

Durable Lighting Made for Industrial Safety



Hazardous Location LED Luminaire FLD Series (Surface Mounting Type)

UL844 Version
Specsheet-2023-11 EN



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FLD12



FLD14



FLD22



FLD24



Product Description

The FLD Series LED fixture is the ideal choice for marine and hazardous applications requiring a linear design. Available in four common sizes, the FLD series is certified for use in Zone 2 hazardous area, as well as Class I, Division 2 locations. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts.

Features

- Emergency function is optional with emergency time at least 90 minutes
- Outstanding water and dust proof performance (IP66)
- High luminous efficacy - up to 130 lumens per watt
- Quick and easy installation
- Glass diffuser comes with wire guard part for safety

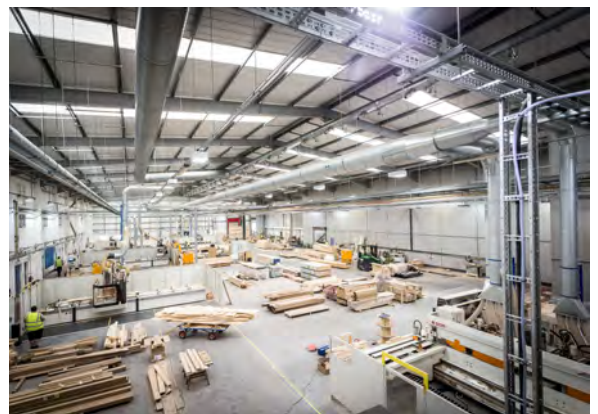
Compliance

UL 844 Hazardous Locations
Class I Division 2, Group A, B, C, D
Class I, Zone 2, Group IIA, IIB, IIC
UL 1598 Wet Locations
UL 924 Emergency Lighting
ETL
IP66
IK10



Application

- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where flammable vapors, gases, ignitable dusts, or fibers are present
- Where corrosive, wet, dusty, hot and/or cold conditions exist
- Marine, wet locations and hose-down environments
- Manufacturing plants, chemical or pharmaceutical facilities, loading platforms, food and alcohol factories, paper mills



Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours@55°C

Technical Parameter

• Electrical

Specification	EX-xxxW FLD12*YZD	EX-xxxW FLD14*YZD	EX-xxxW FLD22*YZD	EX-xxxW FLD24*YZD
Rated Power in Normal Mode	15/20/25/30/35/40/50W	15/20/25/30/35/40/50/60/70/80/90/100W	15/20/25/30/35/40/50/60/70/80/90/100W	15/20/25/30/35/40/50/60/70/80/90/100/120/150/180/200W
Rated Power in Emergency Mode	8W			
Input Voltage	AC120-277V/AC200-480V			
Input Frequency	50-60Hz			
Emergency Time	>90 minutes			
Power Supply	Built-in power supply			
Power Protection	Over-voltage, over-current and short-circuit protection			

• Optical

Specification	EX-xxxW FLD12*YZD	EX-xxxW FLD14*YZD	EX-xxxW FLD22*YZD	EX-xxxW FLD24*YZD
Lumen Output	2,600-6,500lm	2,600-13,000lm	2,600-13,000lm	13,000-26,000lm
Lumens Per Watt	130lm/W			
Beam Angle	120°			
CCT	2700K/3000K/3500K/4000K/5000K/5700K/6500K			

• Mechanical

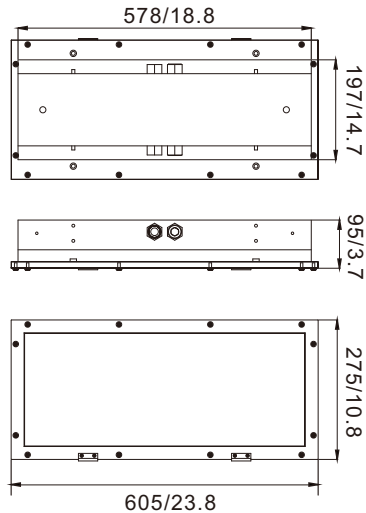
Specification	EX-xxxW FLD12*YZD	EX-xxxW FLD14*YZD	EX-xxxW FLD22*YZD	EX-xxxW FLD24*YZD
Housing Material	SUS304/SUS316/SPCC/AI6063			
Diffuser	PC/Glass (Notice: Glass diffuser comes with wire guard part for safety)			
Waterproof Sealing Ring	Polytetrafluoroethylene			
Hardware	Stainless steel			
Finish	Powder coating			
Protection	IP66/IK10			
Mounting	Pendant, Ceiling			

• Ambient Temperature

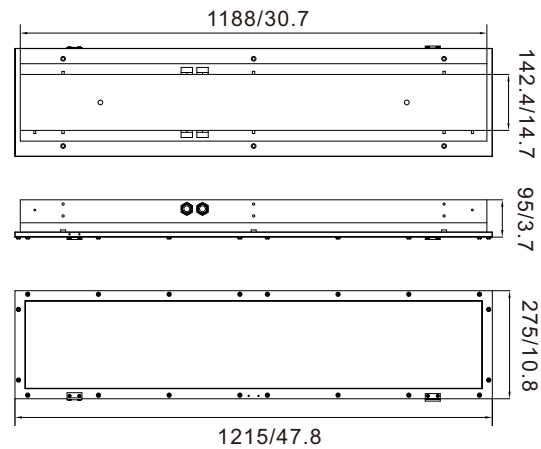
Ambient Temp.	-40°C to +40/55/66°C
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Product Dimensions (mm/inch)

