

Hazardous Location Explosion Proof LED Fixtures are engineered to meet your most demanding lighting needs in hazardous locations Carron high pressure die-cast all unique HAZLOC C1D2 (Class 1 Division 2) explosion proof rated fixtures will deliver years of optimum illumination in the harshest of conditions.

Features & Benefits

- · Class 1 Division 2 Rating, Group A, B, C, D, E
- Near Zero maintenance
- · Lights turn on instantly without any warm-up time
- Compatible with controls and sensors for add energy savings
- Finish: Yellow
- · Lens Finish Options: Clear, Frosted
- Lens Shape Options: Flat, Round
- · Optional: Wire Mesh Safety Guard

Applications

Class I Location" is created by the presence of flammable gases or vapors in the air in sufficient quantities to be explosive or ignitable. When these materials are found in the atmosphere, a potential for explosion exists if an electrical or other source of ignition is

- Petroleum refineries, and gasoline storage and dispensing areas;
- Dry cleaning plants where vapors from cleaning fluids can be present
- Aircraft hangars and fuel servicing areas
- · Utility gas plants, and operations involving storage and handling of liquefied petroleum gas or natural gas.

Class II Location" is created by the presence of combustible dust in the air in sufficient

quantities to be explosive

- Grain elevators;
- Flour and feed mills;
- Plants that manufacture, use or store magnesium or aluminum powders;
- · Producers of plastics, medicines and fireworks;
- Producers of starch or candies

Approval Listings

- UL, HAZLOC, C1D2, Class A,B,C,D,E
- Most of our products are DLC listed, qualifying them for the highest rebates. Please check individual product specs for DLC status. Refer to DLC website by clicking this link: https://www.designlights.org





Performance Summary

Efficacy up to: 115 l/pw

CRI up to: 73.6 cri

CCT: 30/40/50/57K*

Dimming: Non Dim

HazLoc Rating: C1D2, Groups A, B, C, D, E

Operating Temp: -40° - +55°C Ambient

Input Voltage: 120-277vac

Operating Frequency: 50 / 60Hz

Power Factor up to: >0.99

Dimensions: 7.87" x 5.24" / 11.81" x 6.1" / 15.75" x 6.3"









Project Name: Type: Date:

FPXL Series Specification Summary

Data Source			
Product Number	FPXL-40W	FPXL-100W	FPXL-200W
Efficacy I/pw: Nominal	112 l/pw	117 l/pw	115 l/pw
Input Power Watts: Nominal	28.06	100.25	185.2
Lumens @ 3000K	3100	11,700	21,300
Lumens @ 4000K	3100	11,700	21,300
Lumens @ 5000K	3132	11,701	21,313
Lumens @ 5700K	3132	11,701	21,313
Qualifications	UL, DLC pending, 57K (No DLC)	UL, DLC pending, 57K (No DLC)	UL, DLC pending, 57K (No DLC)
Certifications	H/	E)	
THD @ 120VAC	<24.5%	<15.1%	<15%
CCT/Kelvin Temp Options	3000K / 4000K / 5000K / 5700K*	3000K / 4000K / 5000K / 5700K*	3000K/4000K/5000K/5700K*
Dimming	Non Dim	Non Dim	Non Dim
Input Voltage Options	120-277vac	120-277vac	120-277vac
CRI	71 cri	73.6 cri	72.6 cri
Power Factor	>0.99	>0.94	>0.94
TM21 Lifetime Hours	TM21 Lifetime Hours L70 @ 60,000		L70 @ 60,000
Operational Temperatures	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C
Max Dimensions (in)	7.87" x 7.87" x 5.24"	11.81" x 11.81" x 6.1"	15.75" x 15.75" x 6.3"
Total Weight	8.8 lbs	17.6 lbs	25.3 lbs
Limited Warranty	5 years	5 years	5 years

Notes

Values are nominal unless noted +/- 5% Specifications change without notice





Project Name:

Type:

Date:

FPXL Series Product Ordering Guide

Example: FPXL-40-Y-30K-F-F-JB-WG

Product	Finish	CCT/Color Temp	Lens Finish	Lens Type	Controls & Dimming	Voltage	Mounting Options	Accessories
FPXL-40 FPXL-100 FPXL-200	Y (Yellow) C (Custom Color)*	30K (3000K) 40K (3500K) 50K (4000K) 57K (5000K)* No DLC	C (Clear) F (Frosted)	F (Flat) R (Round)	Blank (Non Dim) STD	Blank (100-277V) STD	YM (Yoke Mount) STD JB (3 way 3/4" NPT Junction Box)	WG## (Wire Guard) available for 30, 100 185W fixtures

