LIGHT CHANNEL 0.6" DIY RECESSED MILLWORK

24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING & MONOCHROMATIC STATIC COLOR

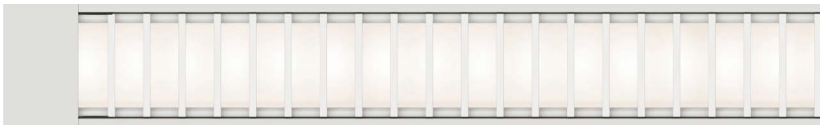**PURE EDGE LIGHTING**

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

LCMW.6 Light Channel Diffuser Lens

LCMW.6 Light Channel Clear Lens

LCMW.6 Light Channel Diffuse white lens with White Louver

FEATURES & BENEFITS

- Cut and assemble in field
- Snap & Light Solderless Connections reduce labor during installation
- 24VDC LED Soft Strip offers excellent color-rendering inside a slim, paintable aluminum extrusion
- 5oz of copper provides better heat dissipation, less voltage drop.
- Recessed Millwork channel is sold in 2, 4, 5, 8, and 10 foot increments
- Warm Dim Dim-To-Warm: **(30D)** dims from 3000K to 2000K, **(27D)** dims from 2700K to 2000K. 5 watt only.
- **Dynamic Tunable White:** 2000K to 4000K Variable White Dynamic Tunable Lighting. Human Centric Lighting
- Static White Options: 20K, 22K, 24K, 27K, 30K, 35K, 40K, 2.5W I 5W I 7.5W
- Dynamic Color: RGB 5W only.
- Static Color: Amber **(AAA)**, Green **(GGG)**, Blue **(BBB)**, Red **(RRR)**
- Diffuser Lens **(D)** projects Dot-Free clean line of LED light through a glare-free defused lens.
- Clear Lens **(C)** provides maximum illumination use a transparent clear lens. LED's WILL SHOW.
- Gel Diffused Lens **(G)** provided by the customer please visit www.leefilters.com for more information.
- Low voltage up to 100 watt, Class 2 wiring, no need for conduit pipe
- 50-watt power supply fits in J Box (PSB-60L-ELV-24VDC)
- 5 year prorated warranty included

APPLICATIONS

- Provides maximum light levels for task and general illumination
- Indoor only - Under/above cabinet, cove, and retail
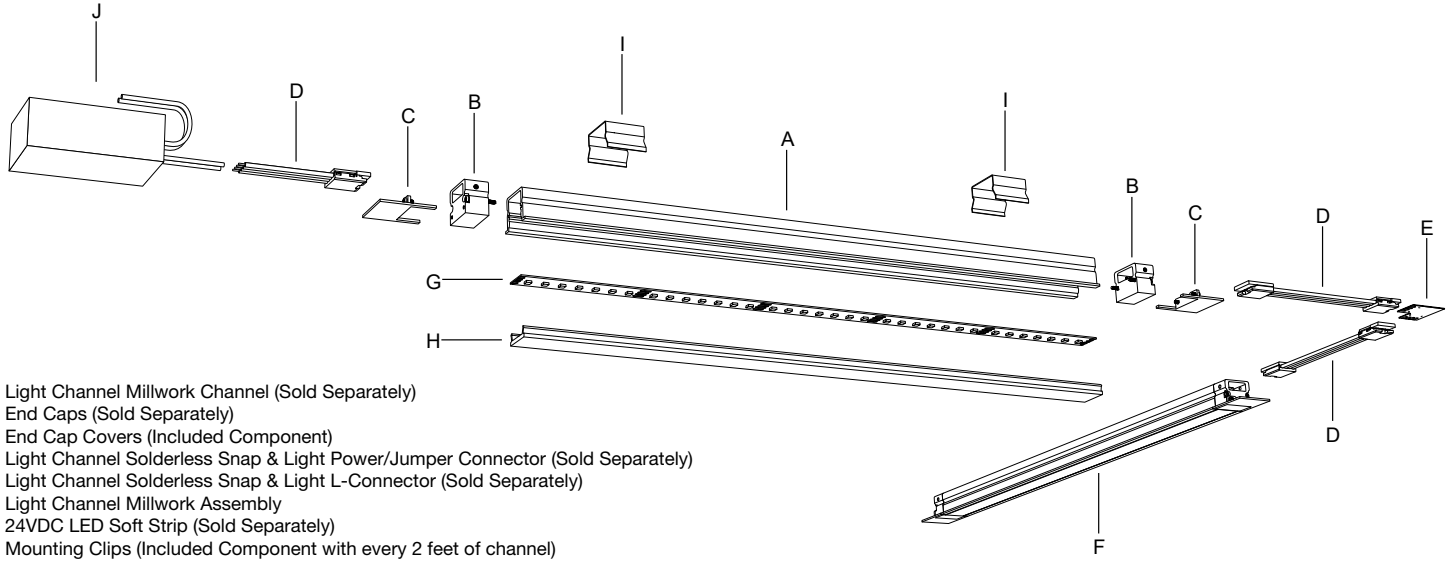
REQUIRED COMPONENTS

- Light Channel .6 Recessed Millwork and Lens (Mounting Clips included)
- End Caps (sold in pairs)
- 24VDC Light Channel Solderless Snap & Light Power/Jumper Connector
- 24VDC LED Soft Strip

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

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

*In-Wall Mounting Kits available for select power supplies

Light Channel .6 Recessed Millwork DIY System Overview

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

PROJECT		FIXTURE TYPE		DATE	

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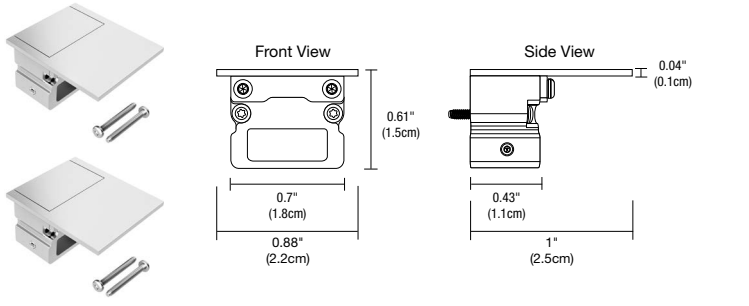
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LIGHT CHANNEL 0.6" DIY RECESSED MILLWORK

24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
MONOCHROMATIC STATIC COLOR

PURE EDGE LIGHTING

REV 02.11.20

REQUIRED COMPONENTS: Select Light Channel .6 Recessed Millwork option, End Caps and Power Connector based on lighting design.

Antique Bronze

Antique Bronze
with White Louvers

White

Satin Aluminum
with Black Louvers

0.88" (2.2cm)
0.59" (1.5cm)
0.61" (1.5cm)
0.55" (1.4cm)
0.7" (1.8cm)

(C) LCMW.6 Light Channel Clear Lens

Antique Bronze

Antique Bronze
with White Louvers

White

Satin Aluminum
with Black Louvers

0.88" (2.2cm)
0.59" (1.5cm)
0.61" (1.5cm)
0.55" (1.4cm)
0.7" (1.8cm)

(D) LCMW.6 Light Channel Diffuser Lens

GEL FILTER

0.88" (2.2cm)
0.59" (1.5cm)
0.5" (1.3cm)
0.61" (1.5cm)
0.55" (1.4cm)
0.7" (1.8cm)

(G) LCMW.6 Light Channel Diffuser Lens
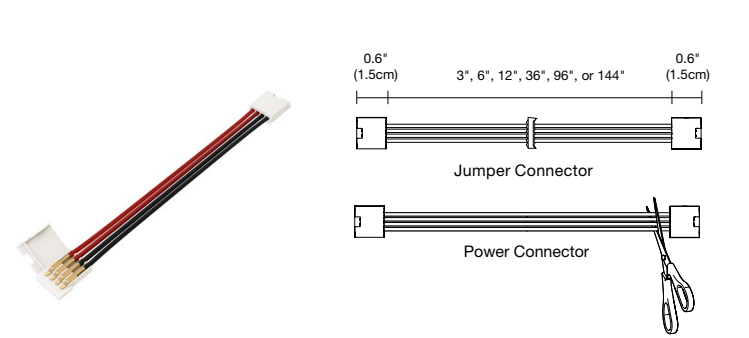with Gel Color Filter (provided by customer)

LIGHT CHANNEL .6 RECESSED MILLWORK

Start the ordering process by selecting the desired length and lens option. THEN ORDER THE LED SOFT STRIP, END CAPS, POWER FEED JOINER, AND JUMPER. At 0.61 inches tall the channel is low profile, made of aluminum with 3 finish options, and fits a 24VDC LED Soft Strip inside. The channel and lens may be cut in the field, and may be joined together using the Light Channel Snap & Light Solderless Jumper/Power Connector. Mounting Clips are included with every 2 feet of channel, and can also be ordered separately as replacement parts. The Clear Lens provides maximum light levels and will show LED dots. The Diffuser Lens projects clean lines of light, eliminating LED dots. Both the Clear and Diffuser Lens are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters are recommended and can be purchased from the dealer www.leefilters.com. Gel filter life is 5,000 hours before needing to be changed.

