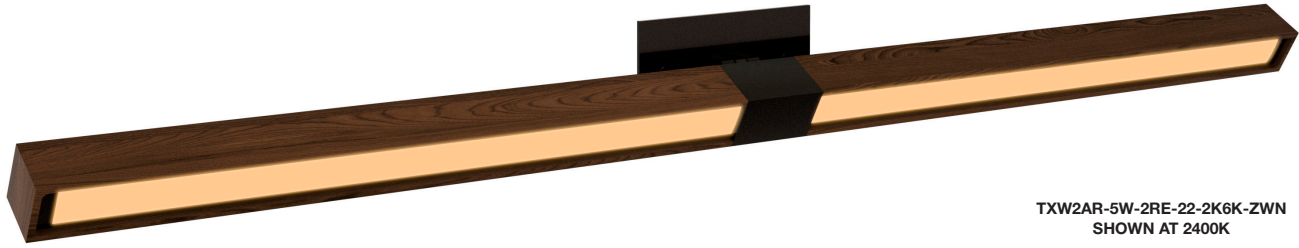# TIE STIX WALL 2-LIGHT DYNAMIC/TUNABLE WHITE
ADJUSTABLE REMOTE 24VDC POWER SUPPLY, HUMAN CENTRIC LIGHTING

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 05.26.21

PURE EDGE
LIGHTING

TXW2AR-5W-2RE-22-2K6K-ZWN
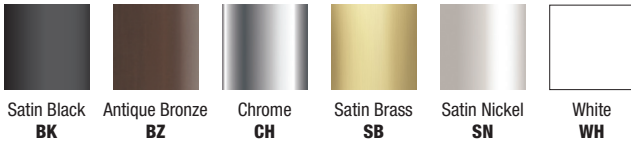SHOWN AT 2400K

DESCRIPTION

The Tie Stix Wall 2-Light Adjustable fixture features an opaque flat lens that illuminates smooth dot-free LEDs with a 100° beam spread. Channel is available in a variety of Real Hard Wood and Metal Finishes. 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 6500K (Day Light White) color temperatures or 2700k-6500k (27K6). Sizes range from 12 to 46 inches with a variety of mounting options (see below). Title 24 Compliant.

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

- 24VDC, Class 2 wiring
- 0-10V: Requires two dimmers, one for intensity and one for kelvin color temperature
- DMX: Dynamic Color Changing use our proprietary Tunable White Controller CDMX-2XK

  * In-Wall Mounting and drop ceiling Kits available for select power supplies

METAL CHANNEL FINISHES

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

WOOD 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 you are trying to match an existing material, please contact us for a finish sample. We are able to accommodate some requests to pair our wood finishes with COM.

CANOPY AND HARDWARE FINISHES

Satin Black BK	Antique Bronze BZ	Chrome CH	Satin Nickel SN	White WH
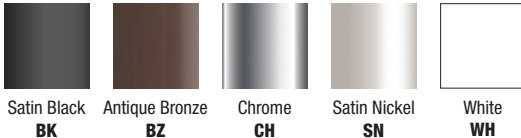
LUMEN PERFORMANCE

@3000K, 4.8W per Foot

Lumen Output:	287 Lm/Ft
Efficiency:	72 lm/watt
CRI:	93+
Beam Angle:	100°

PHYSICAL ATTRIBUTES

Mounting Options:	**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) recommend for new construction application.
Material:	Real Hardwood NOT LAMINATE, NOT MDF. High Grade Aluminum. LED Soft Strip Tape Light.
Compliance:	ADA, Damp Rated, ETL listed, Class 2 wiring, Title 24
Warranty:	5 Year Pro-Rated Warranty

APPLICATIONS

Commercial: Hospitality, Office Buildings/Spaces, Conference Spaces, Commercial Real Estate, Hallway lighting, Health Care, Human Centric Lighting
Residential: Foyer, Home Office, Media Room, Game Rooms, Human Centric Variable White Dynamic LED

APPROVALS

Class 2 Wiring up to 100 watts, Damp Location Suitable, ETL listed. Title 24 with select power supplies, Made in America.

