

# LIGHT CHANNEL 45° ANGLED COMPLETE FIXTURE

24VDC SURFACE MOUNT LIGHT CHANNEL, RGB

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 12.08.25



## DESCRIPTION

Light Channel 45° Angle Surface Mount Lighting System is a made-to-order complete fixture, purchased in nominal increments of 2", 3", 5", 8" and 10". Light Channels may be ordered from 12" up to 120" (10'). The 45° angle channel gives more flexibility to the designer when trying to place light where it is most difficult. For longer continuous runs, see DIY spec sheet. For custom quotes and layout assistance, send your drawings and ideas to our design team: [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

## FEATURES AND BENEFITS

- 24VDC LED Strip provides up to 94+ CRI values offers excellent Designer Luxury Grade color rendering and fits inside a slim profile aluminum extrusion
- Low voltage up to 100 watt. Class 2 wiring, eliminates the need for conduit
- Power Consumption: 4.4W per foot
- Average life: 50,000 hours
- 5-year warranty

## LENS OPTIONS

- Clear Lens (**C**) provides maximum illumination use of a transparent lens, LEDs diodes will show
- Diffused White Lens (**D**) projects clean lines of light eliminating pixelation

## INCLUDED COMPONENTS

- 72" Power Connector (Included 1 per fixture). Order extra as needed based on your installation requirements.
- Mounting Clips (Included with every 2' of Channel)

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

24VDC, Class 2 wiring

### RGB/RGB+W

- [DMX & Controls](#)

\*In-wall mounting and drop ceiling kits available for select power supplies

## APPLICATIONS

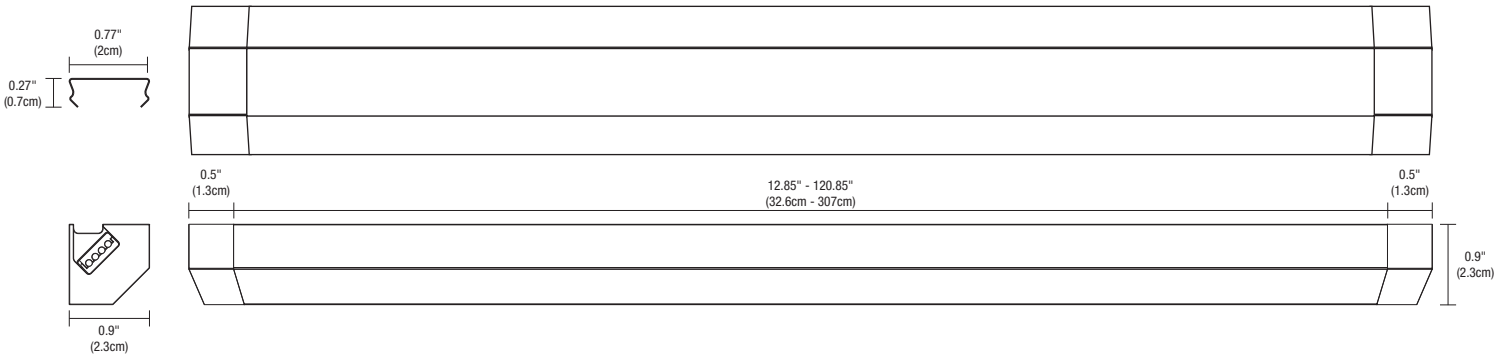
Designed for indoor use only. Applications include but not limited to display cabinets, under cabinets, cabinet up-lighting, toe kicks, and coves. Ideal applications in residential, commercial, retail, and hospitality environments.

Product	Wattage	Nominal Size	Color Temperature	Finish
<b>LC45</b>	<b>5W</b>	<b>60</b>	<b>D</b> <b>RGB</b>	<b>SA</b>
<b>LC45</b> Light Channel Surface Mount 45°	<b>5W</b> 4.4 Watts	<b>12-120</b> Order in 12" increments up to 120". May be ordered in 3", 5", 8" or 10" increments.	<b>D</b> Diffused Lens <b>C</b> Clear Lens	<b>SA</b> Satin Aluminum <b>WH</b> White

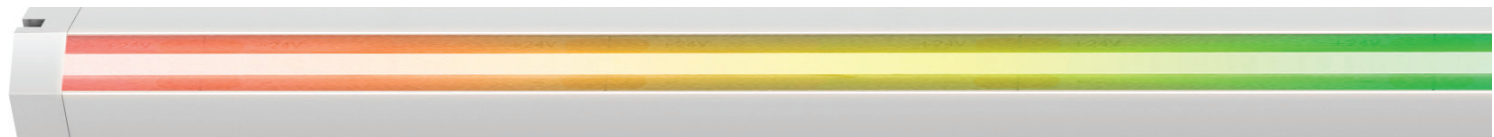
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## INCLUDED COMPONENTS Lens Options and Lamp Data for indoor Light Channel 45°