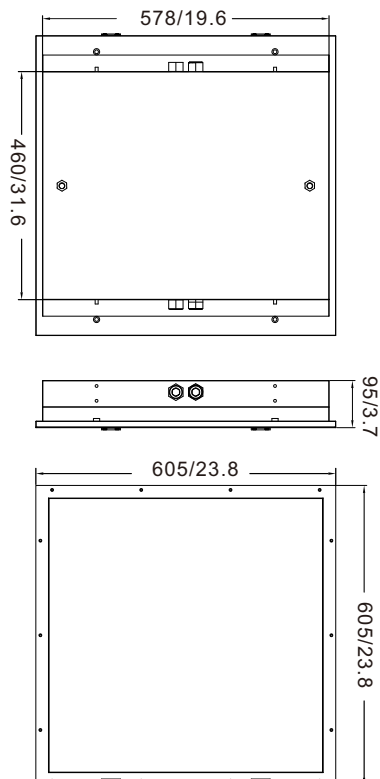
EX-xxxW FLD12*YZD



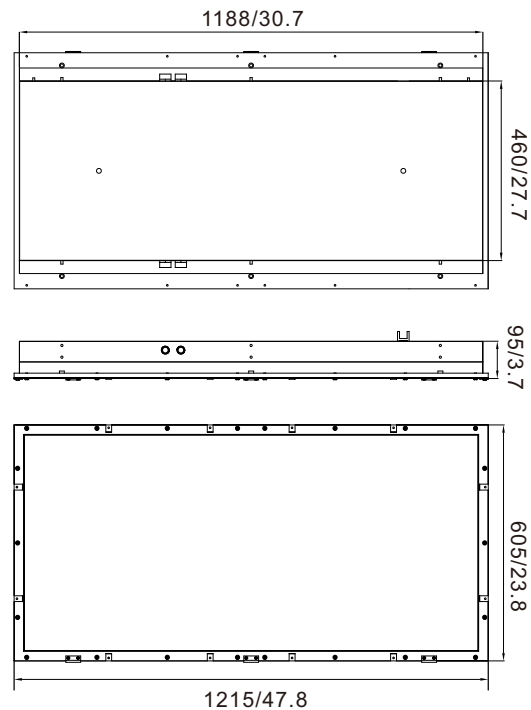
EX-xxxW FLD14*YZD



EX-xxxW FLD22*YZD



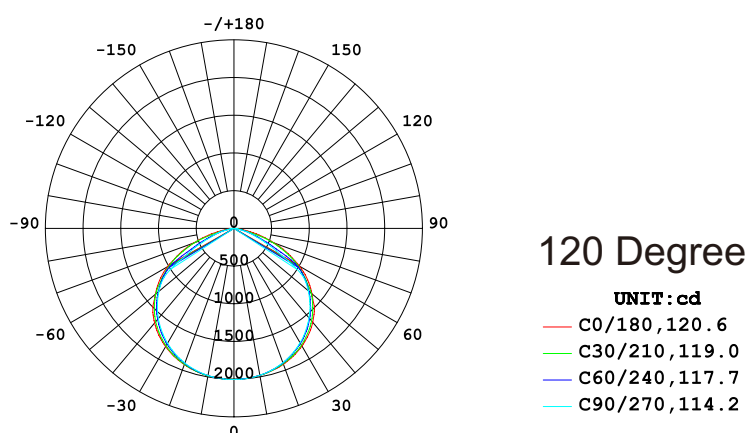
EX-xxxW FLD24*YZD



• Packing Information

Model	Product Dimensions (LxWxH)	Quantity/Carton	Gross Weight	Package Dimensions (LxWxH)
FLD12	605x275x95mm/ 23.8X10.8X3.7inch	1 pc	9kg/19.8lb	700x350x175mm/27.6x13.8x6.9inch
FLD14	275x1215x95mm/1.8x47.8x3.7inch	1 pc	20kg/44lb	1320x350x175mm/52x13.8x6.9inch
FLD22	605x605x95mm/23.8x23.8x3.7inch	1 pc	21kg/46.3lb	700x680x175mm/27.6x26.8x6.9inch
FLD24	605x1215x95mm/23.8x47.8x3.7inch	1 pc	40kg/88.2lb	1320x680x175mm/52x26.8x6.9inch

Photometric



Ordering Guide

EX - xxxW FLD xx * Y Z D

1 2 3 4 5 6 7

1. Model Series Name	2. Wattage	3. Basic Model Series Name
“EX” = Explosion Proof Light	FLD12: 15/20/25/30/35/40/50W FLD14: 15/20/25/30/35/40/50/60/70/80/90/100W FLD22: 15/20/25/30/35/40/50/60/70/80/90/100W FLD24: 15/20/25/30/35/40/50/60/70/80/90/100/120/150/180/200W	FLD

4. Overall Dimension of Housing	5. Dimming	6. Color Temperature	7. Beam Angle
“12” = 1 ft x 2 ft “22” = 2 ft x 2 ft “14” = 1 ft x 4 ft “24” = 2 ft x 4 ft	“Y” Can be: “D” = Dimmable	“27” = 2700K, “30” = 3000K “35” = 3500K, “40” = 4000K “50” = 5000K, “57” = 5700K “65” = 6500K	D120=120 degrees

Mounting Methods and Accessories

- Pendant Mounting



- Accessories (Standard)



Lifting Ring



Hanging Chain

- Ceiling Mounting



- Accessories (Standard)

