LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
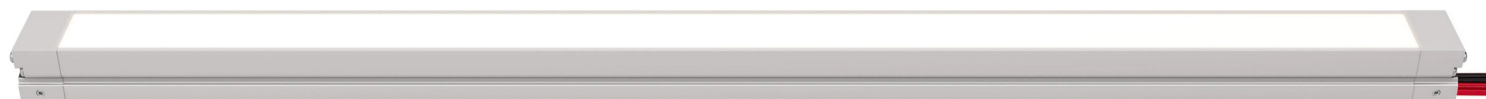24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE LIGHTING

REV02.26.20

DESCRIPTION

Light Channel 0.6" Surface Mount System is a made-to-order complete fixture, purchased in nominal increments of 2, 3, 5, 8 and 10 inches. Light Channels may be ordered from 12 inches all the way up to 120 inches (10ft). For longer continuous runs, see DIY spec sheet.

FEATURES AND BENEFITS

• 24VDC Commercial Grade LED Soft Strip provides up to 95+ 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, no need for conduit pipe.
• Power Consumption Options: 2.5W | 4.4W | 4.8W | 7.3W per foot.
• 7 LEDs per cutting increment provides 87.5% efficiency compared to six LEDs at only 75%. Solid State Power Supply offer 85-90% efficiency compared to magnetic at 80%. The combination of seven LEDs and a Solid State Power Supply increases the efficiency up to 22%.
• Lens Options: **(C)** Clear Lens provides maximum illumination use of a 26-Degree transparent clear lens, LEDs diodes will show. **(CLW)** Clear Lens White Louver, **(CLB)** Clear Lens Black Louver. **(D)** White Diffuser Lens projects clean lines of light 61-Degrees eliminating LED dots. **(DLW)** Diffused Lens White Louver, **(DLB)** Diffused Lens Black Louver. **(G)** DIFFUSER LENS WITH GEL COLOR FILTER **(PROVIDED BY CUSTOMER)** Clear and Diffuser Lens are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters recommended. Purchase Gel Lens from www.leefilters.com. See manufacturer spec sheet for more information

INCLUDED COMPONENTS

• 96 Inches of Solderless Snap & Light Power Connector (Includes 1 per fixture. Order extra as needed based on your installation requirements.)
• Mounting Clips (Included with every 2 feet of Channel)

APPLICATIONS

• **Indoor Only** - Hospitality, Restaurants, Retail, Display Cabinet Lighting, Under Cabinet Lighting, Above Cabinet Up-Lighting, Toe Kick, Cove, Night Clubs, General Lighting, Warm Dim Dim-to-Warm, Dynamic/Tunable White, Human Centric Lighting

ACCESSORIES (SOLD SEPARATELY)

• Mounting Clips (Included with every 2 feet of Channel)
• Solderless Snap & Light Power/Jumper Connector
• Soft Strip Solderless Snap & Light Straight Joiner
• Solderless Light Channel Connectors L, T, X

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

• Universal Power Supplies (Triac, ELV, 0-10V) Title 24 Compliant
• Electronic Low Voltage Dimming (ELV)
• 0-10 Volt Dimming (0-10V) Title 24 Compliant
• 2XK Dynamic Color Changing (DMX) Title 24 Compliant
• Lutron Hi-Lume® Title 24 Compliant

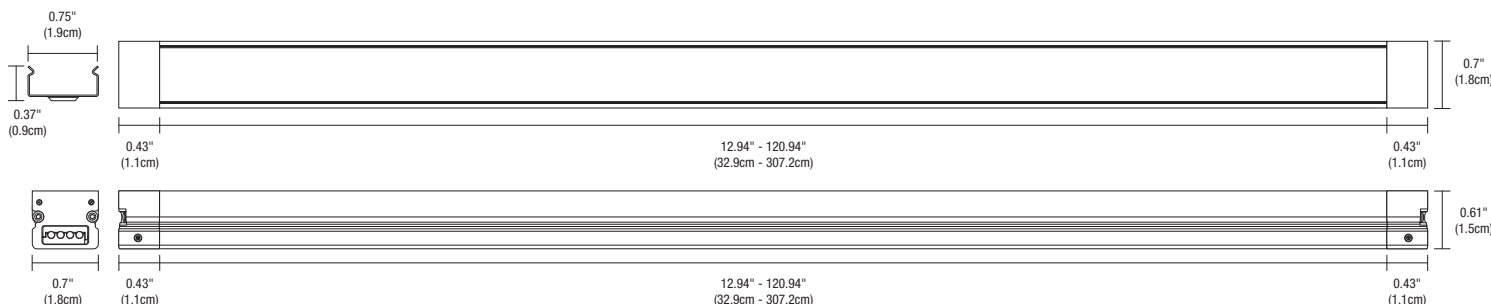*In-Wall Mounting Kits available for select power supplies.

Product	Wattage	Nominal Size	Lens/Color Temperature		Finish
LCS.6	**2W**	**60**	**D**	**22K**	**SA**

Product	Wattage	Nominal Size	Lens/Color Temperature		Finish
LCS.6 Light Channel .6 Surface Mount	**2W** 2.5 watts **5W** 4.4 watts **7W** 7.3 watts	**12-120** Order in 12 inch increments up to 120 inches. May be ordered in 3, 5, 8 or 10 inch increments	**D** Diffuser Lens **C** Clear Lens **DLW** Diffused Lens with White Louver **DLB** Diffused Lens with Black Louver **CLB** Clear Lens with Black Louver **CLW** Clear Lens with White Louver	**20K** 2000K Sunset **22K** 2200K Amber White **24K** 2400K Very Warm White **27K** 2700K Incandescent White **27D** 2700K Warm Dim to 2000K (DIM-TO-WARM) 5 Watt Only **30K** 3000K Warm White **30D** 3000K Warm Dim to 2000K (DIM-TO-WARM) 5 Watt Only **35K** 3500K Neutral White **40K** 4000K Cool White **57K** 5700K Daylight White **2K4K** 2000K-4000K Dynamic Tunable White, Variable color changes at full brightness from 2000K-4000K	**SA** Satin Aluminum **XX** Custom Finishes Available

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

1

# LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE LIGHTING

REV02.26.20

0.75" (1.9cm)
0.7" (1.8cm)
0.37" (0.9cm)
0.43" (1.1cm)
12.94" - 120.94" (32.9cm - 307.2cm)
0.43" (1.1cm)
0.61" (1.5cm)
0.7" (1.8cm)
0.43" (1.1cm)
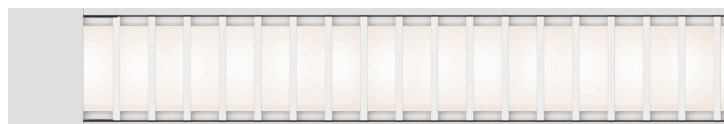12.94" - 120.94" (32.9cm - 307.2cm)
0.43" (1.1cm)

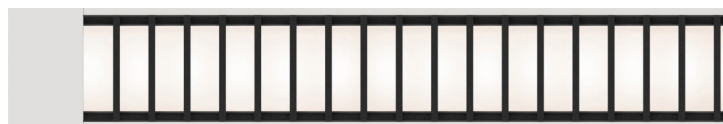## INCLUDED COMPONENTS Lens Options and Lamp Data for indoor Light Channel 0.6" Surface Mount
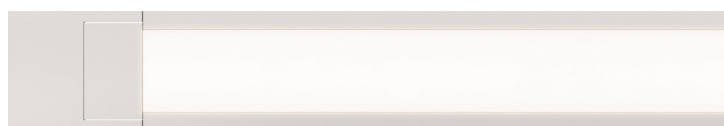
**LCS.6 LIGHT CHANNEL
61° DIFFUSER LENS**
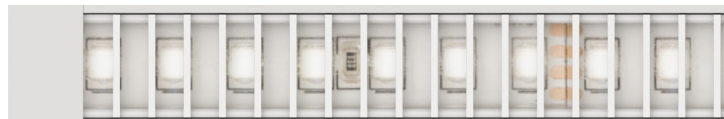White Diffuser Lens projects clean lines of light, eliminating LED dots

**LCS.6 LIGHT CHANNEL
26° CLEAR LENS**
Clear Lens provides maximum light levels and will show slight LED dots

**LCS.6 LIGHT CHANNEL
DIFFUSE WHITE LENS WITH WHITE LOUVER**

**LCS.6 LIGHT CHANNEL
DIFFUSER LENS WITH BLACK LOUVER**

**LCS.6 LIGHT CHANNEL
CLEAR LENS WITH WHITE LOUVER**

**LCS.6 LIGHT CHANNEL
CLEAR LENS WITH BLACK LOUVER**

**LCS.6 LIGHT CHANNEL
DIFFUSER LENS WITH GEL COLOR FILTER (PROVIDED BY CUSTOMER)**
Clear and Diffuser 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