^{*}Special Order = Longer Lead Time

Factory Installed Options

WG Wire Guard Mesh (Size will be provided per wattage of fixture. Example: WG30, WG100, WG185)

C - (RAL#) Custom Paint Colors (Need Paint #) Cost based on paint selection

Factory Installed Mounting Options

JB 3 way 3/4" NPT Junction Box (Specify on Ordering Bar)

YM Yoke/ U Mounting Bracket (Comes Standard but still need to specify on ordering bar)

Junction Box Mount

A. Ceiling Mount



B. Drop Mounting



C. Wall Mount

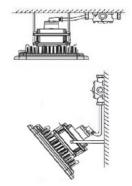


D. Wall Mount



Yoke/U Mounting Options

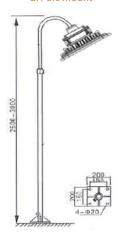
E. Yoke/U Mounting Options



F. Pole Mount



G. Pole Mount





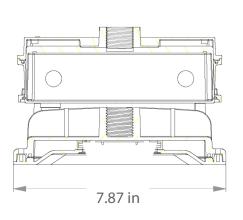


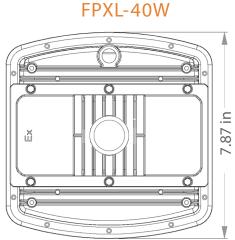
FPXL Series Design Details & Photometry

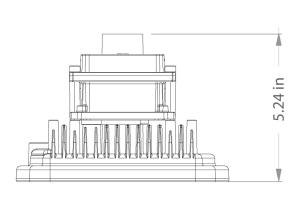
Dimensions



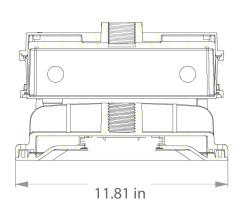


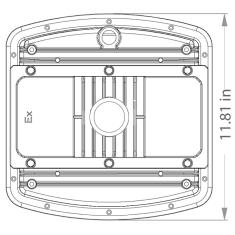


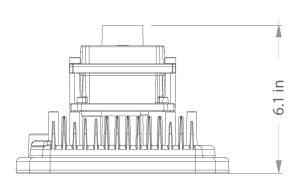




FPXL-100W



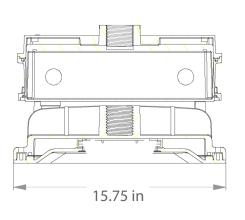




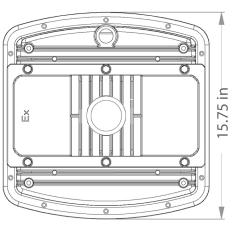


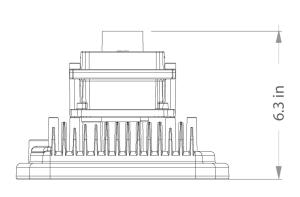
FPXL Series Design Details & Photometry

Dimensions

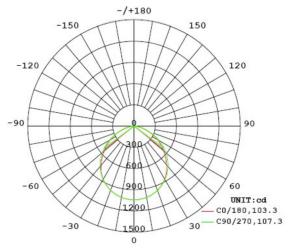


FPXL-200W



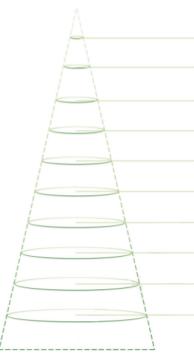


FPXL Series Photometric Data



Luminous Intensity Distribution					
	Beam Angle (50% Imax)	Field Angle (10% Imax)			
C0/180	103.3	152.9			
C45/225	106.6	153.8			
C90/270	107.3	155.8			
C135/315	106.5	153.5			
AVG	105.9	154.0			

FPXL-40W

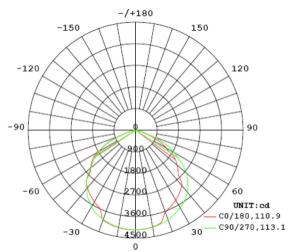


Height (ft)	Diameter (inch)	Eavg (lx)	Emax (Ix)
1.64	51.97	1416.0	4173.0
3.28	103.94	353.9	1043.0
4.92	156.30	157.3	463.6
6.56	208.27	88.5	260.8
8.20	260.63	56.6	166.9
9.84	312.60	39.3	115.9
11.48	364.96	28.9	85.2
13.12	416.93	22.1	65.2
14.76	14.76 469.30		51.5
16.4	521.26	14.2	41.7

