

FCP – Fidelux Canopy Series & Fuel Pump

Product Description

The Fidelux LED Canopy luminaire offers energy savings, long life, and an easy-to-install design. This LED luminaire is the smart choice for canopy lighting in all areas including fuel stations and commercial, industrial, and institutional applications.

Features & Benefits

- The fixture has the advantages of thin, beautiful appearance, good heat dissipation design, professional light distribution design, convenient installation and labor saving.
- IP65, suitable for wet locations
- Housing: ADC12 aluminum heat sink, outdoor powder coating
- Optical lens: high light transmittance PC, anti-UV, and fire resistant
- 10KV surge protection
- Photoelectric motion sensor compatible

Applications

- Fuel pump canopy
- Parking structures

Mounting Options

- Surface mounting (Standard for all Wattages)
- Pendant mounting- 1/2" threaded KO provided on all wattages except 120w.
Rigid pipe & connectors not included (See page 4 installation instructions)
120w comes standard with 12" pendant with external driver box (See page 1)
- Junction Box mounting, Adapts to 3" & 4" round/Octagon and Single gang

Regulatory & Voluntary Qualifications

- UL, IP65, Wet Location
- 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>
- Click the link to check [Categories](#)



Performance Summary

Efficacy up to: 130 l/pw

CRI up to: 84 cri

CCT: 3000K(120w) / 4000K / 5000K / 5700K

Dimming: 0-10v / Non Dim (120w only)

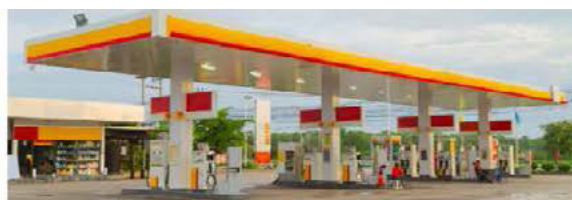
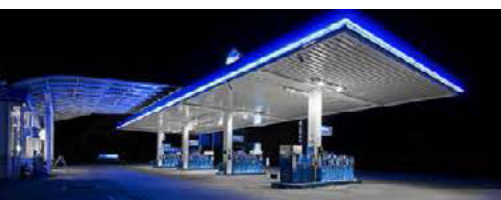
Operating Temp: -20°C ~ +40°C Ambient

Input Voltage: 120-277vac, 347-480vac (38w & 74w only)

Operating Frequency: 50/60Hz

Power Factor up to: >0.95

Dimension: 10", 14", 19"



FCP Series Specification Summary

DATA SOURCE	DLC	LM79	DLC	DLC
Product Number	FCP-45W	FCP-60W	FCP-80W	FCP-120W
Efficacy l/pw Nominal	113 l/pw	130 l/pw	122 l/pw	107 l/pw
Input Power Watts @ 4000k	44.09	60	79.46	1203
Lumens @ 4000K	4948	7485	9548	11,963
Lumens @ 5000K	4948	7485	9548	11,963
Lumens @ 5700K	4998	7764	9703	12,880
CRI	82.3	84	82	84
Qualifications / DLC Primary Use Designation	UL, DLC Standard Fuel Pump Canopy	UL	UL, DLC Standard Fuel Pump Canopy	UL, DLC Standard Fuel Pump Canopy
Beam Angles	145°x 145°	110°x 110°	110°x 110°	110°x 110°
Input Voltage Options	120-277vac			
CCT/Kelvin Temp Options	40/ 50/ 57 K			30/ 40/ 50/ 57K
IP Rating	IP65			
Dimming	0-10v			Non Dim (STD)
Power Factor	0.92	0.92	0.90	0.93
Total Harmonic Distortion	10.59%	11.74%	12.36%	12.36%
TM21 Lifespan Hrs	66,000+ hrs @ L70		66,000+ hrs @L70	55,000+ hrs @ L70
Ambient Working Temp	-20°c ~ +40°c			
Max Dimensions (in)	10" x 10" x 3 5/8"	14" x 14" x 4"		19" x 19" x 2 3/8"
Total Weight	6 lbs	11 lbs		28 lbs
Materials	Housing: ADC12 Aluminium heat sink, outdoor power coating, Optical lens High Light Polycarbonate, anti UV and fire resistant			
Limited Warranty	5 Yrs.			

