TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.19.23

PURE EDGE
Pure Smart Lighting

Recesses into 5/8" Dry Wall

DESCRIPTION

TruLine Trim 1.6A DIY (Do-It-Yourself), 24VDC LED system that recesses within any flat surface including 5/8" drywall, tile, and millwork, without any stud or joist modification. Our innovative and highly efficient system blends into the architecture with unparalleled ease of installation. Creating complex configurations is simple by using pre-formed components, with the ability to run in vertical, horizontal, and diagonal directions or wrap both inside and outside corners; the compositions are truly endless. The slim extrusions, LED strips, and lenses are field-cuttable and ordered in 1' increments (up to 40' before re-feeding). Multiple runs of channel can be joined together, providing smooth and glare-free general illumination. TruLine Trim 1.6A DIY utilizes dual strips of designer grade color rendering LEDs (95+ CRI), available in a broad range of color temperatures from 2400K-4000K static white, warm dim (**27D** or **30D**), tunable white (**2K6K** or **27K6**), **RGB**, **RGBW**, and our new premier 5-channel TruColor **RGBTW** light engine (RGB with Tunable White 1500K-6500K). Influenced by simplicity and elegance, the TruLine Trim 1.6A system brings together a modern and dynamic appearance to residential and commercial environments offering unlimited creativity and empowering you to design one-of-a-kind, personalized spaces every time. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty.

ORDERING

Order TWO LED Strip Lengths, per total section run Length TruLine Trim DIY can be secured to studs spaced 13"-24" apart or between studs with provided mounting clips. Remote Power Supplies and Required and Sold Separately, In-Wall Mounting Kits are available for select power supplies.

DESIGN NOTE

TruLine Trim 1.6A can be installed on a single surface, join runs on multiple planes from wall to ceiling, or from one wall to an adjacent wall. Use TruLine Trim 1.6A Build-It-Yourself **(DIY)** with pre-formed components to create desired configurations, including Mitered Picture Frame and Outside or Inside Corners for room wrapping installations. Create square or rectangular compositions with TruQuad 1.6A. For custom designs and quotes, send drawings to design@PureEdgeLighting.com.

PRE-FORMED COMPONENTS

8' Channel and Lens, End Feed Power Connector, Center Feed Power Connector, L-Picture Frame Power Connector, Junction Box, Outside Corner Channel Connector, Inside Corner Channel Connector, Channel Joiners, Take-Up Box, and Straight Joiner.

APPLICATIONS

Designed for any indoor flat surface including but not limited to tile, cement, drywall and millwork. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

LUMEN PERFORMANCE

- 1370lm/ft at 3000K 14W per foot
- Designer Grade High CRI 95+ LEDs
- See page 2 for nominal lumen performance

LAMP

- Static White Color Temperatures ranging from **2400K** through **4000K**
- Warm Dim: **27D** and **30D** dim down to 1800K, resembling halogen light sources
- Pro-Dim: **27KPD** (dims down to 1800K) and **30KPD** (dims down to 2000K), dims to off with Pro-Dim power supplies
- Tunable White: **2K6K** and **27K6** grants independent control for adjusting color temperature and intensity
- Dynamic RGB & RGB+White in 2000K (**RGB**, **RGB20K**) (special order in 27K, 30K and 40K)
- TruColor™ **RGBTW** Dynamic RGB with Tunable White 1500K-6500K
- Average life: 50,000 hours

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

24VDC, Class 2 wiring
*See LED Strips for correlating power supplies (pages 11-17)

To determine the necessary wire gauge use our Voltage Drop Calculator.

