SS5C/SS10C LED DYNAMIC/TUNABLE WHITE SOFT STRIP
24VDC VARIABLE WHITE HUMAN CENTRIC LIGHTING

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE
LIGHTING

REV 12.31.19

2.4"
(6.1cm)

0.47"
(1.2cm)

0.32"
(0.8cm)

0.32"
(0.8cm)

Description:
PureEdge's SS5C & SS10C commercial grade 90+ CRI Dynamic/Tunable White LED Soft Strip tape light provides variable white color temperatures which can be set and dimmed anywhere from 2000K to 4000K. Dynamic/Tunable LED lighting allows the user to select desired colors which recreate natural light at different times of day and recall desired emotions from alertness (4000K during the day), to relaxation (2000K at sunset). The 1/2 inch wide flexible copper strip, with optically clear protective coating is sold in 1 foot increments up to 20 feet for 5 watt or 10 feet for 10 watt and may be cut every 2.4 inches. Snap & Light Power Connector is required and is sold separately. Some unfinished surfaces may require screw in mounting clips (sold separately). SS5C and SS10C come with Heat Sink tape for use on wood surfaces. Soft Strip is compatible with solderless Snap & Light Connectors.

Applications: Office Spaces with Human Centric Lighting, Hotels, Casinos, Retail, Office Space, Conference Rooms, Spa, Cove Lighting, Task Lighting, Under Cabinet, Changing Rooms, Wine Cellars, General Human Centric Lighting.

Lamp: The average LED life is 50,000 hours.

SS5C & SS10C											
DESCRIPTION	**TUNABLE WHITE SOFT STRIP**										
WATTS PER FOOT	5W (4.4 watts)						10W (9.6 watts)				
COLOR TEMPERATURE	22K	24K	27K	30K	35K	40K	22K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	109	147.6	184.63	235	208	174.2	278	294	370	589	419.2	353.6
LUMENS PER WATT (lm/w)	48.5	49.2	49.9	51	52	53.6	48	49	50	51.3	52.4	54.4
CRI	90+	90+	90+	90+	90+	90+	90+	90+	90+	90+	90+	90+

*When both the 2000K & 4000K Soft Strips are on at full power, light output equals 3000K

Universal Power Supply Options (Sold Separately)
• PSB-2X40W-UNI-24VDC   120-277VAC input 2x40w Output
• PSB-2X60W-UNI-24VDC   120-277VAC input 2x60w Output
• PSB-2X96W-UNI-24VDC   120-277VAC input 2x96w Output
• PSB-4X96W-UNI-24VDC   120-277VAC input 4x96w Output
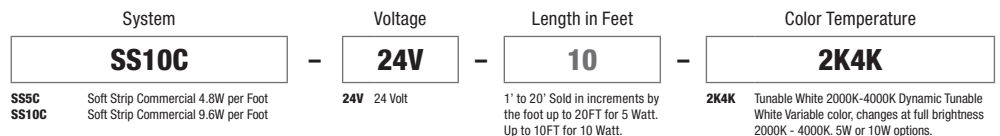
DMX Power Supply Options (Sold Separately)
• PSB-100W-24VDC-2XK 100W output, 120/277V Input (12.2" wide x 6.5" high x 2.2" deep)
• PSB-2X100W-24VDC-2XK 2x100W output, 120/277V Input (14" wide x 10" high x 3" deep)
• PSB-3X100W-24VDC-2XK 3x100W output, 120/277V Input (17" wide x 13" high x 3" deep)
• PSB-4X100W-24VDC-2XK 4x100W output, 120/277V Input (17" wide x 13" high x 3" deep)

Lutron Hi-lume® (sold separately)
• L3D0-96W24V-U, 96W output, 12/277V Input (10.5" wide x 5.5" high x 2" deep)
• LTEA4U1UKL-CV240 5W-40W output, 12/277V Input (4" wide x 4.89" high x 2.62" deep)
• L3DA4U1UKL-CV240 5W-40W output, 12/277V Input (4" wide x 4.89" high x 2.62" deep)

