



FLF Series

Explosion Proof Linear Light





Product Description

The FLF Series LED fixture is the ideal choice for marine and hazardous applications requiring a linear design. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected.

Features two wiring accesses on each side of the fixture, wiring is available from both side, which means that it is more flexible to meet different installation requirements, such as multiple lamps installed side by side. Additionally, the lamp can be directly powered from the mains electricity.

Features

- Suitable for use in Class I, Division 2 and Zone 2
- High luminous efficacy - Up to 120-140 lumens per watt
- 0-10V dimming
- Available in 5 lengths
- Beam angles are optional from 40°, 60°, 90°, and 120°
- Smooth housing for easy cleaning
- Emergency model optional - 1.5 hours emergency time
- Robust design rated with IP66/IK10
- Constructed of non-sparking materials for protection in flammable work sites
- Wiring is available from both side of the fixture, flexible for varied installation requirements and the lamp can be directly powered from the mains electricity

Compliance

UL 844 Hazardous Locations
Class I Division 2, Group A, B, C, D
Class I, Zone 2, Group IIC
UL 924 Emergency Lighting
CSA C22.2#141-15, Ed.5
CSA C22.2#137:2018 Ed.2
ABS
ETL
IP66
IK10
500 hours salt spray



Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry



Warranty

5-Year Standard Warranty
LED lumen Maintenance: L70> 150,000 Operation Hours@55°C



Technical Parameter

• Electrical

Specification	FLF2	FLF3	FLF4	FLF5
Rated Power	20W/30W/40W	20W/30W/40W/50W/ 60W	20W/30W/40W/50W/ 60W/70W/80W	20W/30W/40W/50W/ 60W/70W/80W/90W/ 100W
Input Voltage	AC100-277V			
Input Frequency	50/60Hz			
Emergency Time (Optional)	1.5 hours			

• Optical

Specification	FLF2	FLF3	FLF4	FLF5
Lumen Output	2,400lm-5,600lm	2,400lm-8,400lm	2,400lm-11,200lm	2,400lm-14,000lm
Lumens Per Watt	120-140lm/W			
Beam Angle	40°/60°/90°/120°			
LED Chip	5050/2835			
CCT	2700K-6500K			
CRI	> 70			
Dimming	0-10V dimming			

