAD702P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAD102P5BU
	61/62 W	150 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAD152P5BU
	74/72 W	175 W PSMH	Type V	3/4	NBR IEC	NMLEDNAD172P5BU
	35/33 W	70 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAD703P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAD103P5BU
	61/62 W	150 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAD153P5BU
	74/72 W	175 W PSMH	Type V	1	NBR IEC	NMLEDNAD173P5BU
Ceiling — Five Hubs, Four Close-up Plugs						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAC702P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAC102P5BU
	61/62 W	150 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAC152P5BU
	74/72 W	175 W PSMH	Type V	3/4	NBR IEC	NMLEDNAC172P5BU
	35/33 W	70 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAC703P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAC103P5BU
	61/62 W	150 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAC153P5BU
	74/72 W	175 W PSMH	Type V	1	NBR IEC	NMLEDNAC173P5BU

① For optional diffused globe, add suffix **-D** to the end of the catalog number.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NBR IEC:
Zone 2 and 22
Ex nA IIC Gc
Ex tc IIIC Dc
IP66

	LED Wattage	Lamp Wattage Equivalent	NEMA Type	Hub Size	Conformance	NBR IEC Catalog Numbers ①
Wall — Five Hubs, Four Close-Up Plugs						
	35/33 W	70 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAW702P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAW102P5BU
	61/62 W	150 W HPS/PSMH	Type V	3/4	NBR IEC	NMLEDNAW152P5BU
	74/72 W	175 W PSMH	Type V	3/4	NBR IEC	NMLEDNAW172P5BU
	35/33 W	70 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAW703P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAW103P5BU
	61/62 W	150 W HPS/PSMH	Type V	1	NBR IEC	NMLEDNAW153P5BU
	74/72 W	175 W PSMH	Type V	1	NBR IEC	NMLEDNAW173P5BU
25° Stanchion — One Hub						
	35/33 W	70 W HPS/PSMH	Type V	1-1/4	NBR IEC	NMLEDNAS704P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/4	NBR IEC	NMLEDNAS104P5BU
	61/62 W	150 W HPS/PSMH	Type V	1-1/4	NBR IEC	NMLEDNAS154P5BU
	74/72 W	175 W PSMH	Type V	1-1/4	NBR IEC	NMLEDNAS174P5BU
	35/33 W	70 W HPS/PSMH	Type V	1-1/2	NBR IEC	NMLEDNAS705P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/2	NBR IEC	NMLEDNAS105P5BU
	61/62 W	150 W HPS/PSMH	Type V	1-1/2	NBR IEC	NMLEDNAS155P5BU
	74/72 W	175 W PSMH	Type V	1-1/2	NBR IEC	NMLEDNAS175P5BU
90° Stanchion — One Hub						
	35/33 W	70 W HPS/PSMH	Type V	1-1/4	NBR IEC	NMLEDNAR704P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/4	NBR IEC	NMLEDNAR104P5BU
	61/62 W	150 W HPS/PSMH	Type V	1-1/4	NBR IEC	NMLEDNAR154P5BU
	74/72 W	175 W PSMH	Type V	1-1/4	NBR IEC	NMLEDNAR174P5BU
	35/33 W	70 W HPS/PSMH	Type V	1-1/2	NBR IEC	NMLEDNAR705P5BU
	47.5/46 W	100 W HPS/PSMH	Type V	1-1/2	NBR IEC	NMLEDNAR105P5BU
	61/62 W	150 W HPS/PSMH	Type V	1-1/2	NBR IEC	NMLEDNAR155P5BU
	74/72 W	175 W PSMH	Type V	1-1/2	NBR IEC	NMLEDNAR175P5BU

① For optional diffused globe, add suffix **-D** to the end of the catalog number.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