PICTURE FRAME INSTALLATION DESIGN NOTE

Picture Frame Miter is the style of installation in which the electrician may create 90° turns on a single surface with L-Picture Frame Channel Connectors **(TTL1.6A-L)** and/or L-Picture Frame Power Channel Connectors **(TTL1.6A-LP)**. The LED Strip is installed on the side of the channel and bends within L-Shaped Channel Connectors to create continuous illumination on a walls and ceiling

ROOM WRAPPING DESIGN NOTE

Room Wrapping is the style of installation in which the electrician may create 90° angles with Inside Corner Channel Connectors **(TTL1.6A-IC)** and/or Outside Corner Channel Connectors **(TTL1.6A-OC)**. The LED Strip is installed flat on the back wall of the channel, and bends within inside or outside corners for seamless illumination across surfaces.
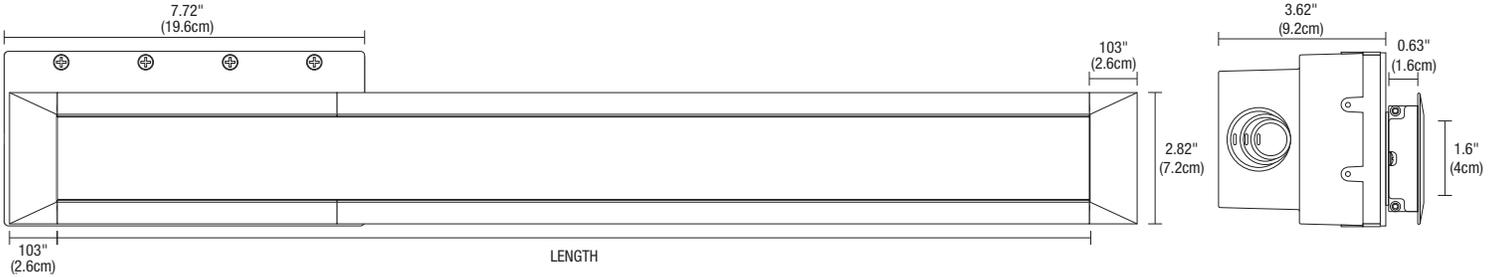
COMPLIANCE

ETL, Class 2, Indoor Damp Location

PureEdge is the Original Designer of 5/8" Drywall Lighting Products with the Most Experience in the industry.

PROJECT		FIXTURE TYPE		DATE	

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ETL Intertek | WARM | DIM | TW | RGB | RGBW | RGBTW | Wi-Fi | WiZ PRO

TruLine Trim 1.6A

Drywall with Plaster & Paint

7.72" (19.6cm)

103" (2.6cm)

2.82" (7.2cm)

103" (2.6cm)

LENGTH

3.62" (9.2cm)

0.63" (1.6cm)

1.6" (4cm)

NOMINAL DELIVERED LUMENS

	STATIC WHITE & WARM DIM																
WATTS PER FOOT	5W (2 x 2.5W)					10W (2 x 4.4W (*4.8W Warm Dim))							14W (2 x 7.3W)				
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	27D*	30K	30D*	35K	40K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	456	461	480	551	581	843	852	972	887	1012	1018	1073	1301	1315	1370	1572	1572
LUMENS PER WATT (lm/w)	46	46	48	55	58	48	48	51	50	53	58	61	45	45	47	54	54
CRI	92+	92+	92+	92+	92+	92+	92+	94+	92+	94+	92+	92+	92+	92+	92+	92+	92+

*27D, 30D - Warm Dim (4.8 Watts)

	TUNABLE WHITE 2K6K (2000K-6500K)																										
WATTS PER FOOT	5W (2 x 2.5 watts)									10W (4.6 watts)									14W (7.5 watts)								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	249	253	256	260	263	270	295	318	340	604	628	653	677	702	751	805	813	820	840	879	918	958	997	1076	1133	1145	1156
LUMENS PER WATT (lm/w)	67	63	64	65	66	68	74	79	95	66	65	68	71	73	78	84	85	89	66	61	64	67	69	75	79	79	90
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+

	TUNABLE WHITE 27K6 (2700K-6500K)																				
WATTS PER FOOT	5W (2 x 2 watts)							10W (2 x 4.8 watts)							14W (2 x 7.2 watts)						
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	264	313	322	330	361	389	370	659	674	699	724	716	710	708	889	910	944	978	967	959	956
LUMENS PER WATT (lm/w)	71	78	80	83	90	97	100	82	73	76	79	78	77	89	69	63	66	68	67	67	75
CRI	92+	92+	92+	95+	93+	93+	93+	92+	92+	92+	95+	93+	93+	93+	92+	92+	92+	95+	93+	93+	93+

	RGBTW TRUCOLOR™																
WATTS PER FOOT	10W (2X5 Watts) Tunable White									14W (2X7 Watts) Tunable White							
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	274	411	499	559	578	610	658	462	426	338	564	724	822	843	888	870	511	463
LUMENS PER WATT (lm/w)	51	45	57	66	68	70	78	78	89	51	73	59	69	69	72	74	74	77
CRI	92	94	95	95	96	97	97	92	90	93	95	96	97	97	98	97	95	93
Duv	-0.004	-0.0012	-0.0034	-0.0058	-0.0055	-0.0033	-0.0014	-0.0049	-0.0063	-0.0030	0.0002	0.0030	0.0030	0.0030	0.0009	0.0000	0.0030	0.0030
Rf	91	93	94	94	95	94	94	92	90	92	93	95	95	95	95	94	92	91
Rg	105	101	103	105	104	102	100	102	103	104	100	102	103	103	101	100	102	103
R9	90	90	90	94	97	97	91	81	70	91	90	90	94	95	93	93	79	67
R13	92	94	95	95	94	96	99	90	87	92	95	96	96	97	99	99	91	88
R15	99	99	99	98	97	97	97	89	85	99	99	99	99	99	98	97	90	85
WATTS/FOOT	2.7	4.55	4.35	4.25	4.25	4.35	4.2	2.95	2.4	3.35	3.85	6.15	5.95	6.15	6.15	5.84	3.45	3

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TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
Pure Smart Lighting

TRADITIONAL DIMMING DIAGRAM

2 Conductor Class 2, 14 AWG

2X96W Power Supply

PSB-2X96W-UNI-24VDC

A. JUNCTION BOX
Mounts behind drywall with Adjustable Mounting Bars. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is covered by channel Includes 2 Pure Smart WiZ Pro CV Bridgeboxes per power feed.. Required at the beginning of each run and necessary to rough-in electrical before TruLine installation.

B. ADJUSTABLE MOUNTING BARS
Provide flexibility for mounting in a variety of spaces and orientations. May be secured to studs that are spaced 13"-24" apart.

C. TRULINE TRIM 1.6A CHANNEL
5/8" deep extrusion house for two rows of LED Strip.

D. POWER END CAP
Provides a finished look and prevents light leak at feed-end of runs where LED Strip enters the channel.

E. TAKE-UP BOX
Prevents dark spots at the end of a run by tucking excess LED Strip safely behind wall.
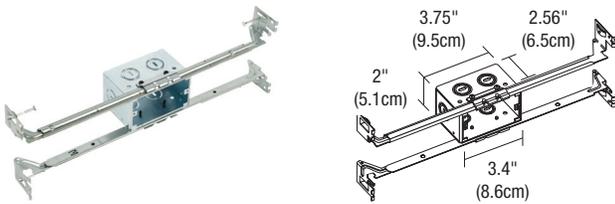
F. TOGGLE BOLT AND SCREW
Secures channel to drywall when wall stud is unavailable.

G. LED STRIP
Your choice of PureEdge LED Strip. **Order TWO LED Strip Lengths, per total section run Length** (Include End Feeds, Center Feeds, Corner Connectors, L-Picture Frames and all Channel Lengths).
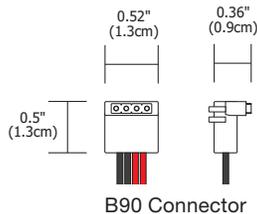
H. LENS
1.6" wide diffused white lens projects a clean line of light without pixelation.

3.75" (9.5cm) 2.56" (6.5cm)
2" (5.1cm)
3.4" (8.6cm)

0.52" (1.3cm)   0.36" (0.9cm)
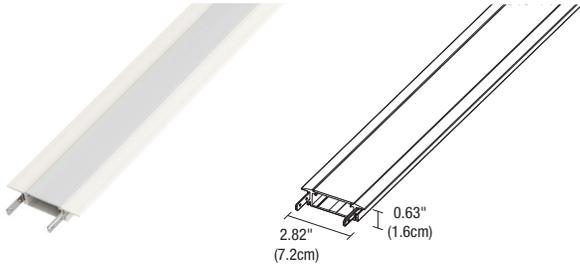0.5" (1.3cm)

B90 Connector

JUNCTION BOX ROUGH-IN COMPONENT
Junction box for rough-in electrical wiring before drywall installation. Includes B90 connector 8 Inches long. Quick shipment available. Required Component.

System	Size	Component
TL1.6A	**1RE**	**JBOX**
TL1.6A TruLine 1.6A	**1RE** 1" Rectangle	**JBOX** Junction Box

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TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
Pure Smart Lighting

PREFORMED COMPONENTS

8' CHANNEL & LENS

8' Channel with Lens and two LED Strips (not included) may be installed flat or on the side of the channel. Allows for the creation of Truline Trim 1.6A DIY systems. Field cuttable to any length. Includes Channel Joiners.

0.63" (1.6cm)
2.82" (7.2cm)

System	Component	Size	Finish
TTL1.6A	**CHLN**	**8FT**	**WH**
TLT1.6A TruLine Trim1.6A	CHLN Channel and Lens	8FT 8'	BK Black
			WH White
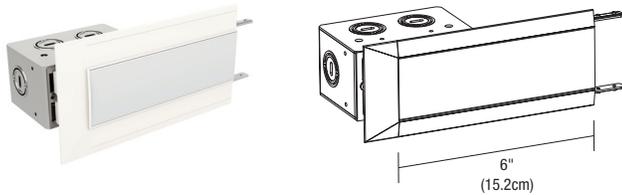
END FEED POWER CHANNEL CONNECTOR

Allows 24VDC power to be fed from either end of the channel and two LED Strips (not included) may be installed flat or on the side of the channel. Includes Lens, Channel Joiners, Junction Box, Adjustable Mounting Bars, and Channel Power Connectors.

6" (15.2cm)

System	Component	Options	Finish
TTL1.6A	**EP**	**BLANK**	**WH**
TLT1.6A TruLine Trim1.6A	EP End Feed Power Channel Connector	RGBW Red, Green, Blue and White	BK Black
		RGBTW Red, Green, Blue, and Tunable White	WH White
		*Leave blank for all other color temperatures	
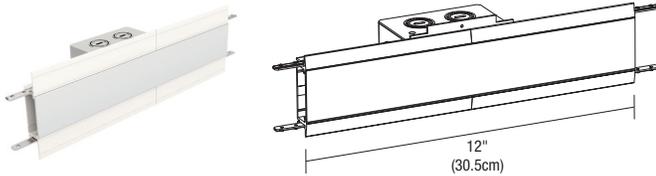
CENTER FEED POWER CHANNEL CONNECTOR

Allows 24VDC power to be fed from the center of the channel and two LED Strips (not included) may be installed flat or on side of the channel. Includes Lens, Channel Joiners, Junction Box, Adjustable Mounting Bars, and Channel Power Connectors.

12" (30.5cm)

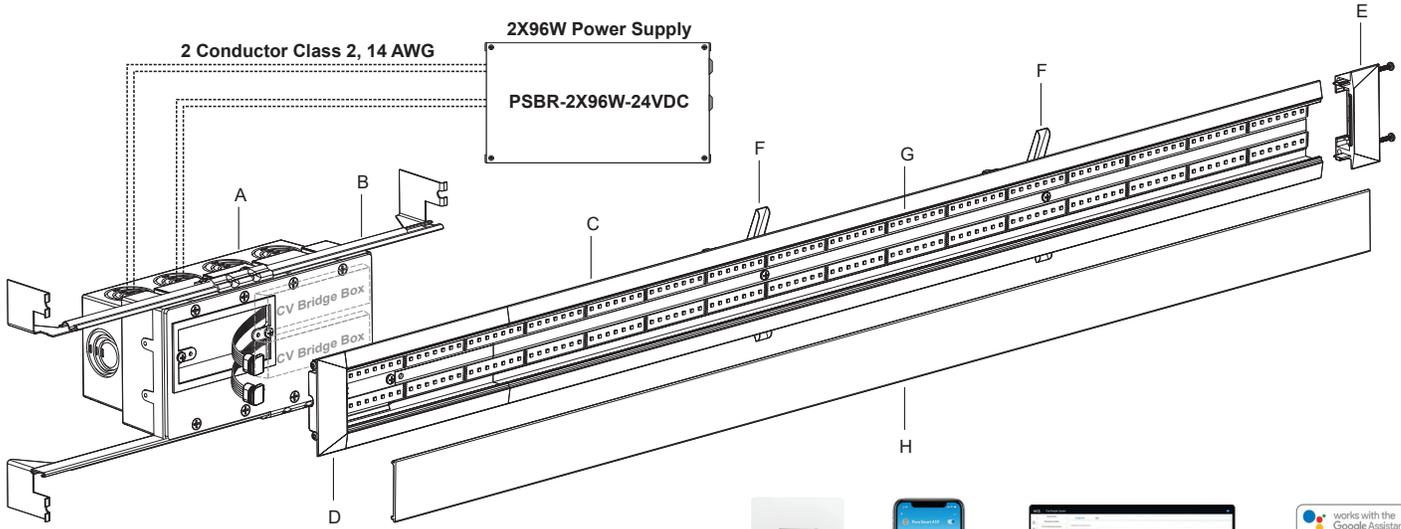| System	Component	Options	Finish
TTL1.6A	**CFP**	**BLANK**	**WH**
TLT1.6A TruLine Trim1.6A	CFP Center Feed Power Channel Connector	RGBW Red, Green, Blue and White	BK Black
		RGBTW Red, Green, Blue, and Tunable White	WH White
		*Leave blank for all other color temperatures	
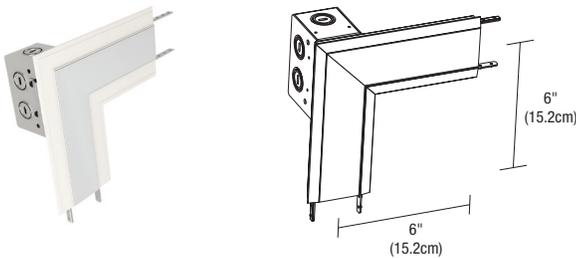
L-PICTURE FRAME POWER CHANNEL CONNECTOR

Allows 24VDC power to be fed from corners for 90° turns (with power) in Picture Frame Installations and two LED Strips (not included) bends on the side within the connector to create continuous illumination on a wall or ceiling. LP2 version powers two separate LED Strip sections. LED Strip is installed on the side of the channel. Includes Lens, Channel Joiners, Junction Box, Adjustable Mounting Bars, and Channel Power Connectors.

6" (15.2cm)
6" (15.2cm)

System	Component	Options	Finish
TTL1.6A	**LP**	**BLANK**	**WH**
TLT1.6A TruLine Trim1.6A	LP L-Picture Frame Power Channel Connector	RGBW Red, Green, Blue and White	BK Black
	LP2 L-Picture Frame Dual Feed Power Channel Connector	RGBTW Red, Green, Blue, and Tunable White	WH White
		*Leave blank for all other color temperatures	

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TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
Pure Smart Lighting

SMART DIMMING DIAGRAM

2 Conductor Class 2, 14 AWG

2X96W Power Supply

PSBR-2X96W-24VDC

CV Bridge Box

Room Controller   Mobile App   Dashboard   Voice Control

works with the Google Assistant
works with alexa
Works with IFTTT
Works with Siri Shortcuts

A. JUNCTION BOX
Mounts behind drywall with Adjustable Mounting Bars. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is covered by channel Includes 2 Pure Smart WiZ Pro CV Bridgeboxes per power feed.. Required at the beginning of each run and necessary to rough-in electrical before TruLine installation.

B. ADJUSTABLE MOUNTING BARS
Provide flexibility for mounting in a variety of spaces and orientations. May be secured to studs that are spaced 13"-24" apart.

C. TRULINE TRIM 1.6A CHANNEL
5/8" deep extrusion house for two rows of LED Strip.

D. POWER END CAP
Provides a finished look and prevents light leak at feed-end of runs where LED Strip enters the channel.

E. TAKE-UP BOX
Prevents dark spots at the end of a run by tucking excess LED Strip safely behind wall.
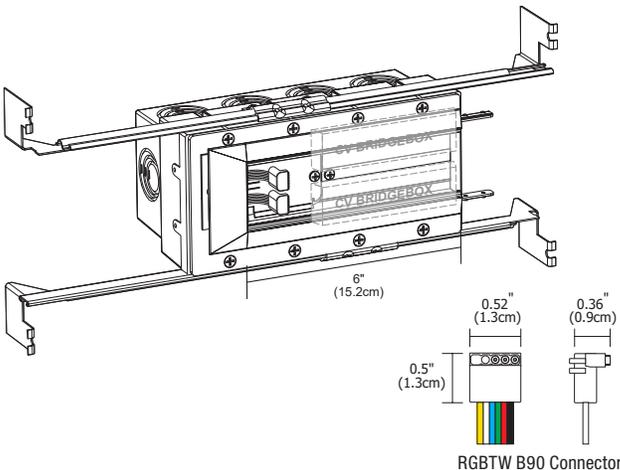
F. TOGGLE BOLT AND SCREW
Secures channel to drywall when wall stud is unavailable.

G. LED STRIP
Your choice of PureEdge LED Strip. **Order TWO LED Strip Lengths, per total section run Length** (Include End Feeds, Center Feeds, Corner Connectors, L-Picture Frames and all Channel Lengths).

H. LENS
1.6" wide diffused white lens projects a clean line of light without pixelation.

6" (15.2cm)

0.52" (1.3cm)   0.36" (0.9cm)

0.5" (1.3cm)

RGBTW B90 Connector

PURE SMART END FEED POWER CONNECTOR WITH WIZ PRO CV BRIDGEBOX & JUNCTION BOX
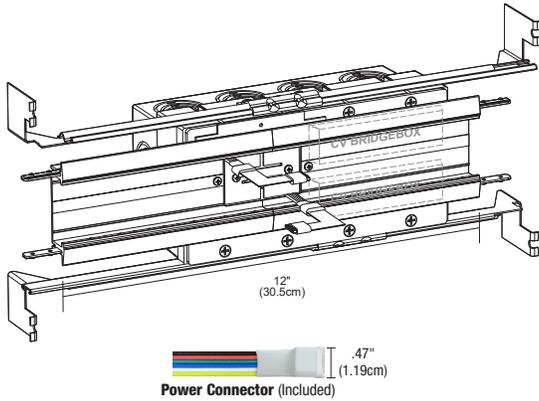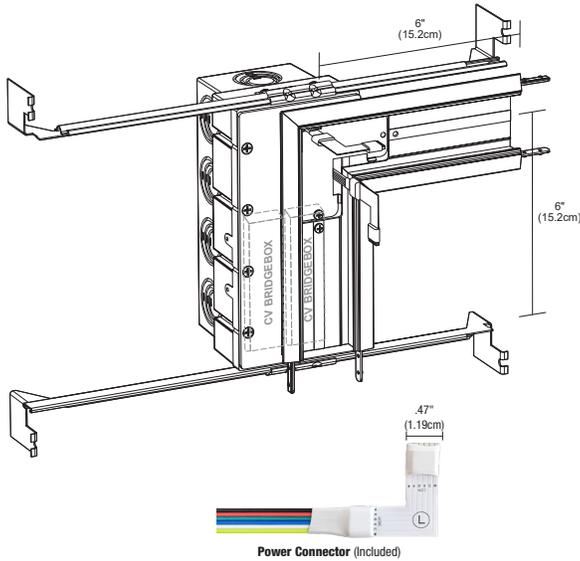Includes WiZ Pro CV Bridgebox in a 4 gang Junction Box with adjustable bar hangers, B90 Pin Connector for LED strip, and Channel Joiners. LED Strip (not included) may be installed flat on the bottom or side of the channel. Two Class 2, 14AWG stranded conductors from the Remote Power Supply up to 40 ft away are required.

System		Control		Ceiling/Wall Type		Color Temperature Options		Finish	
TTL1.6A	–	**WZ**	–	**EP4G**	–	**TC5W5**	–	**WH**	
TTL1.6A	TruLine Trim 1.6A	WZ	WiZ Pro Smart System	EP4G	End Feed Power 4 Gang Junction Box	DW	Static White	BK	Black
						TW	Tunable White	WH	White
						TC5W5	TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White		
						TC5W7	TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White		

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| PROJECT | | FIXTURE TYPE | | DATE | |

TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE | EDGE
Pure Smart Lighting

REV 10.19.23

12"
(30.5cm)

.47"
(1.19cm)
Power Connector (Included)

PURE SMART CENTER FEED POWER CONNECTOR WITH WIZ PRO CV BRIDGEBOX & JUNCTION BOX

Includes WiZ Pro CV Bridgebox in a 4 gang Junction Box with adjustable bar hangers, Pin Power Connector for LED strip, and Channel Joiners. LED Strip (not included) may be installed flat on the bottom or side of the channel. Two Class 2, 14 AWG stranded conductors from the Remote Power Supply are required per WiZ Pro CV Bridgebox.

System		Control		Ceiling/Wall Type		Color Temperature Options		Finish
TTL1.6A	–	**WZ**	–	**CFP4G**	–	**TC5W5**	–	**WH**

System	Control	Ceiling/Wall Type	Color Temperature Options		Finish	
TTL1.6A TruLine Trim 1.6A	**WZ** WiZ Pro Smart System	**CFP4G** Center Feed Power with one WiZ connected CV bridgebox	**DW** Static White **TW** Tunable White **TC5W5** TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White		**BK** Black **WH** White	

WiZ PRO

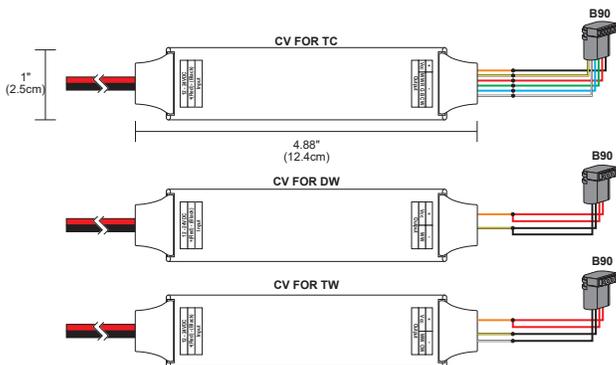## PURE SMART L POWER FEED CHANNEL CONNECTOR WITH WIZ PRO CV BRIDGEBOX AND JUNCTION BOX

Includes WiZ Pro CV Bridgebox in a 4 gang Junction Box, Lens, Channel Joiners, Adjustable Mounting Bars, and Pinned Power Connector. Allows 24VDC power to be fed from corners for 90° turns (with power) in Picture Frame installations either in one or both directions. LED Strip (not included) installs on the side of the channel to create continuous illumination on a wall or ceiling.

6"
(15.2cm)

6"
(15.2cm)

.47"
(1.19cm)
Power Connector (Included)

System		Control		Ceiling/Wall Type		Color Temperature Options		Finish
TL1.6A	–	**WZ**	–	**LP4G**	–	**TC5W5**	–	**WH**

System	Control	Ceiling/Wall Type	Color Temperature Options	Finish
TTL1.6A TruLine Trim 1.6A	**WZ** WiZ Pro Smart System	**LP4G** L Power Feed with 4 Gang Junction box and one CV Bridgebox.	**DW** Static White **TW** Tunable White **TC5W5** TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White	**BK** Black **WH** White