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

FCP Series Product Ordering Guide

Example: FCP-45W-50K-D-BZ

Product	CCT/Color Temp	Voltage	Controls & Dimming	Finish Options
FCP-45W	40K (4000 Kelvin)	Blank (120-277vac) STD	D (0-10v Dimming) STD 45w, 60w, 80w only	BZ (Bronze) STD 120W not available in Bronze
FCP-60W	50K (5000 Kelvin)			BL (Black) 120w not available in Black
FCP-80W	57K (5700 Kelvin)			
FCP-120W				

Field Installed Mounting Options

SM	Surface Mounting (38w thru 80w have back plate to mount directly to a Junction box. The 120w has an external driver that mounts in canopy above ceiling using a pipe to sleeve wire to mount fixture on surface of ceiling, See Fig 3 below
PM	Pendant Mounting (1/2" Threaded Knock Outs are available to mount 1/2" rigid pipe with screw in connector, see page 7) Connector not included

- 1) Remove the rubber plug and mounting plate (Fig. 1)
- 2) Connect the wires for the light fixture
- 3) Fix the light to the ceiling by the 1/2" conduit (Fig. 2)
- 4) Fix the light to external Jbox in canopy or above ceiling for the 120w fixture. (Fig.3)

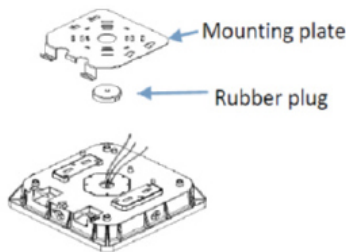


Fig. 1

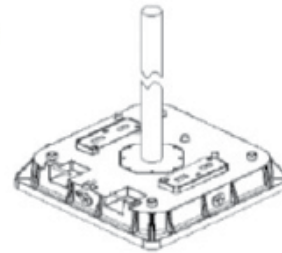


Fig. 2



Fig. 3

Factory Installed Options

BZ	Bronze housing finish (Standard on all wattages except 120w - comes in White only)
BL	Black housing finish (Option for all wattages except 120w - comes in White only*)
WH	White housing finish (120w comes standard white, Option for all other wattages*)

Field Installed Sensors

Line Voltage Continuous & Bi Level Dimming, Occupancy Sensors

LOS-509AP	Line Voltage PIR occupancy sensor with daylight, SLV for on/off switching control with IP66 external mounting bracket & STD A Lens
LOD-500AP	Line voltage PIR occupancy sensor with daylight, SLV & AO for bi-level control with IP66 external mounting bracket & STD A Lens
LOD-509AP	Line voltage PIR occupancy sensor with daylight, SLV & AO for bi-level or SmartDIM control with IP66 external mounting bracket & A Lens
LRD-509AP	Line voltage PIR occupancy sensor with daylight, SLV & AO for SmartDIM control, remote setting with IP66 external mounting bracket, A Lens
SRP-280	Sensor Remote Programmer / Controller (option only for LRD-509S)
<i>Descriptions</i>	<i>SLV = Switched Line Voltage AO = Analog Output (0-10v)</i>

347 / 480vac , Line Voltage SmartDIM, Occupancy Sensor

HRD-600AP	SmartDIM, Line voltage Occupancy sensor, 0-10v output for 347/480vac dimmable LED Remote Control, IP66 External Mounting Bracket, A Lens
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Field Installed Sensor Mounting Options

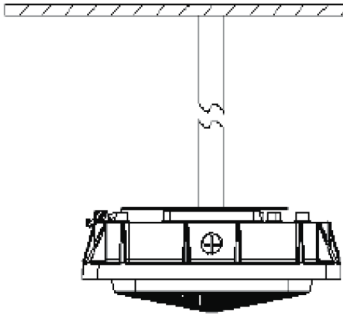
E	Fixture External, Mounting Bracket, 1/2" KO Needed
P	Fixture External, Mounting Bracket for IP66 Fixtures or Outdoor Pole, 1/2" KO Needed
C	Junction Box Mounting Bracket for using a 4" Round with Single Gang Plaster Ring or Square Single Gang Box, Not Available with Lens E,
EJ-30	Fixture External 1" - Extension Joint (use with EMA-500, EMB-500 or PMB500), IP66
EJ-50	Fixture External 2" - Extension Joint (use with EMA-500, EMB-500 or PMB500), IP66

Field Installed Sensor LENS Options (Lens are included in Sensor price) Lens Option

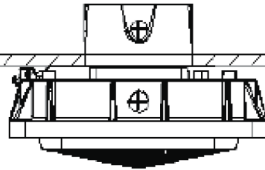
Description		Recommended Height
Lens A	Standard Cone	8-15'
Lens B	6x Extra Wide Cone	8-10'
Lens C	3x High Bay Cone	15-30'
Lens D	2x Standard Round Flat	8-20'
Lens E	4x Extra Wide Dome	8-20'
Lens F	Aisle Way Arch	8-40'