Lamp Life is 50,000 hours

LIGHT CHANNEL 0.6 SURFACE MOUNT

WATTS PER FOOT	2w (2.5 watts)							5w (4.4 watts)									7w (7.5 watts)						
COLOR TEMPERATURE	22K	24K	27K	30K	35K	40K	57K	22K	24K	27K	27D*	30K	27D*	35K	40K	57K	22K	24K	27K	30K	35K	40K	57K
CLEAR LENS LUMENS PER FOOT LM/FT	129.4	143.6	157.8	172.5	197.5	214.8	228.6	207.9	230.75	253.6	372.0	277.2	406.0	317.4	345.1	367.3	300.4	333.45	366.5	400.5	458.6	498.6	530.7
CLEAR LENS LUMENS PER WATT LM/W	51.8	57.45	63.1	69.0	79.0	85.9	91.4	47.3	52.5	57.7	77.5	63.0	84.7	72.1	78.4	83.5	40.1	44.5	48.9	53.4	61.1	66.5	70.8
DIFFUSER LENS LUMENS PER FOOT LM/FT	111.0	122.7	135.4	148.0	169.5	184.3	196.1	174.9	194.15	213.4	320.0	233.2	350.0	267.0	290.3	309.0	241.9	268.5	295.1	322.5	369.3	401.5	427.3
DIFFUSER LENS LUMENS PER WATT LM/W	44.4	49.3	54.2	59.2	67.8	73.7	78.4	39.8	44.05	48.5	66.7	53.0	72.9	60.7	66.0	70.2	32.3	35.85	39.4	43.0	49.2	53.5	57.0
RF	83.9	85.8	87.7	88.1	86.1	87.6	80.3	83.9	85.8	87.7	89.5	88.1	100.8	86.1	87.6	80.3	83.9	85.8	87.7	88.1	86.1	87.6	80.3
RG	94.9	95.5	96.1	99.7	95.5	96.8	91.5	94.9	95.5	96.1	100.8	99.7	101.4	95.5	96.8	91.5	94.9	95.5	96.1	99.7	95.5	96.8	91.5
CRI	85+	90+	95+	95+	85+	84	84	85+	90+	95+	95+	95+	95+	85+	84	84	85+	90+	95+	95+	85+	84	84

FOOT CANDLE CHARTS

30K 60° 5W DIFFUSER LENS		
DISTANCE	BEAM	FOOT CANDLE
12in	15in	201 FC
18in	21in	110 FC
24in	29in	70 FC
36in	42in	35 FC

30K 60° 5W CLEAR LENS		
DISTANCE	BEAM	FOOT CANDLE
12in	15in	273 FC
18in	21in	145 FC
24in	29in	91 FC
36in	42in	44 FC

*Foot Candle Data is based off 4' Channel.

PROJECT	FIXTURE TYPE	DATE

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

2

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE
LIGHTING

REV02.26.20

Length Charts: Actual lengths for Light Channel .6 Surface Mount

22K, 24K, 27K, 30K, 35K, 40K, 57K & 2K4K					
Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)
12	12.0	12.9	68	67.2	68.1
15	14.4	15.3	70	69.6	70.5
17	16.8	17.7	72	72.0	72.9
20	19.2	20.1	75	74.4	75.3
22	21.6	22.5	77	76.8	77.7
24	24.0	24.9	80	79.2	80.1
27	26.4	27.3	82	81.6	82.5
29	28.8	29.7	84	84.0	84.9
32	31.2	32.1	87	86.4	87.3
34	33.6	34.5	89	88.8	89.7
36	36.0	36.9	92	91.2	92.1
39	38.4	39.3	94	93.6	94.5
41	40.8	41.7	96	96.0	96.9
44	43.2	44.1	99	98.4	99.3
46	45.6	46.5	101	100.8	101.7
48	48.0	48.9	104	103.2	104.1
51	50.4	51.3	106	105.6	106.5
53	52.8	53.7	108	108.0	108.9
56	55.2	56.1	111	110.4	111.3
58	57.6	58.5	113	112.8	113.7
60	60.0	60.9	116	115.2	116.1
63	62.4	63.3	118	117.6	118.5
65	64.8	65.7	120	120.0	120.9

27D, 30D WARM DIM					
Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)
12	12.0	12.9	69	69.0	69.9
15	15.0	15.9	72	72.0	72.9
18	18.0	18.9	75	75.0	75.9
21	21.0	21.9	78	78.0	78.9
24	24.0	24.9	81	81.0	81.9
27	27.0	27.9	84	84.0	84.9
30	30.0	30.9	87	87.0	87.9
33	33.0	33.9	90	90.0	90.9
36	36.0	36.9	93	93.0	93.9
39	39.0	39.9	96	96.0	96.9
42	42.0	42.9	99	99.0	99.9
45	45.0	45.9	102	102.0	102.9
48	48.0	48.9	105	105.0	105.9
51	51.0	51.9	108	108.0	108.9
54	54.0	54.9	111	111.0	111.9
57	57.0	57.9	114	114.0	114.9
60	60.0	60.9	117	117.0	117.9
63	63.0	63.9	120	120.0	120.9
66	66.0	66.9			

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

3

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE
L I G H T I N G

REV02.26.20

Included Components: Light Channel .6 Surface Mount system overview

A. Light Channel .6 Surface Mount (Included Component)
B. End Caps (Included Component)
C. 24VDC Light Channel Solderless Snap & Light Power/Jumper Connector (Included 1 per fixture)
D. Light Channel Solderless Snap & Light L-Connector (Sold Separately)
E. Light Channel .6 Surface Mount Assembly (Included Component)
F. 24VDC LED Soft Strip (Included Component)
G. Lens (Included Component)
H. Mounting Clips (Included Component with every 2 feet of channel)
I. Remote Power Supply (PSB-60L-ELV-24VDC shown) (Sold Separately)

Wiring Diagram: Electronic Low Voltage (ELV) dimming for Indoor Light Channel .6 Surface Mount

Power Supply: 120VAC input, 24VDC 96 watt output PSB-100W-ELV-24VDC

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.
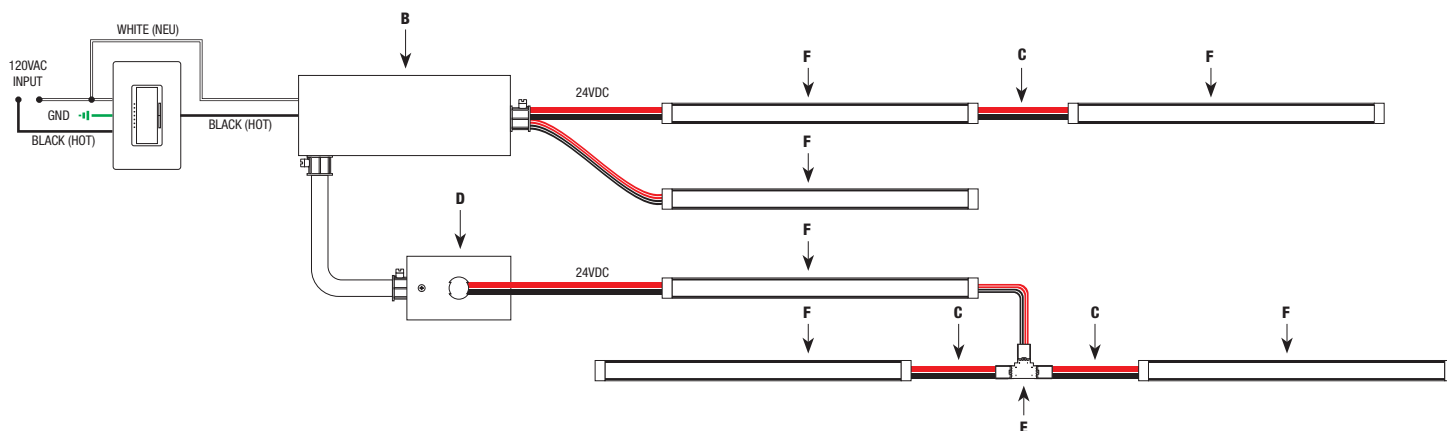
A. ELV Dimmer
B. 100W 24VDC Power Supply
C. 24VDC Light Channel Solderless Snap & Light Power/Jumper Connector
D. 3" Rectangle Canopy Cover
E. Light Channel Solderless Snap & Light T Connector (LC-SLT)
F. Light Channel .6 Surface Mount

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
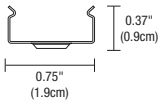For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

4

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
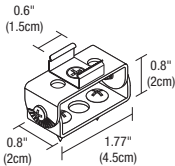24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE LIGHTING

REV02.26.20

Accessories: Indoor Light Channel .6 Surface Mount, order based on lighting design or as replacement parts

---
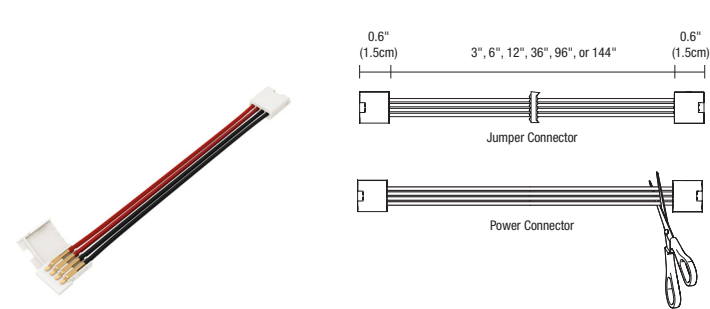
24VDC Light Channel Solderless Snap & Light Jumper/Power Connector

Power connector is included, may be ordered as a jumper connector. Join sections of Light Channel using Solderless Snap & Light L, T, or X Connectors below. To use as a power connector cut and strip the wires.

System	Product	Length
LC	**SLC**	**3IN**
LC Light Channel	SLC Solderless Snap & Light Jumper/Power Connector	3IN 3 Inches 36IN 36 Inches 6IN 6 Inches 96IN 96 Inches 12IN 12 Inches 144IN 144 Inches

Dimensions shown: 0.6" (1.5cm); 3", 6", 12", 36", 96", or 144"; 0.6" (1.5cm)

Jumper Connector

Power Connector

Light Channel Solderless Snap & Light L-Connector

Conducts power to 2 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector (sold separately) for use.

0.78" (2cm) · 0.45" (1.1cm) · 0.78" (2cm) · 0.45" (1.1cm)

System	Product
LC	**SLL**
LC Light Channel	SLL Snap & Light L-Connector
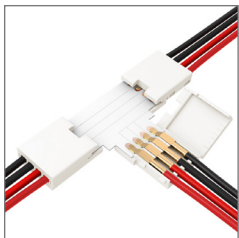
Light Channel Solderless Snap & Light T-Connector

Conducts power to 3 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector for use (sold separately).

