



EX-FLF SERIES

EXPLOSION-PROOF LIGHT

Class I Division 2, Zone 2

INTRODUCTION

The FGE-EX-FLF2 / F3 / F4 / F5 Series Explosion-Proof Lighting is a high-power LED floodlight designed for wide-area illumination in hazardous environments. With robust aluminum construction and precision optical design, it provides powerful and uniform lighting across large industrial zones.

Certified for Class I Division 2, Zone 2, this series achieves up to 140 lm/W, offering excellent performance with minimal maintenance.

Ideal for offshore rigs, warehouses, and petrochemical plants, it supports ceiling, pendant and recessed for versatile installation.



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



LM-79

LM-80

TM-21

ISTMT

IEC

FEATURES



140lm/W

High Efficacy & Energy Saving: Up to 140 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



0-10V
DIMMABLE

Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



EMERGENCY
BACKUP

90 Minutes EM Back-up Options:
Ensuring safety and visibility during critical moments.



RELIABLE
WARRANTY

Reliable Warranty:
5 Years Warranty.

- Robust Protection:

IP66 waterproof & dustproof, IK10 impact resistance for harsh industrial environments.

- Superior Thermal Management:

Aluminum 6063 housing, great corrosion resistance and cooling performance.

- Versatile Mounting Options:

Pole, pendant, wall and surface mount for flexible installation.

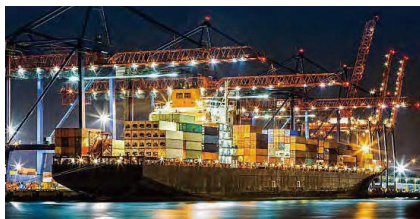
- Wide Input Voltage:

AC100-277V, suitable for global power grids.

APPLICATIONS



Paper Mills: Providing safe and stable illumination in dust-rich environments to reduce ignition risks and support continuous operation.



Loading Dock Platforms: Delivering durable explosion-proof lighting to withstand vibration and fuel vapors for safer loading and unloading operations.



Chemical Processing Facilities: Ensuring reliable lighting in areas with volatile chemicals to maintain safety and compliance under hazardous conditions.



Coal Mine: Offering explosion-proof illumination for methane- and dust-prone mining zones to protect workers during underground operations.



Power Plants: Providing robust lighting around high-risk equipment to support safe inspection and maintenance in demanding conditions.

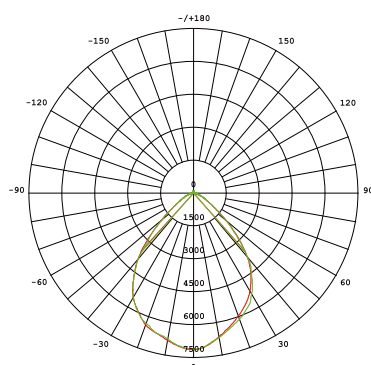


Heavy Industrial Facilities: Delivering long-lasting explosion-proof lighting for harsh industrial sites exposed to dust, oil mist, and mechanical impact.

TECHNICAL PARAMETERS

Product Model	FLF2	FLF3	FLF4	FLF5
Electrical Performance				
Wattage	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	AC100-277V	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9
Surge Protection	10KV	10KV	10KV	10KV
THD	<20%	<20%	<20%	<20%
Optical Performance				
Luminous Efficacy	140lm/W	140lm/W	140lm/W	140lm/W
Luminous Flux	2800-5600lm	2800-8400lm	2800-11200lm	2800-14000lm
CCT	2700-6500K Options	2700-6500K Options	2700-6500K Options	2700-6500K Options
CRI	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°
Unified Glare Rating (UGR)	20	20	20	20
Reliability				
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	T5: -40°C to +40°C (-40°F to +104°F); T4: -40°C to +55°C (-40°F to +131°F)			
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66
Impact Resistance	IK10	IK10	IK10	IK10
Control				
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Sensor	-	-	-	-
Communication Protocol	-	-	-	-
Emergency Kit	-	-	-	-
Mechanical				
Housing Material	Aluminum 6063	Aluminum 6063	Aluminum 6063	Aluminum 6063
Lens Material	PC	PC	PC	PC
Coating	Gray	Gray	Gray	Gray
Net Weight	4.1kg	6.8kg	7.23kg	7.60kg
Dimensions	709x138x99mm	1009x138x99mm	1309x138x99mm	1609x138x99mm
Warranty	5 Years	5 Years	5 Years	5 Years

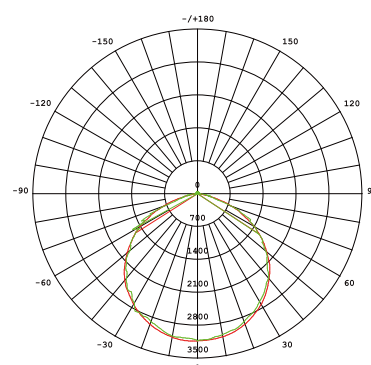
PHOTOMETRICS



AVERAGE BEAM ANGLE(50%):83.1 DEG

90°

UNIT:cd
 - V 0.0DEG PLAN,83.5
 - H 0.0DEG PLAN,82.7



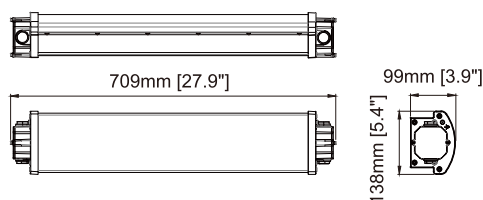
AVERAGE BEAM ANGLE(50%):116.0 DEG

120°

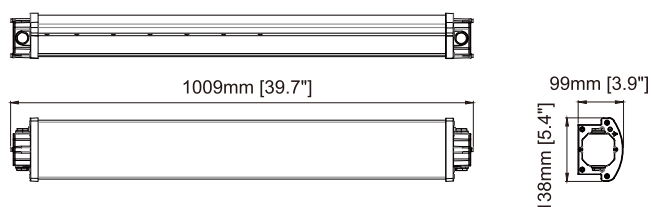
UNIT:cd
 - V 0.0DEG PLAN,114.3
 - H 0.0DEG PLAN,117.7

