FDL Series - LED Floodlight

Vapor / Dust Proof Lighting

Class I — Division 2, Groups A, B, C and D
Class II — Division 2, Groups F and G
- UL1598 For Marine Locations
- UL844
- IP66, Wet Location, NEMA 4X

Contact your Thomas & Betts sales representative to verify classification.

Features

- Energy efficient alternative to hazardous location metal halide and high pressure sodium
- Designed for outdoor, hazardous, Marine, low-bay and flood applications
- Natural unpainted coat finish standard
- Type V multiple distribution patterns available: Frosted film, 16°, 70°, and 120°
- CCT of 5000K
- Selection of mounting style
- Tamper-proof screws
- 5 year warranty
- > 120K Hours (rated lifetime projection L70)

Construction

- Cooper-free cast aluminum housing
- Captive stainless steel fasteners and insert
- 24 high-power LED's

Electrical

- 55W (6,400 Lumens), 82W (9,000 Lumens), 107W (11,000 Lumens)
- 120-277VAC, 277-480VAC (FDL05 model only)

Options

- Mounting: Ceiling, pendant, yoke, wall, straight or angled stanchion
- Cord with blunt end
- Lens guard
- Gray, black or white powder coat finish

T-Ratings

MODEL	RATED AMBIENT °C	CLASS I, DIV 2 OPERATING TEMPERATURE CODE	CLASS II, DIV 2 OPERATING TEMPERATURE CODE
FDL05	50°C	T3C (160°C)	T5 (100°C)
FDL08	50°C	T3C (160°C)	T5 (100°C)
FDL10	50°C	T3C (160°C)	T5 (100°C)

Catalog Ordering Numbering System

Example

FDL	10	UN	Y1	–	M	LG
1	2	3	4		5	6

EQUIVALENT HID (METAL HALIDE) WATTS*

LED	METAL HALIDE
55	100
82	150
107	250

* *For Reference Only*

1 Fixture Series

- **FDL** = Hazlux Floodlights LED Class I Div 2

2 Lumen

- **05** = 6,400 Lumen (55 Watts)
- **08** = 9,000 Lumen (82 Watts)
- **10** = 11,000 Lumen (107 Watts)

3 Voltage

- **UN** = 120-277V
- **UN2** = 277-480V (on FDL 05 models only)

4 Mounting Style

- **C1** = Ceiling ½"
- **C2** = Ceiling ¾"
- **P2** = Pendant ¾"
- **Y1** = Yoke mount ½"
- **B3** = Wall mount 1"
- **L4** = Stanchion 1¼"
- **S4** = Angled stanchion 1¼"
- **L5** = Stanchion 1½"
- **S5** = Angled stanchion 1½"

5 Optics

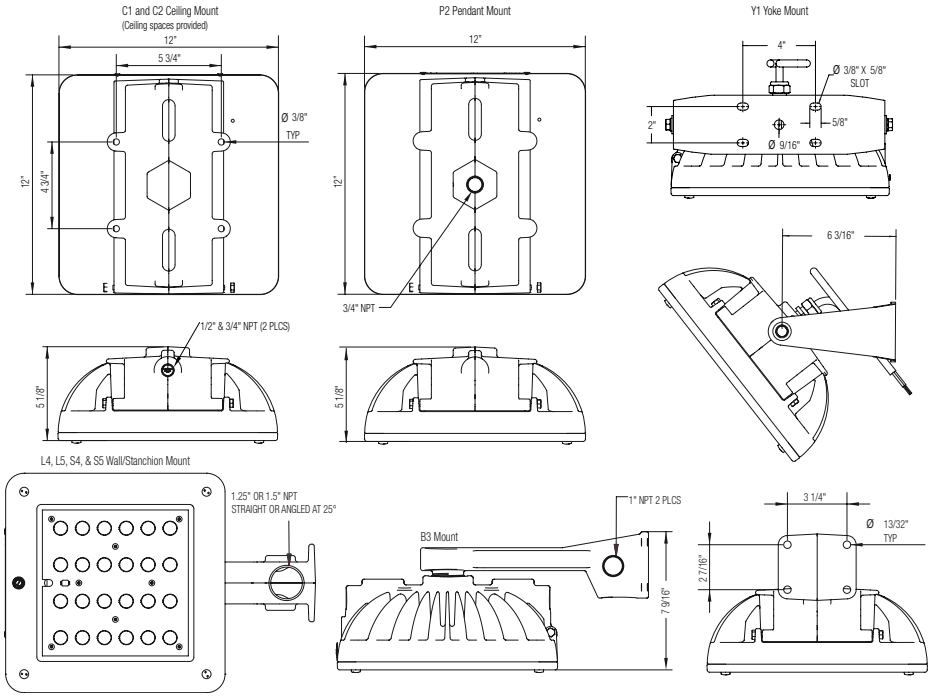
- **F** = Frosted film
- **N** = Narrow 16° FWHM
- **M** = Medium 70° FWHM
- **W** = Wide 120° FWHM