1.13" (2.9cm) · 0.45" (1.1cm) · 0.78" (2cm) · 0.45" (1.1cm)

System	Product
LC	**SLT**
LC Light Channel	SLT Snap & Light T-Connector
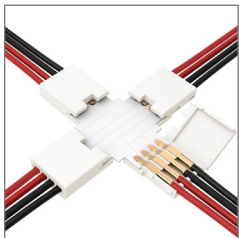
Light Channel Solderless Snap & Light X-Connector

Conducts power to 4 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector for use (sold separately).

1.13" (2.9cm) · 0.45" (1.1cm) · 1.13" (2.9cm) · 0.45" (1.1cm)

System	Product
LC	**SLX**
LC Light Channel	SLX Snap & Light X-Connector

Soft Strip Solderless Snap & Light Straight Joiner

Joins 2 sections of LED Soft Strip in the channel. Used when replacing a section of LED Soft Strip.

0.47" (1.2cm) · 0.08" (0.2cm) · 0.11" (0.3cm) · 0.9" (2.3cm)

System	Product
CH	**SLC**
CH Channel	SLC Snap & Light Straight Joiner

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

5

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE LIGHTING

REV02.26.20

Accessories: Indoor Light Channel .6 Surface Mount, order based on lighting design or as replacement parts
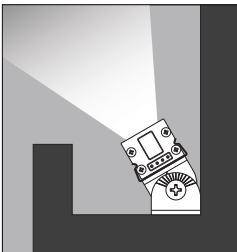

LCS.6-MCL

0.37"
(0.9cm)

0.75"
(1.9cm)

LCS.6-MCL

0.6"
(1.5cm)

0.8"
(2cm)

0.8"
(2cm)

1.77"
(4.5cm)

LCS.6-MCL-075

0.63"
(1.6cm)

3"
(7.6cm)

2"
(5.1cm)
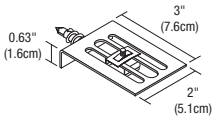
LCS.6-MCL-90

Mounting Clips

LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75 degrees. LC-MCL-90 mounts Light Channel at a 90 degree angle.

System	Product	Type
LCS.6	**MCL**	Standard (Leave Blank)

LCS.6 Light Channel 0.6" Surface Mount	**MCL** Mounting Clip	**075** Adjusts 0-75°
		90 Adjusts 90°
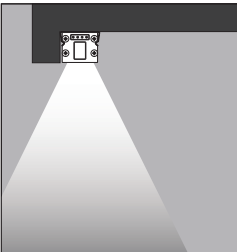
SHOWN WITH LCS.6-MCL

SHOWN WITH LCS.6-MCL-075
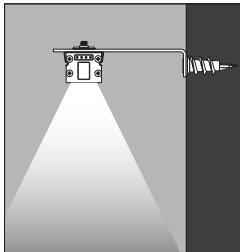
SHOWN WITH LCS.6-MCL-90

4RD-WH

0.52"
(1.3cm)

4.6"
(11.7cm)

0.21"
(0.5cm)

0.62"
(1.6cm)

4.6"
(11.7cm)
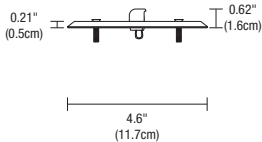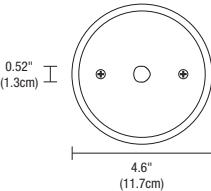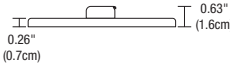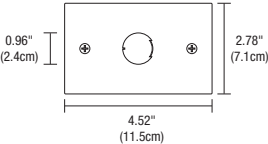
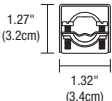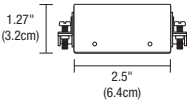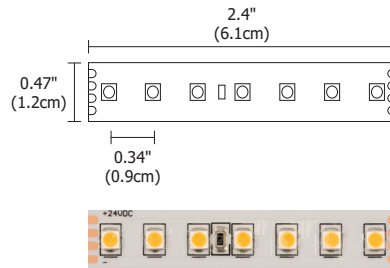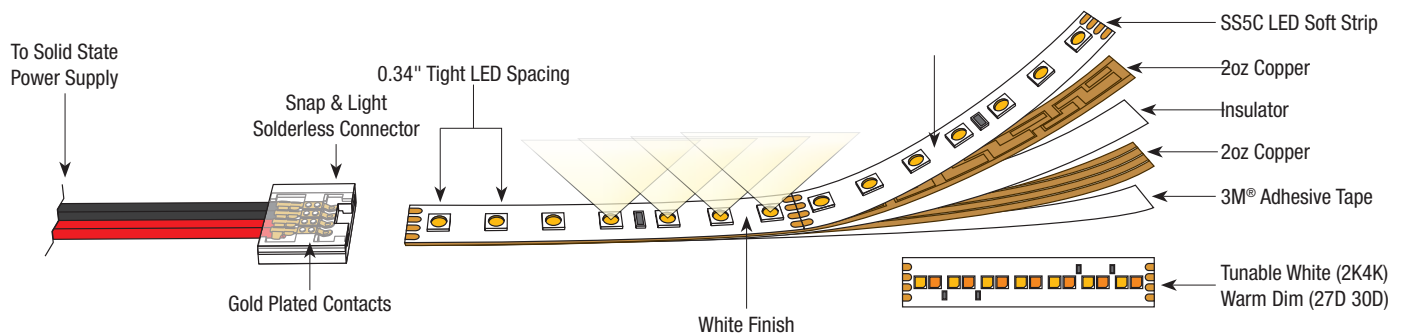### Canopy Cover & Splice Box

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
3RE	**WH**

3RE 3 Inch Rectangle Canopy Cover	**WH** White
4RD 4 Inch Round Canopy Cover	
1RB 1 Inch Rectangle Splice Box	

3RE-WH

0.96"
(2.4cm)

2.78"
(7.1cm)

4.52"
(11.5cm)

0.26"
(0.7cm)

0.63"
(1.6cm)

1RB-WH

1.27"
(3.2cm)

2.5"
(6.4cm)

1.27"
(3.2cm)

1.32"
(3.4cm)

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

6

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

**PURE EDGE LIGHTING**

REV02.26.20

REQUIRED COMPONENTS: Select 24VDC LED Soft Strip based on desired color temperature and application.

To Solid State Power Supply

Snap & Light Solderless Connector

0.34" Tight LED Spacing

Gold Plated Contacts

White Finish

SS5C LED Soft Strip
2oz Copper
Insulator
2oz Copper
3M® Adhesive Tape

Tunable White (2K4K)
Warm Dim (27D 30D)

ECONOMY PREMIUM STATIC WHITE SOFT STRIP

Consumes 2.3 watts per foot (SS2P) and 3.5 watts per foot (SS4P) is available in two color temperatures. SS2P and SS4P Soft Strip use ELV and 0-10V power supplies.

2.4" (6.1cm)
0.47" (1.2cm)
0.34" (0.9cm)

+24VDC

System	Voltage	Length in Feet	Color Temperature
SS2P	**24V**	**8**	**27K**

SS2P LED Soft Strip Economy Premium 2.3 watts per foot	**24V** 24 Volt	**1-40** 1 - 40 feet (SS2P)	**27K** 2700K Incandescent White
SS4P LED Soft Strip Economy Premium 3.5 watts per foot		**1-25** 1 - 25 feet (SS4P)	**30K** 3000K Warm White

---
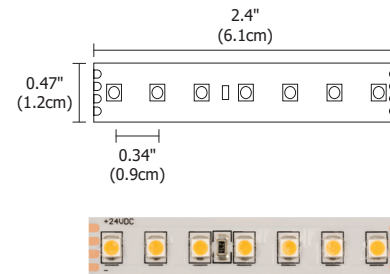
COMMERCIAL STATIC WHITE SOFT STRIP

Consumes 2.5 watts per foot (SS2C), 4.4 watts per foot (SS5C), and 7.3 watts per foot (SS7C) and is available in a variety of color temperatures. SS2C, SS5C, and SS7C Soft Strips use ELV and 0-10V power supplies.

2.4" (6.1cm)
0.47" (1.2cm)
0.34" (0.9cm)

+24VDC

System	Voltage	Length in Feet	Color Temperature	
SS2C	**24V**	**40**	**27K**	

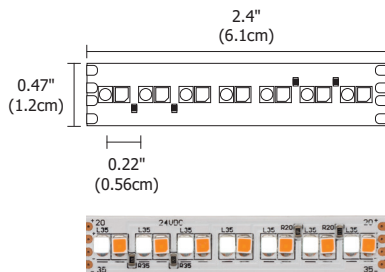|				
SS2C LED Soft Strip Commercial 2.5 watts per foot	**24V** 24 Volt	**1-40** 1 - 40 feet (SS2C)	**20K** 2000K Sunset	
SS5C LED Soft Strip Commercial 4.4 watts per foot		**1-20** 1 - 20 feet (SS5C)	**22K** 2200K Amber White	
SS7C LED Soft Strip Commercial 7.3 watts per foot		**1-12** 1 - 12 feet (SS7C)	**24K** 2400K Very Warm White	
			27K 2700K Incandescent White	
			30K 3000K Warm White	
			35K 3500K Neutral White	
			40K 4000K Cool White	
			57K 5700K Daylight White	
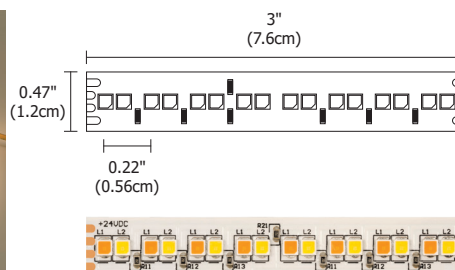
COMMERCIAL WARM DIM SOFT STRIP

Dynamic Warm Dim Technology, consumes 4.8 watts per foot and is available in two color temperatures (27D) 2700K Dim-to-Warm 2000K; (30D) 3000K Dim-to -Warm 2000K. 95+ CRI Values offer Commercial Designer Grade illumination.