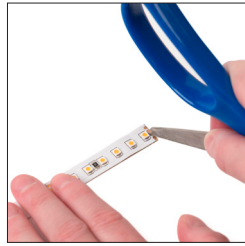**Remote Power Supplies*, Dimmers & Controls (Sold Separately)**
• TRIAC Dimming: Single Pole Dual Dimming with dual remote universal power supplies with Lutron skylark controller (sold separately)
• ELV Dimming: Dual ELV dimming with dual ELV remote power supplies. Two ELV dimmers required (sold separately)
• 0-10V Dimming: Dual 0-10V dimming with dual universal remote power supplies. Two 0-10v dimmers required (sold separately)
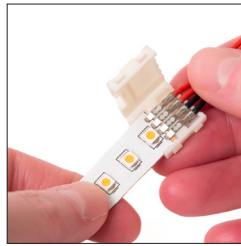• Dynamic Color Changing (DMX)
• Lutron Hi-lume

System		Voltage		Length in Feet		Color Temperature
SS10C	–	**24V**	–	**10**	–	**2K4K**

SS5C	Soft Strip Commercial 4.8W per Foot		
SS10C	Soft Strip Commercial 9.6W per Foot		

24V 24 Volt

10 1' to 20' Sold in increments by the foot up to 20FT for 5 Watt. Up to 10FT for 10 Watt.

2K4K Tunable White 2000K-4000K Dynamic Tunable White Variable color, changes at full brightness 2000K - 4000K. 5W or 10W options.

PROJECT		FIXTURE TYPE		DATE	

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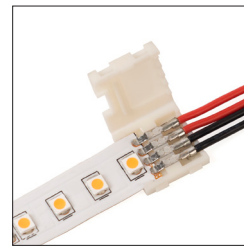For custom design and layout assistance, send drawings to design@PureEdgeLighting.com

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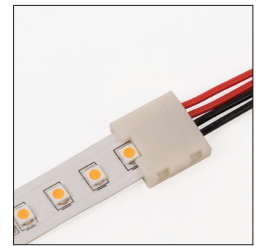Cut in middle of joining contacts

Scrape protective coating from contacts

Place the Strip end under the plastic guide and push under the snap contacts.

Close the cover

Snap the cover to secure in place

Snap & Light Accessories

Snap & Light Accessories provide easy connection of white or RGB Soft Strip sections. The do-it-yourself accessories — without limitations— allow cutting and rejoining of Soft Strip at any point. The accessories attach to the end of Soft Strip, secure the Strip and snap shut to lock it into place. Snap & Light Accessories ensure a tightly sealed connection, while the gold plated pins provide better connectivity without oxidation.

0.63"
(1.6cm)

0.6"
(1.5cm)
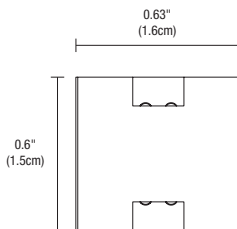
Snap & Light Straight Joiner Connectors

Snap & Light Straight Joiner Connectors join two cut sections of white or RGB Soft Strip end to end.

Product		Type
SS	–	**SLC**
SS Soft Strip		SLC Snap & Light Straight Connector

1.26"
(3.2cm)

1.26"
(3.2cm)
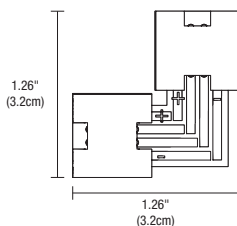
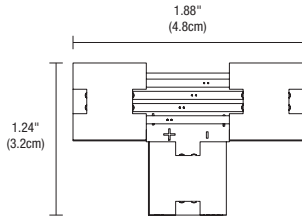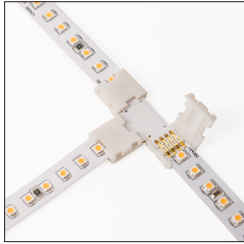## Snap & Light L-Connectors

Snap & Light L-Connectors join and conduct power to two sections of white or RGB Soft Strip in an L-shape.

