LIGHT CHANNEL 45° DIY SURFACE MOUNT
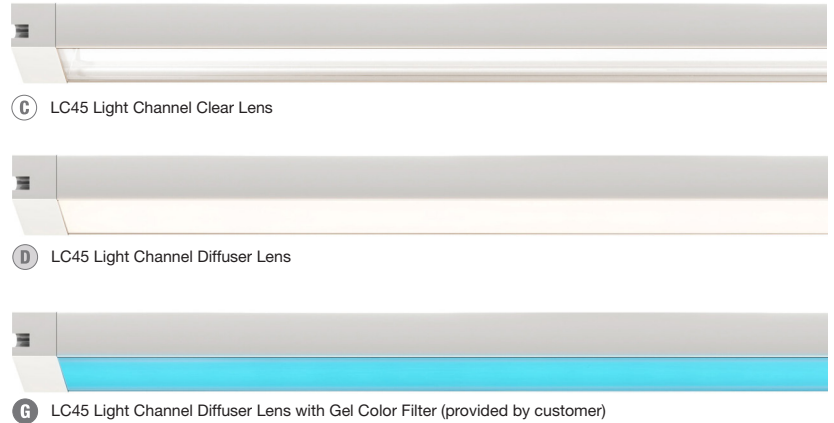## 24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

PURE EDGE LIGHTING

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.15.20

C Clear Lens
D Diffuser Lens
G Gel Color Filter Suitable

C LC45 Light Channel Clear Lens

D LC45 Light Channel Diffuser Lens

G LC45 Light Channel Diffuser Lens with Gel Color Filter (provided by customer)

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.
- Surface mount 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 5 watt only.
- **Static White Options:** Wattage 2.5W | 5W | 7.5W Kelvin Range 2000K-5700K
- **Dynamic Color:** RGB 5W only.
- **Static Color:** Amber (AAA), Green (GGG), Blue (BBB), RED (RRR)

LENS & LOUVERS

- **(D)** Diffuser Lens, **(DW)** Diffused Lens with White Louver, **(DB)** Diffused Lens with Black Louver. Projects Dot-Free clean line of LED light.
- **(C)** Clear Lens, **(CW)** Clear Lens with White Louver, **(CB)** Diffused Lens with Black Louver. **LEDS WILL SHOW.**
- Gel Diffused Lens (G) provided by the customer please visit www.leefilters.com for more information.
- 5 year warranty included

APPLICATIONS

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

REQUIRED COMPONENTS

- Light Channel 45° Surface Mount 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)

- Universal Power Supplies (Triac, ELV, 0-10V)
- Electronic Low Voltage Dimming (ELV)
- Dynamic Color Changing (DMX)
- Lutron Hi-Lume®
- 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)
- Class 2 wiring up to 100 watts. No need for conduit pipe.

*In-Wall Mounting Kits available for select power supplies. **Form Factor Power Supply Fits**

Within included J-BOX: 50 Watt IC Rated PS-60L-ELV-24VDC ELV Power Supply.

Light Channel 45° DIY System Overview
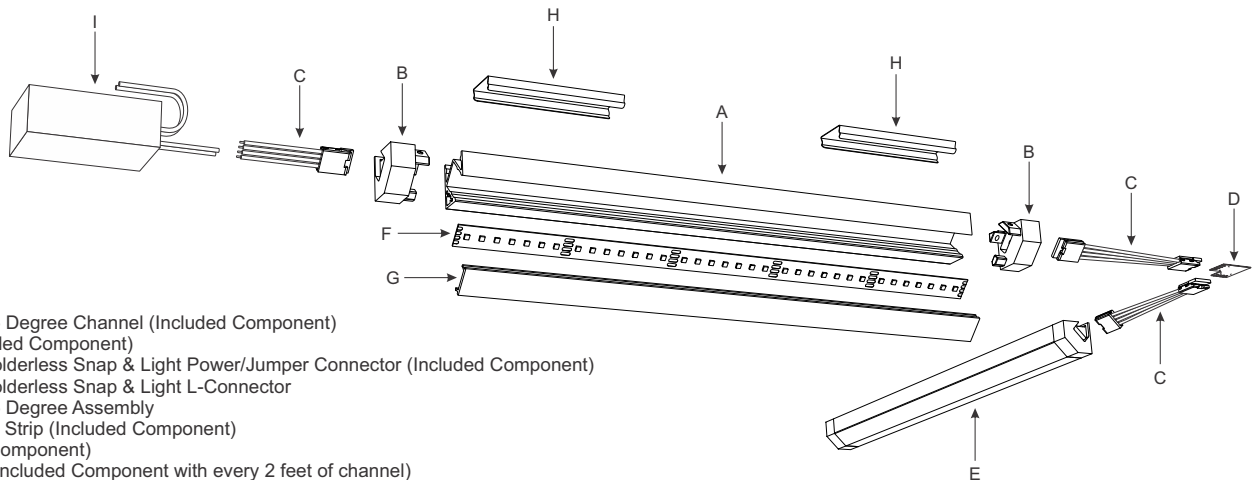
A) Light Channel 45 Degree Channel (Included Component)
B) End Caps (Included Component)
C) Light Channel Solderless Snap & Light Power/Jumper Connector (Included Component)
D) Light Channel Solderless Snap & Light L-Connector
E) Light Channel 45 Degree Assembly
F) 24VDC LED Soft Strip (Included Component)
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)

PROJECT		FIXTURE TYPE		DATE	

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1

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

PURE EDGE LIGHTING

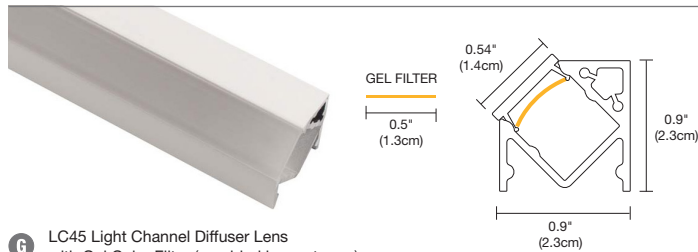DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.15.20

REQUIRED COMPONENTS: Select Light Channel 45° Surface Mount option, End Caps and Power Connector based on lighting design.

C — LC45 Light Channel Clear Lens

0.54" (1.4cm)
0.9" (2.3cm)
0.9" (2.3cm)

D — LC45 Light Channel Diffuser Lens

0.54" (1.4cm)
0.9" (2.3cm)
0.9" (2.3cm)

GEL FILTER
0.5" (1.3cm)
0.54" (1.4cm)
0.9" (2.3cm)
0.9" (2.3cm)

G — LC45 Light Channel Diffuser Lens with Gel Color Filter (provided by customer)

Light Channel 45° Surface Mount

Start the ordering process by selecting the desired aluminum channel length and lens option. Then order the LED Soft Strip, End Caps, Power Feed Joiner, and Jumper. 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 also be ordered separately as replacement parts. The Diffuser Lens projects clean lines of light, eliminating LED dots. The Clear Lens provides maximum light levels and will show 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
LC45	**10FT**	**D**	**SA**

System		Length in Feet		Lens		Finish	
LC45	Light Channel 45 Degree	2FT	2 Feet	D	Diffuser Lens	SA	Satin Aluminum
		4FT	4 Feet	C	Clear Lens	BZ	Antique Bronze
		5FT	5 Feet	G	Gel Lens	WH	White
		8FT	8 Feet	CW	Clear Lens White Louver		
		10FT	10 Feet	CB	Clear Lens Black Louver		
				DW	Diffused Lens Black Louver		
				DB	Diffused Lens White Louver		

SA Satin Aluminum

BZ Antique Bronze

WH White

End Cap Right

Right Front View
0.9" (2.3cm)
0.9" (2.3cm)