System	Length in Feet	Lens	Finish
LCMW.6	**10FT**	**D**	**SA**

| LCMW.6 Light Channel 0.6" Recessed Millwork | 2FT 2 Feet
4FT 4 Feet
5FT 5 Feet
8FT 8 Feet
10FT 10 Feet | D Diffuser Lens
C Clear Lens
DW Diffused Lens with White Louver
DB Diffused Lens with Black Louver
CW Clear Lens with White louver
CB Clear Lens with Black Louver | SA Satin Aluminum
BZ Antique Bronze
WH White |

SA Satin Aluminum

BZ Antique Bronze

WH White

END CAPS

Front View

0.61" (1.5cm)
0.7" (1.8cm)
0.88" (2.2cm)

Side View

0.04" (0.1cm)
0.43" (1.1cm)
1" (2.5cm)

End Caps are sold in pairs and provide a finished look at the end of a run as well as hold the required power connector.

System	Product	Type	Finish
LCMW.6	**SLC**	**CA**	**SA**
LCMW.6 Light Channel 0.6" Recessed Millwork	SLC Snap and Light Connector	CA End Caps	SA Satin Aluminum BZ Antique Bronze WH White

24VDC LIGHT CHANNEL SOLDERLESS SNAP & LIGHT JUMPER/POWER CONNECTOR

0.6" (1.5cm)
3", 6", 12", 36", 96", or 144"
0.6" (1.5cm)

Jumper Connector

Power Connector

Use as a power connector is required, and use as a jumper connector is optional. Join 2 cut sections of LED Soft Strip end to end within the channel. Solderless connections provide easy installation and are compatible with Solderless Light Channel Connector accessories. 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

PROJECT		FIXTURE TYPE		DATE	

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LIGHT CHANNEL 0.6" DIY RECESSED MILLWORK

24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
MONOCHROMATIC STATIC COLOR

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PURE EDGE LIGHTING

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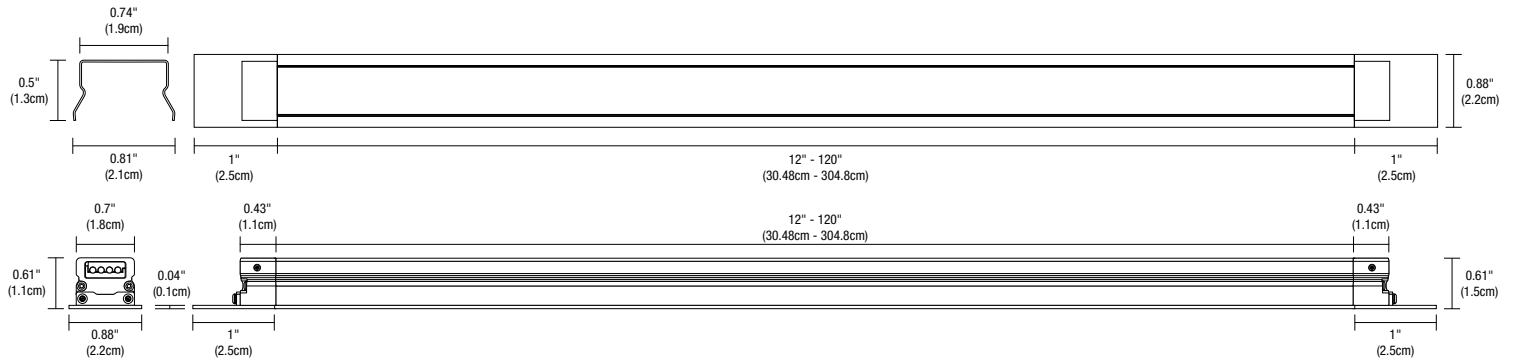
INCLUDED COMPONENTS Lens Options and Lamp Data for indoor Light Channel 0.6" Surface Mount

LCMW.6 LIGHT CHANNEL
61° DIFFUSER LENS

White Diffuser Lens projects clean lines of light, eliminating LED dots

LCMW.6 LIGHT CHANNEL
26° CLEAR LENS

Clear Lens provides maximum light levels and will show slight LED dots

LCMW.6 LIGHT CHANNEL
DIFFUSE WHITE LENS WITH WHITE LOUVER

LCMW.6 LIGHT CHANNEL
DIFFUSER LENS WITH BLACK LOUVER

LCMW.6 LIGHT CHANNEL
CLEAR LENS WITH WHITE LOUVER

LCMW.6 LIGHT CHANNEL
CLEAR LENS WITH BLACK LOUVER

LCMW.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

LCS.6 LIGHT CHANNEL SURFACE MOUNT																					
WATTS PER FOOT	2w (2.5 watts)							5w (4.4 watts)									7.5w (4.4 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	144	158	173	198	215	229	208	231	254	372	277	406	317	345	367	300	333	367	400	459	499	531
CLEAR LENS LUMENS PER WATT LM/W	52	57	63	69	79	86	81	47	53	58	78	63	85	72	78	84	40	45	49	53	61	67	71
DIFFUSER LENS LUMENS PER FOOT LM/FT	111	123	135	148	170	184	196	175	194	213	320	233	350	267	290	309	242	269	295	322	369	402	427
DIFFUSER LENS LUMENS PER WATT LM/W	44	49	54	59	68	74	78	40	44	49	67	53	73	61	66	70	32	36	39	43	49	55	57
RF	84	86	88	88	86	88	80	84	86	88	90	88	101	86	88	80	84	86	88	88	86	88	80
RG	95	96	96	100	96	97	92	95	96	96	101	100	101	96	97	92	95	96	96	100	96	97	92
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 65° 6.5W DIFFUSER LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	15in	107 FC
18in	21in	67 FC
24in	29in	47 FC
36in	42in	26 FC

30K 52° 5W CLEAR LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	15in	194 FC
18in	21in	117 FC
24in	29in	82 FC
36in	42in	46 FC

*Foot Candle Data is based off 4' Channel.

PROJECT		FIXTURE TYPE		DATE	

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LIGHT CHANNEL 0.6" DIY RECESSED MILLWORK
24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING & MONOCHROMATIC STATIC COLOR

ACCESSORIES: Order based on lighting design or as replacement parts.
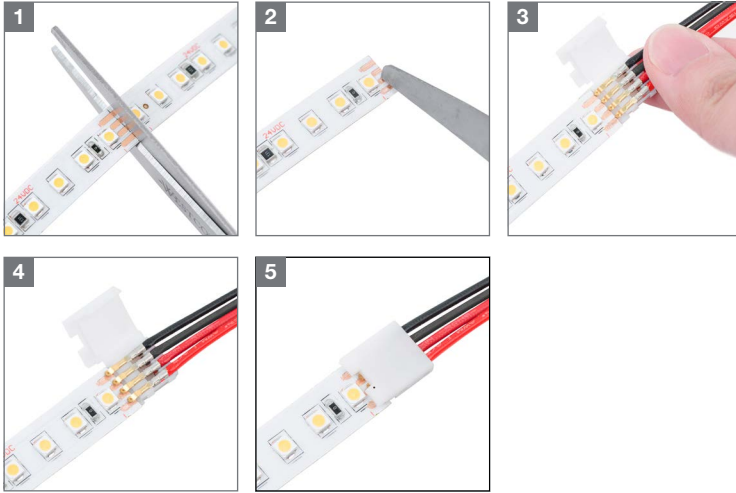
LIGHT CHANNEL SOLDERLESS SNAP & LIGHT CONNECTORS:
Allow easy cutting and rejoining of the LED Soft Strip at any point within a Light Channel. Light Channel Solderless Snap & Light Connectors provide a tightly sealed connection, reducing labor during installation. The gold plated connections provide better connectivity without oxidation.