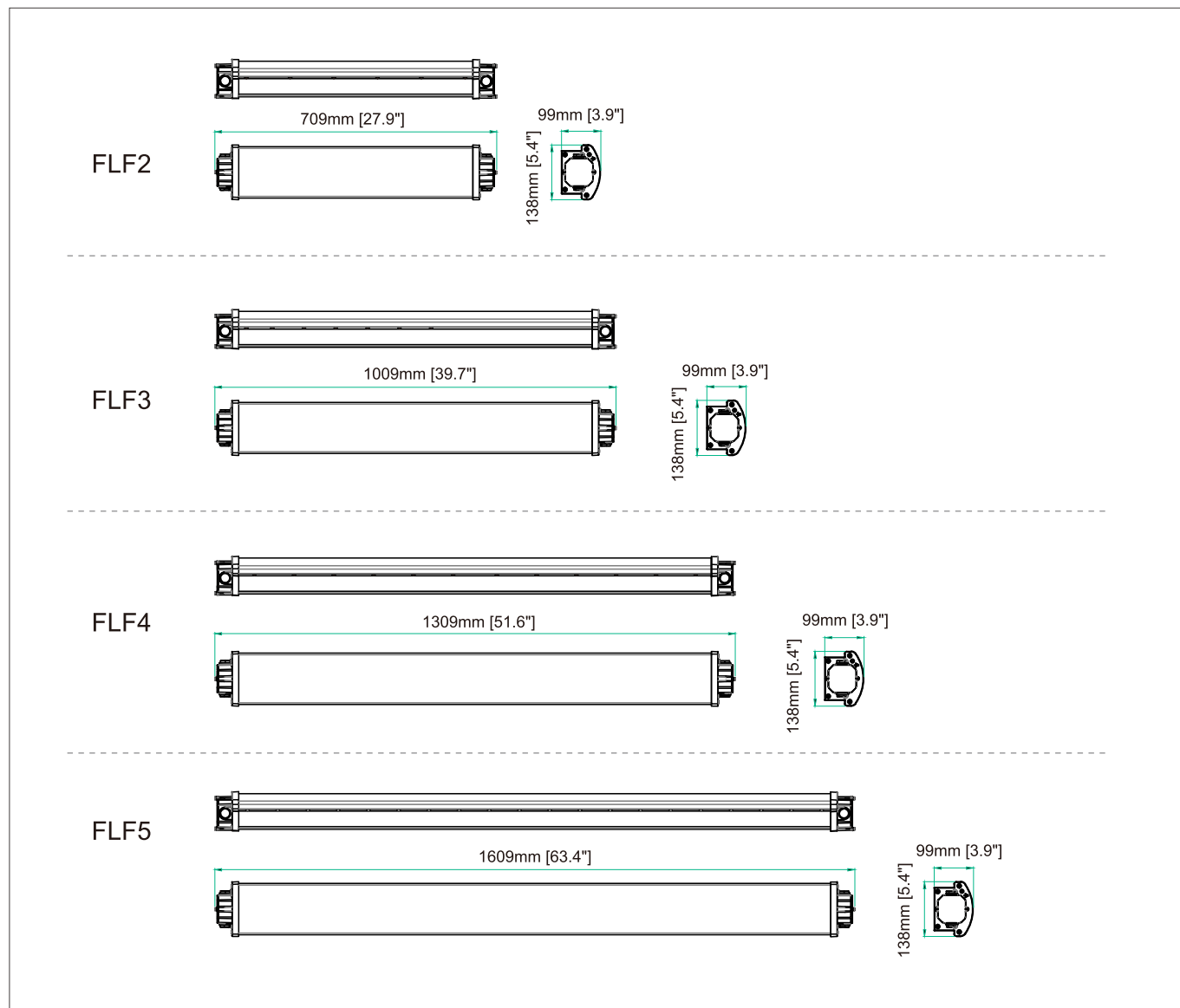
• Environmental

Specification	FLF2	FLF3	FLF4	FLF5
Ambient Temperature	T5: -40°C to +40°C (-40°F to +104°F); T4: -40°C to +55°C (-40°F to +131°F)			

• Mechanical

Specification	FLF2	FLF3	FLF4	FLF5
Housing Material	Aluminum 6063			
Diffuser Material	Polycarbonate (PC)			
Chip Lens	Polymethyl methacrylate (PMMA)			
Finish	Corrosion resistant gray finish			
Protection	IP66/IK10/500 hours salt spray			
Hardware	SUS304			
Mounting	Pole, Hook, Wall			
Cable Entry	1/2" NPT			
Outlet	1.One wiring access cover with captive screws, or two for end to end feed through wiring. 2.Wiring is not included. It can be customized if required.			

