

Durable Lighting Made for Industrial Safety



Hazardous Location LED Luminaire FLC Series



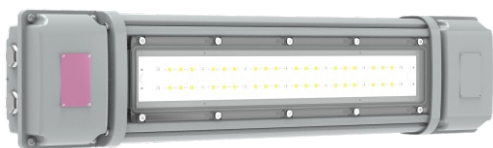
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Specsheet-2023-07 EN

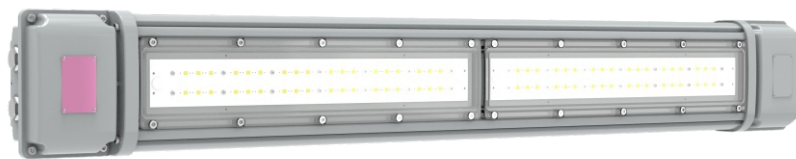
 **Pan American**
Professional lighting manufacturer

DongGuan Pan American Electronics Co., Ltd.

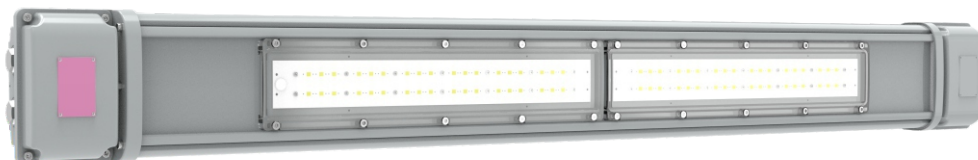
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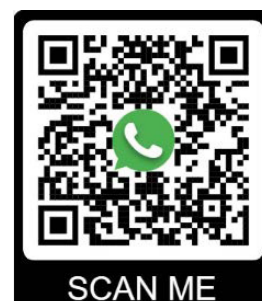
FLC2



FLC4



FLC5



Product Description

The FLC Series LED fixture is the ideal choice for marine and hazardous applications requiring a linear design. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by ATEX.

Features

- High luminous efficacy - Up to 130 lumens per watt
- 0-10V dimming
- Optional lighting distribution 40°, 60°, 90° and 120°
- Die-cast aluminum body and frame-corrosion resistant
- Emergency model optional - 3-hour emergency time
- Professional light distribution design delivers uniform and comfortable lighting

Compliance

ATEX Standard:

⊕ II 2 G Ex eb mb IIC T6...T4 Gb

⊕ II 2 D Ex tb IIIC T80°C...T120°C Db

IECEX Standard:

Ex eb mb IIC T6...T4 Gb

Ex tb IIIC T80°C...T120°C Db



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



Technical Parameter

• Electrical - AC Input

Model Number	EX-XXXW FLC2YZD	EX-XXXW FLC4YZD	EX-XXXW FLC5YZD
Wattage Range	20W/40W	50W/80W	50W/80W
Input Voltage	200-250Vac, 50/60Hz		

• Electrical - DC Input

Model Number	EX-XXXW FLC2YZD-DC	EX-XXXW FLC4YZD-DC	
Wattage Range	Max. 30W	Max. 60W	
Input Voltage	12-36Vdc		

Note: DC input without emergency.

• Electrical - Emergency Mode

Model Number	EX-XXXW FLC2YZD-EM	EX-XXXW FLC4YZD-EM	EX-XXXW FLC5YZD-EM
Wattage Range	8W	8W	8W
Input Voltage	200-250Vac, 50/60Hz		
Emergency Time	3 hours		