System	Wattage	Canopy	Nominal Size (L) In Inches	Color Temperature	Canopy and Hardware Finish	Channel Finish	
TXW2AR	**5W**	**4SQ**	**12**	**2K6K**	**S**	**WM**	
TXW2AR Tie Stix Wall 2-Light, Remote Power Supply (Order Separately pgs 4-6)	5W 5 Watt	1RE 1" Rectangle with Junction Box	12 13.2"	2K6K Tunable White 2000K-6500K	S Satin Nickel	BK Satin Black	WM Wood Maple
		2RE 2" x 4" Rectangle	15 15.6"	27K6 Tunable White 2700K-6500K	C Chrome	BZ Antique Bronze	WN Wood Walnut
		4SQ 4.6" Square	17 18.0"		Z Antique Bronze	CH Chrome	WC Wood Cherry
			22 22.8"		B Satin Black	SN Satin Nickel	WO Wood White Oak
			29 30.6"		W White	WH White	WE Wood Espresso
			34 34.8"			SB Satin Brass	
			46 46.8"				

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

REV 05.26.21

Nominal Lamp Data: Lamp data for the Tie Stix 2-Light Adjustable

	TXW2AR														
WATTS PER FOOT	**2K6K**									**27K6**						
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	223	234	246	257	281	292	304	289	280	279	287	295	304	292	289	280
LUMENS PER WATT (lm/w)	56	51	53	56	61	64	76	72	71	70	72	72	71	71	72	71
CRI	83+	83+	92+	92+	92+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+
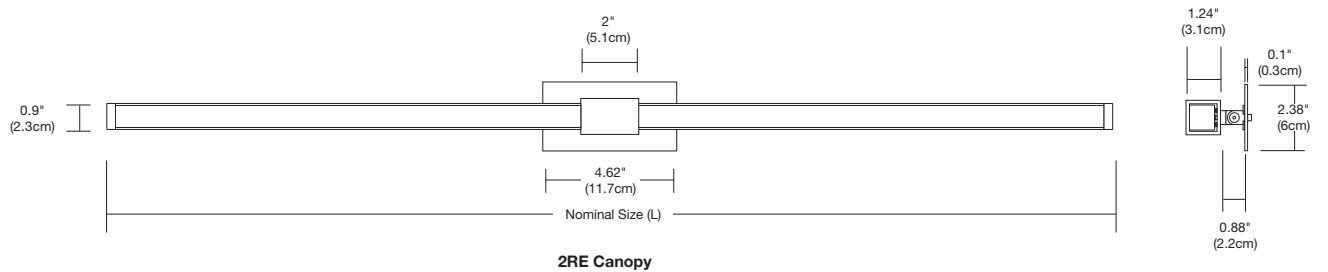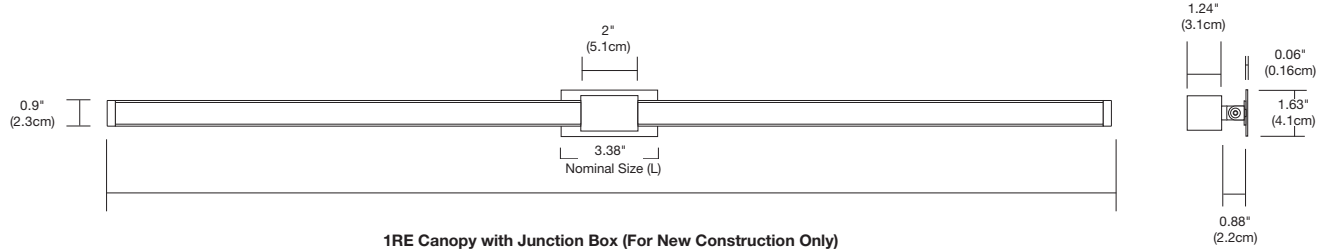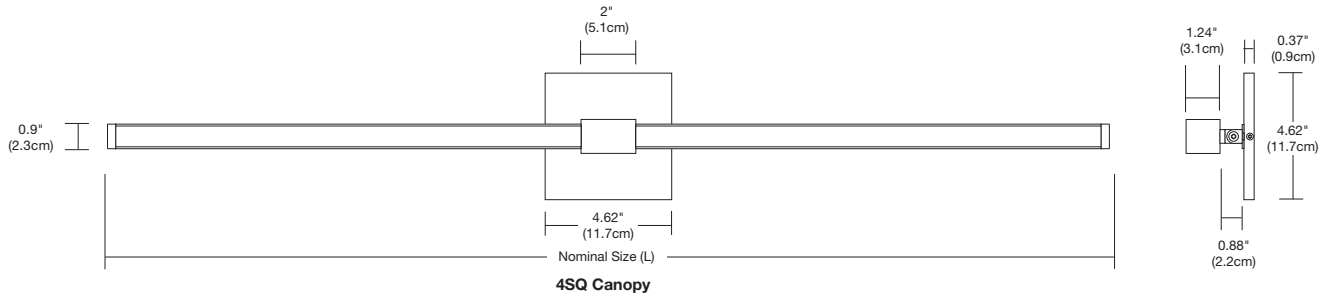
4SQ Canopy

1RE Canopy with Junction Box (For New Construction Only)

2RE Canopy

PROJECT		FIXTURE TYPE		DATE	

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2

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

PURE EDGE
LIGHTING

WOOD CHANNEL FINISHES

TXW2A-5W-1RE-22-27K-SWN

TXW2A-5W-1RE-22-27K-ZWC

TXW2A-5W-1RE-22-27K-ZWM

TXW2A-5W-1RE-22-27K-ZWN

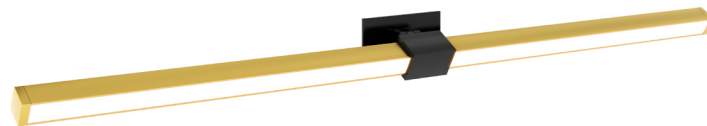TXW2A-5W-2RE-22-27K-ZWN

TXW2A-5W-4SQ-22-27K-ZWC

TXW2A-5W-4SQ-22-27K-SWM

TXW2A-5W-4SQ-22-27K-SWN

METAL CHANNEL FINISHES

TXW2A-5W-1RE-22-27K-BSB

TXW2A-5W-1RE-22-27K-BWH

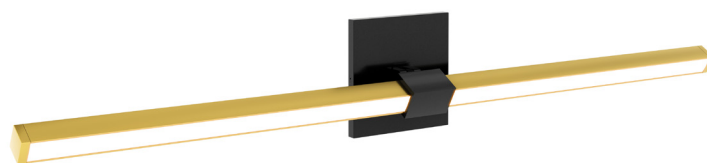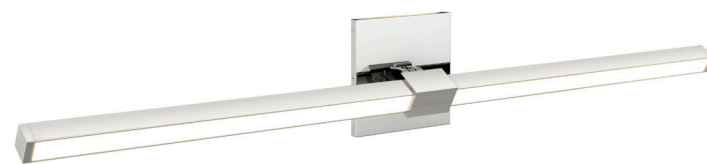TXW2A-5W-1RE-22-27K-WBZ
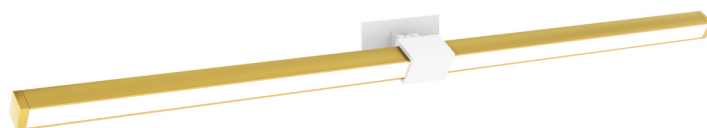
TXW2A-5W-1RE-22-27K-WSB