Product		Type
SS	–	**SLL**
SS Soft Strip		SLL Snap & Light L-Connector

PROJECT		FIXTURE TYPE		DATE	

1.88"
(4.8cm)

1.24"
(3.2cm)

Snap & Light T-Connectors
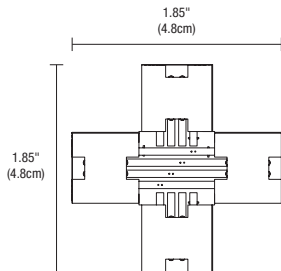Snap & Light T-Connectors join and conduct power to three sections of white or RGB Soft Strip in a T-shape.

Product		Type
SS	–	**SLT**
SS Soft Strip		**SLT** Snap & Light T-Connector

1.85"
(4.8cm)

1.85"
(4.8cm)

Snap & Light X-Connectors
Snap & Light X-Connectors join and conduct power to four sections of of white or RGB Soft Strip in an X-shape.

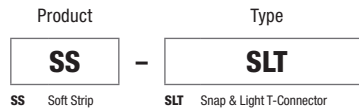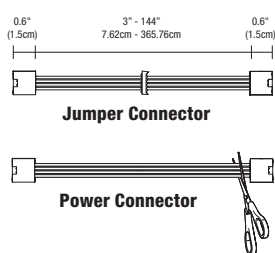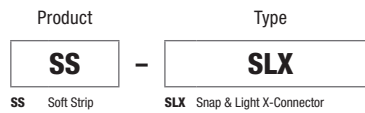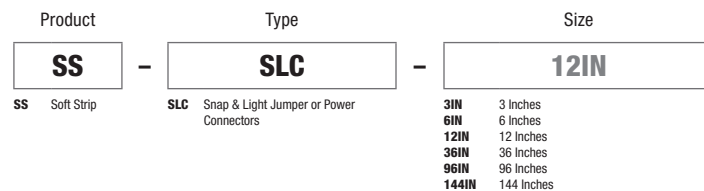| Product		Type
SS	–	**SLX**
SS Soft Strip		**SLX** Snap & Light X-Connector

0.6"
(1.5cm)

3" - 144"
7.62cm - 365.76cm

0.6"
(1.5cm)

Jumper Connector

Power Connector

Snap & Light Jumper or Power Connectors
Snap & Light Jumper or Power Connectors join two cut sections of white or RGB Soft Strip end-to-end. Cut and strip the connector wires to use as a Power Connector.

Product		Type		Size
SS	–	**SLC**	–	**12IN**
SS Soft Strip		**SLC** Snap & Light Jumper or Power Connectors		**3IN** 3 Inches **6IN** 6 Inches **12IN** 12 Inches **36IN** 36 Inches **96IN** 96 Inches **144IN** 144 Inches

PROJECT		FIXTURE TYPE		DATE	

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Top

0.23"
(0.6cm)

0.63"
(1.6cm)

1.16"
(2.9cm)

Profile

1.16"
(2.9cm)

0.63"
(1.6cm)

0.22"
(0.6cm)

0.07"
(0.2cm)

0.48"
(1.2cm)

Soft Strip U Strap
Use U-Strap every 6 to 12 inches for extra support (30 per package).

System		Product	
SS		**SU**	
SS Soft Strip		SU U-Strap	

Top

0.18"
(0.5cm)

0.21"
(0.5cm)

4.07"
(10.3cm)

Top

0.73"
(1.9cm)

0.48"
(1.2cm)

0.08"
(0.2cm)
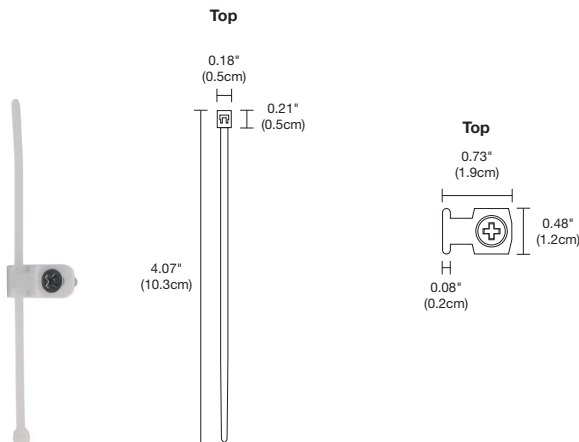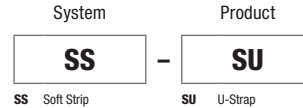
Soft Strip Tie Strap
Use Tie Strap every 6 to 12 inches for extra support (30 per package).

