

## 2D FLEX LENS

24VDC INDOOR/OUTDOOR



### DESCRIPTION

PureEdge's 2D Flexible PC lens with Silicone encapsulation for durability and reliability. It's small in size, light in weight, flexible and easy to install. Various beam angles (10°, 30°, 45° Asymmetric) are available for different applications. Flex Lens 2D is offered in multiple color temperatures, and beam angles including a wall 10° grazing option. The integrated TPU extrusion can be custom ordered in as little as 6" increments for easy installation. Outdoor/Wet IP67 Locations and uses Class 2 barrel wire connectors for higher safety factor. Fixture includes a 5-year pro-rated warranty. For layout assistance, email our design team: [design@pureedgelighting.com](mailto:design@pureedgelighting.com).

### SPECIFICATIONS

Flat top view 0.72" wide 0.35" high

INPUT	24VDC with 8" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	6 watts per foot
INCREMENTS	1' increments up to 16' standard; can be custom ordered in as little as 6" increments
MAX LENGTH	16'
MATERIAL	TPU material provides environmental protection against salt, UV, and acid/alkaline corrosion.
OPERATING TEMPERATURE	-4° F (-25° C) to 113° F (45° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	ETL, RoHS, IP66 Outdoor/Wet Location with Water Tight Barrel Connectors, Class 2 Wiring Indoor Applications

### LUMEN PERFORMANCE AT 3000K 6W PER FOOT 30 DEGREE

#### (SEE COMPLETE CHART PG 2)

LUMEN OUTPUT:	610 lm/ft	EFFICIENCY:	102 lm/watt
CRI:	90+		

### REMOTE POWER SUPPLIES\*, DIMMERS & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

#### OUTDOOR/WET LOCATION

##### Static White

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

#### INDOOR

##### Static White

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

In-Wall Mounting and drop ceiling Kits available for select power supplies



System	Beam Angle	Wattage	Nominal Length in Feet	Color Temperature	8" Input Wire Feed	8" Output Wire	Environment
<b>FXL2D</b>	<b>30</b>	<b>6W</b>	<b>16FT</b>	<b>27K</b>	<b>E</b>	<b>CA</b>	<b>W</b>
FXL2D Flex Lens, 2D Bends Up/Down	10 10 Degree Beam 30 30 Degree Beam 45A 45 Degree Asymmetrical	6W 6 watts per foot	1-16FT Custom lengths available in as little as 6" increments <small>*See chart for exact lengths on pg 2</small>	27K 2700K Incandescent White 30K 3000K Warm White 40K 4000K Cool White	E End Feed Power Input Wire	E* End Feed Wire Output CA Cap at end, no feed through <small>*No output feed through available on lengths 11ft or more</small>	S Seamless Indoor/ Damp location bare wire leads Bottom and Left Feed Only W Outdoor/Wet Location Water Tight Barrel connector cable

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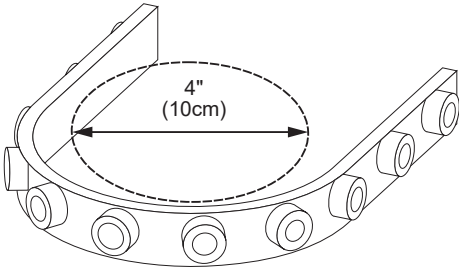


## Lamp Data: Lamp Data for 2D Flex Lens

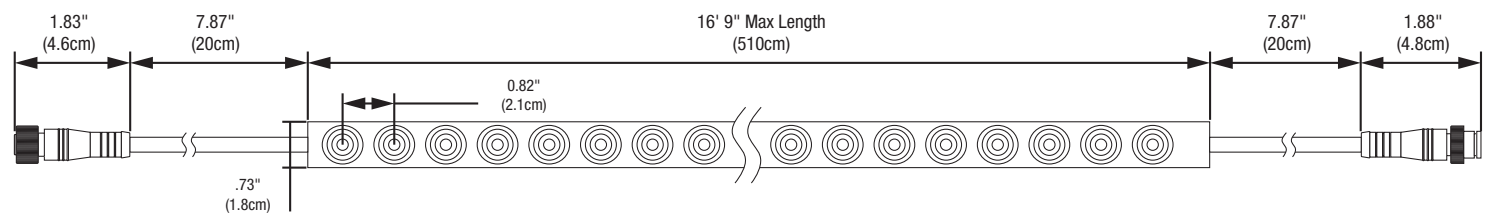
DESCRIPTION	FXL2D-10			FXL2D-30			FXL2D-45		
WATTS PER FOOT	6W			6W			6W		
COLOR TEMPERATURE	27K	30K	40K	27K	30K	40K	27K	30K	40K
LUMENS PER FOOT (lm/ft)	420	450	480	580	610	640	510	540	570
LUMENS PER WATT (lm/w)	70	75	80	97	102	107	85	90	95
CRI	90+	90+	90+	90+	90+	90+	90+	90+	90+

## LENGTH CHART

NOMINAL LENGTH	ACTUAL LENGTH	WATTS	NOMINAL LENGTH	ACTUAL LENGTH	WATTS
1'	12.39"	6	9'	108.39"	54
2'	24.39"	12	10'	120.39"	60
3'	36.39"	18	11'	132.39"	66
4'	48.39"	24	12'	144.39"	72
5'	60.39"	30	13'	156.39"	78
6'	72.39"	36	14'	168.39"	84
7'	84.39"	42	15'	180.39"	90
8'	96.39"	48	16'	192.39"	96



## Drawings: Dimensions for 2D Flex Lens



# 2D FLEX LENS 24VDC INDOOR/OUTDOOR

## PHOTOMETRIC DATA

**D** - Distance from fixture | **FC** - Initial foot candles at the center of beam | **DIA** - Diameter

BEAM ANGLE 10°

D'	FC	DIA.
1'	293	2"
2'	73	4"
3'	33	6"
4'	18	9"
5'	12	11"
6'	8	13"
7'	6	15"
8'	5	17"

DIA.

BEAM ANGLE 30°

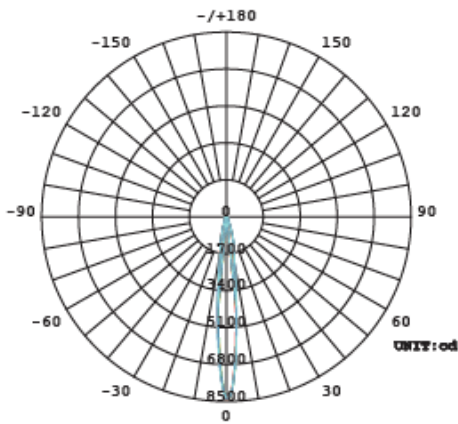
D'	FC	DIA.
1'	407	6"
2'	102	13"
3'	45	19"
4'	25	26"
5'	16	32"
6'	11	39"
7'	8	45"
8'	6	52"

DIA.

BEAM ANGLE 45A°

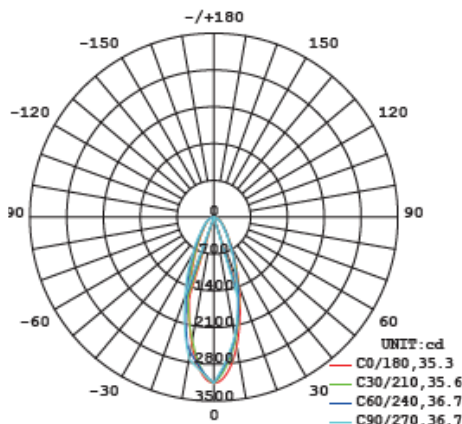
D'	FC	DIA.
1'	779	9"
2'	195	19"
3'	87	28"
4'	49	38"
5'	31	47"
6'	22	57"
7'	16	66"
8'	12	76"

DIA.



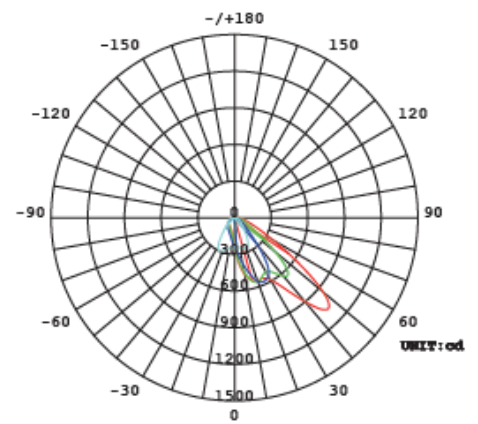
AVERAGE BEAM ANGLE (50%) : 11.7 DEG

C0/180, 11.4 Ic=8405  
C30/210, 11.5 Ic=8366  
C60/240, 11.8 Ic=8369  
C90/270, 12.1 Ic=8348



AVERAGE BEAM ANGLE (50%) : 36.1 DEG

C0/180, 35.3  
C30/210, 35.6  
C60/240, 36.7  
C90/270, 36.7



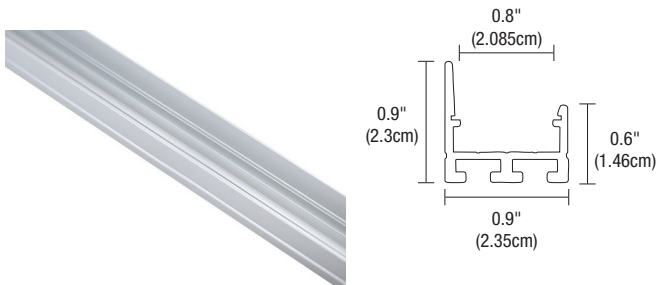
AVERAGE BEAM ANGLE (50%) : 51.7 DEG

C0/180, 40.7 Ic=1070  
C30/210, 48.8 Ic=642.1  
C60/240, 36.3 Ic=574.8  
C90/270, 80.8 Ic=241.9



# FLEX LENS 2D ACCESSORIES

24VDC INDOOR/OUTDOOR



## INTERIOR OR EXTERIOR CHANNEL

Interior or exterior channel features an aluminum extrusion with mounting clips included every 20". Available in lengths up to 40", easily fit together and may be cut at the job site.

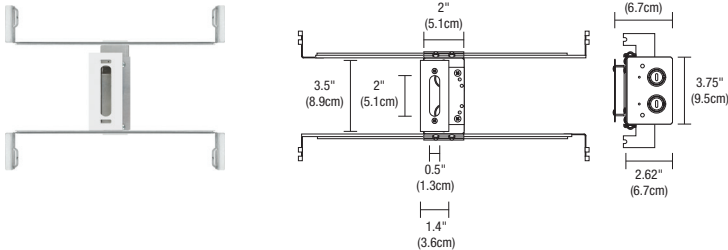
Product	Length	Finish
<b>EXT45A</b>	<b>48IN</b>	<b>SA</b>
EXT45A Extrusion 3/4" Wide	48IN 48 Inches	SA Satin Aluminum



## LENS (ORDER SEPARATELY)

Lens for high water pressure spray, 48" in length.

System	Product
<b>FXL2D</b>	<b>LN</b>
FXL2D Flex Lens 2D	LN Lens

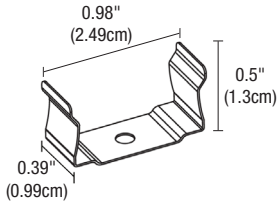


## 1" RECTANGLE CANOPY & J-BOX\*

The Slim-Profile Junction Box with Hanger Bars mounts to studs spaced between 14.5" and 25" apart behind drywall. Allows low voltage DC wires from Remote Power Supply to connect to channel wires. The Junction Box opening is covered by the fixture for a clean, safe connection. Includes a Goof Plate, for poor plastering around J-box.

\*Only to be used with Seamless Indoor Bottom Lead-In and Out

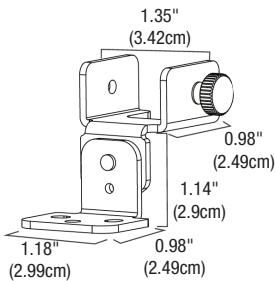
System	Canopy	Product
<b>C</b>	<b>1RE</b>	<b>JBOX</b>
C Channel	1RE 1" Rectangle	JBOX Junction Box



## STANDARD MOUNTING CLIPS

Flex Lens mounting clips are provided with every 12" of Flex Lens and may be ordered separately as replacement parts.

System	Product
<b>FXL2D</b>	<b>MCL</b>
FXL2D Flex Lens 2D	MCL Mounting Clip



## ADJUSTABLE MOUNTING CLIPS

Flex Lens mounting clips are provided with every 12" of Flex Lens and may be ordered separately as replacement parts. The FXL-MCL-090 rotates EXT1.14-40IN-SA Channel up to 90°.

