

ATX™ LDP Series Wellglass Luminaires

Flameproof. Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX:
Zone 1 and 2 – 21 and 22
II 2 GD
IP66 – IK08



THORNE &
DERRICK
INTERNATIONAL

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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 mm² (0.0039 in²) or to terminal block
 - 2 x 2.5 mm² (0.0039 in²) 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 dm³ (122 in³) - 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

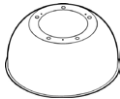
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Flameproof Wellglass Luminaires for Hazardous Areas – Ex d IIC – LDP Series

Cable Entries	Weight kg (lb)	Volume dm ³ (in ³)	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 ³ (in ³)	Catalog Number
Protective Guard			
 Zinc plated steel protective guard	0.4 (0.88)	97.0 (5919.30)	LDPG3Z
Hinged Bracket			
 Zinc plated steel hinged bracket for installation on flat surface	1.4 (3.09)	3.5 (213.58)	LDPHBZ
External Reflector			
 External white polyester reflector	3.2 (7.05)	97.0 (5919.30)	LDER1P

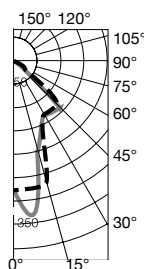
Photometric Data

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

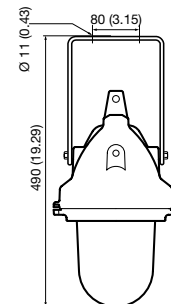
CANDELA DISTRIBUTION

	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

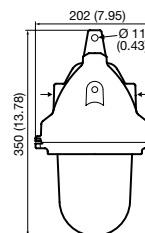


--- Longitudinal
— Transverse

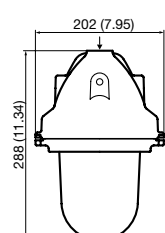
Dimensions in Millimeters (Inches)



Side Cable Entries with Hinged Bracket



Side Cable Entries



Top Cable Entry