3" (7.6cm)
0.47" (1.2cm)
0.22" (0.56cm)

+24VDC

System	Voltage	Length in Feet	Color Temperature
SS5C	**24V**	**20**	**27D**

SS5C LED Soft Strip Commercial 4.8 watts per foot	**24V** 24 Volt	**1-20** 1 - 20 feet	**27D** 2700K Warm Dim to 2000K (DIM-TO-WARM) 5 Watt Only
			30D 3000K Warm Dim to 2000K (DIM-TO-WARM) 5 Watt Only

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

7

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

**PURE EDGE LIGHTING**

REV02.26.20

REQUIRED COMPONENTS: Select 24VDC LED Soft Strip based on desired color temperature and application.

2.4" (6.1cm)
0.47" (1.2cm)
0.22" (0.56cm)

COMMERCIAL/DYNAMIC TUNABLE WHITE (2K4K)

Dynamic Tunable White Variable white changes color at full brightness from 2000K (Sunset) to 4000K (Cool White). Consumes an efficient 4.8 watts per foot. Human Centric Lighting suitable for warm dim.

System		Voltage		Length in Feet		Color Temperature
SS5C	-	**24V**	-	**20**	-	**2K4K**
SS5C LED Soft Strip Commercial 4.8 watts per foot		**24V** 24 Volt		**1-20** 1 - 20 feet		**2K4K** Tunable White 2000K-4000K

2.4" (6.1cm)
0.47" (1.2cm)
0.40" (1cm)
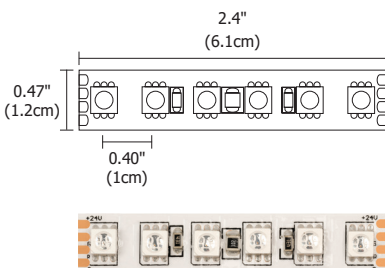
DYNAMIC COLOR CHANGING RGB

Dynamic Color Changing RGB Soft Strip consumes 5 watts per linear foot. RGB provides dynamic color changing effects with RED/GREEN/BLUE LEDs. SS5 RGB Soft Strip uses DMX power supplies.

System		Voltage		Length in Feet		Color Temperature
SS5	-	**24V**	-	**20**	-	**RGB**
SS5 LED Soft Strip Special Application 5 watts per foot		**24V** 24 Volt		**1-20** 1 - 20 feet		**RGB** Red/Green/Blue Dynamic Color RGB

2.4" (6.1cm)
0.47" (1.2cm)
0.34" (0.9cm)
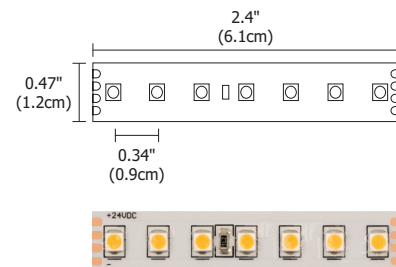
MONOCHROMATIC STATIC COLOR

Monochromatic Static Color offers a variety of color options for special applications or special lighting effects in which static colors are used. Consumes 4.8 Watts of power per linear foot. Powered using; UNI-POWER, 0-10V or ELV power supply options.

System		Voltage		Length in Feet		Color Temperature
SS5	-	**24V**	-	**36**	-	**AAA**
SS5 LED Soft Strip Special Application 4.8 watts per foot		**24V** 24 Volt		**1-36** 1 - 36 feet		**RRR** Red Static Color Monochromatic **GGG** Green Static Color Monochromatic **BBB** Blue Static Color Monochromatic **AAA** Amber Static Color Monochromatic **PPP** Purple Static Color Monochromatic

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

8

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
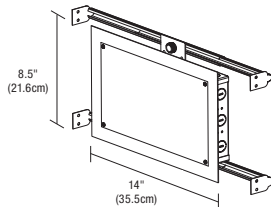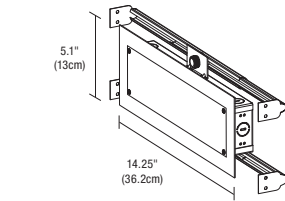## 24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V

PURE EDGE LIGHTING

UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

ORDERING CODE	PSB-40W-UNI-24VDC	PSB-60W-UNI-24VDC	PSB-2X40W-UNI-24VDC	PSB-2X60W-UNI-24VDC

SPECIFICATIONS

MAXIMUM LOAD	40W	60W	2X40W	2X60W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"	12.15" X 6.48" X 2.18"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-40W-UNI-24VDC-IW	PSB-60W-UNI-24VDC-IW	PSB-2X40W-UNI-24VDC-IW	PSB-2X60W-UNI-24VDC-IW

UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

ORDERING CODE	PSB-96W-UNI-24VDC	PSB-2X96W-UNI-24VDC	PSB-3X96W-UNI-24VDC	PSB-4X96W-UNI-24VDC

SPECIFICATIONS

MAXIMUM LOAD	96W	2X96W	3X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-96W-UNI-24VDC-IW	PSB-2X96W-UNI-24VDC-IW	NA	NA

ELV DIMMING & CONTROLS

LUTRON DIVA: DVELV-300P	•	•	•	•
LUTRON SKYLARK: SELV-300P	•	•	•	•
LUTRON RADIO RA2: RRD-6NA	•	•	•	•
LUTRON MAESTRO: MAELV-600	•	•	•	•
LEGRAND ADORNE: ADTP-703TUM4	•	•	•	•

0-10 DIMMING & CONTROLS

PHILIPS SUNRISE: SR1200ZTUNV	•	•	•	•
LUTRON DIVA: DVTV-WH, DVSTV-WH	•	•	•	•
LUTRON NOVA T: NTSTV-DV-XX	•	•	•	•
LUTRON GRAFIX EYE QS: QSGRJ-XP	•	•	•	•
LUTRON RADIO RA2: RRD-10ND	•	•	•	•
LEVITON: LEV40050	•	•	•	•
LEVITON IP710-LFZ	•	•	•	•
LEGRAND: ADPD4FBL3P2W4	•	•	•	•

TRIAC DIMMING & CONTROLS

LUTRON SKYLARK: S2-L-WH	•	•	•	•
LUTRON DIVA DVLV-600P-WH	•	•	•	•
LUTRON DIVA DVLV-603P-WH	•	•	•	•
LUTRON MAESTRO MALV-600-WH	•	•	•	•
LUTRON MAESTRO MALV-1000-WH	•	•	•	•
LUTRON MAESTRO MA-R-XX	•	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90
- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
    – Triac Dimmer : (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
    – ELV Dimmer : (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supply's used for LED lighting
    – 0-10 Dimmer : Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

9

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V

PURE EDGE
LIGHTING

IN WALL MOUNTING OPTIONS

5.1"
(13cm)

14.25"
(36.2cm)

8.5"
(21.6cm)

14"
(35.5cm)

In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.
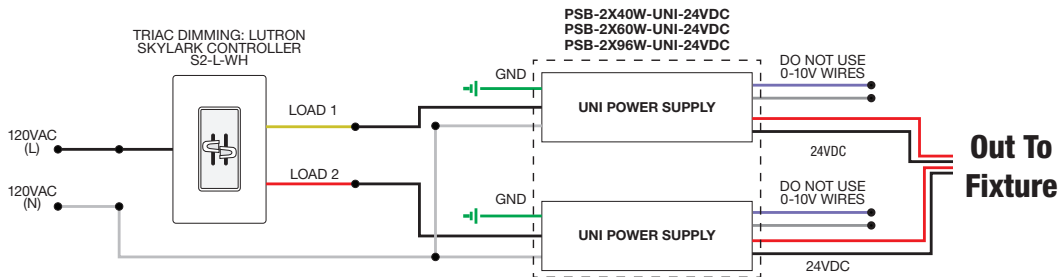
Ordering Codes 5.1 x 14.25 inch: PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

Ordering Codes 8.5 x 14.25 inch: PSB-2X40W-UNI-24VDC-IW
PSB-2X60W-UNI-24VDC-IW
PSB-2X96W-UNI-24VDC-IW
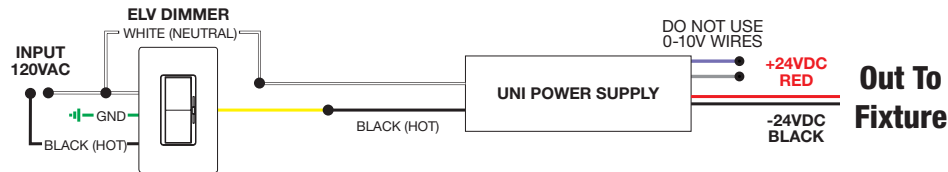
WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

Application: Triac dimming for two power supplies, use for Static White, Dynamic/Tunable White 2000K-4000K

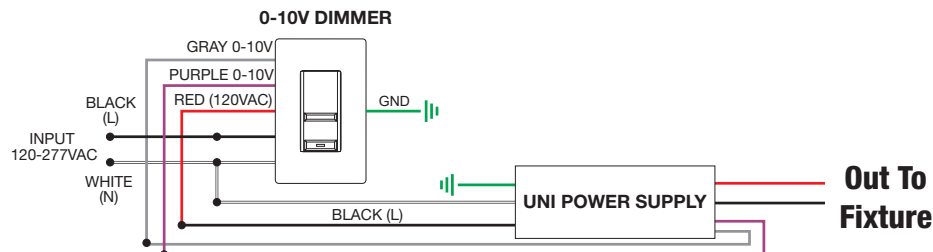**Dimming:** Dimmable with Triac dimmer: Lutron: Skylark S2-L