Right Side View
0.49" (1.2cm)
0.9" (2.3cm)
0.26" (0.7cm)

End Cap Left

Left Front View
0.9" (2.3cm)
0.9" (2.3cm)

Left Side View
0.49" (1.2cm)
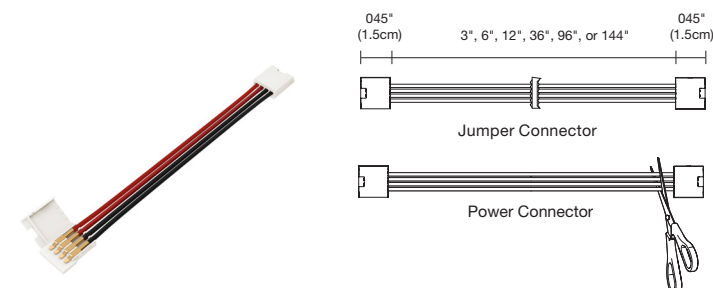0.9" (2.3cm)
0.26" (0.7cm)

End Caps

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. Typically one order of End Caps per run will suffice, however additional End Caps may be required if the lighting design requires cutting the channel.
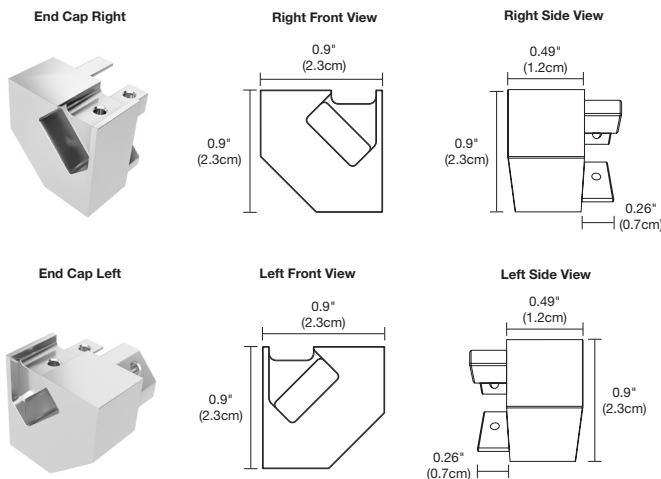
System	Product	Type	Finish
LC45	**SLC**	**CA**	**SA**

System		Product		Type		Finish	
LC45	Light Channel 45 Degree	SLC	Snap and Light Connector	CA	End Caps	SA	Satin Aluminum
						BZ	Antique Bronze
						WH	White

045" (1.5cm)
3", 6", 12", 36", 96", or 144"
045" (1.5cm)

Jumper Connector

Power Connector

24VDC Light Channel Solderless Snap & Light Jumper/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**

System		Product		Length			
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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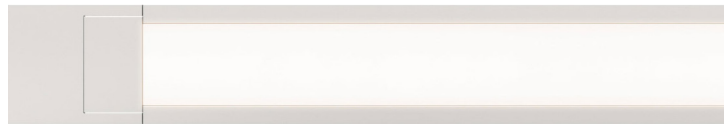
2

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE LIGHTING

REV 01.15.20

0.77" (2cm)
0.27" (0.7cm)
0.5" (1.3cm)
12.85" - 120.85" (32.6cm - 307cm)
0.5" (1.3cm)
0.9" (2.3cm)
0.9" (2.3cm)
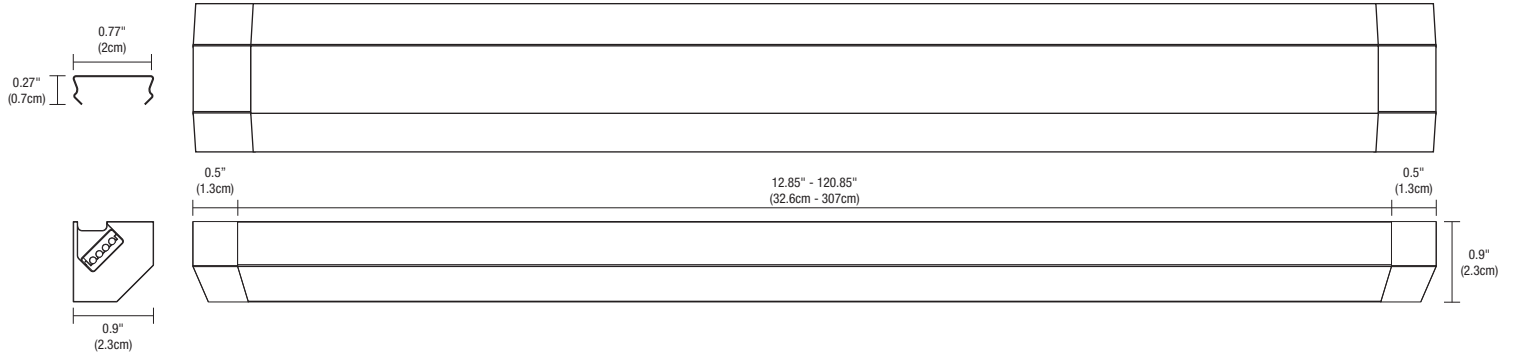
INCLUDED COMPONENTS Lens Options and Lamp Data for indoor Light Channel 0.6" Surface Mount

LC45 LIGHT CHANNEL
61° DIFFUSER LENS
White Diffuser Lens projects clean lines of light, eliminating LED dots

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

LC45 LIGHT CHANNEL
DIFFUSE WHITE LENS WITH WHITE LOUVER

LC45 LIGHT CHANNEL
DIFFUSER LENS WITH BLACK LOUVER

LC45 LIGHT CHANNEL
CLEAR LENS WITH WHITE LOUVER

LC45 LIGHT CHANNEL
CLEAR LENS WITH BLACK LOUVER

LC45 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)							
COLOR TEMPERATURE	22K	24K	27K	30K	35K	40K	57K	22K	24K	27K	27D*	30K	27D*	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
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
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
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
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
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
CRI	85+	90+	95+	95+	85+	84	84	85+	90+	95+	95+	95+	95+	85+	84	84

FOOT CANDLE CHARTS

30K 60° 5W DIFFUSER LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	15in	107 FC
18in	21in	67 FC
24in	29in	47 FC
36in	42in	26 FC

30K 60° 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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3

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

PURE EDGE
LIGHTING

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.15.20

ACCESSORIES: Order based on lighting design or as replacement parts.
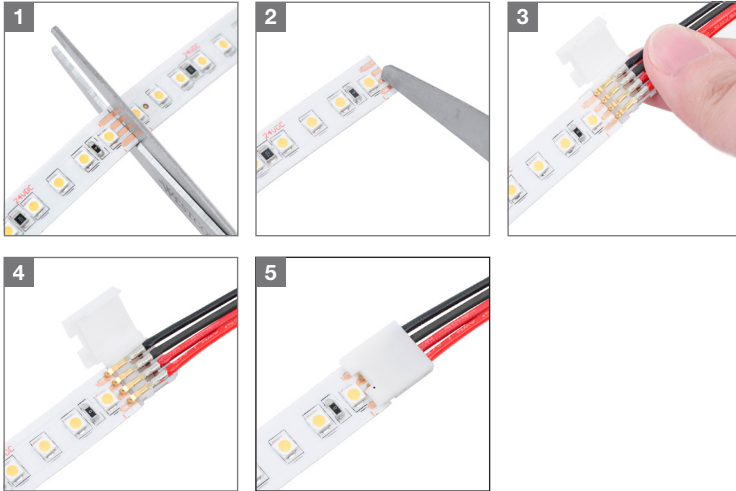
Light Channel Solderless Snap & Light Connectors:
Allow easy cutting and rejoining of the LED Soft Strip at any point within a Light Channel. Light Channel Solderless Snap & Light Connectors provide a
tightly sealed connection, reducing labor during installation. The gold plated connections provide better 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
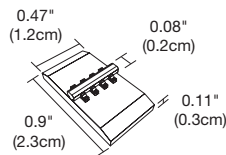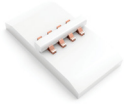
Soft Strip Solderless Snap & Light Straight Joiner
Joins 2 sections of LED Soft Strip in the channel. Used when replacing a section of LED Soft Strip.
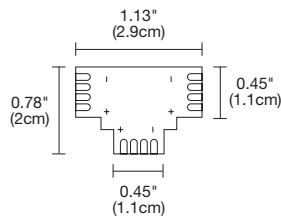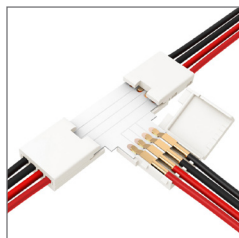
System		Product	
CH		**SLC**	
CH Channel		SLC Snap & Light Straight Joiner	

Dimensions: 0.47" (1.2cm), 0.08" (0.2cm), 0.11" (0.3cm), 0.9" (2.3cm)
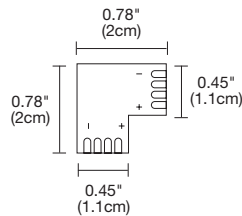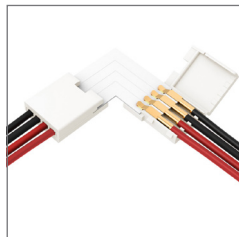
Light Channel Solderless Snap & Light L-Connector
Conducts power to 2 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector (sold separately) for use.

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

Dimensions: 0.78" (2cm), 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 LightChannel. 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	

Dimensions: 1.13" (2.9cm), 0.78" (2cm), 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.
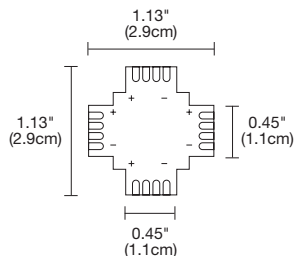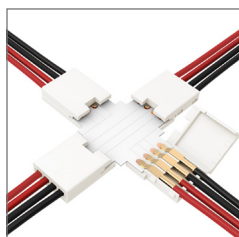
System		Product	
LC		**SLX**	
LC Light Channel		SLX Snap & Light X-Connecto	

Dimensions: 1.13" (2.9cm), 1.13" (2.9cm), 0.45" (1.1cm), 0.45" (1.1cm)

PROJECT		FIXTURE TYPE		DATE	

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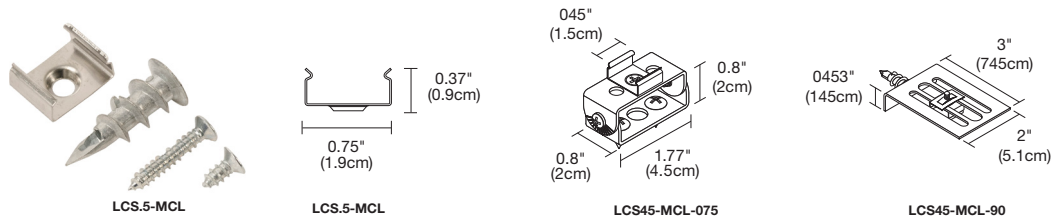
4

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

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

LCS.5-MCL

LCS.5-MCL

045" (1.5cm)
0.37" (0.9cm)
0.75" (1.9cm)

LCS45-MCL-075

0.8" (2cm)
0.8" (2cm)
1.77" (4.5cm)

LCS45-MCL-90

0453" (145cm)
3" (745cm)
2" (5.1cm)

SHOWN WITH LCS45-MCL

SHOWN WITH LCS45-MCL-075

SHOWN WITH LCS45-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.
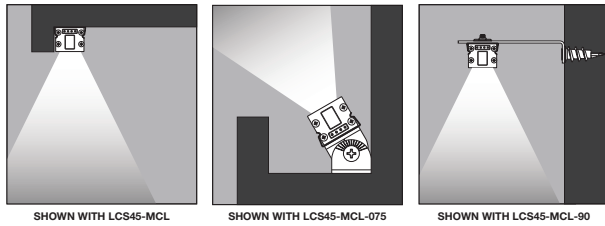
System	Product	Type
LCS45	**MCL**	Standard (Leave Blank)

LCS45 Light Channel 045" Surface Mount

MCL Mounting Clip

075 Adjusts 0-75°
90 Adjusts 90°

4RD-WH

0.52" (1.3cm)
445" (11.7cm)

0.21" (0.5cm)
0452" (145cm)
445" (11.7cm)

3RE-WH

0.96" (2.4cm)
2.78" (7.1cm)
4.52" (11.5cm)

0.26" (0.7cm)
0453" (145cm)

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
4RD 4 Inch Round Canopy Cover
1RB 1 Inch Rectangle Splice Box

WH White

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.

PROJECT		FIXTURE TYPE		DATE	

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5

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24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB
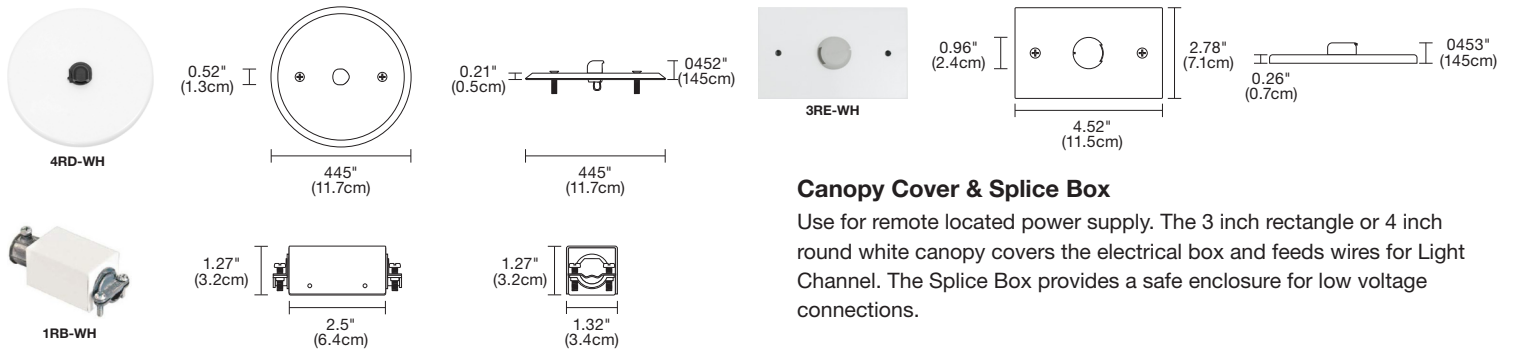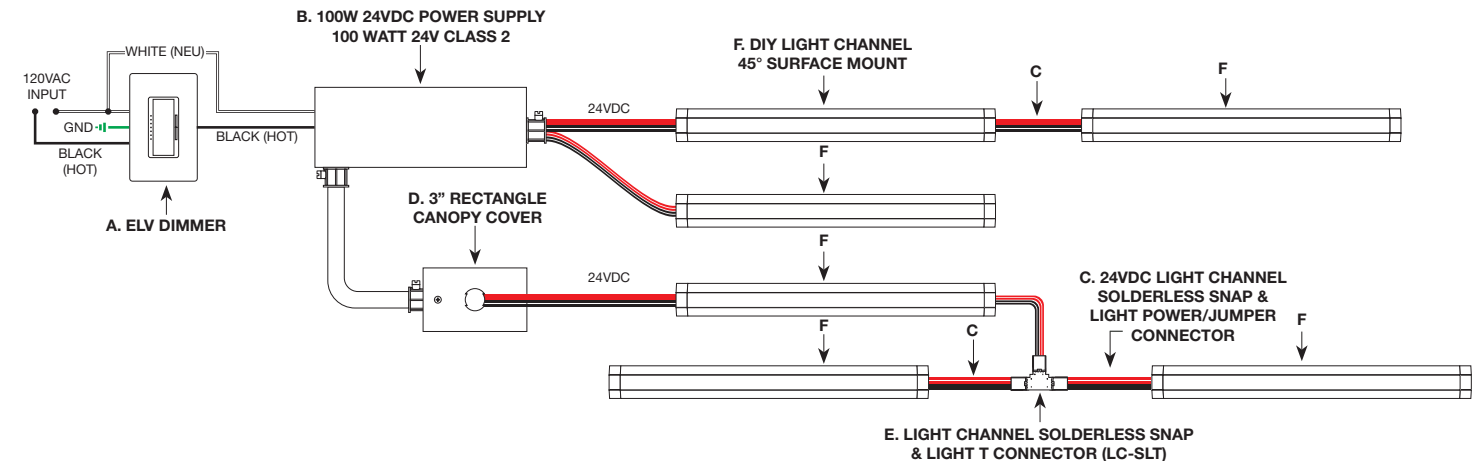
DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REQUIRED COMPONENTS: Use the comparison chart below to select the desired 24VDC LED Soft Strip to install within Light Channel 45° Surface Mount.