FCP Series Mounting Options

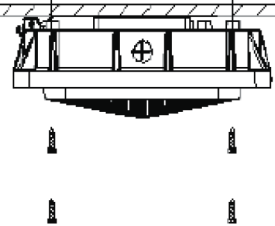
Pendant Mount
(38w-80w only)



Junction Box Mounting
(38w-80w only)






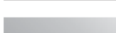
Surface Mount
(38w-80w only)



1/2" Threaded Knock Out
(KO) for 1/2" rigid
(Not available on 120w)

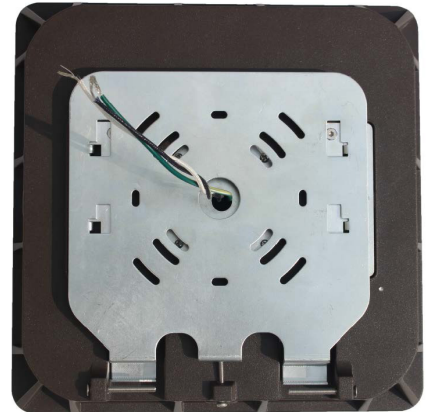


Color Chart

BR=Bronze	
BK=Black	
WH=White	
GY=Grey	

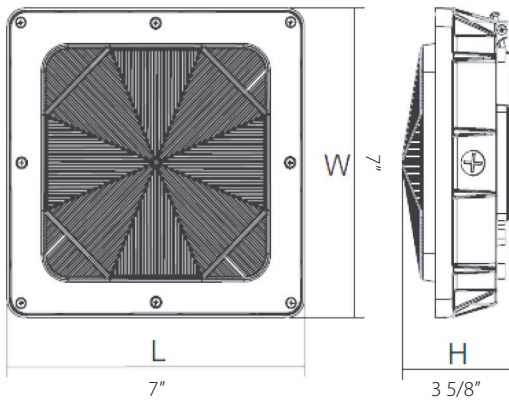
120w comes only in White.
38w-80w fixtures come standard in Bronze.
38w-80w Black & White are options.
All paint that is not Standard is a longer lead time, See Sales Rep