TRIAC DIMMING: LUTRON SKYLARK CONTROLLER S2-L-WH

PSB-2X40W-UNI-24VDC
PSB-2X60W-UNI-24VDC
PSB-2X96W-UNI-24VDC

GND
LOAD 1
120VAC (L)
LOAD 2
120VAC (N)
UNI POWER SUPPLY
DO NOT USE 0-10V WIRES
24VDC
GND
UNI POWER SUPPLY
DO NOT USE 0-10V WIRES
24VDC
Out To Fixture

Application: ELV dimming for Static White and Warm Dim

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

ELV DIMMER
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
BLACK (HOT)
UNI POWER SUPPLY
DO NOT USE 0-10V WIRES
+24VDC RED
-24VDC BLACK
Out To Fixture

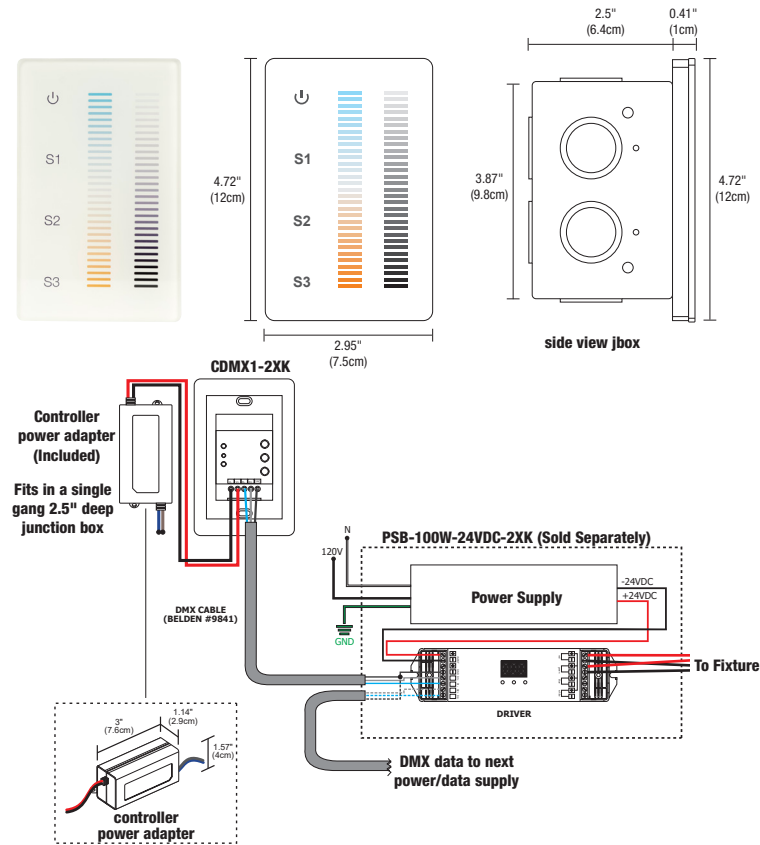**Application:** 0-10V dimming for Static White

Dimming: Dimmable with 0-10V dimmer: Philips Sunrise: SR1200ZTUNV; Lutron Diva: DVTV-WH, DVSTV-WH; Lutron Nova T: NTSTV-DV-XX; Lutron Grafix EYE QS: QSGRJ-XP; Lutron Radio Ra2: RRD-10ND; Leviton: LEV40050; Leviton IP710-LFZ; Legrand: ADPD4FBL3P2W4

0-10V DIMMER
GRAY 0-10V
PURPLE 0-10V
BLACK (L)
RED (120VAC)
GND
INPUT 120-277VAC
WHITE (N)
BLACK (L)
UNI POWER SUPPLY
Out To Fixture

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

10

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, DYNAMIC/TUNABLE WHITE POWER SUPPLIES WITH DMX DRIVER

PURE EDGE LIGHTING

REV. 02.26.20

2.5" (6.4cm) 0.41" (1cm)

4.72" (12cm)

2.95" (7.5cm)

3.87" (9.8cm)

4.72" (12cm)

side view jbox

CDMX1-2XK

Controller power adapter (Included)

Fits in a single gang 2.5" deep junction box

DMX CABLE (BELDEN #9841)

1.14" (2.9cm)

3" (7.6cm)

1.57" (4cm)

controller power adapter

N
120V

PSB-100W-24VDC-2XK (Sold Separately)

Power Supply

-24VDC
+24VDC

GND

To Fixture

DRIVER

DMX data to next power/data supply

Description:
The Tunable White Touch Controller is a full-touch controller that offers fast and accurate color temperature adjustment and independent brightness dimming of a single zone. Designed for dynamic/tunable white and dual-color LED installations, this controller adjusts color temperature and brightness for warm and cool white LEDs. It also saves 3 preset scenes. Independent smooth dimming with 256 level brightness adjustment enables the DMX controller to achieve many colors within the full LED spectrum. Controller includes a power adapter that fits in junction box (not included) behind the controller. It contains an illuminated back light when powered off.

Applications:
Indoor

Installation:
Fits in a single gang 2.5 inch deep junction box, not to be used with a multi gang box

Power Input:
120-240VAC

Output Signal:
USITT DMX 512 (1990)

Product	Type	Finish
CDMX1	**2XK**	**WH**
CDMX1 — DMX Single Zone Touch Controller	2XK — 2 X Kelvin	WH — White

DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS†

ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK

SPECIFICATIONS				
MAXIMUM LOAD	100W	2X100W	3X100W	4X100W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 6.48" X 2.18"	14" X 10" X 3"	17" X 10" X 3"	17" X 10" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-100W-24VDC-2XK-IW	NA	NA	NA

DMX DYNAMIC/TUNABLE WHITE DIMMING & CONTROLS				
TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)	•	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  – Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  – ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supply's used for LED lighting
  – 0-10 Dimmer: Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.

IN WALL MOUNTING OPTIONS
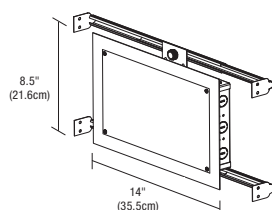
8.5" (21.6cm)

14" (35.5cm)

8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-100W-24VDC-2XK-IW

PROJECT	FIXTURE TYPE	DATE

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

11

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, ELV

PURE EDGE
LIGHTING

ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡				
ORDERING CODES	**PS-60L-ELV-24VDC**	**PSB-60W-ELV-24VDC**	**PSB-2X60W-ELV-24VDC**	**PSB-100W-ELV-24VDC**
SPECIFICATIONS				
MAXIMUM LOAD	60W NON-IC, 50W-IC (FITS IN JBOX)	60W	2X60W	96W
INPUT VOLTAGE	120VAC	120VAC	120VAC	120VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	2.25" X 1.25" X 0.83"	8.125" X 2" X 1.75"	12.15" X 6.48" X 2.18"	9.25" X 3.5" X 2"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN WALL MOUNTING	N/A	PSB-60W-ELV-24VDC-IW	PSB-2X60W-ELV-24VDC-IW	PSB-100W-ELV-24VDC-IW

ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡			
ORDERING CODES	**PSB-2X100W-ELV-24VDC**	**PSB-3X100W-ELV-24VDC**	**PSB-4X100W-ELV-24VDC**
SPECIFICATIONS			
MAXIMUM LOAD	2X96W	3X96W	4X96W
INPUT VOLTAGE	120VAC	120VAC	120VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
IN WALL MOUNTING	PSB-2X100W-ELV-24VDC-IW	N/A	N/A
DIMMING AND CONTROLS			
LUTRON DIVA: DVELV-300P	•	•	•
LUTRON SKYLARK: SELV-300P	•	•	•
LUTRON RADIO RA2: RRD-6NA	•	•	•
LUTRON MAESTRO: MAELV-600	•	•	•
LEGRAND ADORNE: ADTP-703TUM4	•	•	•

†22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White (2K4K) color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-lume® Power Supplies. Dynamic Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

‡Electrical Panels using Seimens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker

With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies
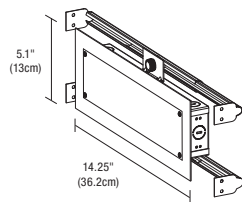
5.1"
(13cm)

14.25"
(36.2cm)

5.1 x 14.25 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-60W-ELV-24VDC-IW
PSB-100W-ELV-24VDC-IW
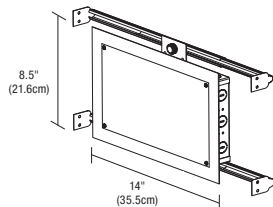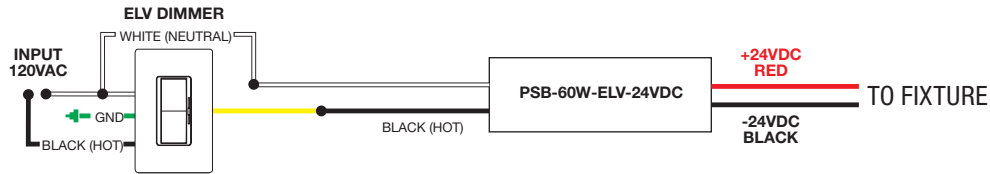
8.5"
(21.6cm)

14"
(35.5cm)

8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-2X60W-ELV-24VDC-IW
PSB-2X100W-ELV-24VDC-IW