MECHANICAL DIMENSIONS

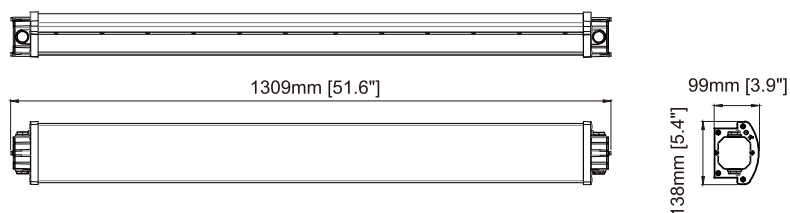
FLF2



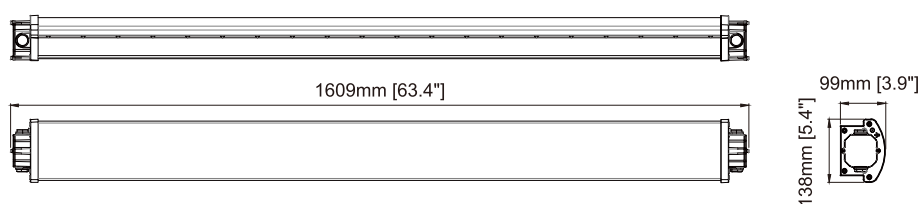
FLF3



FLF4



FLF5



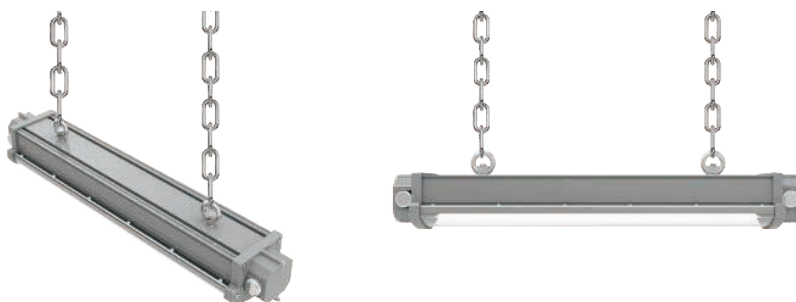
Product Model	FLF2	FLF3	FLF4	FLF5
Wattage	20W/30W/40W	20W/30W/40W/50W/ 60W	20W/30W/40W/50W/ 60W/70W/80W	20W/30W/40W/50W/ 60W/70W/80W/90W/100W
Outer box (L*W*H)	720x230x180mm(28.35"x9.05"x7.09")	1010x210x150mm(39.76"x8.27"x5.91")	1340x200x170mm(52.76"x7.87"x6.69")	1010x210x150mm(39.76"x8.27"x5.91")
Qty/Ctn	1pc	1pc	1pc	1pc
N.W./Ctn	4.1kg/9.04lbs	6.8kg/15.0lbs	7.23kg/15.94lbs	7.60kg/16.76lbs
G.W./Ctn	5.8kg/12.78lbs	8.6kg/18.92lbs	9kg/19.8lbs	9.40kg/20.72lbs
Remarks	0.7M cable	0.7M cable	0.7M cable	0.7M cable

MOUNTING ACCESSORIES

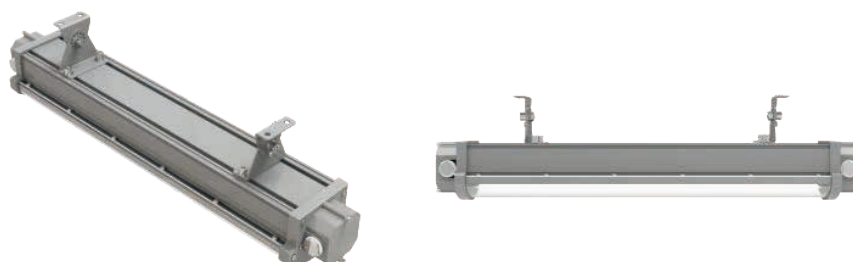
• Pole Mounting



• Pendant Mounting



• Wall/Surface Mounting



ORDER INFORMATION

EX-YY-YY-YY-Y

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① EX = Explosion Proof Light

② Wattage

20	20W
30	30W
40	40W
50	50W
60	60W
70	70W
80	80W
90	90W
100	100W

③ Shell Shape Series

FLF2	FLF2
FLF3	FLF3
FLF4	FLF4
FLF5	FLF5

④ Color Temperature

27	2700K
30	3000K
40	4000K
50	5000K
57	5700K
65	6500K

⑤ Dimmable

D	0-10V Dimming
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⑥ Optics

40°	40°
60°	60°
90°	90°
120°	120°

⑦ EM Back-up

(Blank)	Without EM Back-up
EM	With EM Back-up

⑧ Options

(Blank)	0.7M cord
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WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT