TIE STIX 2-LIGHT WALL INDIRECT DYNAMIC/TUNABLE WHITE
WITH REMOTE 24VDC POWER SUPPLY, HUMAN CENTRIC LIGHTING

DESIGNED BY GREGORY KAY | MADE IN AMERICA

PURE EDGE LIGHTING

REV 01.31.20

Chrome Hardware and Walnut Finish

DESCRIPTION

The Tie Stix wall 2-light Indirect fixture features an indirect light that illuminates at a 100 degree beam spread. Dynamic Tunable White LED technology offers the latest advancements in lighting technology. The Variable White Dynamic Tunable option offers full range dimming at full brightness from 2000K (Sunset) to 4000K (Cool White) color temperatures. Nominal sizes range from 15 to 70 inches, with a variety of mounting options.

ELECTRICAL:

Power Supply Options:	2xUNIVERSAL Remote Power Supply (dims Triac, ELV or 0-10V), Lutron Hi-Lume®, DALI, or DMX (Ordered Separately)
Input Voltage:	120VAC-277VAC
Output Voltage:	24VDC Class 2 wiring
Power Consumed:	5 Watts per foot
LEDs per Foot:	35 at 2000K, 35 at 4000K, TOTAL = 70
Average LED life:	60,000 hrs @ normal usage

DIMMING

ELV, 010, Triac, DMX, Lutron Hi-Lume®
(Not Included)

APPROVALS

Class 2 Wiring up to 100 watts, Damp Location Suitable, ADA and ETL listed. Title 24, Assembled in America

PHYSICAL ATTRIBUTES:

Mounting Options:	Mounts Horizontal or Vertical
	4SQ: Canopy Mounts to standard 4" electrical box with round plaster plate.
	2RE: Canopy Mounts to standard 4" electrical box with single gang plaster ring or single gang electrical box.
	1RE: Canopy Mounts to Slim Profile junction box (included) recommended for new construction applications.
Ordering Increments:	See ordering code for nominal and exact sizes.
Max length:	70 inches, custom available
Material:	Real hardwood channels maple, walnut, cherry, white oak, and espresso. Aluminum channels and hardware are made from high grade aluminum and finishes.
Compliance:	ADA, Damp Rated, ETL listed, Class 2 wiring, Title 24
Warranty:	PureEdge's 5 Year PRO-RATED Warranty is backed by over 30 years of precision lighting manufacturing and design.

APPLICATIONS

Hospitality, Hotels, Retail, Flagship Stores, High Rises, Condo Buildings, Residential Vanity or Wall

System	Wattage Per Foot	Canopy	Length in Inches Nominal Size			Color Temperature	Canopy & Hardware Finish	Channel Finish
TXW2NR	**5W**	**4SQ**	**70**			**2K4K**	**S**	**WM**

| TXW2NR Tie Stix Wall 2-Light, Remote Power Supply (Order Separately pgs 4-7) | 5W 5 Watts | 4SQ 4.6" Square
1RE 1" Rectangle with Junction Box
2RE 2" x 4" Rectangle | | | | 2K4K 2K4K Dynamic/Tunable White | S Satin Nickel
C Chrome
Z Antique Bronze
B Satin Black
W White | WM Wood Maple
WN Wood Walnut
WC Wood Cherry
WO Wood White Oak
WE Wood Espresso
BK Satin Black
BZ Antique Bronze
CH Chrome
SN Satin Nickel
WH White
SB Satin Brass |

NOMINAL LIGHT LENGTH	EXACT LENGTH WOOD FINISH	EXACT LENGTH METAL FINISH
15	16.5	16.1
18	19.5	19.1
21	22.5	22.1
27	28.5	28.1
33	34.5	34.1
45	46.5	46.1
57	58.5	58.1
70	70.5	70.1

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
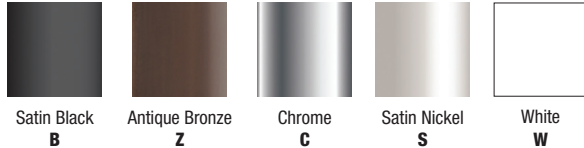
1

TIE STIX 2-LIGHT WALL INDIRECT
24VDC LED HORIZONTAL WITH POWER - WARM DIM LED TECHNOLOGY

Nominal Lamp Data: Lamp data for the Twiggy Vanity

	TXW2NR					
DESCRIPTION	TIE STIX - TUNABLE WHITE					
COLOR TEMPERATURE	20K	24K	27K	30K	35K	40K
WATTS	2.5	3.7	4.6	4	3.3	2.6
LUMENS PER FOOT (lm/ft)	154	188	236	209	178	145
LUMENS PER WATT (lm/w)	48	50	51.3	52.4	54.4	56.4
CRI	85+	90+	95+	95+	84	84

CANOPY & HARDWARE FINISHES:

Satin Black **B**	Antique Bronze **Z**	Chrome **C**	Satin Nickel **S**	White **W**

CHANNEL FINISHES:

Wood Maple **WM**	Wood Walnut **WN**	Wood Cherry **WC**	Wood White Oak **WO**	Wood Espresso **WE**

Wood finishes are authentic natural products, exact color and grain may vary. If trying to match existing product original product must be returned to PureEdge to ensure the closest possible match.

Satin Nickel **SN**	Chrome **CH**	Antique Bronze **BZ**	Satin Brass **SB**	Satin Black **BK**	White **WH**

WOOD CHANNEL FINISHES

4SQ Canopy with White Oak Wood and Satin Black Hardware

4SQ Canopy with Walnut Wood and Chrome Hardware

4SQ Canopy with Cherry Wood and Chrome Hardware

4SQ Canopy with Espresso Wood and Chrome Hardware

4SQ Canopy with Maple Wood and Antique Bronze Hardware

METAL CHANNEL FINISHES

4SQ Canopy with Satin Black Channel and Satin Black Hardware

4SQ Canopy with Chrome Channel and Satin Black Hardware

4SQ Canopy with Satin Brass Channel and Satin Black Hardware

4SQ Canopy with Chrome Channel and Chrome Hardware

4SQ Canopy with Satin Nickel Channel and Satin Nickel Hardware

4SQ Canopy with Satin Black Channel and White Hardware

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to design@PureEdgeLighting.com
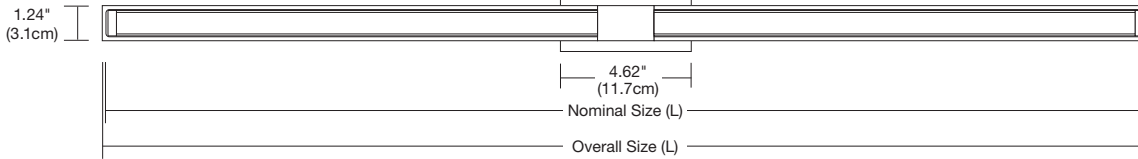
2

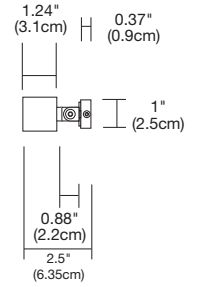# TIE STIX 2-LIGHT WALL INDIRECT DYNAMIC/TUNABLE WHITE
WITH REMOTE 24VDC POWER SUPPLY, HUMAN CENTRIC LIGHTING
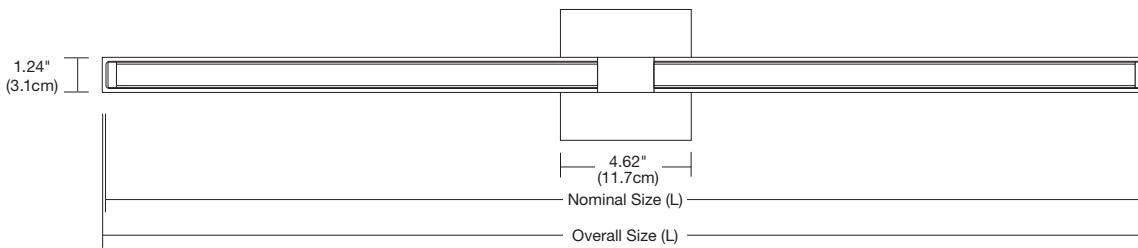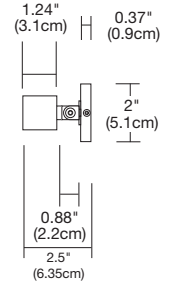
DESIGNED BY GREGORY KAY | MADE IN AMERICA

REV 01.31.20

PURE EDGE LIGHTING
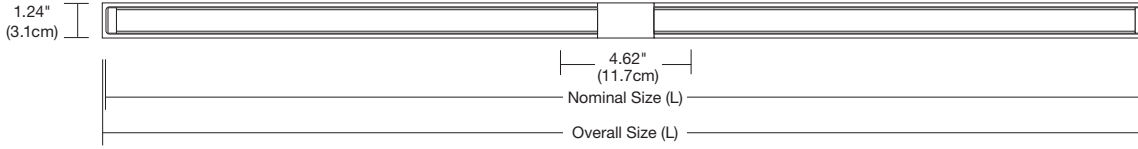
1RE

2RE

4SQ
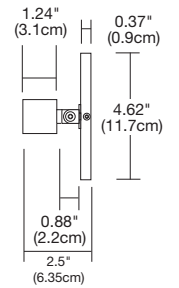
Length Chart: Please refer to chart below for overall length of Tie Stix 2-Light Wall Indirect

Nominal Light Length (Inches)	Exact Length Wood Finish (Inches)	Exact Length Metal Finish (Inches)	Total Wattage (at 5 Watt per ft)	Minimum Power Supply (at 5 watts per ft)
15	16.5	16.1	7	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
18	19.5	19.1	8	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
21	22.5	22.1	9	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
27	28.5	28.1	12	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
33	34.5	34.1	14	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
45	46.5	46.1	19	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
57	58.5	58.1	24	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK
70	70.5	70.1	29	PSB-2x40w-UNI-24VDC or PSB-100W-24VDC-2XK

PROJECT		FIXTURE TYPE		DATE	

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

3

UNI INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC UNIVERSAL DIMMING WITH ELV, 0-10V, TRIAC | DYNAMIC TUNABLE WHITE TECHNOLOGY

PURE EDGE LIGHTING

REV. 01.31.20

UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS†				
ORDERING CODE	**PSB-2X40W-UNI-24VDC**	**PSB-2X60W-UNI-24VDC**	**PSB-2X96W-UNI-24VDC-IW**	**PSB-4X96W-UNI-24VDC**
SPECIFICATIONS				
MAXIMUM LOAD	2X40W	2X60W	2X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.15" X 6.48" X 2.18"	12.15" X 6.48" X 2.18"	12.15" X 6.48" X 2.18"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-2X40W-UNI-24VDC-IW	PSB-2X60W-UNI-24VDC-IW	PSB-2X96W-UNI-24VDC-IW	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 DVLV-600P-WH	•	•	•	•
LUTRON DVLV-603P-WH	•	•	•	•
LUTRON MALV-600-WH	•	•	•	•
LUTRON MALV-1000-WH	•	•	•	•
LUTRON 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.

IN WALL MOUNTING OPTIONS

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

PROJECT		FIXTURE TYPE		DATE	

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

4

UNI INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC UNIVERSAL DIMMING WITH ELV, 0-10V, TRIAC | DYNAMIC TUNABLE WHITE TECHNOLOGY

PURE EDGE
LIGHTING

WIRING DIAGRAMS

TRIAC Dimming: Single pole 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)
Power Supply: Remote, Class 2, 24VDC output: 120VAC input | Configuration 1: PSB-2x96W-UNI-24VDC with Remote Power Supply with Lutron Skylark Controller | Configuration 2: PSB-2x60W-UNI-24VDC with Dual ELV Dimmers | Configuration 3: PSB-2x96W-UNI-24VDC with Dual 0-10V Dimming
Dimming : Dimmable with Dual ELV Dimmers, Dual 0-10V Dimmers, Single Pole DMX, Single Pole TRIAC.
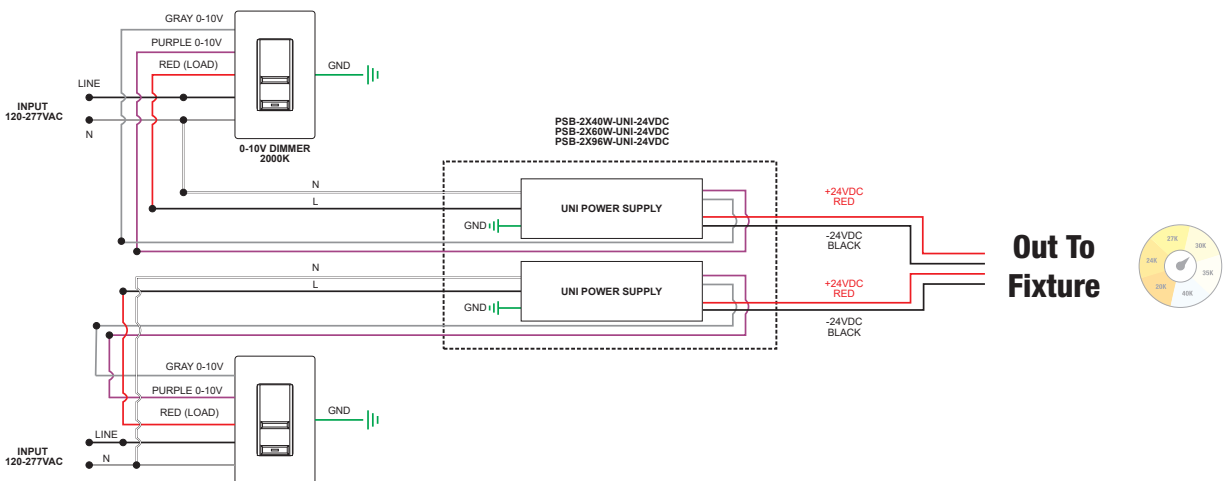
Configuration 1
S2-L-WH (TRIAC) Single Pole Dimming with Dual Universal Power Supplies
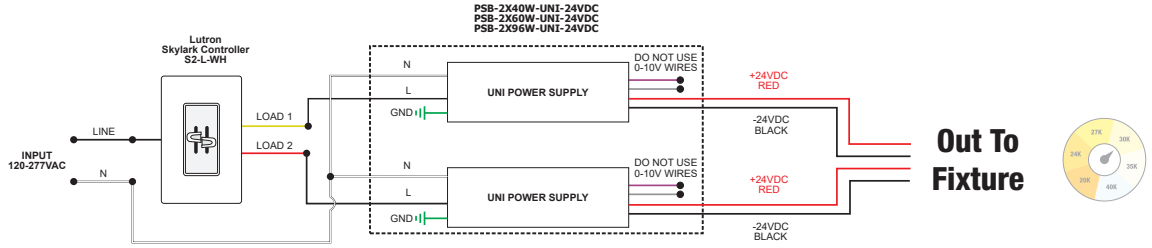
Configuration 2
Dual Universal Power Supplies controlled via individual ELV Dimmers
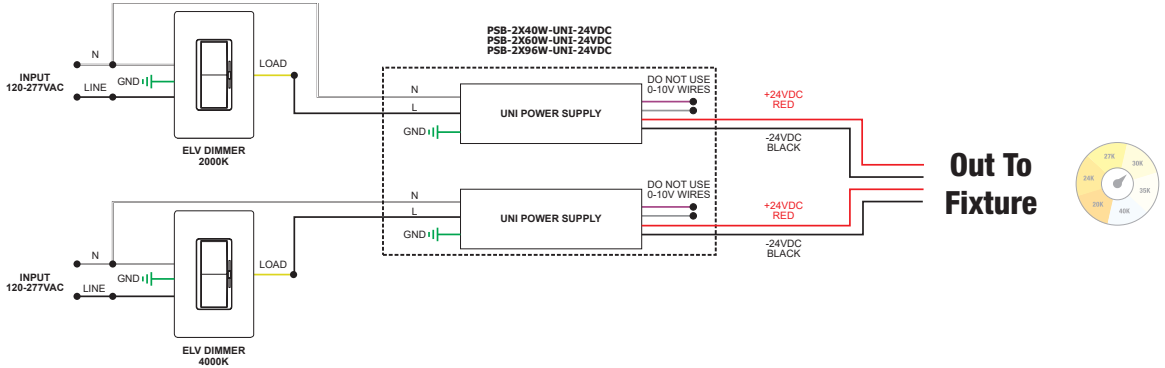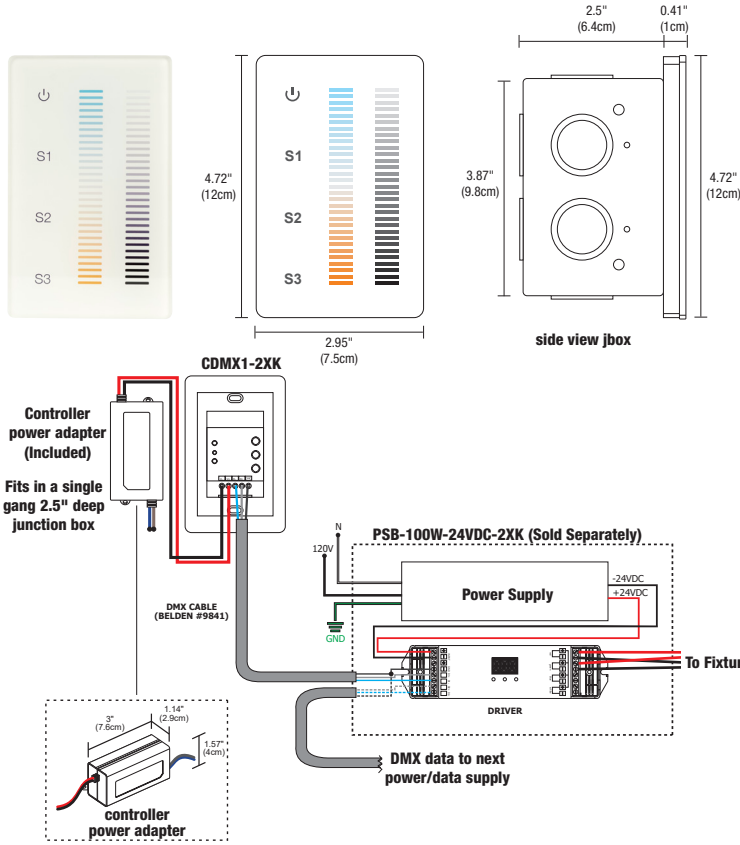

Configuration 3
Dual Universal Power Supplies controlled via individual 0-10V Dimmers

PROJECT		FIXTURE TYPE		DATE	

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

5

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

PURE EDGE
LIGHTING

REV. 01.31.20

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

Power Supply
-24VDC
+24VDC

GND

DRIVER

To Fixture

DMX data to next power/data supply

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

Applications:
Indoor

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

Power Input:
120-240VAC

Output Signal:
USITT DMX 512 (1990)

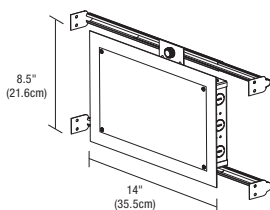| Product	Type	Finish
CDMX1	**2XK**	**WH**
CDMX1 — DMX Single Zone Touch Controller	2XK — 2 X Kelvin	WH — White

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

ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
SPECIFICATIONS				
MAXIMUM LOAD	100W	2X100W	3X100W	4X100W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 6.48" X 2.18"	14" X 10" X 3"	17" X 10" X 3"	17" X 10" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-100W-24VDC-2XK-IW	NA	NA	NA
DMX DYNAMIC/TUNABLE WHITE DIMMING & CONTROLS				
TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)	•	•	•	•

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

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

IN WALL MOUNTING OPTIONS
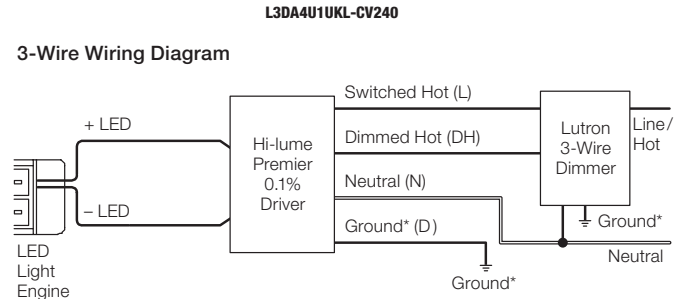
8.5" (21.6cm)

14" (35.5cm)

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

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

PROJECT		FIXTURE TYPE		DATE	

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

6

INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, LUTRON ECOSYSTEM

PURE EDGE LIGHTING

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

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

LTEA4U1UKL-CV240

2-Wire EcoSystem Wiring Diagram

L3DA4U1UKL-CV240

3-Wire Wiring Diagram

PROJECT		FIXTURE TYPE		DATE	

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

7
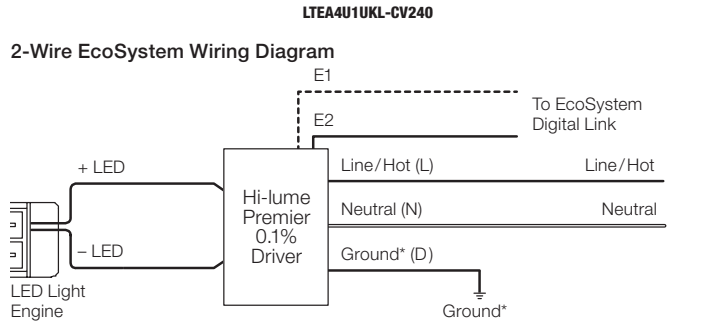
VANITY TM30 DATA
24VDC LED HORIZONTAL WITH POWER - WARM DIM LED TECHNOLOGY

TM-30-15 DATA

The data below is for SS5C 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.

2000K ONLY (2K4K) | Rf: 84.3 | Rg: 96.9
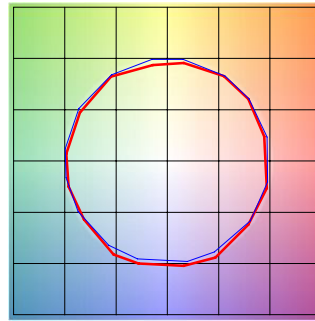Color Vector Graphic
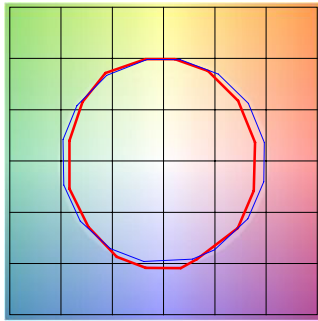
Test · Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	80.3	-8.9%	1.7%
2	79.7	-7.0%	7.8%
3	78.9	-2.9%	10.0%
4	89.5	-0.5%	5.1%
5	94.4	0.7%	1.7%
6	92.1	2.4%	-0.3%
7	89.4	-2.4%	-5.9%
8	89.7	-6.4%	-0.2%
9	86.0	-4.9%	4.6%
10	81.8	-3.4%	9.3%
11	83.1	3.3%	9.7%
12	85.8	5.6%	3.3%
13	85.6	6.2%	-12.8%
14	61.7	-1.9%	-19.0%
15	79.7	-3.3%	-12.9%
16	78.1	-7.9%	-10.6%

4000K ONLY (2K4K) | Rf: 89.6 | Rg: 99.1
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	-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%

2K4K (3000K) | Rf: 90.2 | Rg: 101.4
Color Vector Graphic
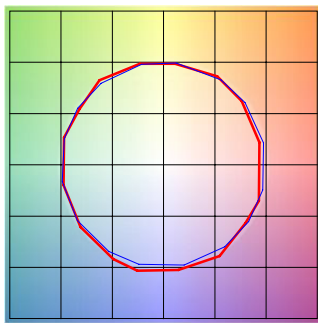
Test · Reference

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%	-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%

PROJECT		FIXTURE TYPE		DATE	

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

8