ATEX/IECEX:
Zone 2 and 22
II 2 GD
IP66/67

NBR IEC:
Zone 2 and 22
Ex nA IIC Gc
Ex tc IIC Dc
IP66

Fixture Unit — Electrical Specification



LED Wattage BU	Light Level Equivalent	NEMA Type	Current Draw	Fixture Unit Catalog Number	Conformance	Voltage Range	Voltage Suffix
ATEX/IECEX Certified Ballast Housing ①							
35/33 W	70 W HPS	Type V	120 Vac @ .31 Amps 277 Vac @ .17 Amps	MLEDNA70P5	ATEX/IECEX	120-277 Vac, 50/60 Hz	BU
47.5/46 W	100 W HPS	Type V	120 Vac @ .41 Amps 277 Vac @ .20 Amps	MLEDNA10P5	ATEX/IECEX	120-277 Vac, 50/60 Hz	BU
61/62 W	150 W HPS	Type V	120 Vac @ .53 Amps 277 Vac @ .25 Amps	MLEDNA15P5	ATEX/IECEX	120-277 Vac, 50/60 Hz	BU
74/72 W	175 W PSMH	Type V	120 Vac @ .63 Amps 277 Vac @ .28 Amps	MLEDNA17P5	ATEX/IECEX	120-277 Vac, 50/60 Hz	BU
NBR IEC Certified Ballast Housing							
35/33 W	70 W HPS	Type V	120 Vac @ .31 Amps 277 Vac @ .17 Amps	NMLEDNA70P5	NBR IEC	120-277 Vac, 50/60 Hz	BU
47.5/46 W	100 W HPS	Type V	120 Vac @ .41 Amps 277 Vac @ .20 Amps	NMLEDNA10P5	NBR IEC	120-277 Vac, 50/60 Hz	BU
61/62 W	150 W HPS	Type V	120 Vac @ .53 Amps 277 Vac @ .25 Amps	NMLEDNA15P5	NBR IEC	120-277 Vac, 50/60 Hz	BU
74/72 W	175 W PSMH	Type V	120 Vac @ .63 Amps 277 Vac @ .28 Amps	NMLEDNA17P5	NBR IEC	120-277 Vac, 50/60 Hz	BU

① For ATEX/IECEX rated fixtures, ballast bodies and mounting hoods must be purchased separately.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

Mounting Hoods ①					
		Description	Hub Size	Catalog Number	
				NEC/CEC and ATEX/IEC	NBR IEC
Pendant					
	One Hub, Rigid Mounting	3/4	KPA-75	NKPA-75	
		1	KPA-100	NKPA-100	
		M20	KPA-M20	NKPA-M20	
Pendant Cone					
	One Hub, Rigid Mounting	3/4	KPCH-75	NKPCH-75	
		1	KPCH-100	NKPCH-100	
		M20	KPCH-M20	NKPCH-M20	
Ceiling					
	Five Hubs, Four Close-Up Plugs	3/4	KPC-75	NKPC-75	
		1	KPC-100	NKPC-100	
		M20	KPC-M20	NKPC-M20	
Wall					
	Five Hubs, Four Close-Up Plugs	3/4	KPWB-75	NKPWB-75	
		1	KPWB-100	NKPWB-100	
		M20	KPWB-M20	NKPWB-M20	
25° Stanchion					
	One Hub	1-1/4	KPS-125	NKPS-125	
		1-1/2	KPS-150	NKPS-150	
90° Stanchion					
	One Hub	1-1/4	KPST-125	NKPST-125	
		1-1/2	KPST-150	NKPST-150	

① For ATEX/IECEx rated fixtures, ballast bodies and mounting hoods must be purchased separately.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