PROJECT	FIXTURE TYPE	DATE

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

12

REV. 02.26.20

SAMPLE WIRING DIAGRAMS 24VDC ELV

Application: ELV dimming for Static White

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

ELV DIMMER
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
PSB-60W-ELV-24VDC
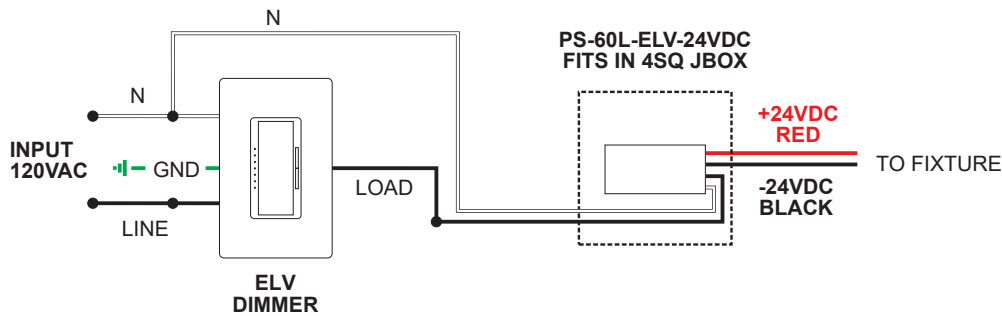BLACK (HOT)
+24VDC RED
TO FIXTURE
-24VDC BLACK

Application: ELV dimming for Static White

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2
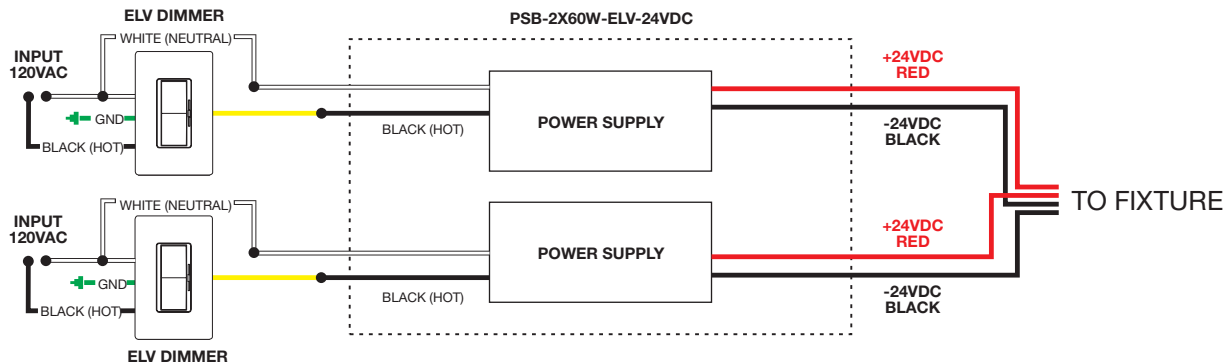
N
N
PS-60L-ELV-24VDC
FITS IN 4SQ JBOX
INPUT 120VAC
GND
LINE
LOAD
+24VDC RED
TO FIXTURE
-24VDC BLACK
ELV DIMMER

Application: Dual ELV dimming for Dynamic/Tunable White 2000K-4000K

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

ELV DIMMER
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
PSB-2X60W-ELV-24VDC
BLACK (HOT)
POWER SUPPLY
+24VDC RED
-24VDC BLACK
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
BLACK (HOT)
POWER SUPPLY
+24VDC RED
-24VDC BLACK
TO FIXTURE
ELV DIMMER

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

13

INDOOR CONSTANT VOLTAGE 0-10V REMOTE POWER SUPPLIES

24VDC 0-10V REMOTE POWER SUPPLY, STATIC & DYNAMIC TUNABLE WHITE DUAL CONTROL.

PURE EDGE LIGHTING

REV 02.26.20

0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS†				
ORDERING CODE	PSB-25W-010-24VDC	PSB-60W-010-24VDC	PSB-96W-010-24VDC	PSB-2X96W-010-24VDC
SPECIFICATIONS				
MAXIMUM LOAD	25W	60W	96W	2X96W
INPUT VOLTAGE	120VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-25W-010-24VDC-IW	PSB-60W-010-24VDC-IW	PSB-96W-010-24VDC-IW	PSB-2X96W-010-24VDC-IW

0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS†		
ORDERING CODE	PSB-3X96W-010-24VDC	PSB-4X96W-010-24VDC
SPECIFICATIONS		
MAXIMUM LOAD	3X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC
DIMENSIONS	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2
IN-WALL MOUNTING	N/A	N/A
DIMMING & CONTROLS		
PHILIPS SUNRISE: SR1200ZTUNV	•	•
LUTRON DIVA: DVTV-WH, DVSTV-WH	•	•
LUTRON NOVA T: NTSTV-DV-XX	•	•
LUTRON GRAFIX EYE QS: QSGRJ-XP	•	•
LUTRON RADIO RA2: RRD-10ND	•	•
LEVITON: LEV40050	•	•
LEVITON IP710-LFZ	•	•
LEGRAND: ADPD4FBL3P2W4	•	•

5.1" (13cm)
14.25" (36.2cm)

5.1 x 14.25 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-25W-010-24VDC-IW, PSB-60W-010-24VDC-IW
PSB-96W-010-24VDC-IW
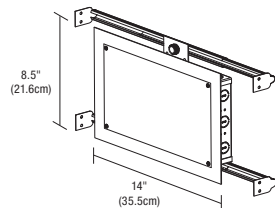
8.5" (21.6cm)
14" (35.5cm)

8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-2X96W-010-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

14

INDOOR CONSTANT VOLTAGE 0-10V REMOTE POWER SUPPLIES
24VDC 0-10V REMOTE POWER SUPPLY, STATIC & DYNAMIC TUNABLE WHITE DUAL CONTROL.

PURE EDGE
LIGHTING
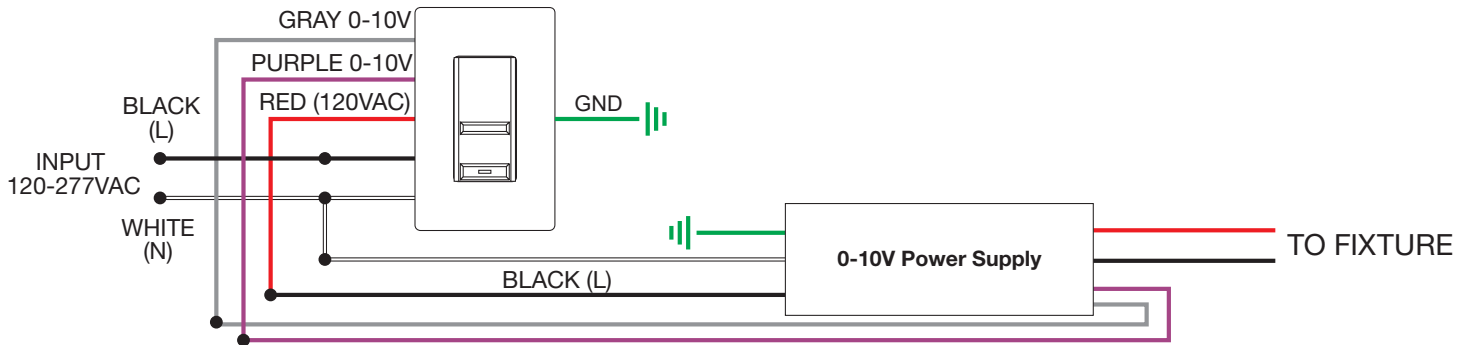
SAMPLE WIRING DIAGRAMS 24VDC 010

Application: 0-10V Dimming Applications For Static White and Dynamic Tunable White 0-10V Dual Dimming.

Dimming: Dimmable with 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locator light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)

0-10V DIMMER

GRAY 0-10V
PURPLE 0-10V
RED (120VAC)
BLACK (L)
INPUT 120-277VAC
WHITE (N)
GND
BLACK (L)
0-10V Power Supply
TO FIXTURE

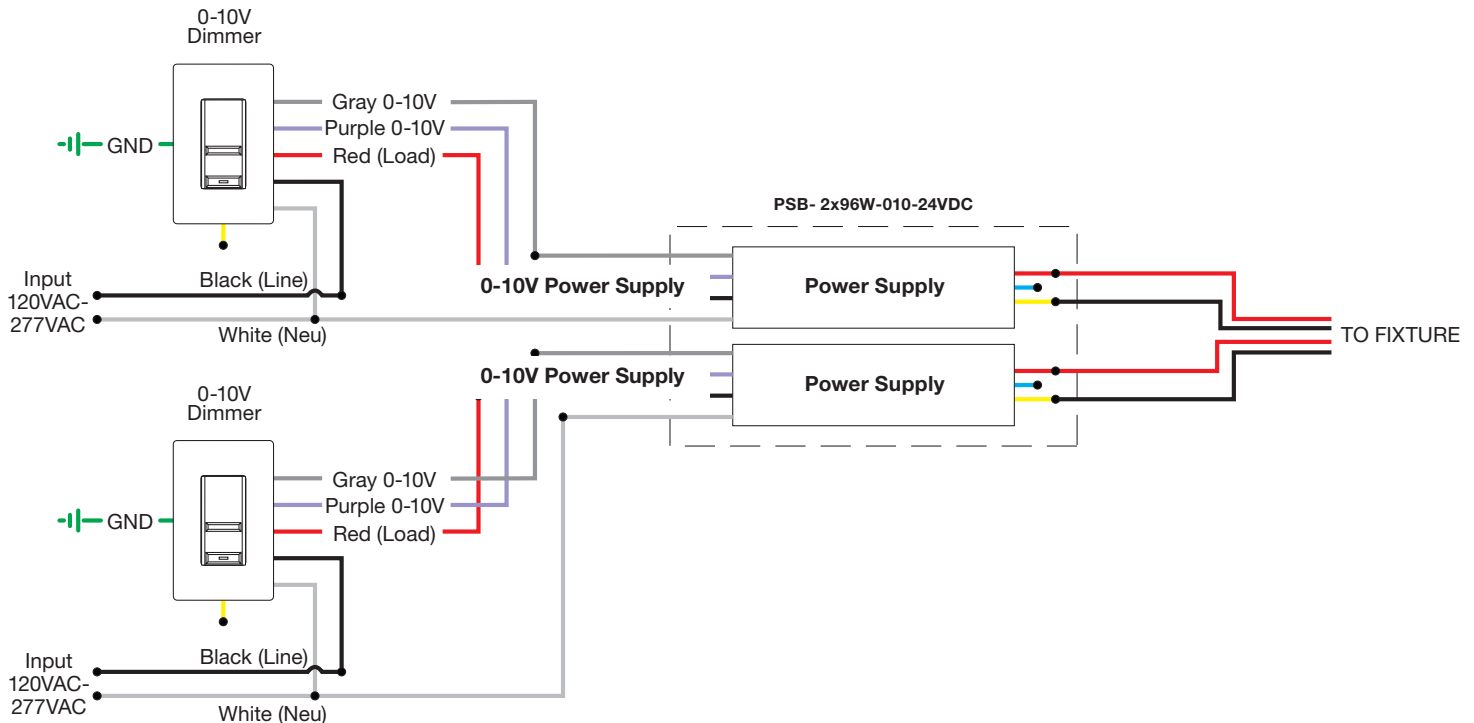**Application:** Dual 0-10V dimming for Dynamic/Tunable White 2000K-4000K