1. Cut in the middle of the joining contacts

2. Remove the protective coating from the contacts

3. Place the LED Soft Strip end under the plastic guide and push it under the snap contacts

4. Close the cover

5. Snap the cover to secure in place

0.47" (1.2cm)   0.08" (0.2cm)
0.9" (2.3cm)   0.11" (0.3cm)
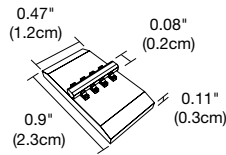
SOFT STRIP SOLDERLESS SNAP & LIGHT STRAIGHT JOINER
Joins 2 sections of LED Soft Strip in the channel. Used when replacing a section of LED Soft Strip.
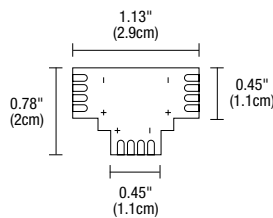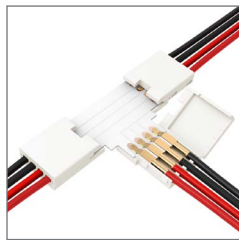
System		Product
CH	–	**SLC**
CH Channel		SLC Snap & Light Straight Joiner

0.78" (2cm)
0.78" (2cm)   0.45" (1.1cm)
0.45" (1.1cm)
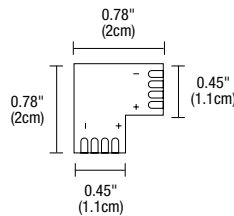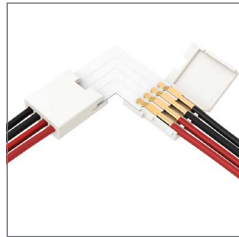
LIGHT CHANNEL SOLDERLESS SNAP & LIGHT L-CONNECTOR
Conducts power to 2 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector (sold separately) for use.

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

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

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 (sold separately) for use.

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

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

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 (sold separately) for use.
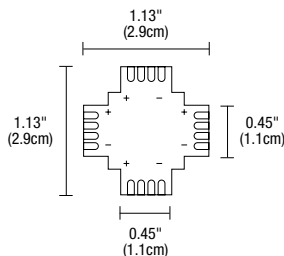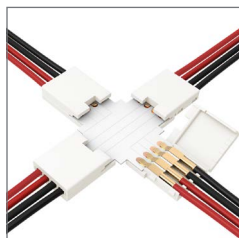
System		Product
LC	–	**SLX**
LC Light Channel		SLX Snap & Light X-Connector

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24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
MONOCHROMATIC STATIC COLOR

PURE EDGE LIGHTING

REV 02.11.20

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

LCMW.6-MCL

LCMW.6-MCL
0.37" (0.9cm)
0.75" (1.9cm)

LCS.6-MCL-075
0.6" (1.5cm)
0.8" (2cm)
0.8" (2cm)
1.77" (4.5cm)

LCS.6-MCL-90
0.63" (1.6cm)
3" (7.6cm)
2" (5.1cm)

SHOWN WITH LCS.6-MCL

SHOWN WITH LCS.6-MCL-075

SHOWN WITH LCS.6-MCL-90
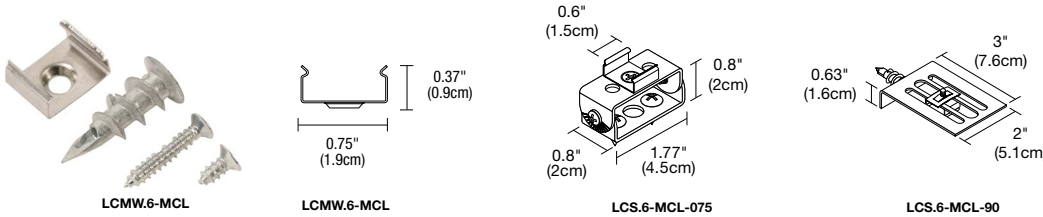
MOUNTING CLIPS

LCMW.6-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LCMW.6-MCL-075 rotates Light Channel up to 75 degrees. LCMW.6-MCL-90 mounts Light Channel at a 90 degree angle.
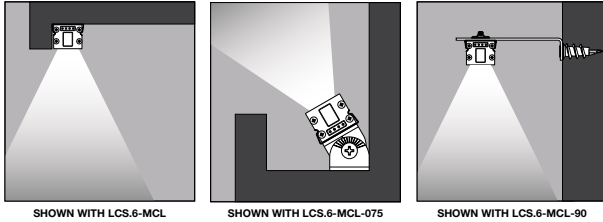
System		Product		Type
LCMW.6	–	**MCL**	–	Standard (Leave Blank)

LCMW.6	Light Channel 0.6" Recessed Millwork	MCL	Mounting Clip	075	Adjusts 0-75°
				90	Mounts to 90°

4RD-WH
0.52" (1.3cm)
4.6" (11.7cm)
0.21" (0.5cm)
0.62" (1.6cm)
4.6" (11.7cm)

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)

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		

WIRING DIAGRAM: Electronic Low Voltage (ELV) dimming for Light Channel .6 Recessed Millwork

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.

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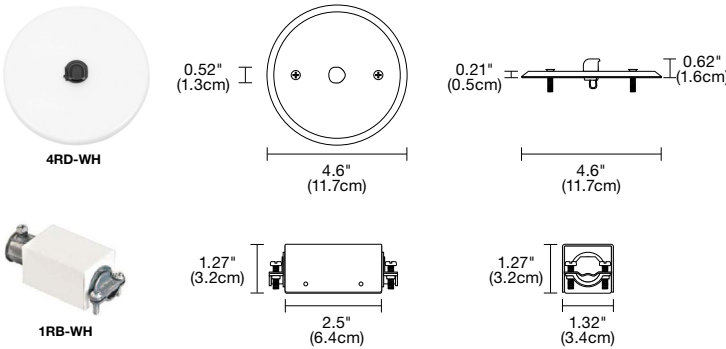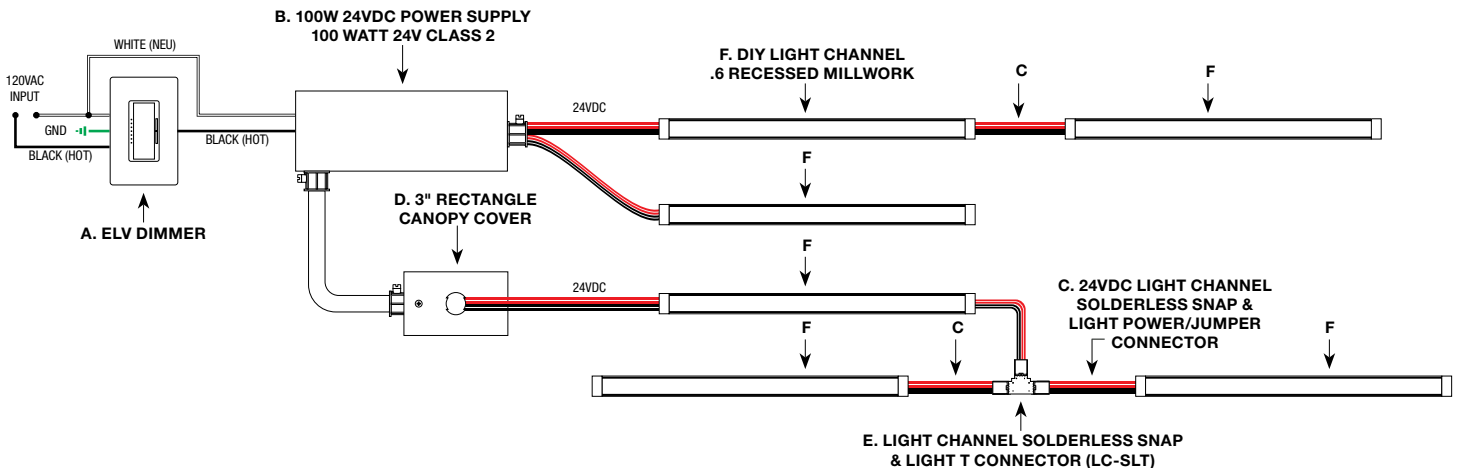
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24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING & MONOCHROMATIC STATIC COLOR

PURE EDGE LIGHTING

REV 02.11.20

REQUIRED COMPONENTS: Use the comparison chart below to select the desired 24VDC LED Soft Strip to install within Light Channel .6 Surface Mount.

