LIGHT CHANNEL COMPLETE FIXTURE 45° ANGLE

24VDC, SURFACE MOUNT, WARM DIM



DESCRIPTION

Our Warm Dim 45° Surface-mounted Light Channel is a versatile made-toorder, 24VDC Class 2 luminaire. The channel's 45° angle design provides designers with enhanced flexibility when it comes to illuminating challenging areas. Offered in lengths from 12" to 120"(10') in 3" increments for precise sizing. Available in two variations (**27D** & **30D**) our Warm Dim technology mimics an incandescent atmosphere by decreasing the color temperature as you dim. Our Warm Dim strips can be dimmed all the way down to a soothing amber hue at 1800K, reminiscent of candlelight along the halogen curve. With its combination of flexibility, customization, and lighting quality, the Light Channel 45° is an excellent choice for a wide range of applications. Click here for all <u>Other Color Temperatures</u>. For Field cuttable runs, see DIY spec sheet. Fixture includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to our design team: <u>design@</u> <u>PureEdgeLighting.com</u>

FEATURES AND BENEFITS

- Low voltage, 24VDC Power supplies can be remotely located up to 40' away provides installation flexibility
- · Slim profile aluminum extrusion easily installs into small spaces
- 92+ CRI LED strip offers outstanding color accuracy
- Class 2 wiring, eliminates the need for conduit
- 45° angle design provides enhanced flexibility when it comes to illuminating challenging areas

LENS OPTIONS

- Clear Lens (C) provides maximum illumination using a 40° transparent clear lens, LED diodes will show
- Diffused White Lens (D) projects clean lines of light through a 100° lens eliminating pixelation
- Diffused Lens with Gel Color Filter (G) (Provided by Customer) Clear and Diffused Lens are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters recommended. Purchase Gel Lens from <u>www.leefilters.com</u>. See manufacturer spec sheet for more information.

FINISHES



LAMP

- 27D dims from 2700K down to 1800K, and 30D dims from 3000K down to 2000K, resembling incandescent light sources
- Lumen Performance: Up to 313lm/ft at 3000K, 5W per foot
- 92+ CRI
- Average life: 50,000 hours
- · For additional color temperatures refer to other specifications

SPECIFICATIONS

- 24VDC, Class 2
- 4.8 watts per foot
- 3-inch increments up to 120"(10ft)
- Operating temperature: -22°F to 140°F (-30°C to 60°C)

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

- Home Integration Solutions
- UNI Driver: Universal Dimming (TRIAC, ELV, 0-10V)
- Electronic Low Voltage (ELV) 50W (fits inside junction box)
- Lutron Hi-Lume/Ecosystem
- *In-wall mounting and drop ceiling kits available for select power supplies

MAKE IT SMART

Pure Smart[™] Wi-Fi Dimmer & Switch

COMPLIANCE

*Title 24 JA8 listed when used with PureEdge remote Universal power Supplies, ETL, Class 2, Damp Location, Manufactured in the USA.

APPLICATIONS

Designed for indoor use only. Ideal applications include display shelving and cabinetry, under-cabinet, cabinet lightning, coves, and bars within residential, commercial, retail, and hospitality environments.



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LENS OPTIONS





LC45 LIGHT CHANNEL DIFFUSED LENS WITH GEL COLOR FILTER (PROVIDED BY CUSTOMER)

Clear and Diffused Lens are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters are recommended and can be purchased from www.leefilters.com. Gel filter life is 5,000 hours before needing to be changed

NOMINAL DELIVERED LUMENS

	DIFFUSED LENS		CLEAR LENS	
WATTS PER FOOT	5w (4.8 watts)		5w (4.8 watts)	
COLOR TEMPERATURE	27D	30D	27D	30D
LUMENS PER FOOT (Im/ft)	256	267	300	313
LUMENS PER WATT (Im/w)	53	56	63	65
CRI	92+	92+	92+	92+
RF	90	90	90	90
RG	99	99	99	99

FOOT CANDLE CHARTS

30K 100° 5W DIFFUSED LENS			30K 40	30K 40° 5W CLEAR LENS		
DISTANCE	BEAM	FOOT CANDLE	DISTANCE	BEAM	FOOT Candl	
12"	29"	240	12"	8"	720	
18"	43"	106	18"	13"	320	
24"	57"	60	24"	18"	180	
36"	86"	26	36"	26"	80	

*Foot Candle Data is based off 4' Channel.

FIXTURE TYPE



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ACTUAL LENGTHS FOR LIGHT CHANNEL 45° WARM DIM							
ORDERING CODE (NOMINAL LENGTH) /ILLUMINATED LENGTH	ACTUAL LENGTH	ORDERING CODE (NOMINAL LENGTH) /ILLUMINATED LENGTH	ACTUAL LENGTH				
12	13	66	67				
15	16	69	70				
18	19	72	73				
21	22	75	76				
24	25	78	79				
27	28	81	82				
30	31	84	85				
33	34	87	88				
36	37	90	91				
39	40	93	94				
42	43	96	97				
45	46	99	100				
48	49	102	103				
51	52	105	106				
54	55	108	109				
57	58	111	112				
60	61	114	115				
63	64	117	118				
	·	120	121				

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24VDC, SURFACE MOUNT, WARM DIM

PURE EDGE PureSmart Lighting

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Components: Light Channel 45° system overview



WIRING DIAGRAM: Electronic Low Voltage (ELV) dimming for Indoor Light Channel 45°

Power Supply: 120VAC input, 24VDC 96 watt output

Dimming: Dimmable with low voltage electronic dimmer using power supply above. See power supply spec sheet for additional details. Lutron: Diva DVELV-300P; Skylark SELV-300P; Maestro MAELV-600 dimmers are recommended.



- A. Dimmer (ELV Dimmer shown)
- B. 96W 24VDC Power Supply
- C. Light Channel Power Connector SS-FE-CON-72IN-DW
- D. 3" Rectangle Canopy Cover 3RE-WH
- E. Light Channel Fixture
- F. Light Channel Flexible Connector SS-CFX-CON-__-DW



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NETWORK TOPOLOGY USING UNI DRIVER



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



DW

LIGHT CHANNEL POWER CONNECTOR

One Female Power Connector is included with each order of channel. For jumper connections, use our Flexible Connector or WAGO 221 lever nuts according to your specific application requirements.



FLEXIBLE CONNECTOR

Flexible connectors link two sections of the Light Channel end to end. WAGO 221 lever nuts can also be used as jumper connections according to your specific application requirements.



MOUNTING CLIP

0.27" (0.7cm)

0.77" (2cm) Light Channel comes with standard mounting clips. LC45-MCL mounting clips are provided with every 2' of Light Channel.





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.



JUNCTION BOX

Low voltage Splice Box with connectors.



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24VDC, SURFACE MOUNT, STATIC WHITE



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TM-30-15 DATA: The data below is for bare LED Warm Dim Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

HUE

1.1%

3.2%

5.0%

0.8%

1.7%

0.0%

-1.9%

-0.9%

3.2%

5.6%

7.2%

-0.2%

-6.7%

-9.2%

-3.6%

2700D | Rf: 90.7 | Rg: 101.1 **Color Vector Graphic**



3000D | Rf: 90.6 | Rg: 101.1 Color Vector Graphic