ORDERING CODE	SS4P	SS2C	SS5C	SS5C	SS7C
COLOR TYPE	Static White	Static White	Static White	Warm Dim	Static White
GRADE	Economy Premium	Commercial	Commercial	Commercial	Commercial
WATTAGE PER FOOT*	3.5w	2.5w	4.4w	4.8w	7w
AVAILABLE COLOR TEMPERATURES & CRI	2700K - 84 3000K - 85	20K - 85+ 30K - 95+ 22K - 90+ 35K - 85+ 24K - 95+ 40K - 85+ 27K - 95+ 57K - 85+	20K - 85+ 30K - 95+ 22K - 90+ 35K - 85+ 24K - 95+ 40K - 85+ 27K - 95+ 57K - 85+	(27D) 2700K Warm Dim to 2000K 95+ CRI (30D) 3000K Warm Dim to 2000K 95+ CRI	2200K - 85+ 3500K - 90+ 2400K - 90+ 4000K - 85+ 2700K - 95+ 5700K - 84+ 3000K - 95+
STANDARD DIFFUSED LENS LUMENS PER FOOT lm/ft & LUMENS PER WATT lm/w	27K - 168 lm/ft | 48lm/w 30K - 183 lm/ft | 53 lm/w	22K - 75 lm/ft | 30 lm/w 27K - 92 lm/ft | 37 lm/w 30K - 100 lm/ft | 40 lm/w 35K - 115 lm/ft | 46 lm/w 40K - 125 lm/ft | 50 lm/w 57K - 133 lm/ft | 53 lm/w	22K - 146 lm/ft | 33 lm/w 27K - 178 lm/ft | 40 lm/w 30K - 195 lm/ft | 44 lm/w 35K - 223 lm/ft | 51 lm/w 40K - 242 lm/ft | 55 lm/w 57K - 258 lm/ft | 59 lm/w	27D - 219 lm/ft | 46 lm/w 30D - 240 lm/ft | 50 lm/w	22K - 290 lm/ft | 40 lm/w 27K - 354 lm/ft | 48 lm/w 30K - 386 lm/ft | 53 lm/w 35K - 442 lm/ft | 61 lm/w 40K - 481 lm/ft | 66 lm/w 57K - 512 lm/ft | 70 lm/w
CLEAR FROSTED LENS LUMENS PER FOOT lm/ft & LUMENS PER WATT lm/w	27K - 195 lm/ft | 56 lm/w 30K - 213 lm/ft | 61 lm/w	22K - 88 lm/ft | 35 lm/w 27K - 107 lm/ft | 43 lm/w 30K - 117 lm/ft | 47 lm/w 35K - 134 lm/ft | 54 lm/w 40K - 146 lm/ft | 58 lm/w 57K - 155 lm/ft | 62 lm/w	22K - 171 lm/ft | 39 lm/w 27K - 209 lm/ft | 47 lm/w 30K - 228 lm/ft | 52 lm/w 35K - 261 lm/ft | 59 lm/w 40K - 284 lm/ft | 65 lm/w 57K - 302 lm/ft | 69 lm/w	27D - 257 lm/ft | 281 lm/w 30D - 54 lm/ft | 59 lm/w	22K - 340 lm/ft | 47 lm/w 27K - 414 lm/ft | 57 lm/w 30K - 453 lm/ft | 62 lm/w 35K - 518 lm/ft | 71 lm/w 40K - 564 lm/ft | 77 lm/w 57K - 600 lm/ft | 82 lm/w
WHITE LOUVER DIFFUSED WHITE LENS LUMENS PER FOOT lm/ft & LUMENS PER WATT lm/w	27K - 134 lm/ft | 38 lm/w 30K - 146 lm/ft | 41 lm/w	22K - 50 lm/ft | 61 lm/w 27K - 61 lm/ft | 24 lm/w 30K - 67 lm/ft | 27 lm/w 35K - 76 lm/ft | 31 lm/w 40K - 83 lm/ft | 33 lm/w 57K - 88 lm/ft | 35 lm/w	22K - 97 lm/ft | 22 lm/w 27K - 119 lm/ft | 27 lm/w 30K - 130 lm/ft | 29 lm/w 35K - 149 lm/ft | 34 lm/w 40K - 162 lm/ft | 37 lm/w 57K - 172 lm/ft | 39 lm/w	27D - 146 lm/ft | 30 lm/w 30D - 160 lm/ft | 33 lm/w	22K - 193 lm/ft | 26 lm/w 27K - 236 lm/ft | 32 lm/w 30K - 258 lm/ft | 35 lm/w 35K - 295 lm/ft | 40 lm/w 40K - 321 lm/ft | 44 lm/w 57K - 341 lm/ft | 47 lm/w
WHITE LOUVER CLEAR FROSTED LENS LUMENS PER FOOT lm/ft & LUMENS PER WATT lm/w	27K - 156 lm/ft | 46 lm/w 30K - 170 lm/ft | 48 lm/w	22K - 59 lm/ft | 23 lm/w 27K - 72 lm/ft | 29 lm/w 30K - 78 lm/ft | 31 lm/w 35K - 90 lm/ft | 36 lm/w 40K - 97 lm/ft | 39 lm/w 57K - 104 lm/ft | 41 lm/w	22K - 114 lm/ft | 26 lm/w 27K - 139 lm/ft | 32 lm/w 30K - 152 lm/ft | 35 lm/w 35K - 174 lm/ft | 40 lm/w 40K - 189 lm/ft | 43 lm/w 57K - 201 lm/ft | 46 lm/w	27D - 171 lm/ft | 36 lm/w 30D - 187 lm/ft | 39 lm/w	22K - 226 lm/ft | 31 lm/w 27K - 276 lm/ft | 38 lm/w 30K - 302 lm/ft | 41 lm/w 35K - 346 lm/ft | 47 lm/w 40K - 376 lm/ft | 51 lm/w 57K - 400 lm/ft | 55 lm/w
BLACK LOUVER DIFFUSED WHITE LENS LUMENS PER FOOT lm/ft & LUMENS PER WATT lm/w	27K - 117 lm/ft | 34 lm/w 30K - 110 lm/ft | 32 lm/w	22K - 28 lm/ft | 11 lm/w 27K - 35 lm/ft | 14 lm/w 30K - 38 lm/ft | 15 lm/w 35K - 43 lm/ft | 17 lm/w 40K - 47 lm/ft | 19 lm/w 57K - 50 lm/ft | 20 lm/w	22K - 55 lm/ft | 13 lm/w 27K - 67 lm/ft | 15 lm/w 30K - 74 lm/ft | 17 lm/w 35K - 84 lm/ft | 19 lm/w 40K - 92 lm/ft | 21 lm/w 57K - 98 lm/ft | 22 lm/w	27D - 83 lm/ft | 17 lm/w 30D - 91 lm/ft | 19 lm/w	22K - 110 lm/ft | 15 lm/w 27K - 134 lm/ft | 18 lm/w 30K - 146 lm/ft | 20 lm/w 35K - 167 lm/ft | 23 lm/w 40K - 182 lm/ft | 25 lm/w 57K - 194 lm/ft | 27 lm/w
BLACK LOUVER CLEAR FROSTED LENS LUMENS PER FOOT lm/ft & LUMENS PER WATT lm/w	27K - 171 lm/ft | 34 lm/w 30K - 146 lm/ft | 37 lm/w	22K - 33 lm/ft | 13 lm/w 27K - 41 lm/ft | 16 lm/w 30K - 44 lm/ft | 18 lm/w 35K - 51 lm/ft | 20 lm/w 40K - 55 lm/ft | 22 lm/w 57K - 59 lm/ft | 24 lm/w	22K - 65 lm/ft | 15 lm/w 27K - 79 lm/ft | 18 lm/w 30K - 86 lm/ft | 20 lm/w 35K - 99 lm/ft | 22 lm/w 40K - 107 lm/ft | 24 lm/w 57K - 114 lm/ft | 26 lm/w	27D - 97 lm/ft | 20 lm/w 30D - 106 lm/ft | 22 lm/w	22K - 128 lm/ft | 18 lm/w 27K - 157 lm/ft | 21 lm/w 30K - 171 lm/ft | 23 lm/w 35K - 196 lm/ft | 27 lm/w 40K - 213 lm/ft | 29 lm/w 57K - 227 lm/ft | 31 lm/w
NUMBER OF LEDS PER FOOT	35	35	35	70 (35+35)	35
CUTTING INCREMENTS	2.4"	2.4"	2.4"	3"	2.4"
MAXIMUM LENGTH 100 WATT, POWER SUPPLY	25 FT	40 FT	20 FT	20 FT	20 FT
LED DISTANCE	0.34"	0.34"	0.34"	0.22"	0.34"
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	ELV POWER ONLY	UNIVERSAL (ELV, 0-10V and TRIAC), ELV, 0-10V
LAMP LIFE (HOURS)	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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6