6 Options

- **LG** = Lens guard
- **PW** = Pre-wired 3ft cord with blunt end*
- **GRY** = Gray powder coat finish
- **BLK** = Black powder coat finish
- **WHT** = White powder coat finish

(*) Y1 mount only

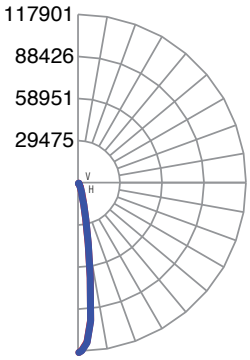
Dimensions



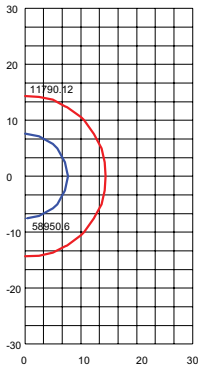
Reference Data

CATALOG NO.	FDL10UNC1-N
Luminaire Lumens	12,059
Input Watt	107
NEMA Type	2 H x 2 V
Maximum Candela	117901
Maximum Candela Angle	OH OV
Horizontal Beam Angle (50%)	15.3
Verticle Beam Angle (50%)	15.2
Horizontal Field Angle (10%)	28.6
Vertical Field Angle (10%)	28.3

Axial Candela Display



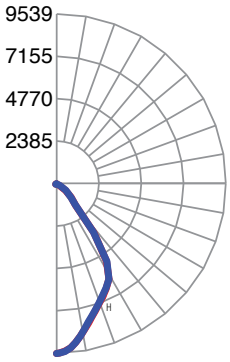
Isocandela Curves



Reference Data

CATALOG NO.	FDL10UNC1-M
Luminaire Lumens	10,714
Input Watt	107
NEMA Type	6 H x 6 V
Maximum Candela	9539.4
Maximum Candela Angle	OH OV
Horizontal Beam Angle (50%)	68.2
Verticle Beam Angle (50%)	68.2
Horizontal Field Angle (10%)	100.1
Vertical Field Angle (10%)	100.5

Axial Candela Display



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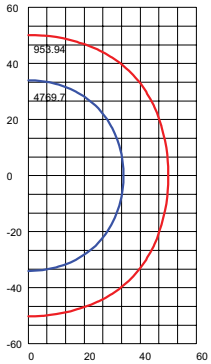
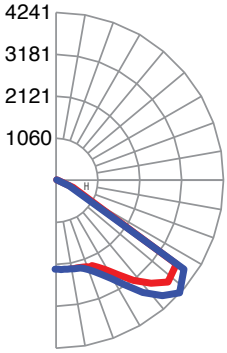
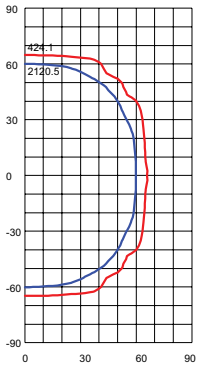


Reference Data

CATALOG NO.	FDL10UNC1-W
Luminaire Lumens	11,025
Input Watt	107
NEMA Type	6 H x 6 V
Maximum Candela	4241
Maximum Candela Angle	OH -47.5V
Horizontal Beam Angle (50%)	87.3
Verticle Beam Angle (50%)	120.2
Horizontal Field Angle (10%)	106.4
Vertical Field Angle (10%)	129.6

Axial Candela Display



Isocandela Curves