**LC45 LIGHT CHANNEL 61° DIFFUSED LENS**  
 White Diffused Lens projects clean lines of light, eliminating LED diodes



**LC45 LIGHT CHANNEL 26° CLEAR LENS**  
 Clear Lens provides maximum light levels and will show slight LED diodes

## FOOT CANDLE CHARTS

30K 5W DIFFUSED LENS		
DISTANCE	BEAM	FOOT CANDLE
12"	29"	240
18"	43"	106
24"	57"	60
36"	86"	26

30K 5W CLEAR LENS		
DISTANCE	BEAM	FOOT CANDLE
12"	8"	720
18"	13"	320
24"	18"	180
36"	26"	80

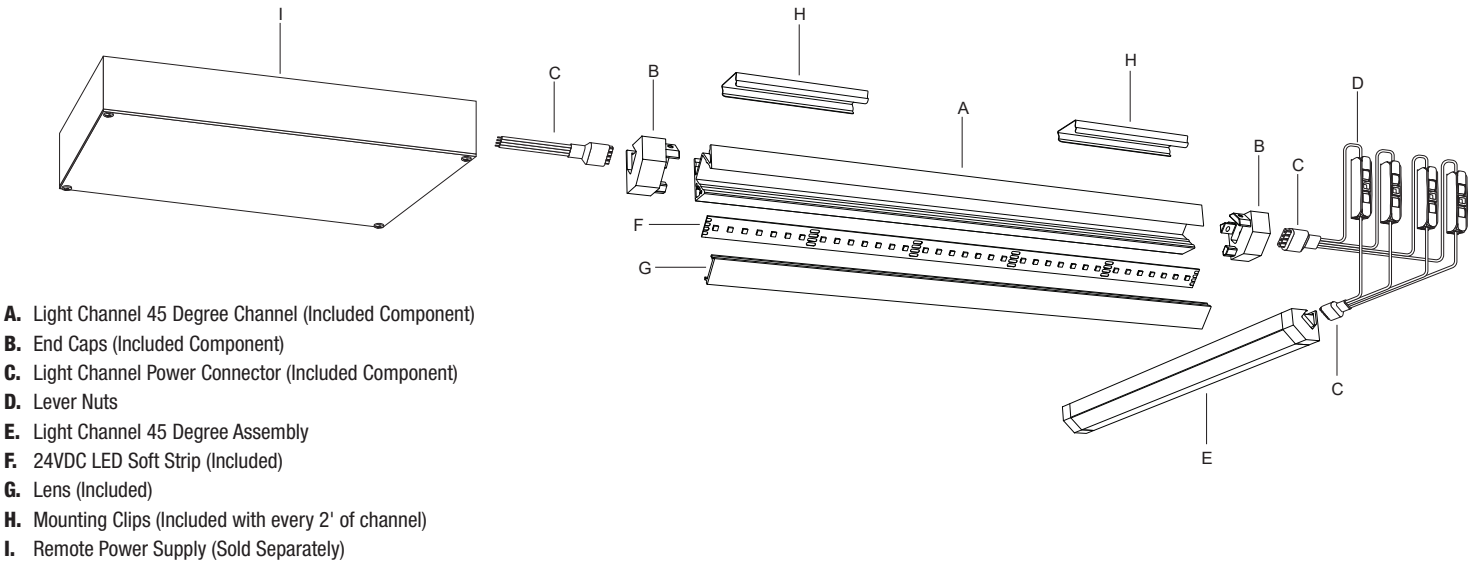
\*Foot Candle Data is based off 4' Channel.

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## INCLUDED COMPONENTS: Light Channel 45° system overview



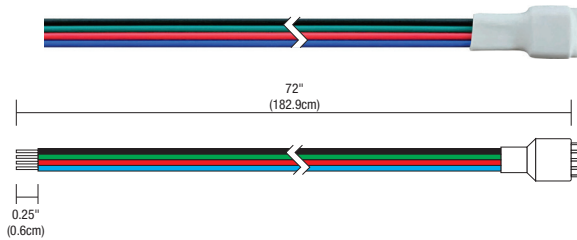
## Length Charts: Actual lengths for Light Channel 45°