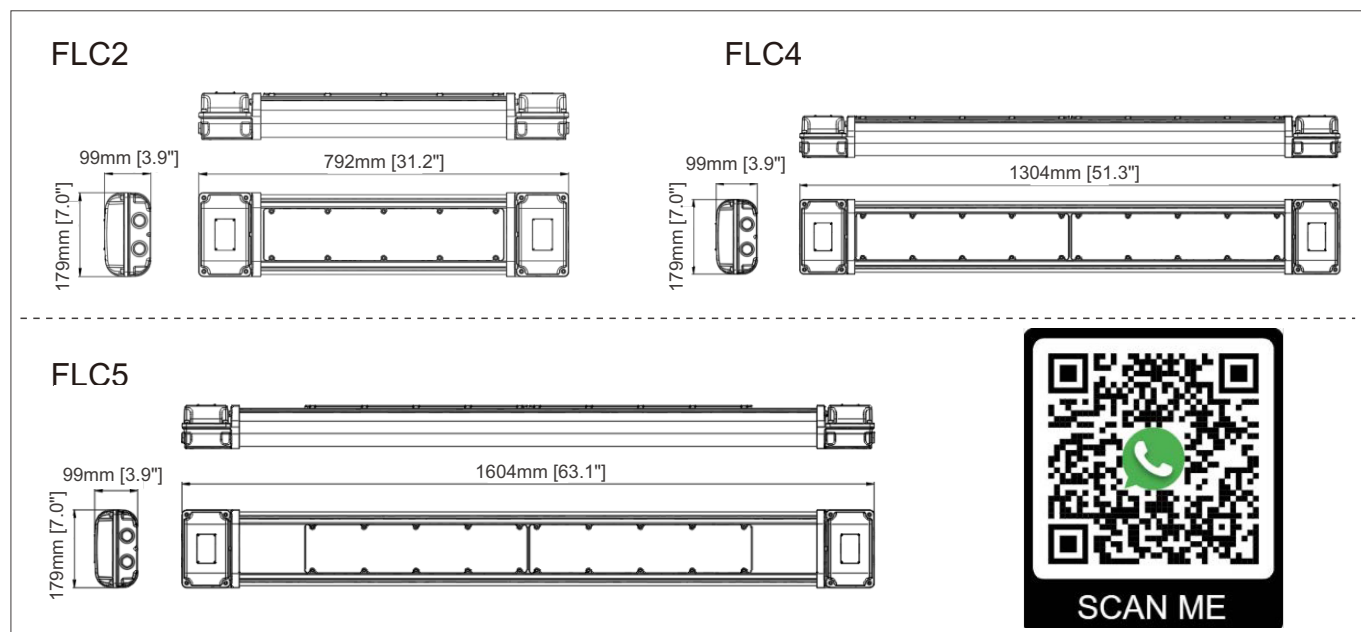
• Optical

Model	EX-XXXW FLC2YZD	EX-XXXW FLC4YZD	EX-XXXW FLC5YZD
Lumen Output	AC mode: 2600-5200lm DC mode: Max. 3900lm Emergency mode: 2600-5200lm	AC mode: 6500-10400lm DC mode: Max. 7800lm Emergency mode: 2600-10400lm	AC mode: 6500-10400lm Emergency mode: 2600-13000lm
Lumens Per Watt	130lm/W		
Beam Angle	40°/60°/90°/120°		
CCT	2700K-6500K		
CRI	> 70		
Dimming	0-10V dimming		

• Mechanical

Model	EX-XXXW FLC2YZD	EX-XXXW FLC4YZD	EX-XXXW FLC5YZD
Housing Material	Die-cast aluminum, A6061		
Cover Material	Fireproof transparent PC		
Protection	IP66		
Mounting	Surface, Hook and Rope, Pole		

Product Dimensions



• Packing Information

Model	Net Weight (Product)	Product Dimensions (LxWxH)	Quantity/Carton	Gross Weight	Package Dimensions (LxWxH)
FLC2	7.5kg/16.53lb	792x99x179mm/ 31.2x3.9x7.0inch	1 pc	9.5kg/20.94lb	890x250x160mm/ 35.04x9.84x6.30inch
FLC4	15kg/33.07lb	1304x99x179mm/ 51.3x3.9x7.0inch	1 pc	17kg/37.48lb	1400x250x160mm/ 55.12x9.84x6.30inch
FLC5	17.5kg/38.5lb	1604x99x179mm/ 63.1x3.9x7.0inch	1 pc	20kg/44lb	1700x250x160mm/ 66.92x9.84x6.30inch

Ordering Guide

EX - XXXW FLC* Y Z D -**

1 2 3 4 5 6 7

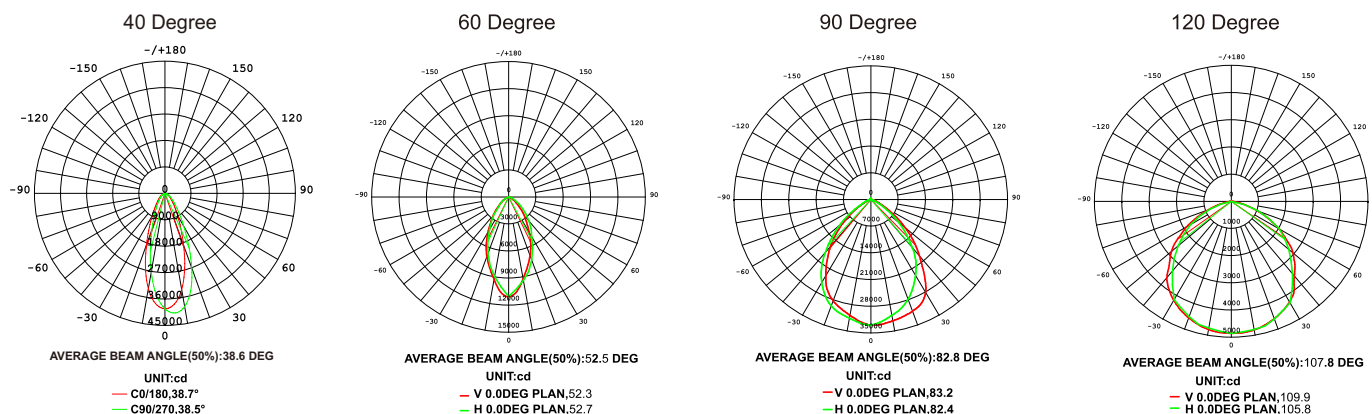
1. Type	2. Wattage	3. Product code	
EX = Explosion proof product	for FLC2: 20W/40W for FLC4: 50W/80W for FLC5: 50W/80W	FLC2 FLC4 FLC5	