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

PURE EDGE
LIGHTING

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.15.20

REQUIRED COMPONENTS: Select 24VDC LED Soft Strip based on desired color temperature and application.
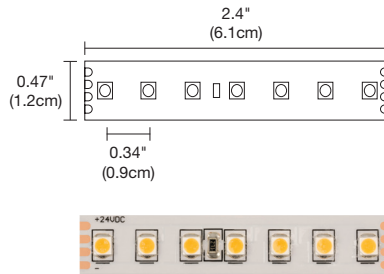
To Solid State Power Supply with 85-90% efficiency compared to magnetic at only 80%

Snap & Light Solderless Connector

Gold Plated Contacts

0.34" Tight LED Spacing

No Dots When used with Diffused Lens

White Finish

Premium Silicone Coating

SS5C LED Soft Strip

2oz Copper

Insulator

2oz Copper

3M™ Adhesive Tape

Tunable White (2K4K) Warm Dim (27D, 30D)
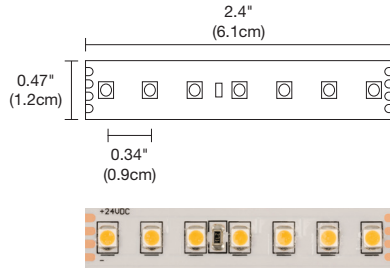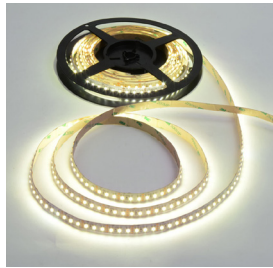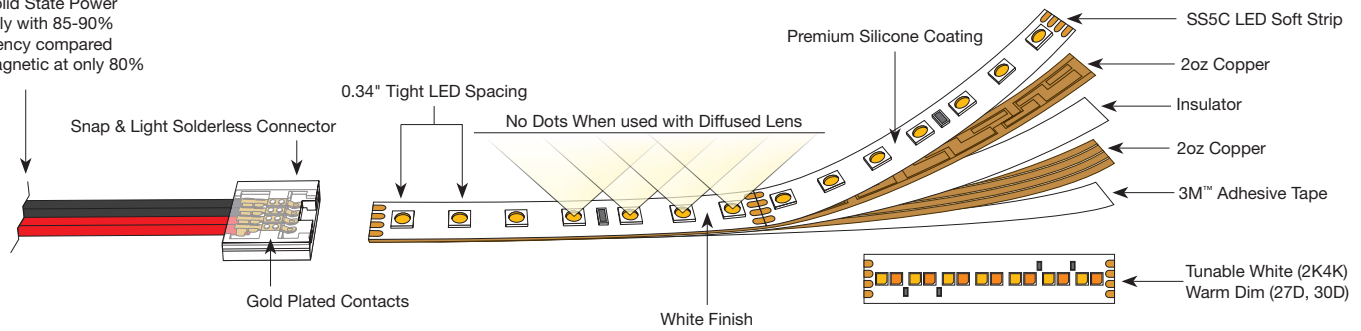
ECONOMY PREMIUM STATIC WHITE SOFT STRIP

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-POWER ELV and 0-10V power supplies.
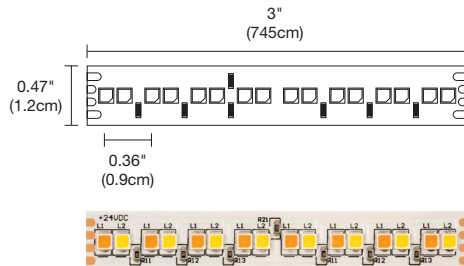
2.4" (6.1cm)

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 eight color temperatures. SS2C, SS5C, and SS7C Soft Strips use UNI-POWER 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	**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	

WARM DIM DIM-TO-WARM

(30D) dims from 3000K to 2000K, (27D) dims from 2700K to 2000K. 4.8 Watt Only. USE ELV POWER SUPPLY.

3" (745cm)

0.47" (1.2cm)

0.36" (0.9cm)

+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 (DIM-TO-WARM) 5 Watt Only

PROJECT		FIXTURE TYPE		DATE	

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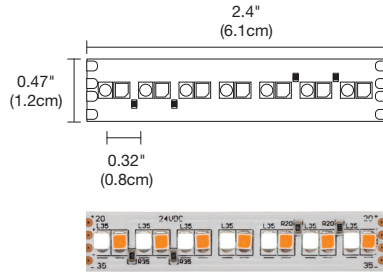
7

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE LIGHTING

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

2.4"
(6.1cm)

0.47"
(1.2cm)

0.32"
(0.8cm)

24VDC

COMMERCIAL/DYNAMIC TUNABLE WHITE (2K4K)

Consumes 4.8 watts per foot and provides variable color temperatures ranging from candlelight (2000K) to cool white (4000K) at full brightness or dim to 1%. SS5C Soft Strip Tunable White uses Universal Power Supplies, ELV, 0-10V, and DMX power supplies.

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)

+24V
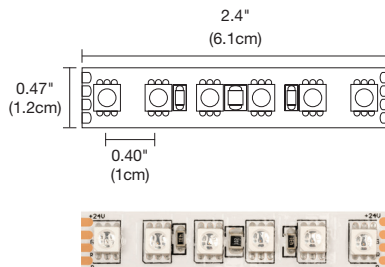
SPECIAL APPLICATION DYNAMIC COLOR (RGB)

Consumes 5 watts per foot and provides dynamic color changing effects with red, green, and blue LEDs. SS5 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

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2.4"
(6.1cm)

0.47"
(1.2cm)

0.34"
(0.9cm)

+24VDC
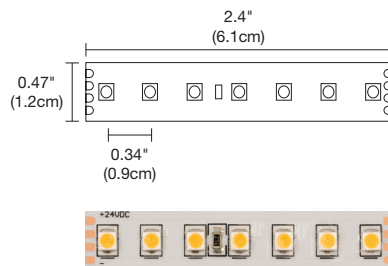
MONOCHROMATIC STATIC COLOR

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

PURE EDGE
LIGHTING

REV. 01.22.20

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	
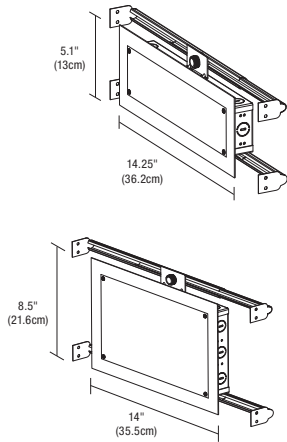
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9

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

PURE EDGE
LIGHTING

IN WALL MOUNTING OPTIONS

REV. 01.22.20

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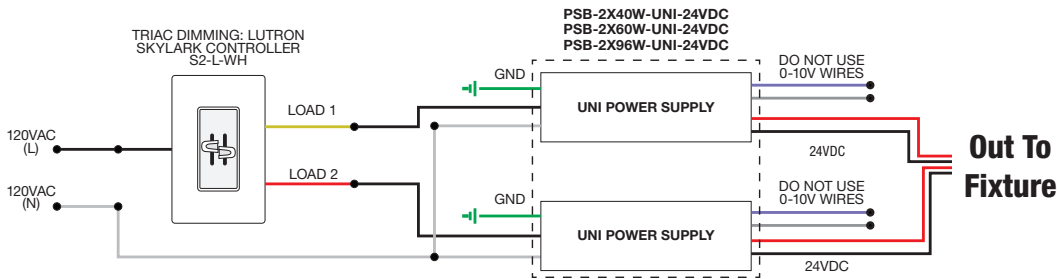
Ordering Codes 5.1 x 14.25 inch: PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

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

Ordering Codes 8.5 x 14.25 inch: PSB-2X40W-UNI-24VDC-IW
PSB-2X60W-UNI-24VDC-IW
PSB-2X96W-UNI-24VDC-IW

8.5" (21.6cm)
14" (35.5cm)

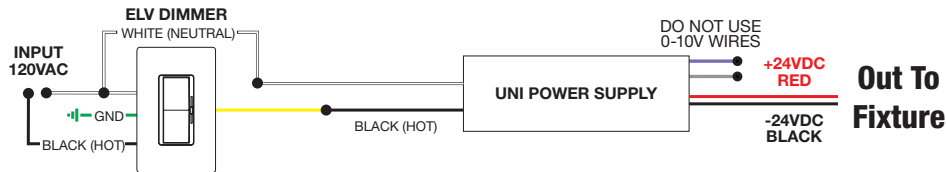## WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

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

120VAC (L) — LOAD 1

120VAC (N) — LOAD 2

24VDC

GND — UNI POWER SUPPLY — DO NOT USE 0-10V WIRES
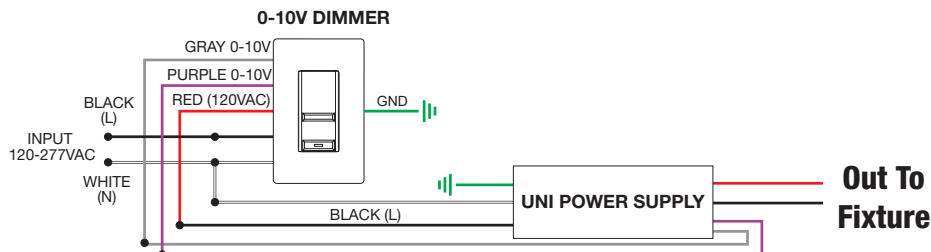
24VDC

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
RED (120VAC)

BLACK (L)

INPUT 120-277VAC

GND

WHITE (N)

BLACK (L)

UNI POWER SUPPLY

Out To Fixture

PROJECT		FIXTURE TYPE		DATE	

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10

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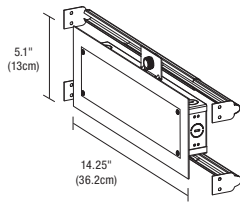
5.1 x 14.25 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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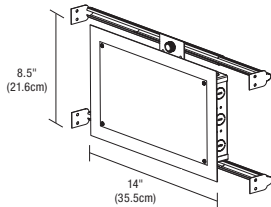
8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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

PROJECT		FIXTURE TYPE		DATE	

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11

REV. 01.22.20
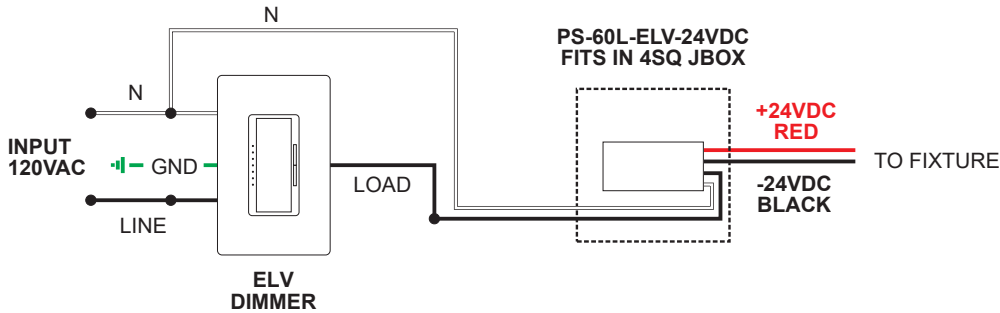
SAMPLE WIRING DIAGRAMS 24VDC ELV

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
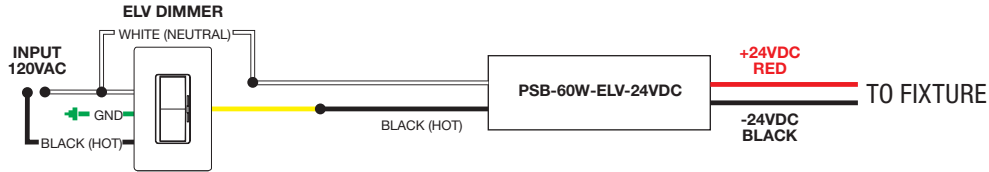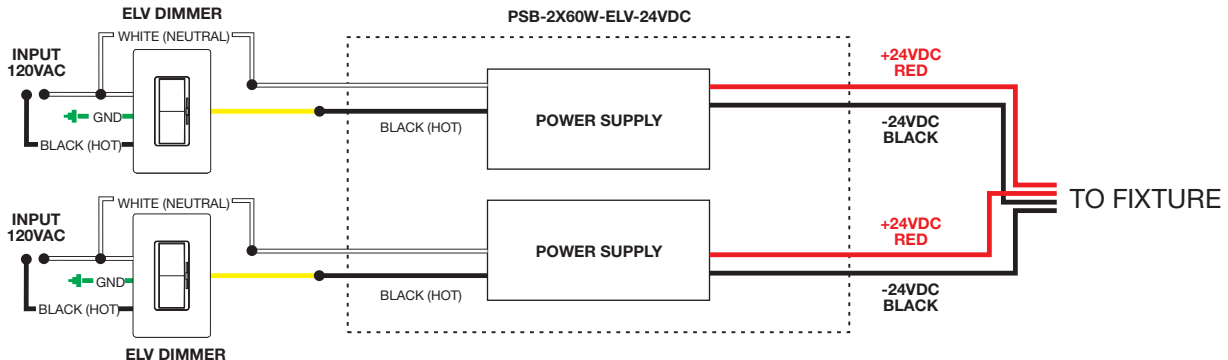

Application: ELV dimming for Static White

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

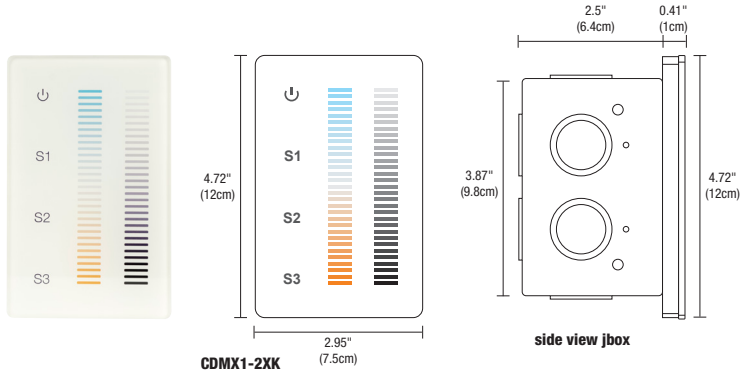**Application:** Dual ELV dimming for Dynamic/Tunable White 2000K-4000K

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

PROJECT		FIXTURE TYPE		DATE	

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12

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

PURE EDGE LIGHTING

REV. 01.22.20

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

N
120V
GND
PSB-100W-24VDC-2XK (Sold Separately)
Power Supply
-24VDC
+24VDC
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:
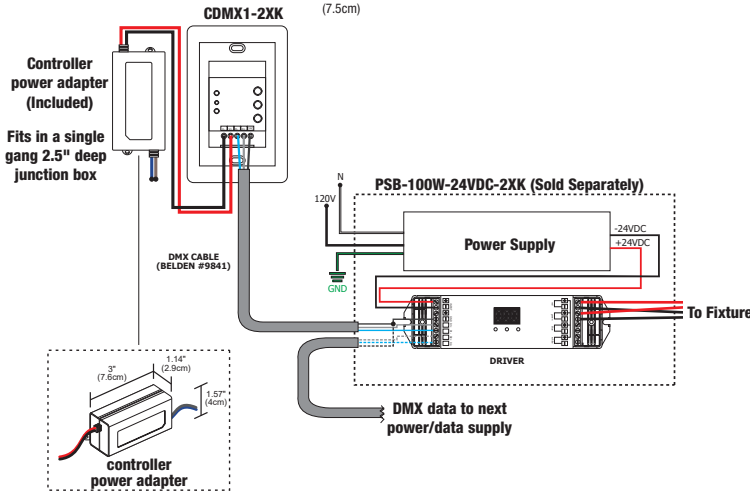Fits in a single gang 2.5 inch deep junction box, not to be used with a multi gang box

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.

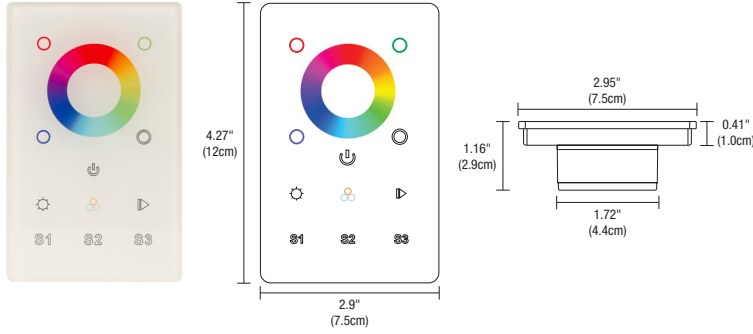## IN WALL MOUNTING OPTIONS
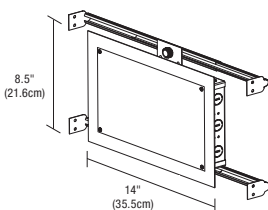
8.5" (21.6cm)
14" (35.5cm)

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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13

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

PURE EDGE
LIGHTING

REV. 01.22.20

4.27" (12cm)

2.95" (7.5cm)
0.41" (1.0cm)
1.16" (2.9cm)
1.72" (4.4cm)

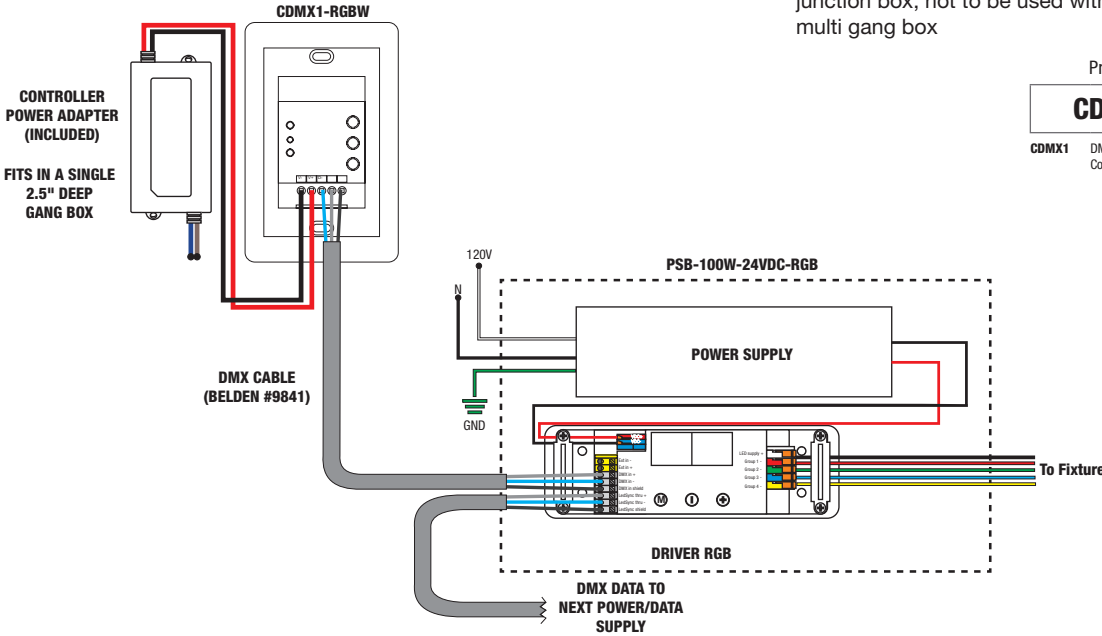2.9" (7.5cm)

S1 S2 S3

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)

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

DRIVER RGB

To Fixture

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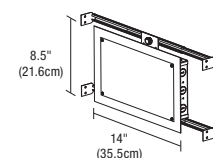
8.5" X 14" IN-WALL MOUNTING KIT
Includes Power Supply, Box Cover, and Stud Hangers for installing Junction Box in wall. Select "IW" in the options section of compatible Power Supply ordering codes if an In-Wall Mounting Kit is needed.

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

PROJECT		FIXTURE TYPE		DATE	

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14

PURE EDGE
LIGHTING

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.15.20

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.

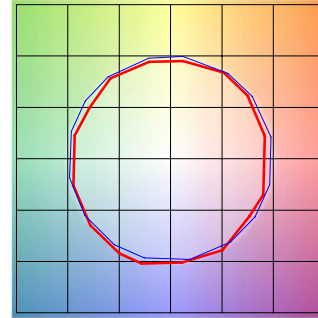### 2200K | Rf: 83.9 | Rg: 94.9 | CRI: 85+

COLOR VECTOR GRAPHIC
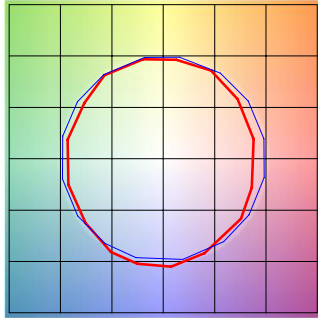
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	7745	-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	8745	-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	545%	245%
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	-545%	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
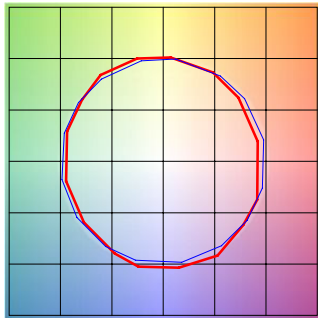
Test Reference

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	045%	4.7%
5	92.7	3.0%	3.5%
6	92.7	345%	-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	9045	445%	-345%
14	8545	5.9%	-8.4%
15	89.5	-045%	-5.7%
16	8245	-2.7%	-12.0%

3500K | Rf: 86.1 | Rg: 95.5 | CRI: 85+

COLOR VECTOR GRAPHIC
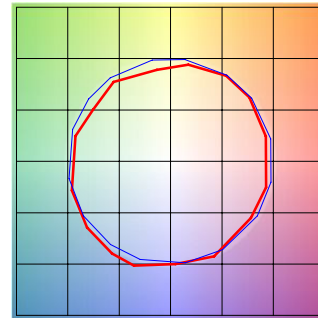
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	8645	-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	7945	-9.5%	6.5%
8	8745	-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%	-445%
13	86.1	-0.7%	-945%
14	85.1	0.8%	-10.4%
15	83.4	-4.1%	-5.3%
16	82.5	-345%	-5.7%

4000K | Rf: 8745 | Rg: 96.8 | CRI: 84

COLOR VECTOR GRAPHIC
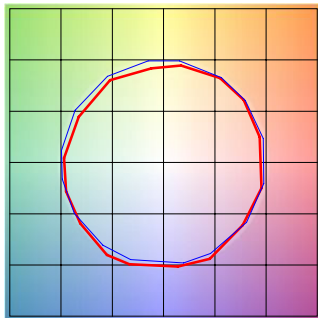
Test Reference

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	8745	-7.8%	-1.8%
6	92.2	-445%	0.1%
7	87.4	-645%	345%
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	-145%	-4.5%
16	85.0	-1.4%	-5.0%

5700K | Rf: 80.3 | Rg: 91.5 | CRI: 84

COLOR VECTOR GRAPHIC
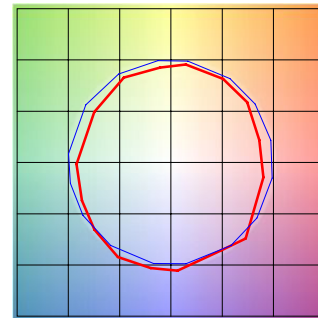
Test Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	73.8	-11.2%	245%
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%	045%
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	-145%	18.0%
11	76.1	5.5%	12.0%
12	90.8	4.9%	-145%
13	8345	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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15

LIGHT CHANNEL 45° DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE/TUNABLE WHITE, WARM DIM, RGB

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.15.20

PURE EDGE LIGHTING

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.

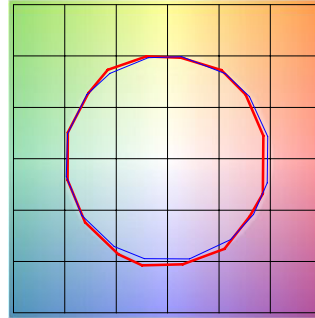### 2700D | Rf: 89.5 | Rg: 100.8 | CRI: 95+

COLOR VECTOR GRAPHIC
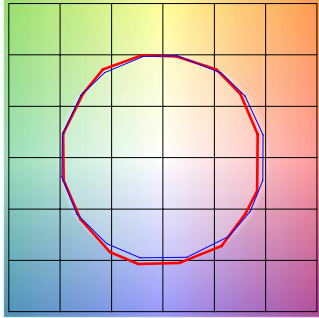
Test Reference

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	345%	-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	-245%	-4.3%
16	82.7	-3.4%	-11.1%

3000D | Rf: 89.8 | Rg: 101.4 | CRI: 95+

COLOR VECTOR GRAPHIC

Test Reference

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%	045%
5	93.0	1.5%	145%
6	92.2	3.9%	-0.2%
7	92.1	-0.3%	-2.0%
8	96.7	0.0%	-1.2%
9	92.5	-045%	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%	-345%
16	83.4	-2.2%	-11.2%

TUNABLE WHITE: 2000K - 4000K

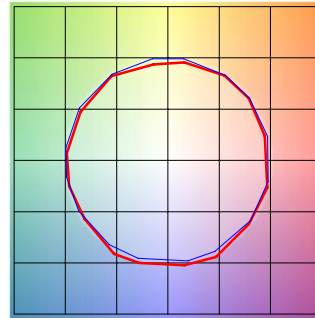### 2000K only (2K4K) | Rf: 82.8 | Rg: 99.3 | CRI: 86

COLOR VECTOR GRAPHIC
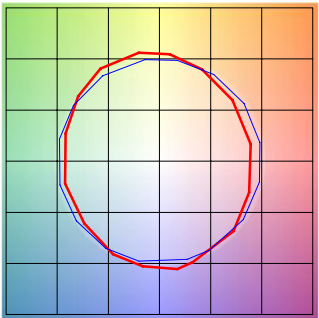
Test Reference

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%	845%
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	8445	-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	045%	-1945%
15	77.8	-145%	-14.7%
16	78.1	-7.8%	-11.5%

4000K only (2K4K) | Rf: 8945 | Rg: 99.1 | CRI: 87

COLOR VECTOR GRAPHIC

Test Reference

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	-545%	0.0%
6	9445	-1.4%	1.3%
7	93.2	-3.0%	245%
8	91.3	-1.8%	445%
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	345%	-4.3%
14	93.4	5.2%	-2.1%
15	87.4	0.4%	-4.3%
16	8645	0.4%	-6.1%

2K4K (3000K) | Rf: 90.2 | Rg: 101.4 | CRI: 90+

COLOR VECTOR GRAPHIC
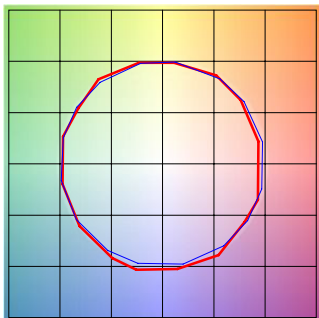
Test Reference

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%	-045%
7	91.0	-1.8%	-0.4%
8	97.0	0.2%	-1.1%
9	92.8	-0.5%	345%
10	88.3	1.0%	7.0%
11	87.1	3.8%	7.8%
12	8745	6.5%	-0.3%
13	89.3	345%	-6.3%
14	86.1	4.5%	-9.1%
15	9145	-1.9%	-3.1%
16	83.8	-1.5%	-11.2%

PROJECT		FIXTURE TYPE		DATE	

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16