Replacement Parts

Description	Catalog Number	
	NEC/CEC and ATEX/IEC	NBR IEC

Globes and Gaskets



Clear Globe

VPGL-LED

NVPGL-LED



Diffused Globe

VPGL-DIFF

NVPGL-DIFF



Globe Gasket — Silicone Rubber

KRF-GK

NKRF-GK

Description	NEC/CEC	Catalog Number	
		ATEX/IEC	NBR IEC

LED Array

100 Watt LED Array Assembly, Type 1, White LED's

MLEDN10A1W

MLEDN10A1W

NMLEDN10A1W

175 Watt LED Array Assembly, Type 1, White LED's

MLEDN17A1W

MLEDN17A1W

NMLEDN17A1W

70 Watt LED Array Assembly, Type 5, White LED's

MLEDN70A5W

MLEDN70A5W

NMLEDN70A5W

100 Watt LED Array Assembly, Type 5, White LED's

MLEDN10A5W

MLEDN10A5W

NMLEDN10A5W

150 Watt LED Array Assembly, Type 5, White LED's

MLEDN15A5W

MLEDN15A5W

NMLEDN15A5W

175 Watt LED Array Assembly, Type 5, White LED's

MLEDN17A5W

MLEDN17A5W

NMLEDN17A5W

250 Watt LED Array Assembly, Type 5, White LED's

MLEDN25A5W

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Drivers

120/277 V Driver

MLEDNDBU

MLEDNDBU

NMLEDNDBU

347/480 V Driver

MLEDNDBH

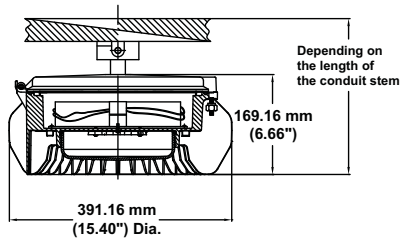
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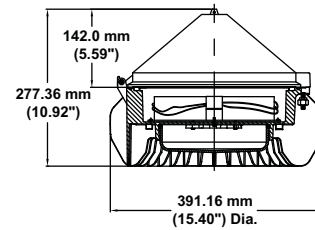
Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

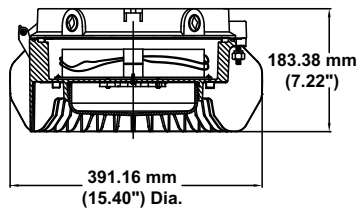
Dimensions in Millimeters (Inches)



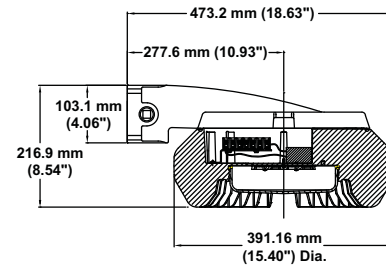
Pendant Mount



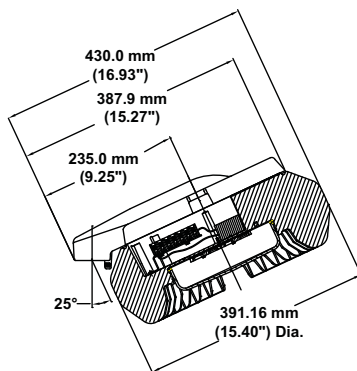
Pendant Cone Mount



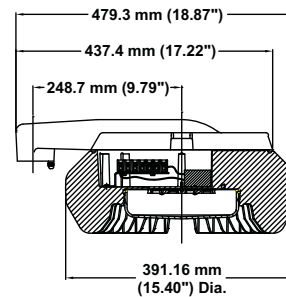
Ceiling Mount



Wall Mount



25° Stanchion Mount



90° Stanchion Mount

PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

For Use in Class I, Division 2, Groups A, B, C, D Locations

Maintains Class I, Division 2 rating for Mercmaster III, Mercmaster III Low Profile, Mercmaster III 50-250 and 400 Series Luminaires; Mercmaster LED Series.

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, Mercmaster III Low Profile, Mercmaster III 50-250 and 400 Series Luminaires; Mercmaster LED Series.
- 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, fluorescent and LED, 50/60 Hz.
- 1000 VA Voltage/Ampere
- Minimum time delay: 15 seconds to eliminate nuisance tripping.

- Provided with (3) 18AWG stranded leads 152.4 mm (6") in length.
- Will fit through standard 1/2" knockout.