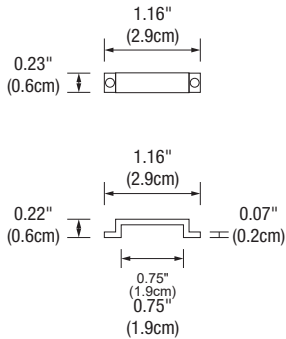
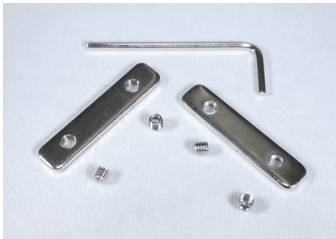
System	Product	Type
<b>FXL2D</b>	<b>MCL</b>	<b>090</b>
FXL2D Flex Lens 2D	MCL Mounting Clip	090 Adjust 0-90°

PROJECT		FIXTURE TYPE		DATE	
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# FLEX LENS OUTDOOR ACCESSORIES

24VDC INDOOR /OUTDOOR 7W STATIC WHITE & MONOCHROMATIC COLOR



### EXTRUSION JOINER BARS

Joiner Bars join two section of flex lens to appear as a continuous run.

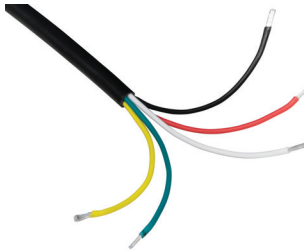
System	Product	Type
<b>EXT45A</b>	<b>CH</b>	<b>SC</b>
EXT45A Extrusion for Asymmetrical Lens	CH Channel	SC Straight Clip/Joiner



### DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed. Not compatible with Tunable White.

Product	Gauge	Cable
<b>DB</b>	<b>12G</b>	<b>2C</b>
DB Direct Burial	14G 14 Gauge	2C 2 Conductor



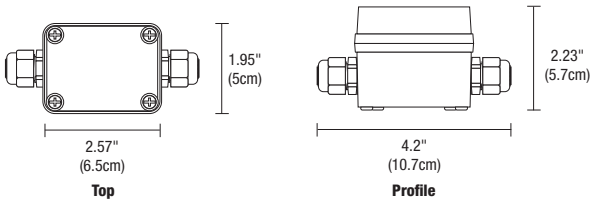
### WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed. For use with Tunable White.

Product	Gauge	Cable
<b>OC</b>	<b>14G</b>	<b>5C</b>
OC Outdoor Cable	14G 14 Gauge	5C 5 Conductor

### WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



Product	Type	Option
<b>2RE</b>	<b>JBOX</b>	<b>W</b>
2RE 2" Rectangle	JBOX Junction Box	W Wet Location



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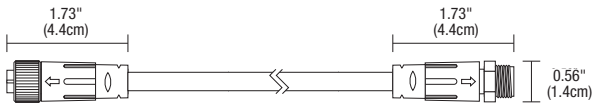


### WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.

#### Static White & Warm Dim

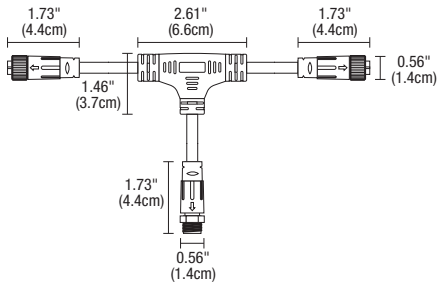
Product	Canopy	Product	Size	Option
<b>SS</b>	<b>2RE</b>	<b>JBOX</b>	<b>6IN</b>	<b>W</b>
SS LED Soft Strip Flex Neon	2RE 2" Rectangle	JBOX Junction Box	6IN 6" Four Wire Connection 96IN 96" Four Wire Connection	W Wet Location



### POWER CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Conductor	Option
<b>SS</b>	<b>CFX</b>	<b>16IN</b>	<b>2C</b>	<b>W</b>
SS Soft Strip and Flex Neon	CFX Flexible Connector	16IN 16" 96IN 96"	2C 2 Conductor	W Wet Location



### WET LOCATION T-CONNECTOR

Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.

Product	Type	Size	Size	Option
<b>SS</b>	<b>CFX</b>	<b>4IN</b>	<b>2YC</b>	<b>W</b>
SS Soft Strip and Flex Neon	CFX Flexible Connector	4IN 4"	2YC Y-Shape 2 Conductor	W Wet Location