TXW2A-5W-2RE-22-27K-BBK

TXW2A-5W-4SQ-22-27K-BSB

TXW2A-5W-4SQ-22-27K-CBK

TXW2A-5W-4SQ-22-27K-CCH

PROJECT		FIXTURE TYPE		DATE	

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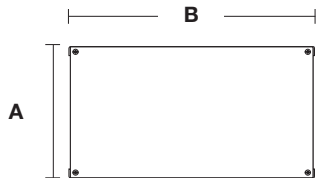
3

INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY
24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE
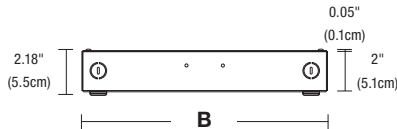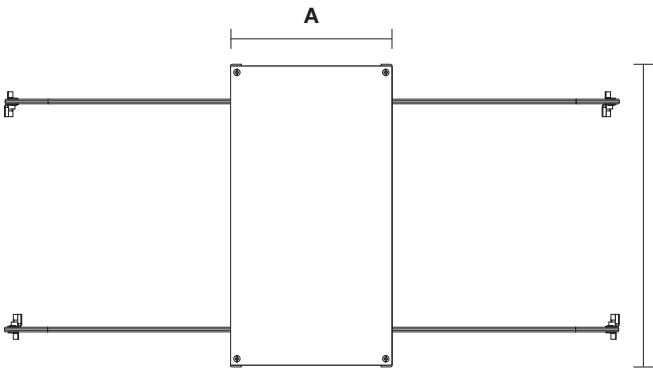
DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE LIGHTING

PSB-96W-010-24VDC-2XK

B

A

TOP VIEW

0.05"
(0.1cm)

2.18"
(5.5cm)

2"
(5.1cm)

B

SIDE VIEW

A

B

PSB-96W-010-24VDC-2XK-TB
(T-BAR GRID CEILING)

DESCRIPTION
Accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. The low voltage output dims down to 1% when two additional wires are connected to a 0-10V dimmer. The enclosure provides a space inside for electrical connections. In-Wall Power Supply Kit includes power supply, box cover and stud hangers. T-Bar Mounting Kit includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors. Power Supply features short circuit, overload and over temperature protection.

APPLICATIONS
Indoor, Damp Location

MOUNTING
Surface mounted with conduit access

POWER INPUT
120-277VAC

POWER OUTPUT
Class 2; 24 volts DC 4A, up to 96 watts maximum

EFFICIENCY
90%

AMBIENT OPERATING TEMPERATURE
-25° C to 40° C

DIMMING
#1 Controls the intensity. #2 Controls the Color Temperature.
0-10V (dimmer needs to be capable to dim to 0% without ON/OFF switch)

DIMMING CURVE
Linear, Logarithmic 100% - 0% (HydraDrive)

COMPLIANCE
Made in the USA, UL, CE, Title 28, Plenum for use in Accordance with UL 2043. JA8 compliant when used with Pure Edge Tunable White Products.

	Product		Wattage		Dimming		Voltage		Color Temperature		Options
	PSB		**96W**		**010**		**24VDC**		**2XK**		STANDARD (Leave Blank)
PSB	Power Supply with Enclosure Box with Tunable White 0-10V Controller	**96W**	96 Watts	**010**	0-10 Volt Dimming	**24VDC**	24 Volt DC	**2XK**	Tunable White	**TB**	T-Bar Grid Ceiling
		2X96W	2x96 Watts							**IW***	In-Wall Kit
		3X96W	3x96 Watts								
		4X96W	4x96 Watts							*96 watts only	

STANDARD & T-BAR DIMENSIONS
	A	B
PSB-96W-010-24VDC-2XK	6.48"	12.15"
PSB-2X96W-010-24VDC-2XK	10"	14"
PSB-3X96W-010-24VDC-2XK	13"	17"
PSB-4X96W-010-24VDC-2XK	13"	17"

PSB-96W-010-24VDC-2XK-IW

B

A
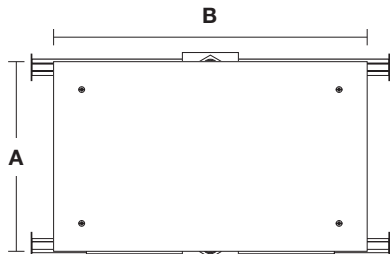
PSB-2X96W-010-24VDC-2XK-IW (IN WALL KIT)

IN-WALL DIMENSIONS
	A	B
PSB-96W-010-24VDC-2XK-IW	8.5"	14.25"

INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY
24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

PURE EDGE
LIGHTING

REV 05.26.21

Application: 0-10V dimming for Tunable White LED Strip/Fixture

TUNABLE WHITE STRIP/ FIXTURE

RED
BLACK
BLACK
RED

WARM+ YELLOW
VIN1+ RED
VIN1- BLACK
WARM- BLUE
COOL- BLUE
VIN2- BLACK
VIN2+ RED
COOL+ YELLOW

Tunable White LED PWM dimming module
Dimming range: 0-100%
0/1-10V control 1, 0/1V =0% light output
10V=100% light output
0/1-10V control2, 0/1V=100% warm
10V=100% cool
PWM Output to LED Modules (8-48V PWM, 1K Hz)

COLOR TEMP — PURPLE +
GRAY -
GRAY -
INTENSITY — PURPLE +

24VDC+
24VDC-

24V POWER SUPPLY

INPUT: 120-277V AC
L
N
GND

PSB-96W-010-24VDC-2XK

0-10V Controller
Control Input 1
(Dimming **Intensity**)

0-10V Controller
Control Input 2
(For **Color Temp**)

T-BAR GRID CEILING

OUTPUT 24VDC WITH 4FT TEFLON CABLES WITH QUICK CONNECTORS

T-BAR GRID HANGER BARS

POWER SUPPLY ENCLOSURE

INPUT LINE VOLTAGE 120-277VAC

MOUNTING CLIP FOR HANGER

PSB-96W-010-24VDC-2XK-TB

IN WALL KIT

LINE VOLTAGE INPUT 120-277VAC

HANGER BARS

DRYWALL

CLASS 2 OUTPUT 24VDC

96W IN-WALL POWER SUPPLY KIT

COVER

2X4 STUD

POWER SUPPLY ENCLOSURE

PSB-96W-010-24VDC-2XK-IW

TUNABLE WHITE DMX CONTROLLER AND POWER SUPPLIES
24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DRIVERS

PURE EDGE LIGHTING

REV 05.26.21

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

4.72" (12cm)

2.95" (7.5cm)

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

Side View JBox

CDMX1-2XK-WH

Controller power adapter (Included)

Fits in a single gang 2.5" deep junction box

120-240VAC

DMX CABLE (BELDEN #9841)

N
120-277V

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

Tunable White Power Supply

-24VDC
+24VDC

GND

DRIVER

To Fixture

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

Controller Power Adapter

DMX data to next power/data supply

DESCRIPTION:
The Tunable White Touch Controller offers fast and accurate Color Temperature adjustment and the ability to regulate the Brightness Independently. The modern Glass faceplate features illuminated indicators, and a back-lit night light that softly illuminates the controller when powered off. Designed for Tunable White, and dual-color LED installations within a single zone. The two Vertical Touch sliders are precise and sensitive, allowing you to fine-tune your perfect Color Temperature at any point between **2000K** (Sunset) to **6500K** (Daylight White) while selecting over 250 levels of Brightness in a smooth, uninterrupted transition. Create Thousands of White Color Combinations while maintaining even Brightness and overall saturation. Easily save three pre-set scenes for different times of the day. Support health, performance, and general well-being using Human-Centric lighting by fine-tuning the biological effects that light has on the circadian cycle using the latest in LED technology. Includes a power adapter that fits behind the controller within a standard junction box and fits inside a standard single-gang receptacle (not for use in a multi-gang box). Use with an insulated, 24 AWG stranded, tinned copper wire (Belden #9841). Power Supplies are Sold Separately. Includes a 5 year pro-rated warranty.