ORDERING CODE	SS2P	SS4P	SS2C	SS5C	SS7C	SS5C
COLOR TYPE	Static White	Static White	Static White	Static White	Static White	Warm Dim
GRADE	Premium Economy	Premium Economy	Commercial	Commercial	Commercial	Commercial
WATTAGE PER FOOT*	2.3w	3.5w	2.5w	4.4w	7.3w	4.8w
AVAILABLE COLOR TEMPERATURES & CRI	2700K - 84 3000K - 85	2700K - 84 3000K - 85	20K - 85+ 22K - 85+ 24K - 90+ 27K - 95+ 30K - 95+ 35K - 90+ 40K - 85+ 57K - 85+	20K - 85+ 22K - 85+ 24K - 90+ 27K - 95+ 30K - 95+ 35K - 90+ 40K - 85+ 57K - 85+	20K - 85+ 22K - 85+ 24K - 90+ 27K - 95+ 30K - 95+ 35K - 90+ 40K - 85+ 57K - 85+	27D - 2700K Warm Dim to 2000K 95+ 30D - 3000K Warm Dim to 2000K 95+
CLEAR LENS LUMENS PER FOOT lm/ft	27K - 89 30K - 97	27K - 148 30K - 161	22K - 121 27K - 148 30K - 162 35K - 185 40K - 201 57K - 214	22K - 199 27K - 243 30K - 265 35K - 304 40K - 330 57K - 352	22K - 300 27K - 367 30K - 401 35K - 459 40K - 499 57K - 531	27D - 294 30D - 321
CLEAR LENS LUMENS PER WATT lm/w	27K - 47 30K - 51	27K - 42 30K - 46	22K - 49 27K - 59 30K - 65 35K - 74 40K - 80 57K - 86	22K - 45 27K - 55 30K - 60 35K - 69 40K - 75 57K - 80	22K - 40 27K - 49 30K - 53 35K - 61 40K - 67 57K - 71	27D - 61 30D - 67
DIFFUSER LENS LUMENS PER FOOT lm/ft	27K - 70 30K - 77	27K - 118 30K - 128	22K - 90 27K - 110 30K - 120 35K - 137 40K - 149 57K - 159	22K - 149 27K - 181 30K - 198 35K - 227 40K - 247 57K - 262	22K - 242 27K - 295 30K - 323 35K - 369 40K - 402 57K - 427	27D - 219 30D - 240
DIFFUSER LENS LUMENS PER WATT lm/w	27K - 37 30K - 40	27K - 33 30K - 37	22K - 36 27K - 44 30K - 48 35K - 55 40K - 60 57K - 64	22K - 34 27K - 41 30K - 45 35K - 52 40K - 56 57K - 60	22K - 32 27K - 39 30K - 43 35K - 49 40K - 54 57K - 57	27D - 46 30D - 50
NUMBER OF LEDS PER FOOT	35	35	35	35	35	35 + 35 = 70
CUTTING INCREMENTS	2.4"	2.4"	2.4"	2.4"	2.4"	3"
MAXIMUM LENGTH 100 WATT, POWER SUPPLY	40 FT	25 FT	40 FT	20 FT	12 FT	20 FT
LED DISTANCE	0.34"	0.34"	0.34"	0.34"	0.34"	0.22"
DIMMING TYPE	Universal (ELV, 0-10V and TRIAC), ELV, 0-10V	Universal (ELV, 0-10V and TRIAC), ELV, 0-10V	Universal (ELV, 0-10V and TRIAC), ELV, 0-10V	Universal (ELV, 0-10V and TRIAC), ELV, 0-10V	Universal (ELV, 0-10V and TRIAC), ELV, 0-10V	ELV
LAMP LIFE (HOURS)	50,000	50,000	50,000	50,000	50,000	50,000

FOOT CANDLE CHARTS

30K 65° 6.5W DIFFUSER LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	15in	107 FC
18in	21in	67 FC
24in	29in	47 FC
36in	42in	26 FC

30K 52° 5W CLEAR LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	12in	194 FC
18in	17in	117 FC
24in	22in	82 FC
36in	27in	46 FC

*Foot Candle Data is based off 4 feet channel.

PROJECT		FIXTURE TYPE		DATE	

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LIGHT CHANNEL 0.6" DIY RECESSED MILLWORK
24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
MONOCHROMATIC STATIC COLOR

PURE EDGE
LIGHTING

REV 02.11.20

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

To Solid State Power Supply

0.34" Tight LED Spacing

Snap & Light Solderless Connector

Gold Plated Contacts

White Finish

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

Tunable White (2K4K)
Warm Dim (27D 30D)
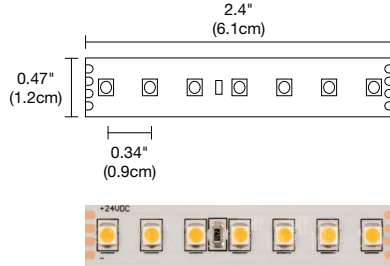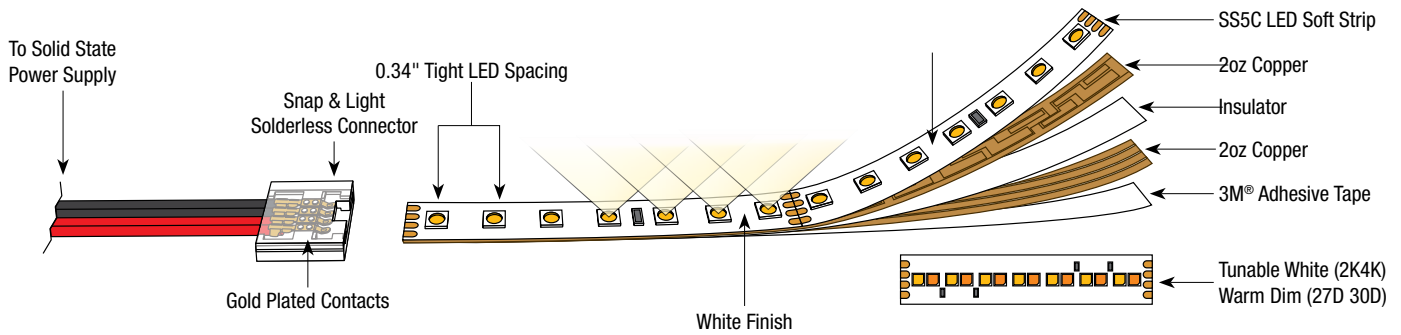
ECONOMY PREMIUM STATIC WHITE SOFT STRIP
Consumes 2.3 watts per foot (SS2P) and 3.5 watts per foot (SS4P) is available in two color temperatures. SS2P and SS4P Soft Strip use UNI, ELV and 0-10V power supplies.

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

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

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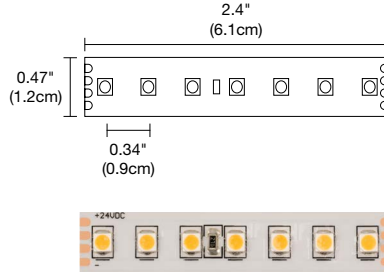
COMMERCIAL STATIC WHITE SOFT STRIP
Consumes 2.5 watts per foot (SS2C), 4.4 watts per foot (SS5C), and 7.3 watts per foot (SS7C) and is available in a variety of color temperatures. SS2C, SS5C, and SS7C Soft Strips use UNI, ELV and 0-10V power supplies.