Angle: 105.9° Flux out: 1958.0 lm



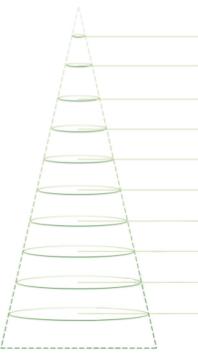
FPXL Series Photometric Data



Luminous Intensity Distribution					
	Beam Angle (50% Imax)	Field Angle (10% Imax)			
C0/180	110.9	145.0			
C45/225	112.6	147.7			
C90/270	113.1	146.9			
C135/315	112.4	147.8			
AVG	112.3	146.9			

-/+180

FPXL-100W



	Height (ft)	Diameter (inch)	Eavg (Ix)	Emax (Ix)
-	1.64	58.66	4816.0	16609.0
-	3.28	117.32	1204.0	4152.0
-[4.92	175.98	535.1	1845.0
-[6.56	234.65	301.0	1038.0
-	8.20	293.31	192.6	664.4
-[9.84	351.97	133.8	461.4
-[11.48	410.63	98.3	339.0
- [13.12	469.29	75.3	259.5
-[14.76	527.95	59.5	205.1
-[16.4	586.61	48.2	166.1

Angle: 112.3° Flux out: 8968.0 lm

Lumin	Luminous Intensity Distribution				
	Beam Angle (50% Imax)	Field Angle (10% Imax)			
C0/180	114.7	155.9			
C45/225	115.8	156.4			
C90/270	117.2	158.1			
C135/315	116.1	156.3			
AVG	115.95	156.68			

FPXL-200W

Λ

Height (ft)	Diameter (inch)	Eavg (lx)	Emax (Ix)	
1.64	62.99	6748.0	23864.0	
3.28	125.98	1687.0	5966.0	
4.92	188.98	749.8	2652.0	
6.56	251.97	421.8	1491.0	
8.20	314.96	269.9	954.5	
9.84	377.95	187.5	662.9	
11.48	440.94	137.7	487.0	
13.12	503.94	105.4	372.9	
14.76	566.93	83.3	294.6	
16.4	629.93	67.5	238.6	

Angle: 116.0° Flux out: 13574.0 lm





FPXL Series Installation Instructions

For all FPXL Series Mounting

WARNING:

To avoid the risk of fire, or electric shock this product should be installed, inspected, and maintained by a qualified electrician only. Installation should be completed by an individual familiar with the construction and operation of the luminaire. Installation of luminaire must be in accordance with national and local building and electrical codes.

Safety Warning: To avoid electric shock: Be certain electrical power is OFF before and during installation and maintenance. Luminaire must be supplied by a wiring system with an equipment grounding conductor.

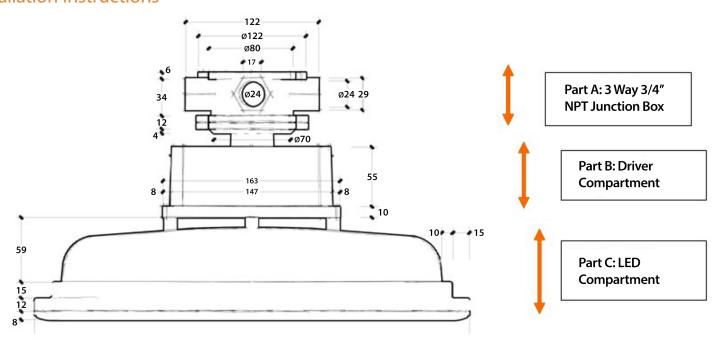
To avoid burning hands: Make sure lens and housing are cool when performing maintenance.

To avoid product degradation: Make sure the wire supply voltage is the same as the luminaire supply. Use proper supply wiring as specified on the luminaire nameplate. Avoid use in environments containing sulfur, chlorine or other halides, methyl acetate or ethyl acetate, cyanoacrylates, glycol ether, formaldehyde or butadiene.

Notes: Instructions do not cover all details and all possible product configurations. Do not restrict luminaire ventilation. Ensure LED luminaire is not covered with material that will prevent convention or conduction cooling. Ensure LED luminaire has the correct polarity before installation. Avoid exposing wiring to metal edges and sharp objects.

Maintenance: Perform visual, electrical and mechanical inspections on a regular basis. The environment and frequence of use should determine this. However it is recommended that checks be made at least once a year. Electrically check to make sure that all connections are clean and tight. Mechanically check that all parts are properly assembled.

Installation Instructions



- Fixture is equipped with the U bracket
- Connection outlet conduit size: 3/4" NPT
- Conduit and pole are not included in products
- All installations must be conducted by qualified electrician





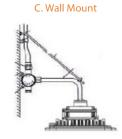
FPXL Series Installation Instructions

Mounting Options

Junction Box Mount



B. Drop Mounting





Yoke/U Mounting Options

E. Yoke/U Mounting Options