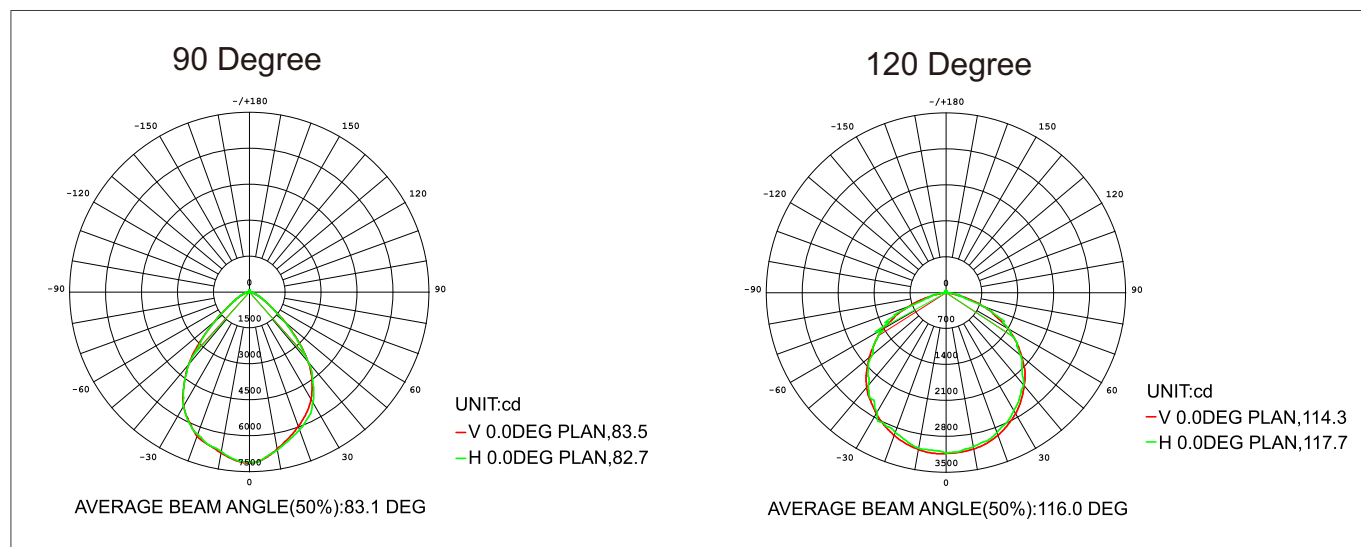
Product Dimensions



•Packing Information

Model	Net Weight	Product Dimensions (LxWxH)	Quantity/Carton	Gross Weight	Package Dimensions (LxWxH)
FLF2	4.1kg/9.04lb	709x138x99mm/ 27.9x5.4x3.9inch	1 pc	5.8kg/12.78lb	720x230x180mm/ 28.35x9.05x7.09inch
FLF3	6.8kg/15.0lb	1009x138x99mm/ 39.7x5.4x3.9inch	1 pc	8.6kg/18.92lb	1010x210x150mm/ 39.76x8.27x5.91inch
FLF4	7.23kg/15.94lb	1309x138x99mm/ 51.6x5.4x3.9inch	1 pc	9kg/19.8lb	1340x200x170mm/ 52.76x7.87x6.69inch
FLF5	7.60kg/16.76lb	1609x138x99mm/ 63.4x5.4x3.9inch	1 pc	9.40kg/20.72lb	1010x210x150mm/ 39.76x8.27x5.91inch

Photometric



Ordering Guide

EX -
 yyyW
FLFi
Y
Z
D
*

1 2 3 4 5 6 7*

1.Product Categories	2.Wattage	3.Shell Shape Series	4.Dimming or Not
Explosion Proof Light	FLF2: 20/30/40W FLF3: 20/30/40/50/60W FLF4: 20/30/40/50/60/70/80W FLF5: 20/30/40/50/60/70/80/90/100W	Can be: FLF1/FLF2/FLF3/ FLF4/FLF5	"Y" Can be: D: dimmable N: non-dimmable
5.Color Temperature	6.Beam Angle	7.Emergency Function Optional	
"Z" can be 27 to 65 denotes 2700K to 6500K, and each 100K gradually increase, max 6500K	"D" can be: D40: 40° D60: 60° D90: 90° D120: 120°	-EM: with emergency function (optional) Blank: without emergency function (standard)	

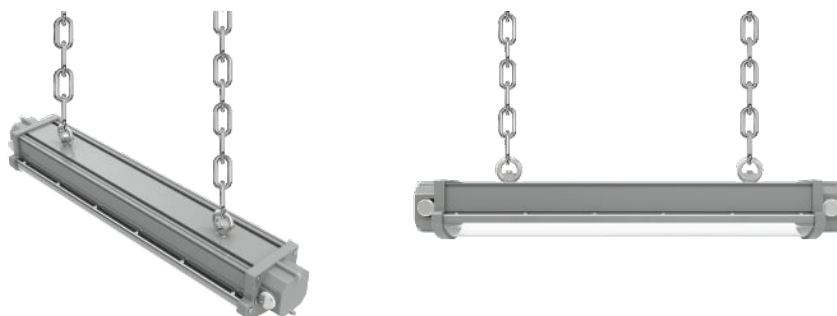
*: Suffix not within nomenclature as per Certification, for marketing purpose only.

Mounting Methods

- Pole Mounting



- Pendant Mounting



- Wall/Surface Mounting