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

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	35K 3500K Neutral White
SS5C LED Soft Strip Commercial 4.4 watts per foot		1-20 1 - 20 feet (SS5C)	22K 2200K Amber White	40K 4000K Cool White
SS7C LED Soft Strip Commercial 7.3 watts per foot		1-12 1 - 12 feet (SS7C)	24K 2400K Very Warm White	57K 5700K Daylight White
			27K 2700K Incandescent White	
			30K 3000K Warm 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. ELV Power Supply only.

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

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	

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7

LIGHT CHANNEL 0.6" DIY RECESSED MILLWORK

24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
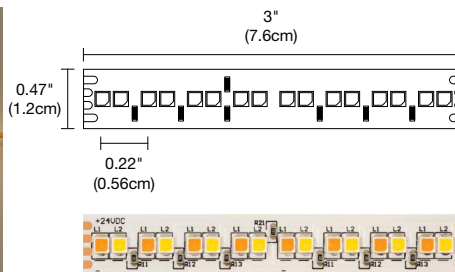MONOCHROMATIC STATIC COLOR

PURE EDGE
LIGHTING

REV 02.11.20

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)
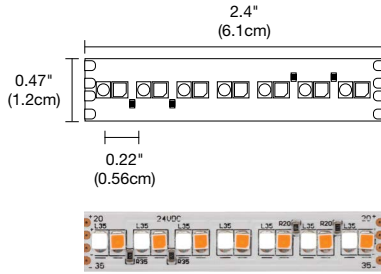
COMMERCIAL/DYNAMIC TUNABLE WHITE (2K4K)

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

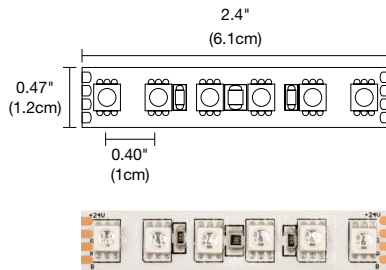Dynamic Color Changing RGB Soft Strip consumes 5 watts per linear foot. RGB provides dynamic color changing effects with RED/GREEN/BLUE LEDs. SS5 RGB Soft Strip uses DMX power supplies.

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)
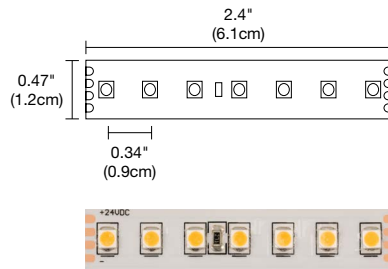
MONOCHROMATIC STATIC COLOR

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	

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8

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

REV 02.11.20

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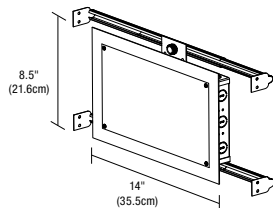
8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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

PROJECT		FIXTURE TYPE		DATE	

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9

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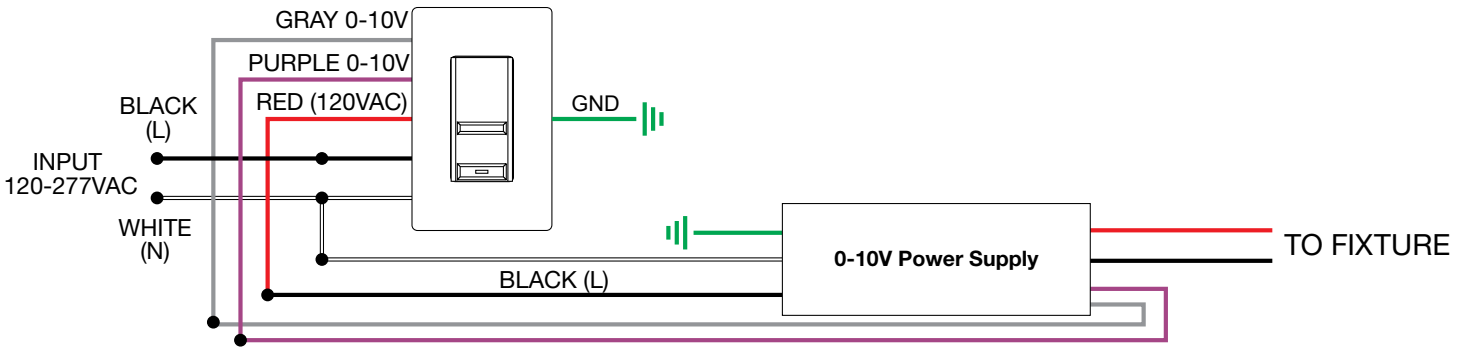
Application: Dual 0-10V dimming for Dynamic/Tunable White 2000K-4000K

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)

PROJECT		FIXTURE TYPE		DATE	

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10

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	

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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.
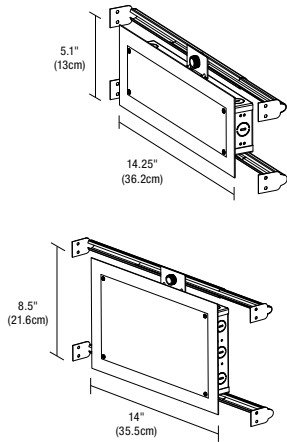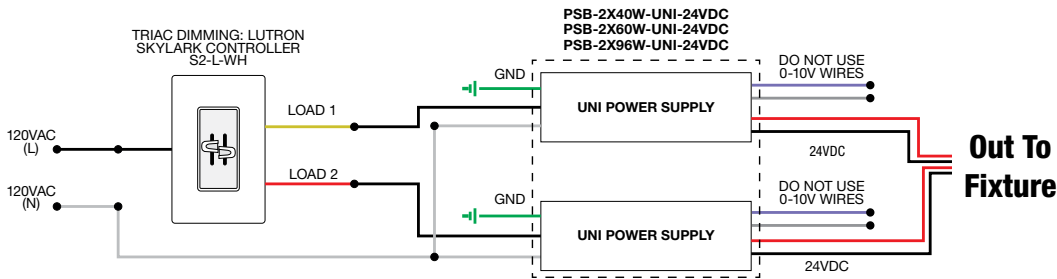
Ordering Codes 5.1 x 14.25 inch: PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

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
UNI POWER SUPPLY
DO NOT USE
0-10V WIRES

LOAD 1

120VAC
(L)

LOAD 2

120VAC
(N)

GND
UNI POWER SUPPLY
DO NOT USE
0-10V WIRES

24VDC

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)

DO NOT USE
0-10V WIRES

INPUT 120VAC

UNI POWER SUPPLY

+24VDC
RED

Out To Fixture

GND

-24VDC
BLACK

BLACK (HOT)

BLACK (HOT)
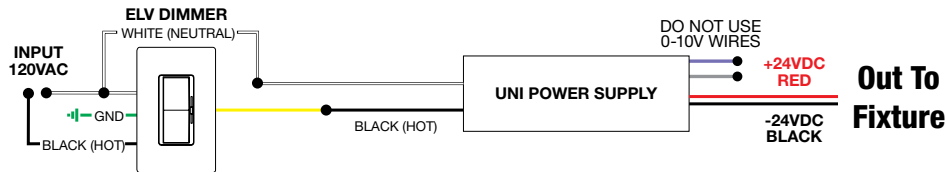
Application: 0-10V dimming for Static White

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)

UNI POWER SUPPLY

Out To Fixture

BLACK (L)