Materials

- Encapsulated with epoxy sealing compound
- FS: aluminum

Certifications and Compliances

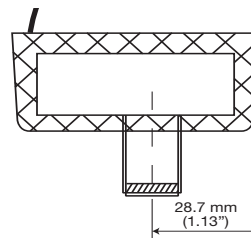
- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized

Factory-Installed Photocontrol

Add to fixture catalog after voltage; i.e.: **KPWBL1075MTH1**.

	Voltage Range	Suffix Designation
	120 V, 50/60 Hz	H1
	208 V, 50/60 Hz	H2
	240 V, 50/60 Hz	H3
	277 V, 50/60 Hz	H4

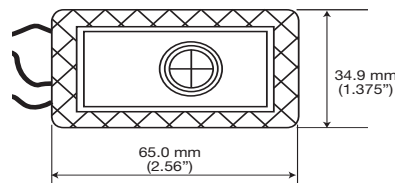
Dimensions



Photocontrol in FS Cover for Use with FS/FD Box

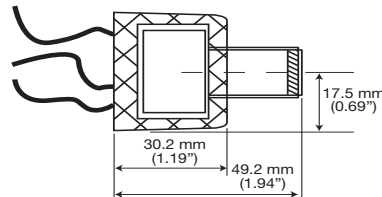
Supplied with two stainless steel screws. For neoprene gasket, order catalog number **FS-GKR-1N**.

	Voltage Range	Catalog Number
	120V, 50/60 Hz	FSKA-PC120D2
	208-277V, 50/60 Hz	FSKA-PC247D2



Photocontrol for Field Installation

	Voltage Range	Max. Current	Catalog Number
	120 V, 50/60 Hz	8.3 Amp	PC120D2
	208-277 V, 50/60 Hz	3.5 Amp	PC247D2



① Fixtures with photocontrols are not rated IP66/67.

Fixtures with PCD2 photocontrols are not certified for use in ATEX/IEC or NBR IEC governed locations.

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

Photometric Data — DATA SHOWN IS ABSOLUTE

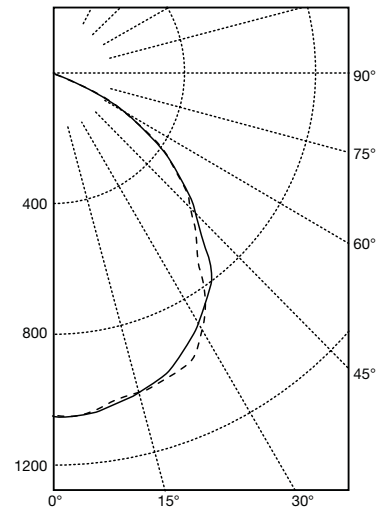
REPORT NUMBER: **MLEDN70P5BU**

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution						
	0.0	22.5	45.0	67.5	90.0	Flux
0	1054	1054	1054	1054	1054	
5	1048	1047	1051	1047	1048	100
15	1016	1014	1016	1014	1016	287
25	977	961	941	961	977	442
35	805	779	824	779	805	497
45	583	607	603	607	583	465
55	408	425	411	425	408	358
65	185	146	139	146	185	133
75	5	5	4	5	5	9
85	1	0	0	0	1	1
90	0	0	0	0	0	

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	829	36.1
0-40	1326	57.7
0-60	2149	93.5
0-90	2292	99.7

CIE Type – Direct	
Plane	Spacing Criteria
0-Deg	90-Deg
1.3	1.3



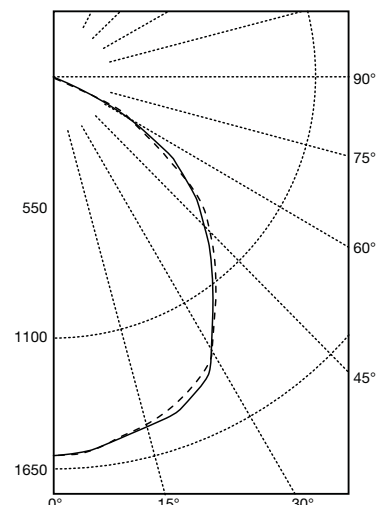
REPORT NUMBER: **MLEDN10P5BU**

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution						
	0.0	22.5	45.0	67.5	90.0	Flux
0	1580	1580	1580	1580	1580	
5	1569	1568	1568	1568	1569	149
15	1509	1510	1513	1510	1509	427
25	1412	1414	1437	1414	1412	655
35	1177	1215	1171	1215	1177	748
45	934	915	893	915	934	707
55	577	588	632	588	577	527
65	228	218	195	218	228	209
75	6	7	6	7	6	13
85	0	0	0	0	0	1
90	0	0	0	0	0	