Dimming: Dimmable with Dual 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locator light), Legrand Dimmer: ADPD4FBL3P2W4, Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)

0-10V Dimmer
GND
Gray 0-10V
Purple 0-10V
Red (Load)
Input 120VAC-277VAC
Black (Line)
White (Neu)
0-10V Power Supply
PSB- 2x96W-010-24VDC
Power Supply
0-10V Power Supply
Power Supply
TO FIXTURE
0-10V Dimmer
GND
Gray 0-10V
Purple 0-10V
Red (Load)
Input 120VAC-277VAC
Black (Line)
White (Neu)

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

15

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, LUTRON ECOSYSTEM

LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®†			
ORDERING CODES	**L3D0-96W24V-U**	**2-WIRE ECOSYSTEM** **LTEA4U1UKL-CV240**	**3-WIRE ECOSYSTEM** **L3DA4U1UKL-CV240**
SPECIFICATIONS			
MAXIMUM LOAD	96W	5W-40W	5W-40W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	10.5" X 5.5" X 2"	4" X 4.89" X 2.62"	4" X 4.89" X 2.62"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
DIMMING AND CONTROLS			
RADIO RA2	•	•	•
HOMEWORKS QS	•	•	•
PHPM-3F-120	•	•	•
PHPM-3F-DV	•	•	•
BCI-0-10	•	•	•

†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

LTEA4U1UKL-CV240

2-Wire EcoSystem Wiring Diagram
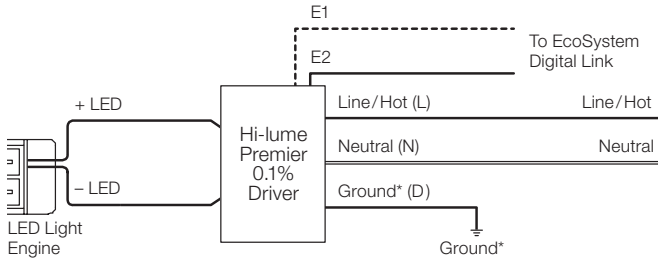
L3DA4U1UKL-CV240

3-Wire Wiring Diagram
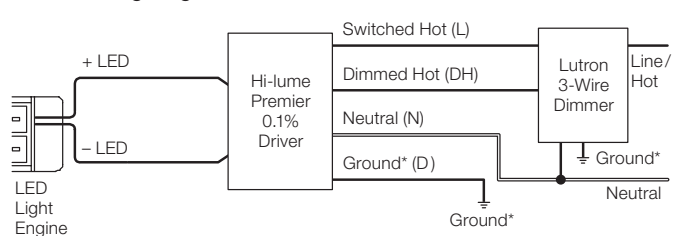
PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

16

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE LIGHTING

REV02.26.20

Wiring Diagram: 0-10 Volt (0-10V) dimming for Light Channel .6 Surface Mount (not compatible with Warm Dim)

Power Supply: Class 2, 24VDC output: 120-277VAC input, 96 watt output PSB-96W-010-24VDC; 120-277VAC input, 192 watt output PSB-2X96W-010-24VDC

Dimming: Dimmable with 0-10V dimmer using power supply above. See power supply spec sheet for additional details. Philips Sunrise SR1200ZTUNV 0-10V dimmer recommended.

PROJECT   FIXTURE TYPE   DATE

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
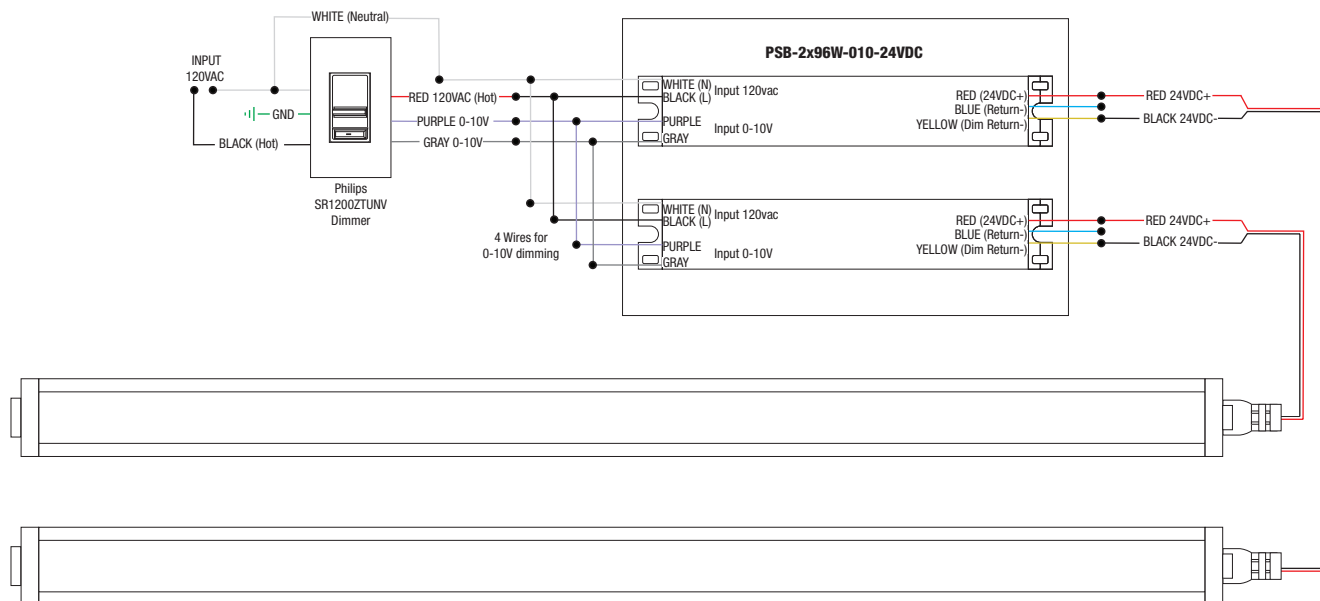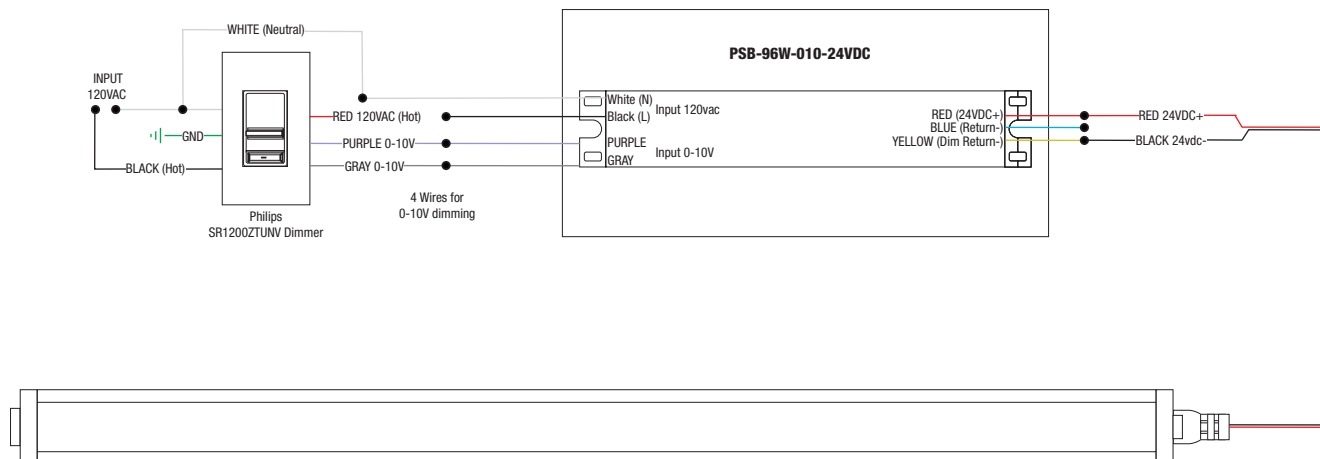For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

17

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE LIGHTING

REV02.26.20

TM-30-15 Data: The data below is for SS2C, SS5C, and SS7C bare LED Soft Strips. 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.