System		Product	
SS		**ST**	
SS Soft Strip		ST Tie Strap	

Top

0.39"
(1cm)

0.52"
(1.3cm)

0.11"
(0.3cm)

Profile

0.47"
(1.2cm)

0.18"
(0.5cm)

0.52"
(1.3cm)

Side

0.39"
(1cm)

0.18"
(0.5cm)
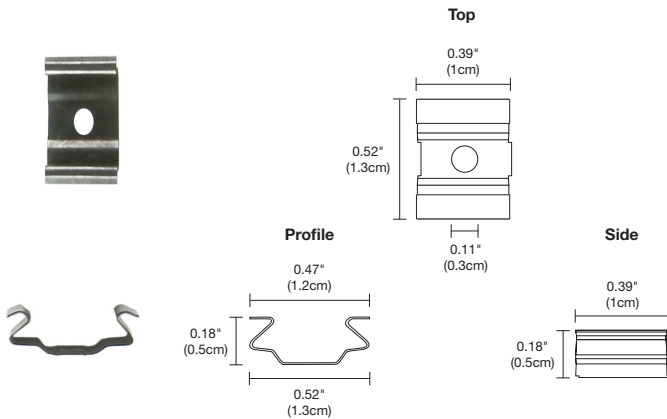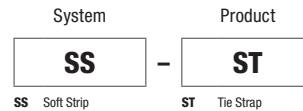
Soft Strip Mounting Clip
Screw In Mounting Clip mounts beneath strip, snapping the Strip into place for additional support (10 per package).
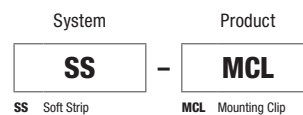
System		Product	
SS		**MCL**	
SS Soft Strip		MCL Mounting Clip	

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

REV. 01.16.20

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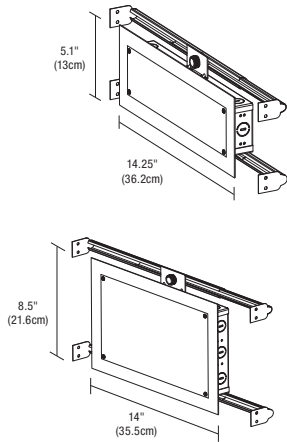
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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V

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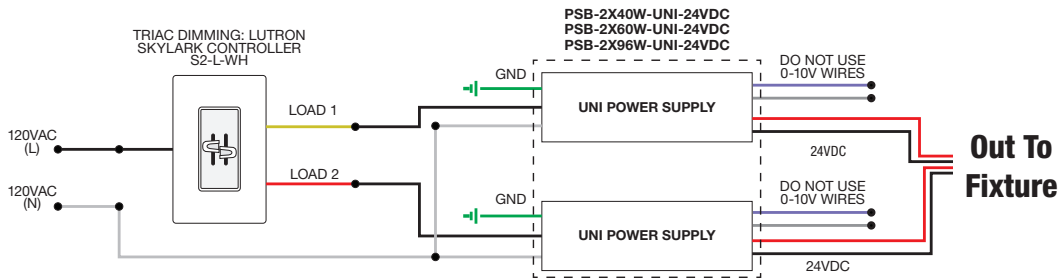
Ordering Codes 5.1 x 14.25 inch: PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

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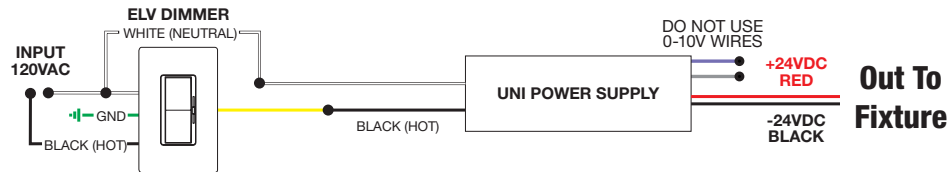
WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

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
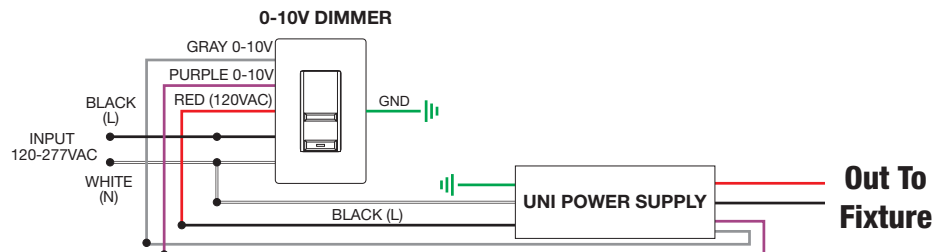
24VDC

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)

INPUT 120VAC

GND

BLACK (HOT)

BLACK (HOT)

UNI POWER SUPPLY

DO NOT USE 0-10V WIRES

+24VDC RED

-24VDC BLACK

Out To Fixture

Application: 0-10V dimming for Static White

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


0-10V DIMMER

GRAY 0-10V

PURPLE 0-10V

BLACK (L)

RED (120VAC)

GND

INPUT 120-277VAC

WHITE (N)

BLACK (L)

UNI POWER SUPPLY

Out To Fixture

PROJECT		FIXTURE TYPE		DATE	

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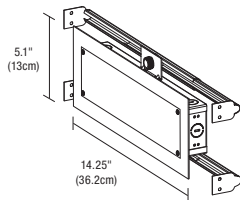
5.1 x 14.25 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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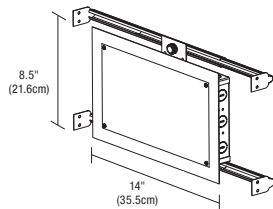
8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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

PROJECT		FIXTURE TYPE		DATE	

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

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

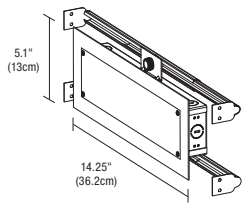| 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS†		
ORDERING CODE	PSB-3X96W-010-24VDC	PSB-4X96W-010-24VDC
SPECIFICATIONS		
MAXIMUM LOAD	3X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC
DIMENSIONS	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2
IN-WALL MOUNTING	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
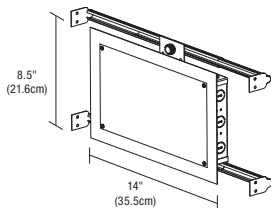
8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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