PROJECT		FIXTURE TYPE		DATE	

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12

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, ELV

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
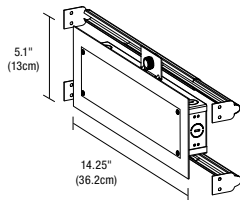
5.1 x 14.25 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.
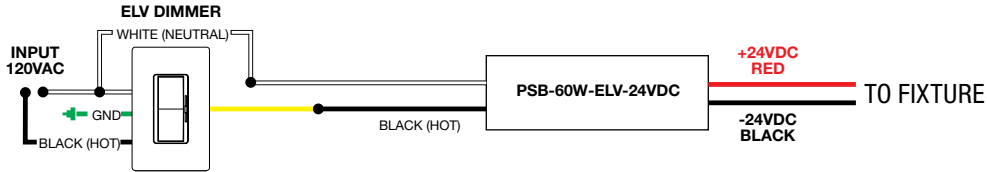
Ordering Codes: PSB-60W-ELV-24VDC-IW
PSB-100W-ELV-24VDC-IW
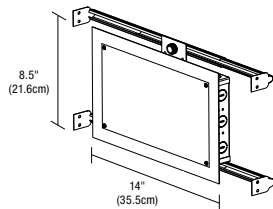
8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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

PROJECT		FIXTURE TYPE		DATE	

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, ELV

PURE EDGE
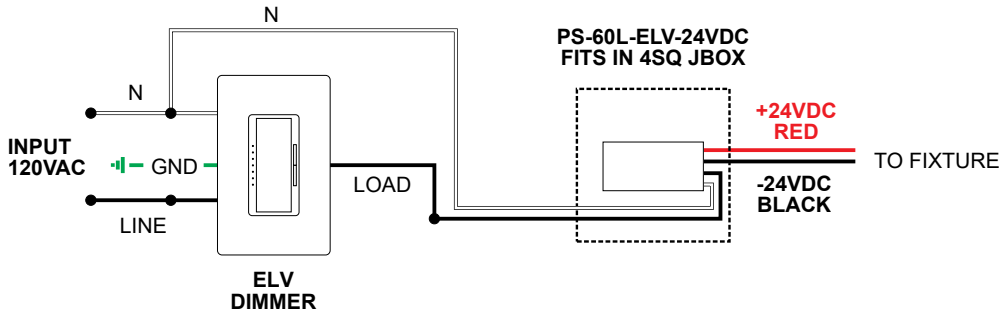LIGHTING

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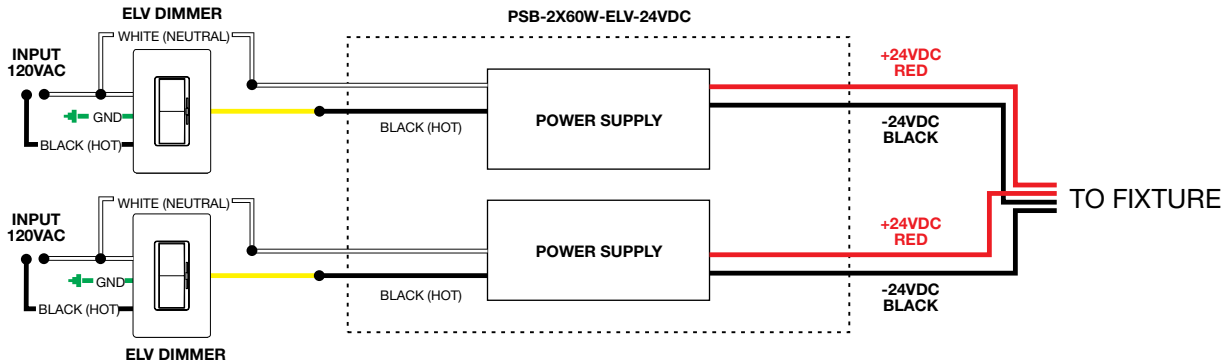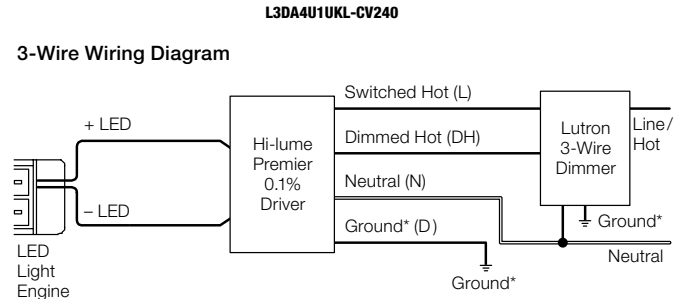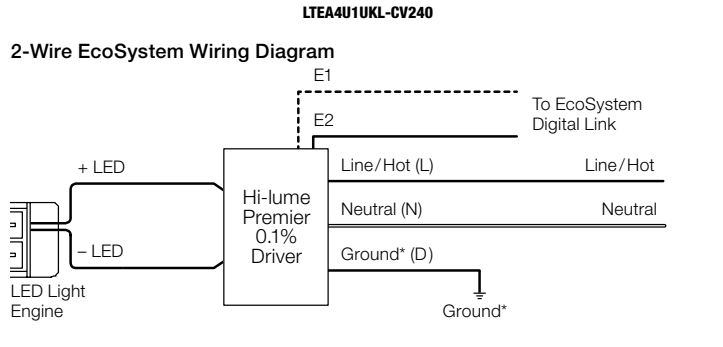
ELV DIMMER
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
PSB-60W-ELV-24VDC
BLACK (HOT)
+24VDC RED
TO FIXTURE
-24VDC BLACK

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
INPUT 120VAC
GND
LINE
LOAD
ELV DIMMER
PS-60L-ELV-24VDC FITS IN 4SQ JBOX
+24VDC RED
TO FIXTURE
-24VDC BLACK

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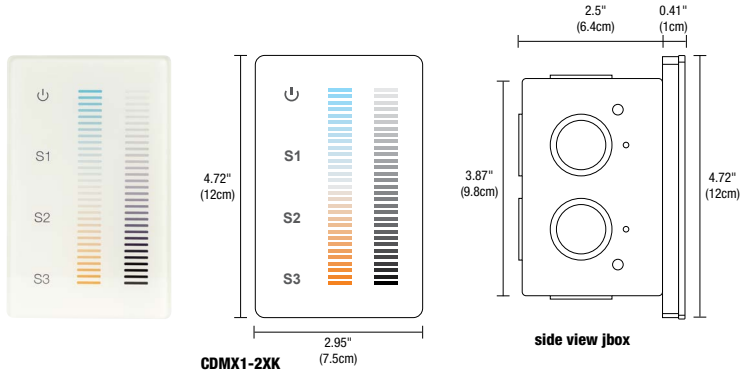
ELV DIMMER
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
PSB-2X60W-ELV-24VDC
POWER SUPPLY
BLACK (HOT)
+24VDC RED
-24VDC BLACK
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
POWER SUPPLY
BLACK (HOT)
+24VDC RED
-24VDC BLACK
ELV DIMMER
TO FIXTURE

PROJECT		FIXTURE TYPE		DATE	

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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	

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

REV. 02.11.20

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

4.72" (12cm)

3.87" (9.8cm)

4.72" (12cm)

2.95" (7.5cm)

side view jbox

CDMX1-2XK

Controller power adapter (Included)

Fits in a single gang 2.5" deep junction box

DMX CABLE (BELDEN #9841)

3" (7.6cm)   1.14" (2.9cm)

1.57" (4cm)

controller power adapter

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

N   120V

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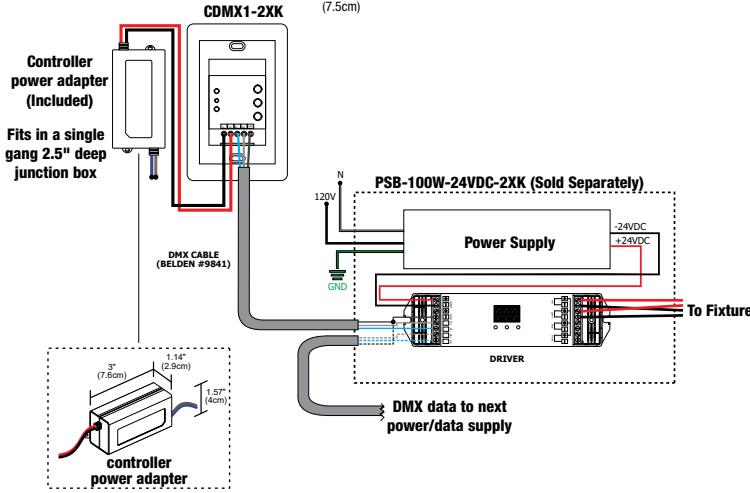
| Product	Type	Finish
CDMX1	**2XK**	**WH**
CDMX1 DMX Single Zone Touch Controller	2XK 2 X Kelvin	WH White