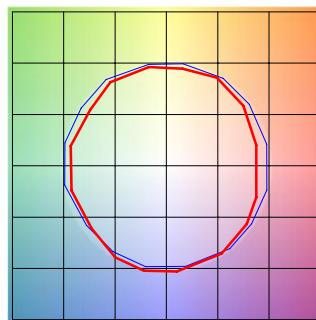## 2200K | Rf: 83.9 | Rg: 94.9
Color Vector Graphic
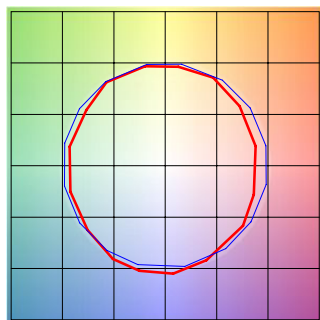
		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	77.6	-10.0%	1.8%
2	80.7	-7.5%	7.0%
3	79.5	-2.9%	8.9%
4	90.5	-3.1%	2.4%
5	93.9	-1.3%	1.9%
6	91.9	-0.9%	-0.2%
7	87.6	-6.3%	-2.7%
8	90.5	-5.4%	2.7%
9	83.8	-4.7%	6.5%
10	81.2	-2.5%	10.0%
11	83.3	3.9%	9.4%
12	86.4	5.6%	2.6%
13	86.2	4.5%	-12.4%
14	64.3	-1.0%	-21.9%
15	85.1	-4.4%	-7.5%
16	75.0	-9.9%	-12.0%

■ Test ■ Reference

2400K | Rf: 84.5 | Rg: 94.4
Color Vector Graphic

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	81.1	-7.7%	3.0%
2	84.9	-5.7%	4.9%
3	85.3	-2.3%	6.1%
4	87.7	-5.5%	-0.5%
5	92.5	-3.9%	0.5%
6	91.1	-3.4%	0.1%
7	86.0	-7.7%	0.5%
8	87.1	-6.0%	4.3%
9	80.1	-3.9%	9.8%
10	79.0	-0.9%	11.8%
11	82.3	5.5%	10.1%
12	87.6	5.4%	-0.5%
13	84.7	3.3%	-12.0%
14	78.0	0.8%	-13.7%
15	86.9	-5.5%	-4.3%
16	78.1	-7.5%	-10.8%

■ Test ■ Reference

2700K | Rf: 87.7 | Rg: 96.1
Color Vector Graphic
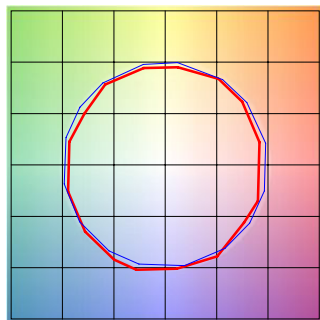
		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	86.4	-5.6%	2.3%
2	89.7	-3.3%	3.1%
3	90.5	-1.5%	3.8%
4	90.0	-4.3%	1.1%
5	92.9	-3.7%	0.2%
6	93.5	-2.5%	-0.8%
7	86.3	-7.2%	2.5%
8	90.7	-4.0%	3.2%
9	85.2	-2.4%	8.1%
10	81.7	0.9%	10.8%
11	85.4	4.5%	8.9%
12	88.7	5.7%	-1.4%
13	88.3	1.3%	-7.9%
14	85.1	2.4%	-10.4%
15	88.1	-4.8%	-2.7%
16	81.7	-4.3%	-10.9%

■ Test ■ Reference

3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
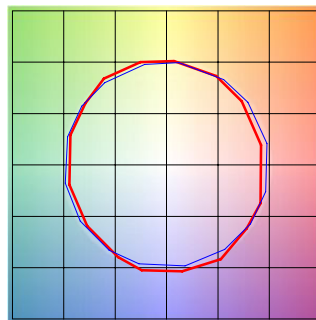
		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	87.7	-5.9%	-0.3%
2	87.9	-4.4%	4.3%
3	82.9	-1.2%	7.9%
4	89.9	0.6%	4.7%
5	92.7	3.0%	3.5%
6	92.7	3.6%	-1.7%
7	90.8	-1.3%	-4.4%
8	93.7	-2.5%	-2.2%
9	91.7	-3.7%	2.3%
10	85.5	-2.8%	7.8%
11	83.3	0.7%	11.0%
12	86.4	5.5%	3.8%
13	90.6	4.6%	-3.6%
14	85.6	5.9%	-8.4%
15	89.5	-0.6%	-5.7%
16	82.6	-2.7%	-12.0%

■ Test ■ Reference

3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
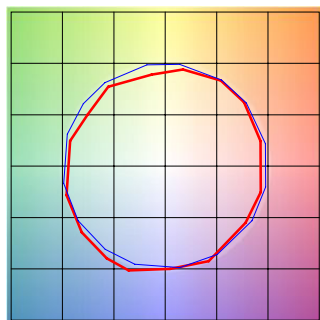
		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	86.6	-4.2%	3.4%
2	91.7	-1.4%	1.8%
3	94.9	-0.7%	0.4%
4	87.9	-4.5%	-4.1%
5	85.9	-10.3%	-2.7%
6	89.8	-5.2%	-0.4%
7	79.6	-9.5%	6.5%
8	87.6	-4.0%	5.7%
9	81.4	-0.5%	11.8%
10	78.3	3.3%	11.4%
11	85.7	6.3%	6.1%
12	86.3	7.1%	-4.6%
13	86.1	-0.7%	-9.6%
14	85.1	0.8%	-10.4%
15	83.4	-4.1%	-5.3%
16	82.5	-3.6%	-5.7%

■ Test ■ Reference

4000K | Rf: 87.6 | Rg: 96.8
Color Vector Graphic
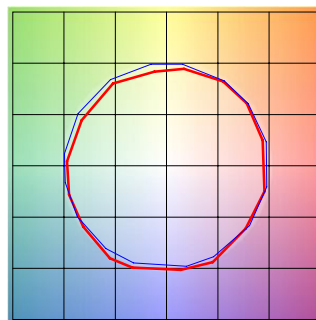
		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	89.0	-3.1%	2.1%
2	93.2	-0.9%	1.3%
3	94.3	-1.1%	0.7%
4	89.5	-4.0%	-2.3%
5	87.6	-7.8%	-1.8%
6	92.2	-4.6%	0.1%
7	87.4	-6.6%	3.6%
8	85.7	-3.8%	7.0%
9	81.5	-1.3%	12.4%
10	80.0	0.9%	11.4%
11	83.3	5.9%	8.7%
12	89.7	4.8%	-0.3%
13	88.5	2.4%	-6.3%
14	92.7	4.0%	-3.8%
15	86.1	-1.6%	-4.5%
16	85.0	-1.4%	-5.0%

■ Test ■ Reference

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

18

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT
24VDC SURFACE MOUNT LIGHT CHANNEL WITH DYNAMIC/TUNABLE WHITE, WARM DIM LED TECHNOLOGY

PURE EDGE
L I G H T I N G

REV02.26.20

TM-30-15 Data: The data below is for SS2C, SS5C, and SS7C bare LED Soft Strips. 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.

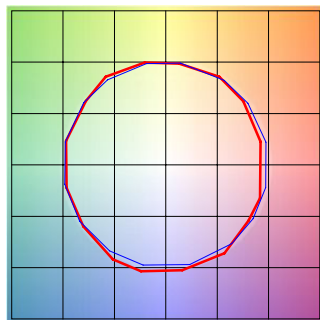### 5700K | Rf: 80.3 | Rg: 91.5
Color Vector Graphic
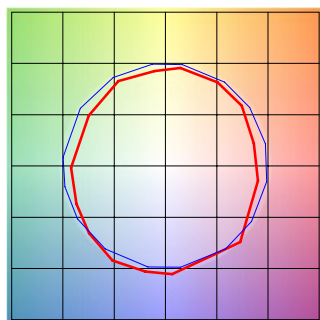
■ Test   ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	73.8	-11.2%	2.6%
2	83.7	-5.5%	5.8%
3	84.2	-4.0%	5.5%
4	85.8	-3.5%	1.3%
5	85.3	-7.1%	0.6%
6	89.2	-5.8%	-2.2%
7	81.5	-10.7%	1.2%
8	75.7	-9.7%	8.5%
9	74.9	-7.8%	18.8%
10	67.8	-1.6%	18.0%
11	76.1	5.5%	12.0%
12	90.8	4.9%	-1.6%
13	83.6	5.0%	-9.5%
14	81.7	-1.2%	-10.0%
15	69.0	2.0%	-22.8%
16	83.2	-8.5%	-1.0%

2700D | Rf: 89.5 | Rg: 100.8
Color Vector Graphic

■ Test   ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.8	-5.1%	1.4%
2	89.8	-2.7%	4.1%
3	87.2	0.3%	5.9%
4	92.3	-0.9%	1.0%
5	93.3	1.5%	1.7%
6	92.4	3.6%	-0.2%
7	92.2	-0.9%	-2.4%
8	96.7	-0.4%	-1.1%
9	92.3	-1.2%	3.7%
10	88.9	-0.0%	6.1%
11	86.4	5.1%	7.4%
12	88.2	6.3%	-0.9%
13	87.2	3.8%	-8.1%
14	84.2	3.8%	-11.0%
15	89.8	-2.6%	-4.3%
16	82.7	-3.4%	-11.1%

3000D | Rf: 89.8 | Rg: 101.4
Color Vector Graphic
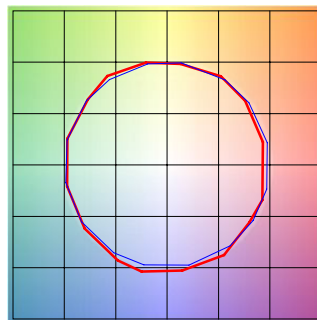
■ Test   ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.2	-4.2%	1.5%
2	90.9	-2.0%	3.7%
3	87.9	0.8%	5.5%
4	92.1	-0.9%	0.6%
5	93.0	1.5%	1.6%
6	92.2	3.9%	-0.2%
7	92.1	-0.3%	-2.0%
8	96.7	0.0%	-1.2%
9	92.5	-0.6%	3.7%
10	88.3	1.1%	7.0%
11	87.2	4.1%	7.4%
12	87.2	6.7%	-1.0%
13	88.2	3.8%	-7.2%
14	85.3	4.3%	-9.9%
15	90.9	-2.2%	-3.6%
16	83.4	-2.2%	-11.2%

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

19