4. Dimmable information	5. Color temperature (CCT)	6. Beam Angle	7. DC input
Y = Dimming N = Non-dimming	27 = 2700K, 30 = 3000K, ..., 65 = 6500K	D40=40° D60=60° D90=90° D120=120°	-EM = AC input with emergency power -BLANK = AC input

• Environmental

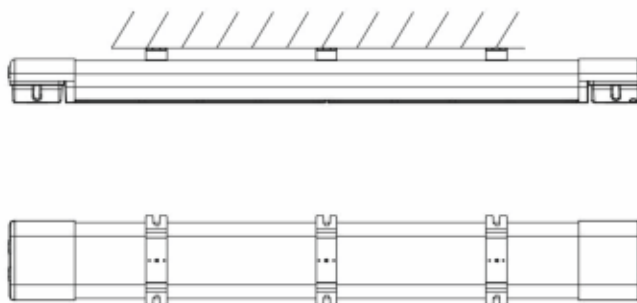
Mode	Model Number	Input Voltage	Wattage Range	Ambient Temperature	Temperature Class
AC input	EX-XXXW FLC2YZD	200-250Vac	20W/40W	-40°C to +40°C	T6 / T80°C
				-40°C to +55°C	T5 / T100°C
				-40°C to +65°C	T4 / T120°C
	EX-XXXW FLC4YZD	200-250Vac	50W/80W	-40°C to +40°C	T6 / T80°C
				-40°C to +55°C	T5 / T100°C
				-40°C to +65°C	T4 / T120°C
DC input	EX-XXXW FLC2YZD-DC	12-36Vdc	10W-30W	-40°C to +55°C	T5 / T100°C
				-40°C to +65°C	T4 / T120°C
	EX-XXXW FLC4YZD-DC	12-36Vdc	10W-60W	-40°C to +55°C	T5 / T100°C
				-40°C to +65°C	T4 / T120°C
Emergency	EX-XXXW FLC2YZD-EM	200-250Vac	20-40W	0°C to +40°C	T5 / T100°C
	EX-XXXW FLC4YZD-EM	200-250Vac	20-80W	0°C to +40°C	T5 / T100°C
	EX-XXXW FLC5YZD-EM	200-250Vac	20-80W	0°C to +40°C	T5 / T100°C

Photometric

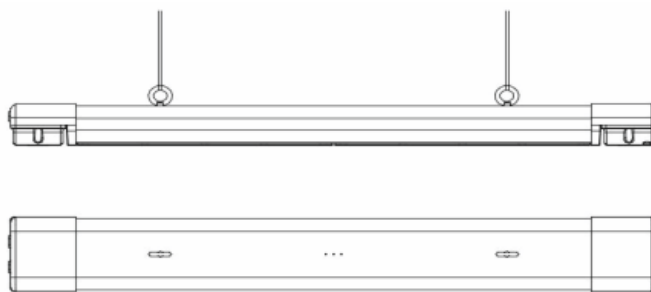


Mounting Methods

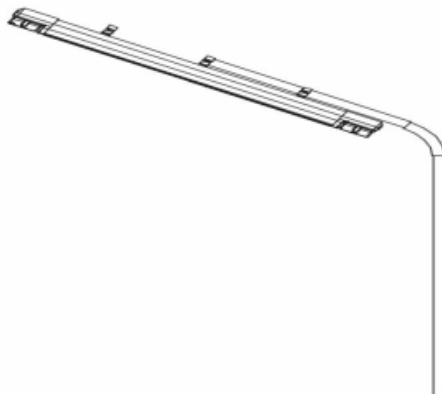
- Bracket Surface Mounting



- Hook And Rope Mounting



- Pole Mounting



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