RGB					
Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)
12	12.0	13.0	68	67.2	68.2
15	14.4	15.4	70	69.6	70.6
17	16.8	17.8	72	72.0	73.0
20	19.2	20.2	75	74.4	75.4
22	21.6	22.6	77	76.8	77.8
24	24.0	25.0	80	79.2	80.2
27	26.4	27.4	82	81.6	82.6
29	28.8	29.8	84	84.0	85.0
32	31.2	32.2	87	86.4	87.4
34	33.6	34.6	89	88.8	89.8
36	36.0	37.0	92	91.2	92.2
39	38.4	39.4	94	93.6	94.6
41	40.8	41.8	96	96.0	97.0
44	43.2	44.2	99	98.4	99.4
46	45.6	46.6	101	100.8	101.8
48	48.0	49.0	104	103.2	104.2
51	50.4	51.4	106	105.6	106.6
53	52.8	53.8	108	108.0	109.0
56	55.2	56.2	111	110.4	111.4
58	57.6	58.6	113	112.8	113.8
60	60.0	61.0	116	115.2	116.2
63	62.4	63.4	118	117.6	118.6
65	64.8	65.8	120	120.0	121.0

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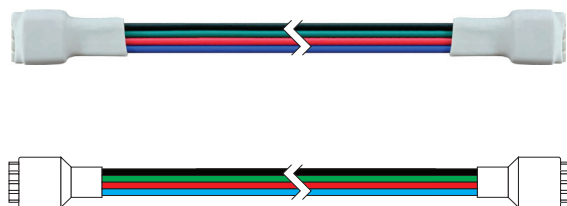
**ACCESSORIES:** Order based on your lighting design specifications or as replacement parts.



## LIGHT CHANNEL POWER CONNECTOR

One Female Power Connector is included with each order of channel. For jumper connections, we recommend using WAGO 221 Lever Nuts according to your specific application requirements.

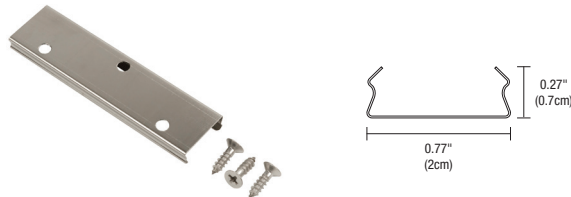
System	Type	Product	Length	Color Temperature
<b>SS</b>	<b>FE</b>	<b>CON</b>	<b>72IN</b>	<b>RGB</b>
SS Stomp/Soft Strip	FE Female Pin	CON Connector	72IN 72"	RGB RGB (Tunable White Compatible)



## FLEXIBLE CONNECTOR

Flexible connectors link two sections of the Light Channel end to end.

System	Type	Product	Size	Color Temperature
<b>SS</b>	<b>CFX</b>	<b>CON</b>	<b>12IN</b>	<b>RGB</b>
SS Stomp Strip/Soft Strip	CFX Flexible Connector	CON Connector	12IN 12 Inches 72IN 72 Inches	RGB RGB (Tunable White Compatible)



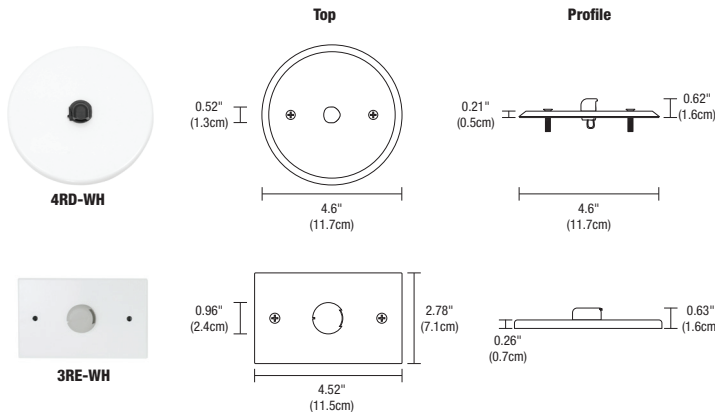
## MOUNTING CLIP

Light Channel comes with standard mounting clips. LC45-MCL mounting clips are provided with every 2' of Light Channel.

System	Product
<b>LC45</b>	<b>MCL</b>
LC45 Light Channel 45°	MCL Mounting Clip

## CANOPY COVER & SPLICE BOX

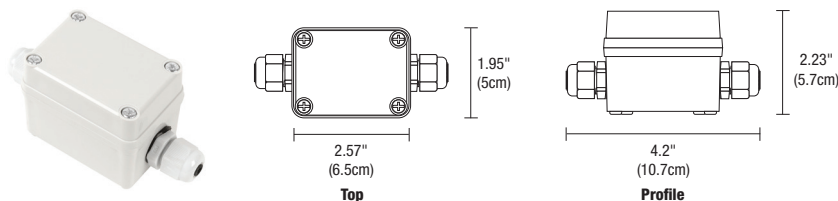
Use for remote located power supply. The 3 inch rectangle or 4 inch round white canopy covers the electrical box and feeds wires for Light Channel. The Splice Box provides a safe enclosure for low voltage connections.



Product	Finish
<b>3RE</b>	<b>WH</b>
3RE 3" Rectangle Canopy Cover	WH White
4RD 4" Round Canopy Cover	

## JUNCTION BOX

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