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1231	35.8
0-40	1980	57.6
0-60	3213	93.5
0-90	3438	100.0

CIE Type – Direct	
Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

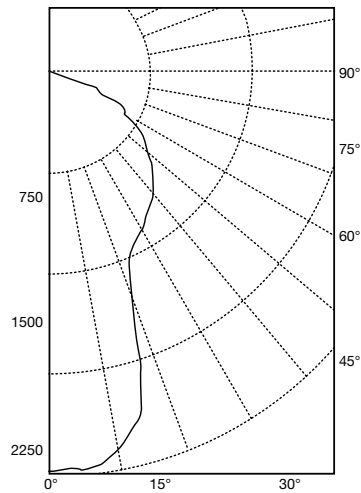
Photometric Data — DATA SHOWN IS ABSOLUTE

REPORT NUMBER: **MLEDN10P1BU (NEMA Type I)**

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution		CIE Type – Direct	
Zone	Lumen	Plane	Spacing Criteria
0-10	276.95	0-Deg	90-Deg
10-20	715.67	0.74	0.74
20-30	650.02		
30-40	492.78		
40-50	369.94		
50-60	232.10		
60-70	127.75		
70-80	22.49		
80-90	2.23		

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-20	992.62	34.3
0-30	1642.65	56.8
0-40	2135.42	73.8
0-60	2737.46	94.7
0-80	2887.70	99.8
0-90	2889.93	99.9



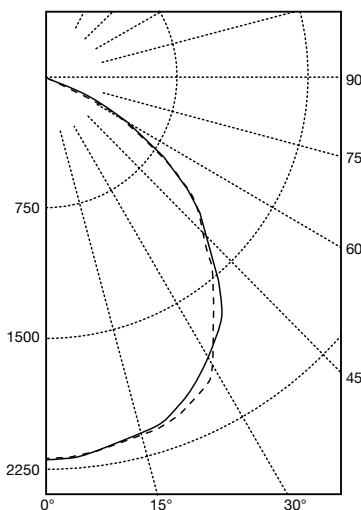
REPORT NUMBER: **MLEDN15P5BU**

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution						
	0.0	22.5	45.0	67.5	90.0	Flux
0	2208	2208	2208	2208	2208	
5	2202	2195	2197	2195	2202	209
15	2137	2131	2127	2131	2137	603
25	2045	2003	1977	2003	2045	926
35	1669	1658	1735	1658	1669	1051
45	1252	1282	1297	1282	1252	988
55	836	850	838	850	834	746
65	276	307	333	307	276	298
75	16	12	11	12	16	22
85	2	1	1	1	2	2
90	1	0	0	0	1	

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1738	35.8
0-40	2789	57.5
0-60	4523	93.3
0-90	4844	99.9