APPLICATIONS:
Indoor

INSTALLATION:
Fits in a single gang 2.5" deep junction box. Not compatible with multi-gang boxes.

POWER INPUT:
120-240VAC

OUTPUT SIGNAL:
USITT DMX 512 (1990)

LABELS:
ROHS, FCC, Damp Location, ETL/UL

Product	Type	Finish
CDMX1	**2XK**	**WH**
CDMX1 DMX Single Zone Touch Controller	2XK Tunable White	WH White

COLOR CHANGING (DMX) POWER SUPPLIES			
ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK

SPECIFICATIONS				
MAXIMUM LOAD OF LED STRIP LENGTH	100W 5 WATTS - 20FT MAX. 10 WATTS - 10FT MAX.	2X100W 5 WATTS 2 X 20FT MAX. 10 WATTS - 2 X 10FT MAX.	3X100W 5 WATTS 3 X 20FT MAX. 10 WATTS - 3 X 10FT MAX.	4X100W 5 WATTS 4 X 20FT MAX. 10 WATTS - 4 X 10FT MAX.
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
T-BAR MOUNTING	PSB-100W-24VDC-2XK-TB	PSB-2X100W-24VDC-2XK-TB	PSB-3X100W-24VDC-2XK-TB	PSB-4X100W-24VDC-2XK-TB
IN-WALL MOUNTING	PSB-100W-24VDC-2XK-IW	NA	NA	NA

| DMX 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

T-BAR Mounting Kit: Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

Ordering Codes:
PSB-100W-24VDC-2XK-TB
PSB-2x100W-24VDC-2XK-TB
PSB-3x100W-24VDC-2XK-TB
PSB-4x100W-24VDC-2XK-TB

8.5" (21.6cm) 14" (35.5cm)
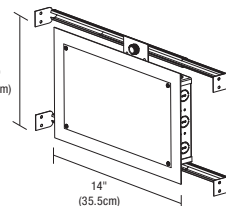
8.5" x 14" In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.
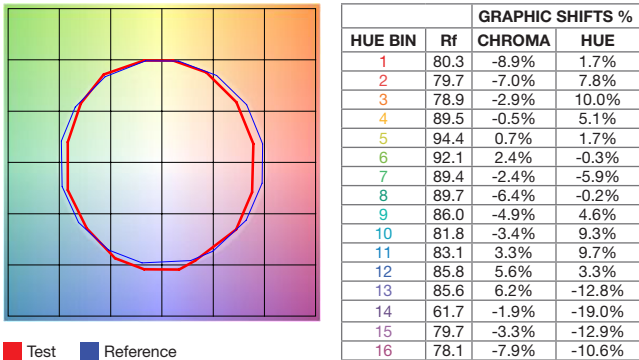
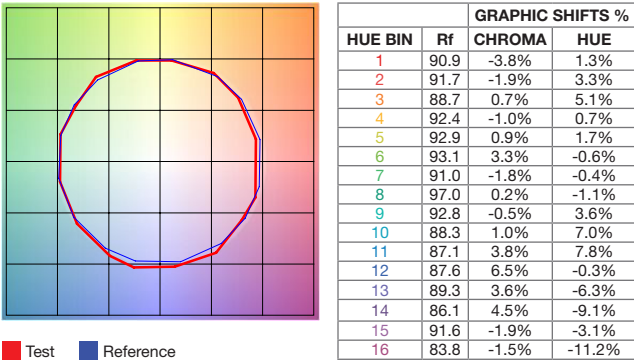**Ordering Codes:**
PSB-100W-24VDC-2XK-IW

WALL/VANITY TM30 DATA
ADJUSTABLE REMOTE 24VDC POWER SUPPLY, HUMAN CENTRIC LIGHTING

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 (2K6K) | 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%

3000K (2K6K) | 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%

4000K ONLY (2K6K) | 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%

PROJECT		FIXTURE TYPE		DATE	