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

PURE EDGE
LIGHTING

REV. 01.16.20
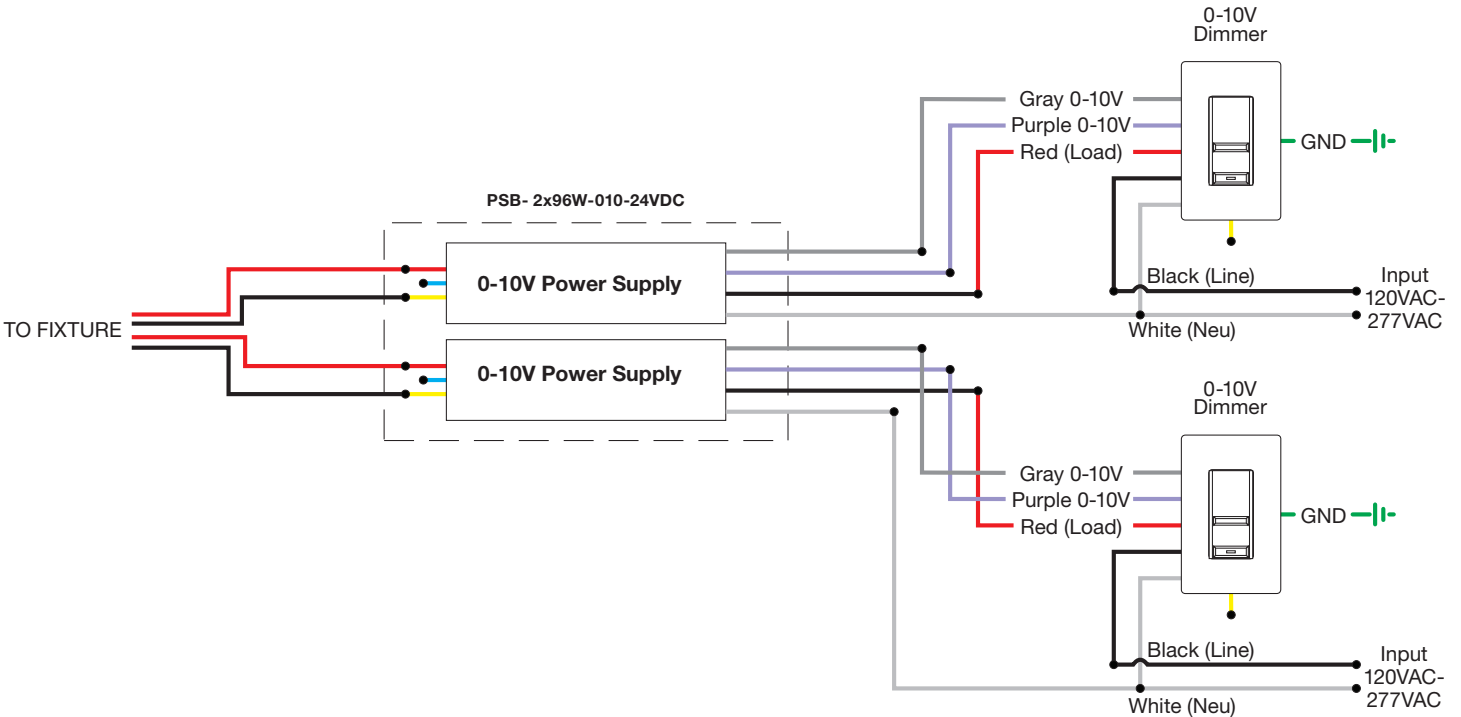
SAMPLE WIRING DIAGRAMS 24VDC 010

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 locater light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)
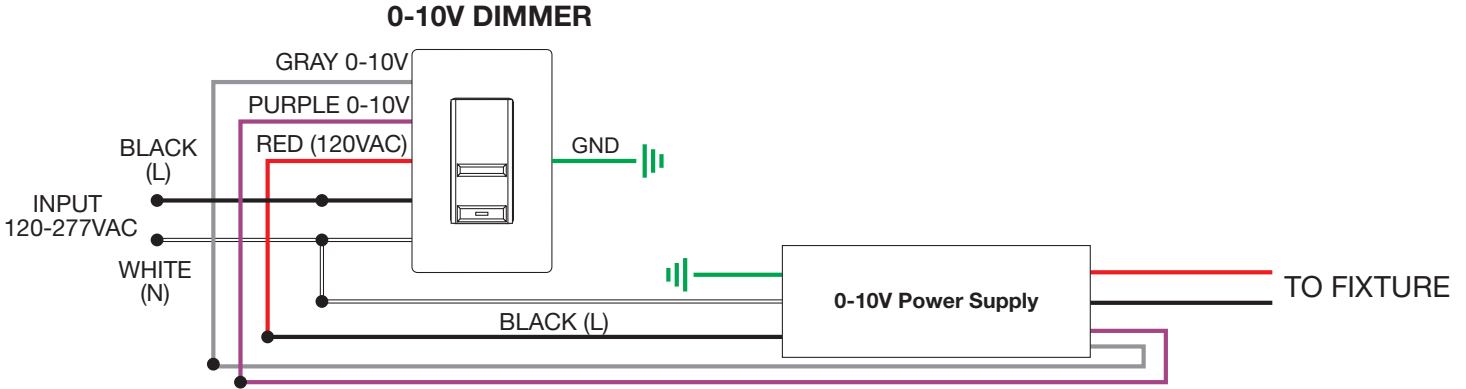
Application: Dual 0-10V dimming for Dynamic/Tunable White 2000K-4000K

Dimming: Dimmable with Dual 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locater 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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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, DYNAMIC/TUNABLE WHITE POWER SUPPLIES WITH DMX DRIVER

PURE EDGE LIGHTING

REV. 01.16.20

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

4.72" (12cm)

2.95" (7.5cm)

S1
S2
S3

3.87" (9.8cm)   4.72" (12cm)

side view jbox
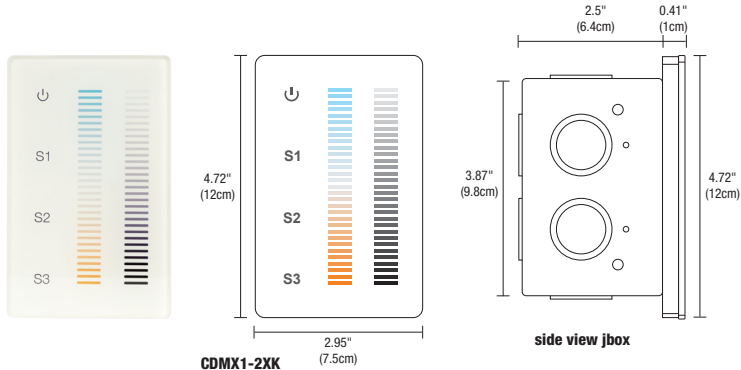
Description:
The Tunable White Touch Controller is a full-touch controller that offers fast and accurate color temperature adjustment and independent brightness dimming of a single zone. Designed for dynamic/tunable white and dual-color LED installations, this controller adjusts color temperature and 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.

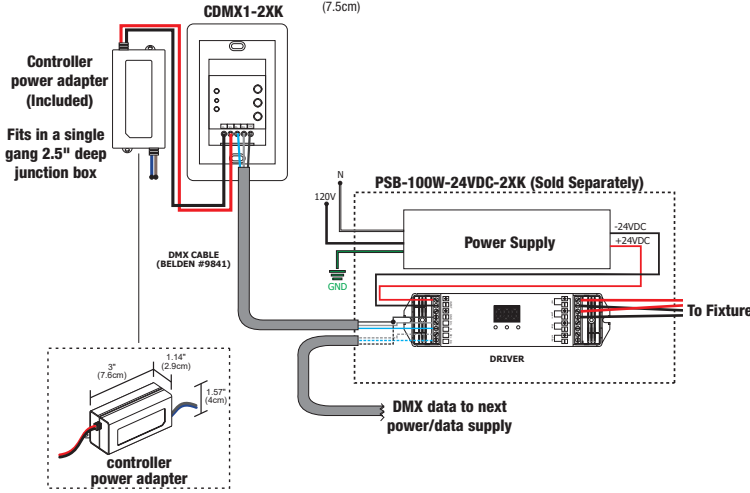### Applications:
Indoor

Power Input:
120-240VAC

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

Output Signal:
USITT DMX 512 (1990)

CDMX1-2XK

Controller power adapter (Included)

Fits in a single gang 2.5" deep junction box

DMX CABLE (BELDEN #9841)

1.14" (2.9cm)
3" (7.6cm)
1.57" (4cm)

controller power adapter

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

120V   N

Power Supply

-24VDC
+24VDC

GND

To Fixture

DRIVER

DMX data to next power/data supply

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†

	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
ORDERING CODE				
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
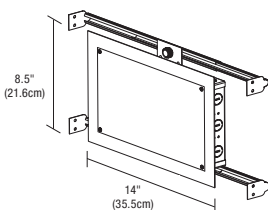
8.5" (21.6cm)
14" (35.5cm)

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, 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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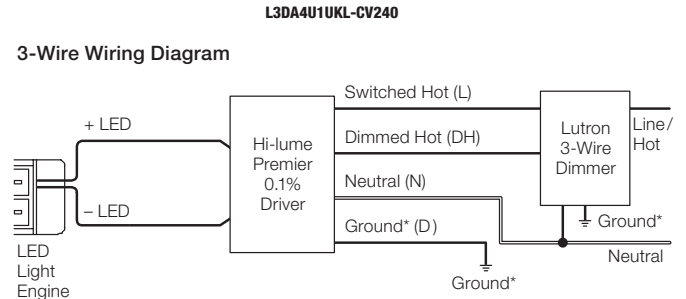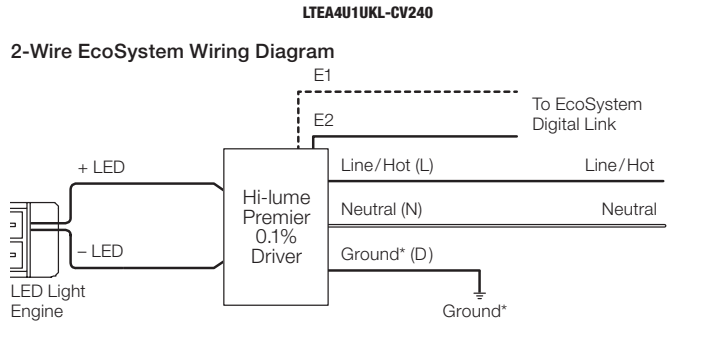
TM-30-15 DATA: Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