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
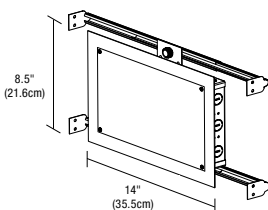
8.5" (21.6cm)

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	

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, 0-10V

PURE EDGE LIGHTING

REV. 02.11.20

REQUIRED COMPONENTS 24VDC DMX RGB Compatible Power Supplies

DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS†	
ORDERING CODE	PSB-100W-24VDC-DALI
SPECIFICATIONS	
MAXIMUM LOAD	100W
INPUT VOLTAGE	120-277VAC
OUTPUT VOLTAGE	24VDC
DIMENSIONS	12.14" X 6.48" X 2.18"
CLASSIFICATION	CLASS 2
IN-WALL MOUNTING	PSB-100W-24VDC-DALI-IW
DIMMING & CONTROLS	
TOUCH SCREEN CONTROLLER (CTP)	•
DMX 1 ZONE RGBW TOUCH CONTROLLER (CDMX1-RGBW)	•
DALI COMPATIBLE	•

†2400K-5700K 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.

Classification: UL2108 - * 24VDC over 100 Watts, wires must be in conduit from Remote Power Supply to J-box.

8.5"
(21.6cm)

14"
(35.5cm)
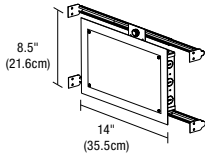
8.5" X 14" IN-WALL MOUNTING KIT

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-DALI-IW

PROJECT		FIXTURE TYPE		DATE	

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INDOOR DMX REMOTE POWER SUPPLIES
24VDC 1-ZONE DIMMER WITH DYNAMIC COLOR CHANGING DMX 512 PROTOCOL RGB AND RGBW
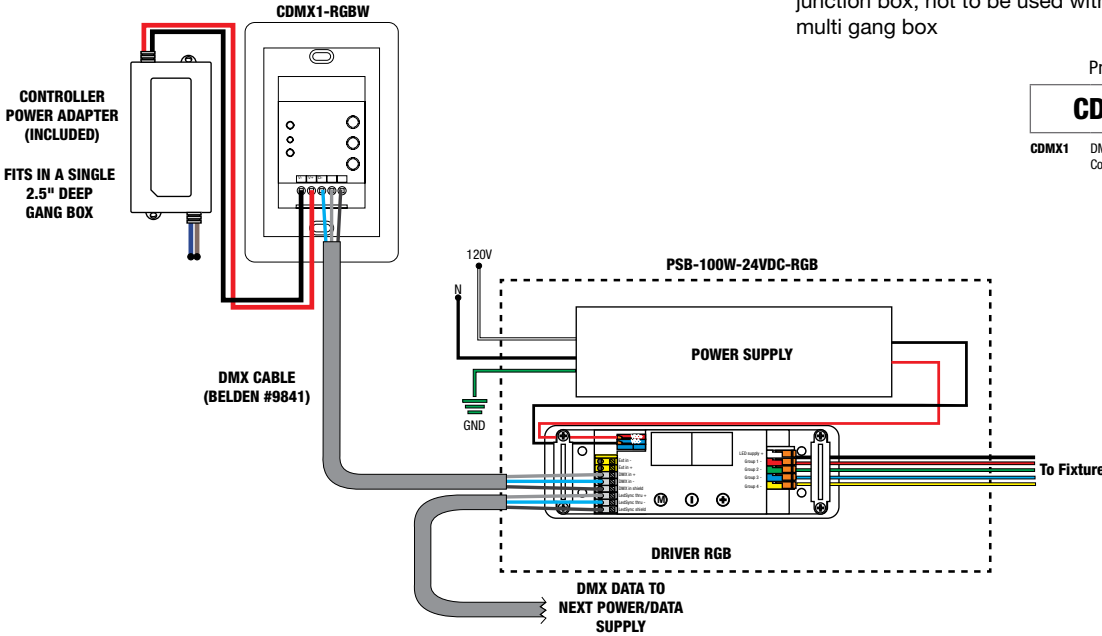
PURE EDGE LIGHTING

REV. 02.11.20
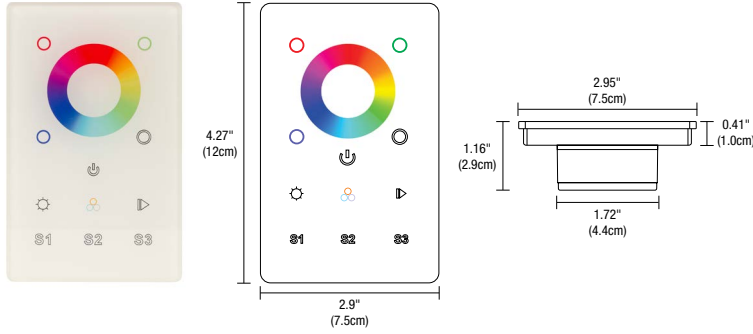
Description:
Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 1 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

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:
120-277VAC

Output Signal:
USITT DMX 512 (1990)

4.27" (12cm)

2.9" (7.5cm)

2.95" (7.5cm)

0.41" (1.0cm)

1.16" (2.9cm)

1.72" (4.4cm)

Product	Type	Finish
CDMX1	RGBW	WH

CDMX1 — DMX 1 Zone Touch Controller
RGBW — RGB & RGBW
WH — White

CDMX1-RGBW

CONTROLLER POWER ADAPTER (INCLUDED)

FITS IN A SINGLE 2.5" DEEP GANG BOX

DMX CABLE (BELDEN #9841)

120V
N
GND

PSB-100W-24VDC-RGB

POWER SUPPLY

LED supply +
Group 1
Group 2
Group 3
Group 4

To Fixture

DRIVER RGB

DMX DATA TO NEXT POWER/DATA SUPPLY

DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS

ORDERING CODE	PSB-100W-24VDC-RGB	PSB-2X100W-24VDC-RGB	PSB-3X100W-24VDC-RGB	PSB-4X100W-24VDC-RGB
SPECIFICATIONS				
MAXIMUM LOAD	100W	2X100W	3X100W	4X100W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.14" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-100W-24VDC-RGB-IW	N/A	N/A	N/A
DIMMING & CONTROLS				
TOUCH SCREEN CONTROLLER (CTP)	•	•	•	•
COLOR DIAL CONTROLLER (CDP)	•	•	•	•
DMX 1 ZONE RGBW TOUCH CONTROLLER (CDMX1-RGBW)	•	•	•	•

Classification: UL2108 - * 24VDC over 100 Watts, wires must be in conduit from Remote Power Supply to J-box.

8.5" (21.6cm)

14" (35.5cm)
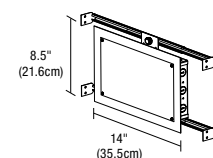
8.5" X 14" IN-WALL MOUNTING KIT
Includes Power Supply, Box Cover, and Stud Hangers for installing Junction Box in wall. Select "IW" in the options section of compatible Power Supply ordering codes if an In-Wall Mounting Kit is needed.