Junction Box Mounting Plate

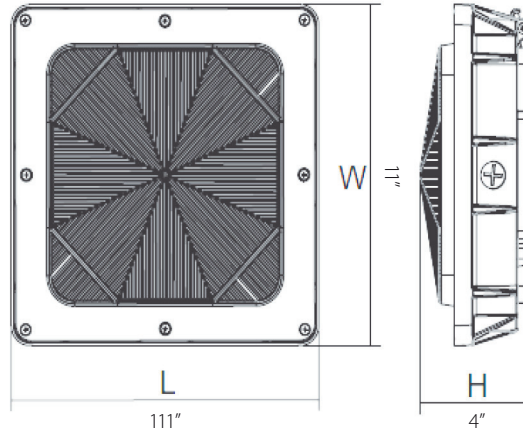


FCP Series Design Details & Photometry

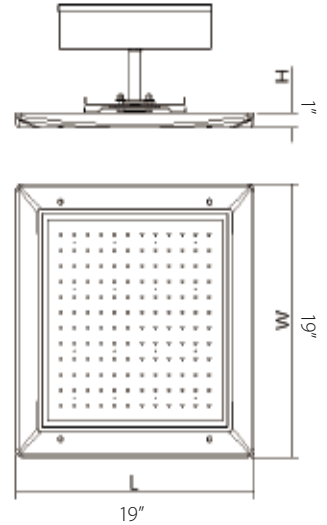
FCP-38W, 40W & 45W



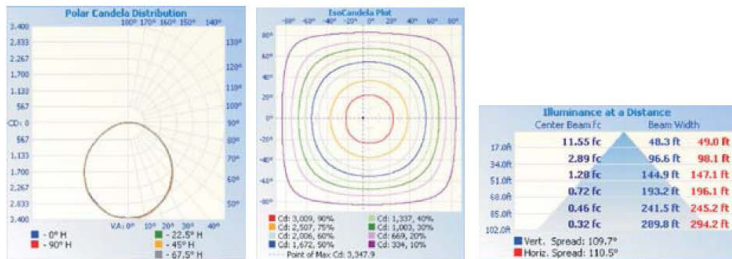
FCP-60W, 74W & 80W



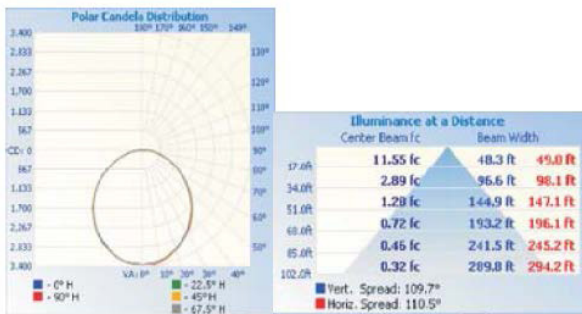
FCP-120W



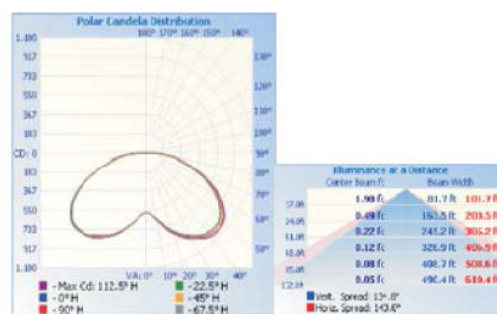
FCP-80W



FCP-45W, 110x110 beam



FCP-45W parking option (consult factory), 140x140 beam



FCP Series Design Details & Photometry

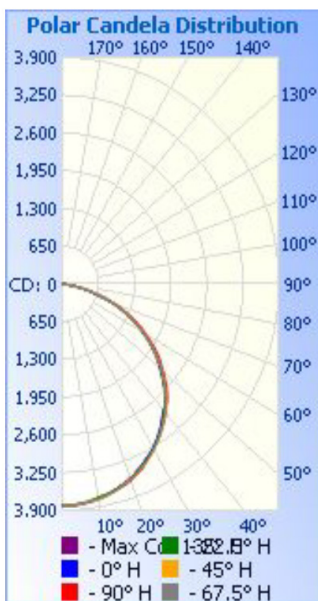
Photometry

FCP-120W-50K-UNV

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminance as the source resulting in a luminaire efficiency of 100%.

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Lamp
0-30	2,984	28%	28%
0-40	4,904.9	46%	46%
0-60	8,686	81.4%	81.5%
60-90	1,955.3	18.3%	18.3%
70-100	666.3	6.2%	6.2%
90-120	6	0.1%	0.1%
0-90	10,641.3	99.8%	99.8%
90-180	22.7	0.2%	0.2%
0-180	10,644	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	361.9	3.4%	90-100	0.9	0%
10-20	1,039.4	9.7%	100-110	2	0%
20-30	1,582.7	14.8%	110-120	3.1	0%
30-40	1,920.9	18%	120-130	3.8	0%
40-50	1,998.8	18.7%	130-140	3.9	0%
50-60	1,782.4	16.7%	140-150	3.5	0%
60-70	1,289.9	12.1%	150-160	2.9	0%
70-80	594.9	5.6%	160-170	1.9	0%
80-90	70.4	0.7%	170-180	0.7	0%



Illuminance at a Distance			
	Center Beam fc	Beam Width	
17.0ft	13.24 fc	51.2 ft	51.5 ft
34.0ft	3.31 fc	102.3 ft	103.1 ft
51.0ft	1.47 fc	153.5 ft	154.6 ft
68.0ft	0.83 fc	204.7 ft	206.2 ft
85.0ft	0.53 fc	255.8 ft	257.7 ft
102.0ft	0.37 fc	307.0 ft	309.3 ft

■ Vert. Spread: 112.8°
■ Horiz. Spread: 113.2°

FCP Series Installation Instructions

For all FCP Series Canopy & Fuel Pump Product

Item	Model	Input Voltage	Power Factor	Watt	Input Current	Weight
A	FCP-38W-H	347-480VAC	≥0.9	38W	0.11A	5.73lbs
B	FCP-45W-UNV	100-277VAC		45W	0.45A	5.73lbs
C	FCP-74W-H	347-480VAC		75W	0.22A	10.58lbs
D	FCP-80W-UNV	100-277VAC		83W	0.83A	10.58lbs

Introduction

An internal power-factor-corrected switch-mode supply allows it to be used from any nominal 100V-277V, 50/60Hz AC supply without any variation in light output.

Suitable for use in the following locations:

- Ambient Temp: -20~+40°C
- Wet Locations

Note: Save these instructions for future reference.

Installation

Warning: To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electric shock:

- Be certain electrical power is OFF before and during installation and maintenance.
- Luminaire must be connected to a wiring system with an equipment-grounding conductor.
- Make sure the supply voltage is the same as the rated luminaire voltage.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Keep lens tightly closed when in operation

For supply connections use wire rated for at least 100°C

All unused holes must be plugged, waterproof silicone will ensure a tight seal.