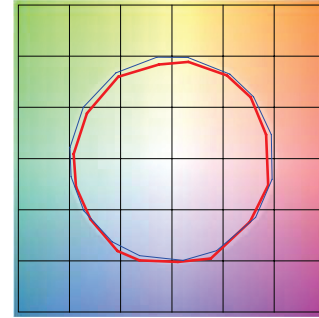**2000K only (2K4K)** | Rf: 91.6 | Rg: 100.1

COLOR VECTOR GRAPHIC
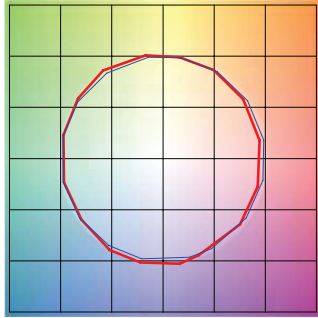
■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.2	-4.5%	0.7%
2	90.2	-3.1%	3.8%
3	91.1	-1.0%	4.2%
4	95.0	-0.3%	1.4%
5	95.1	1.5%	2.3%
6	93.5	3.2%	1.5%
7	94.6	0.8%	-3.1%
8	96.5	-0.7%	-0.4%
9	95.9	-1.0%	1.1%
10	93.8	-0.7%	3.1%
11	92.0	3.2%	3.4%
12	91.6	3.9%	-0.4%
13	88.1	4.2%	-11.0%
14	71.4	-1.9%	-14.4%
15	86.4	-2.0%	-8.8%
16	86.2	-4.3%	-7.3%

4000K only (2K4K) | Rf: 87.2 | Rg: 94.9

COLOR VECTOR GRAPHIC

■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.6	-5.6%	1.1%
2	91.5	-2.9%	1.5%
3	91.8	-2.8%	1.9%
4	90.1	-4.3%	-1.1%
5	88.6	-7.4%	-0.6%
6	92.2	-4.7%	0.2%
7	88.0	-6.7%	2.9%
8	86.9	-4.9%	5.4%
9	83.3	-3.0%	10.8%
10	80.6	-1.1%	11.0%
11	83.5	4.5%	9.3%
12	89.7	4.4%	0.4%
13	91.0	0.5%	-5.6%
14	85.7	3.1%	-9.4%
15	84.4	-2.4%	-7.1%
16	83.2	-3.1%	-6.8%

2K4K (3000K) | Rf: 91.9 | Rg: 99.6

COLOR VECTOR GRAPHIC
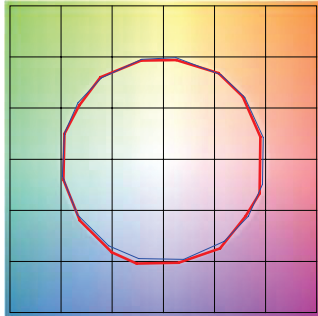
■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.1	-3.2%	1.1%
2	94.0	-1.7%	1.8%
3	93.0	-0.3%	2.9%
4	93.4	-2.5%	-0.7%
5	94.8	-1.4%	1.0%
6	96.3	0.6%	0.1%
7	92.3	-3.0%	1.2%
8	97.3	-0.6%	0.9%
9	92.3	-0.6%	4.3%
10	88.9	1.0%	6.5%
11	89.2	3.6%	6.5%
12	89.8	5.2%	-0.8%
13	90.9	2.1%	-5.9%
14	88.3	3.3%	-7.8%
15	92.0	-2.4%	-2.0%
16	86.1	-1.4%	-9.5%

PROJECT		FIXTURE TYPE		DATE	

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