ORDERING CODES: PSB-100W-24VDC-RGB-IW

PROJECT		FIXTURE TYPE		DATE	

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LIGHT CHANNEL TM30 DATA

24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
MONOCHROMATIC STATIC COLOR

PURE EDGE
LIGHTING

REV 02.11.20

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 | CRI: 85+
Color Vector Graphic
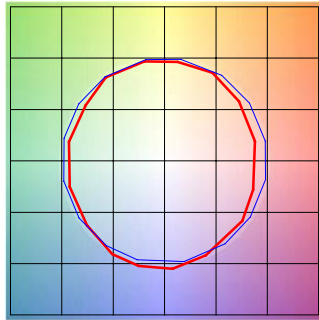
Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		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%

2700K | Rf: 87.7 | Rg: 96.1 | CRI: 95+
Color Vector Graphic
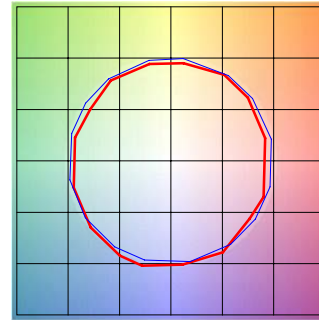
Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		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%

3000K | Rf: 88.1 | Rg: 99.7 | CRI: 95+
Color Vector Graphic
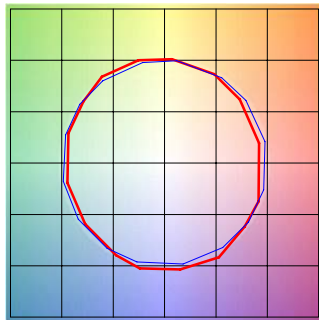
Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		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%

3500K | Rf: 86.1 | Rg: 95.5 | CRI: 85+
Color Vector Graphic
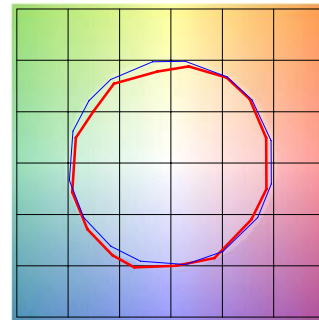
Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		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%

4000K | Rf: 87.6 | Rg: 96.8 | CRI: 84
Color Vector Graphic
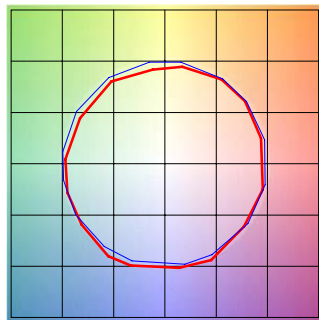
Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		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%

5700K | Rf: 80.3 | Rg: 91.5 | CRI: 84
Color Vector Graphic
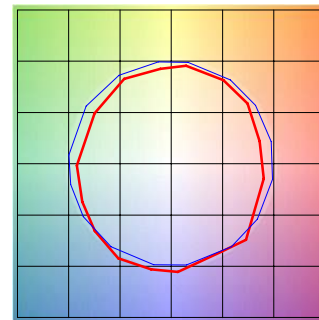
Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		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%

PROJECT		FIXTURE TYPE		DATE	

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# LIGHT CHANNEL TM30 DATA

24VDC LED DO-IT-YOURSELF DYNAMIC TUNABLE WHITE, WARM DIM, RGB COLOR CHANGING &
MONOCHROMATIC STATIC COLOR

PURE EDGE LIGHTING

REV 02.11.20

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.

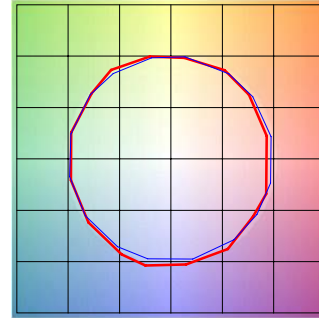## 2700D | Rf: 89.5 | Rg: 100.8 | CRI: 95+
Color Vector Graphic
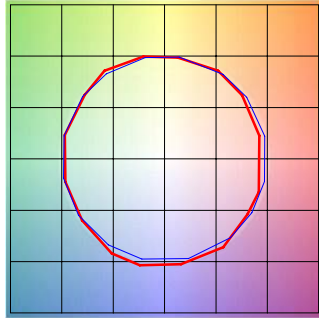
HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.8	-5.1%	1.4%
2	89.8	-2.7%	4.1%
3	87.2	0.3%	5.9%
4	92.3	-0.9%	1.0%
5	93.3	1.5%	1.7%
6	92.4	3.6%	-0.2%
7	92.2	-0.9%	-2.4%
8	96.7	-0.4%	-1.1%
9	92.3	-1.2%	3.7%
10	88.9	-0.0%	6.1%
11	86.4	5.1%	7.4%
12	88.2	6.3%	-0.9%
13	87.2	3.8%	-8.1%
14	84.2	3.8%	-11.0%
15	89.8	-2.6%	-4.3%
16	82.7	-3.4%	-11.1%

Test Reference

3000D | Rf: 89.8 | Rg: 101.4 | CRI: 95+
Color Vector Graphic

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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%

Test Reference

2000K only (2K4K) | Rf: 82.8 | Rg: 99.3 | CRI: 86
Color Vector Graphic
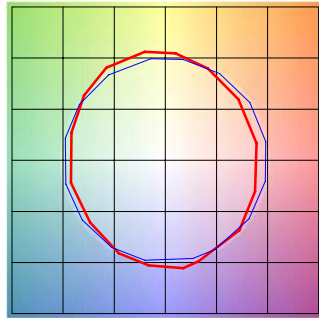
HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	80.1	-9.2%	0.3%
2	77.4	-7.4%	9.0%
3	74.5	-2.3%	12.4%
4	85.3	4.5%	8.6%
5	89.9	7.9%	4.5%
6	88.3	7.2%	-1.8%
7	83.5	1.1%	-10.0%
8	87.1	-4.9%	-6.7%
9	88.3	-5.3%	-0.0%
10	84.6	-5.1%	6.4%
11	84.3	1.0%	9.1%
12	84.2	4.1%	4.7%
13	85.8	7.4%	-11.4%
14	60.8	0.6%	-19.6%
15	77.8	-1.6%	-14.7%
16	78.1	-7.8%	-11.5%

Test Reference

4000K only (2K4K) | Rf: 89.6 | Rg: 99.1 | CRI: 87
Color Vector Graphic
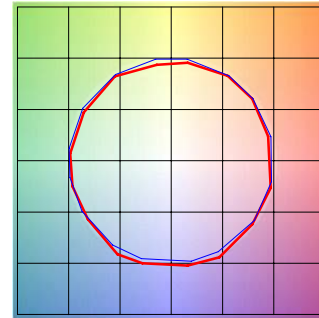
HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.3	-2.5%	1.0%
2	95.3	-0.5%	0.5%
3	94.3	-0.7%	1.1%
4	91.1	-3.4%	-1.1%
5	89.5	-5.6%	0.0%
6	94.6	-1.4%	1.3%
7	93.2	-3.0%	2.6%
8	91.3	-1.8%	4.6%
9	86.5	-0.9%	9.1%
10	83.3	-0.5%	9.5%
11	83.3	4.9%	9.0%
12	89.7	4.1%	1.7%
13	90.1	3.6%	-4.3%
14	93.4	5.2%	-2.1%
15	87.4	0.4%	-4.3%
16	86.6	0.4%	-6.1%

Test Reference

2K4K (3000K) | Rf: 90.2 | Rg: 101.4 | CRI: 90+
Color Vector Graphic
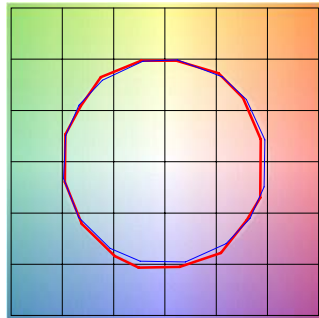
HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.9	-3.8%	1.3%
2	91.7	-1.9%	3.3%
3	88.7	0.7%	5.1%
4	92.4	-1.0%	0.7%
5	92.9	0.9%	1.7%
6	93.1	3.3%	-0.6%
7	91.0	-1.8%	-0.4%
8	97.0	0.2%	-1.1%
9	92.8	-0.5%	3.6%
10	88.3	1.0%	7.0%
11	87.1	3.8%	7.8%
12	87.6	6.5%	-0.3%
13	89.3	3.6%	-6.3%
14	86.1	4.5%	-9.1%
15	91.6	-1.9%	-3.1%
16	83.8	-1.5%	-11.2%

Test Reference

PROJECT		FIXTURE TYPE		DATE	

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