Pendant Mount:

- 1) Remove the rubber plug and mounting plate (Fig. 1)
- 2) Connect the wires for the light fixture
- 3) Fix the light to the ceiling by the 3/4" conduit (Fig. 2)

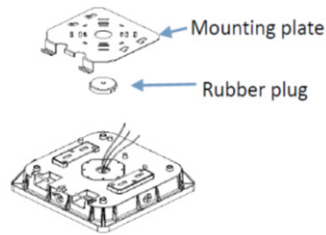


Fig. 1

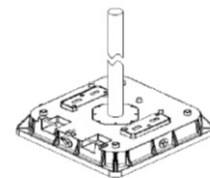


Fig. 2

Junction Mount:

- 1) Fix the mounting plate onto the junction box (Fig. 3)
- 2) Hang the light body onto the mounting plate and wiring (Fig. 3)
- 3) Slide the fixture towards the hook, fasten the screw A to the block fixture (Fig. 4, 5)

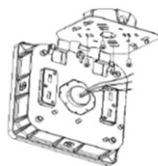


Fig. 3

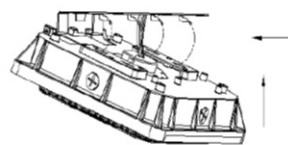


Fig. 4

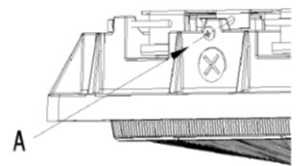


Fig. 5

FCP Series Installation Instructions

For all FCP Series Canopy & Fuel Pump Product

Ceiling Mount:

- 1) Remove lens diffuser and reflector
- 2) Fasten light to the ceiling using mounting holes in plate according to figures 6 and 7
- 3) Fasten the light and connecting wires
- 4) Replace the reflector and lens diffuser (Fig. 8)

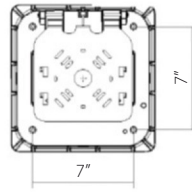


Fig. 6

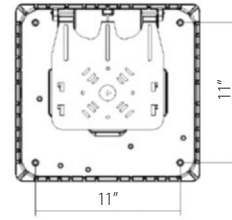


Fig. 7

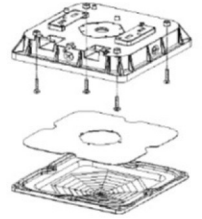
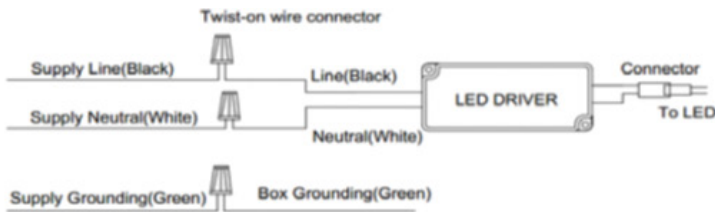


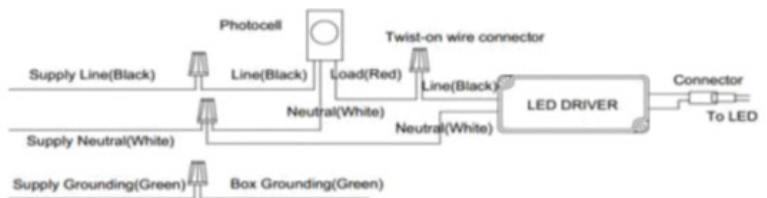
Fig. 8

Mounting Using 1/2" Plugs in The Side:

- 1) Do not touch the yellow portion of the LED array, damage may occur
- 2) Remove the screws attaching the lens diffuser and reflector to the housing
- 3) Remove 1/2" plug from direction you intend to feed conduit
- 4) Use the EVA gasket, provided in the accessory pack, to cover the 3/4" threaded hole on the back plate
- 5) Fixture is best mounted by drilling through back of fixture securing it to the mounting surface using the appropriate mounting hardware for the surface. All unused holes must be plugged. Waterproof silicone will ensure a tight seal
- 6) Complete the wiring to the incoming power and ground
- 7) Replace the reflector and lens diffuser. Make wiring, refer to the wiring layout (Fig. 9, 10)



Wiring layout - Fig. 9



Wiring layout with Photocell - Fig. 10

After Installation, Please:

- Check whether the lighting fixture is firmly fixed.
- Check whether wires are connected correctly.

At last, turn on the power, and check if the lighting fixture works well. If not, please turn off the power and contact local dealer.

Warning: the luminaire should be installed by qualified electrician.