CIE Type – Direct	
Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

Photometric Data — DATA SHOWN IS ABSOLUTE

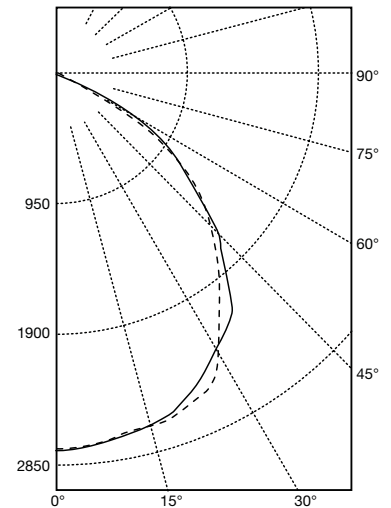
REPORT NUMBER: **MLEDN17P5BU**

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution						
	0.0	22.5	45.0	67.5	90.0	Flux
0	2739	2739	2739	2739	2739	
5	2724	2724	2725	2724	2724	259
15	2660	2658	2655	2658	2660	752
25	2553	2508	2462	2508	2553	1156
35	2069	2062	2201	2062	2069	1312
45	1580	1614	1655	1614	1580	1243
55	1047	1093	1046	1093	1047	943
65	353	380	391	380	353	378
75	19	15	16	15	19	28
85	2	1	1	1	2	2
90	1	0	0	0	1	

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	2167	35.7
0-40	3478	57.2
0-60	5664	93.2
0-90	6072	99.9

CIE Type – Direct	
Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2

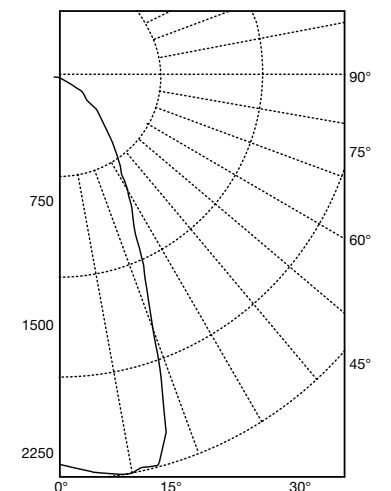


REPORT NUMBER: **MLEDN17P1BU (NEMA Type I)**

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution		CIE Type – Direct	
Zone	Lumen	Plane	Spacing Criteria
0-10	546.35	0-Deg	90-Deg
10-20	1546.51	0.84	0.84
20-30	1410.19		
30-40	1071.42		
40-50	791.23		
50-60	524.94		
60-70	261.82		
70-80	44.42		
80-90	3.81		

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-20	2092.86	33.70
0-30	3503.05	56.50
0-40	4574.48	73.70
0-60	5890.65	94.90
0-80	6196.88	99.90
0-90	6200.69	99.90



Lighting — LED

NEC/CEC ENCLOSED AND GASKETED CLASS/ZONE AND ATEX/IEC/NBR IEC ZONE 2 RATED — AREA — LED

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

Photometric Data — DATA SHOWN IS ABSOLUTE

REPORT NUMBER: **MLEDN250P5BU** ①

Lamps: Mercmaster LED, Class I, Division 2, Polycarbonate Optic

Candela Distribution

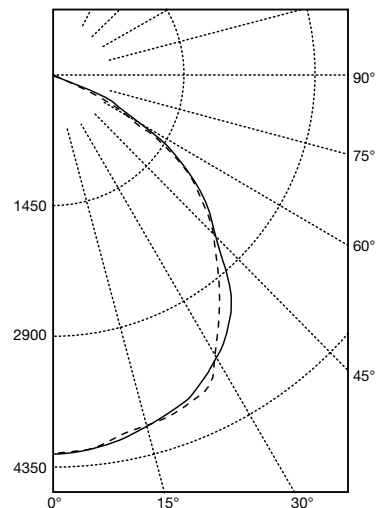
	0.0	22.5	45.0	67.5	90.0	Flux
0	4206	4206	4206	4206	4206	
5	4170	4182	4177	4182	4170	397
15	4035	4046	4038	4046	4035	1145
25	3913	3888	3829	3888	3913	1784
35	3211	3233	3380	3233	3211	2046
45	2484	2524	2532	2524	2484	1942
55	1710	1763	1708	1763	1710	1530
65	682	564	606	564	682	568
75	20	18	17	18	20	31
85	2	1	1	1	2	2
90	1	1	0	1	1	

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	3326	35.2
0-40	5372	56.8
0-60	8844	93.5
0-90	9445	99.9

CIE Type – Direct

Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



**THORNE &
DERRICK**
INTERNATIONAL

Thorne & Derrick
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www.heatingandprocess.com

① Lamp type is not certified for use in ATEX/IEC or NBR IEC governed locations.