WiZ PRO

PURE SMART/WIZ PRO CV BRIDGEBOX

WiZ Pro CV Bridgeboxes are included with all Pure Smart WiZ Pro connected power feeds and allow for integration into WiZ Pro wireless control ecosystem. The part numbers below are to be used for replacement only. Pure Smart/WiZ Pro CV Bridgeboxes are pre-programmed with Pure Smart app icons, and proprietary color mixing for tunable white and RGBTW.
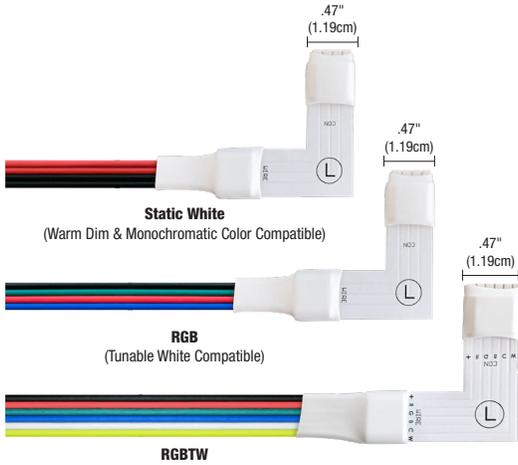

CV FOR TC
B90
1"
(2.5cm)
4.88"
(12.4cm)
CV FOR DW
B90
CV FOR TW
B90

Type		Type		Control		Color Temperature Options		System
BR	–	**LBL**	–	**CV96W**	–	**TC5W5**	–	**RL**

Type	Type	Control	Color Temperature Options	System
BR Bridgebox	**B90** 90° Connector **LBL** Flexible 90° L Connector Left **LBR** Flexible 90° L Connector Right **LBRL** Flexible 90° L Connector Left & Right	**CV96W** Slim Profile WiZ Bridgebox	**DW** Static White **TW** Tunable White **TC5W5** TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White	**RL** Recessed Linear

WiZ PRO

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TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

.47"
(1.19cm)

Static White
(Warm Dim & Monochromatic Color Compatible)

.47"
(1.19cm)

RGB
(Tunable White Compatible)

.47"
(1.19cm)

RGBTW

POWER FEED/FLEXIBLE CONNECTOR
Included with Center Feed components. Part numbers listed below to be ordered for replacement only. For use with Static White, Warm Dim, Tunable White, RGB, and RGBTW. Flexible Power Connectors link two sections of LED Strip end to end. To use as a Power Feed cut off the male end, and connect to the power supply.

Product		Type		Component		Orientation		Size		Color Temperature Options	
SS	-	**FE**	-	**CON**	-	**LBL**	-	**6IN**	-	**RGBTW**	

SS Stomp Strip/ Soft Strip	**FE** Female Pins	**CON** Connector	**LBL** L connector Bendable 90° Left	**6IN** 6 inches
			LBR L connector Bendable 90° Right	

DW Static White, Warm Dim
RGB Red, Green, & Blue (Tunable White Compatible)
RGBTW Red, Green, Blue, and Tunable White

4 GANG JUNCTION BOX WITH MOUNTING PLATE
(INCLUDED WITH PURE SMART POWER FEED ORDERING CODE)
Includes a 4 gang Junction Box with adjustable bar hangers and mounting plate for the Truline 1.6A Channel.. Two Class 2, 14 AWG stranded conductors from remote located power supply are required per WiZ Pro CV Bridgebox used. Junction Box can be quick shipped for rough-in.
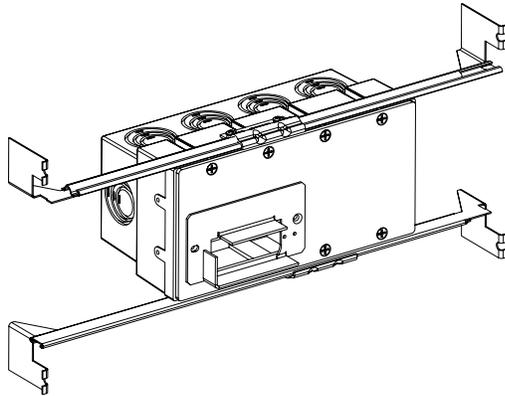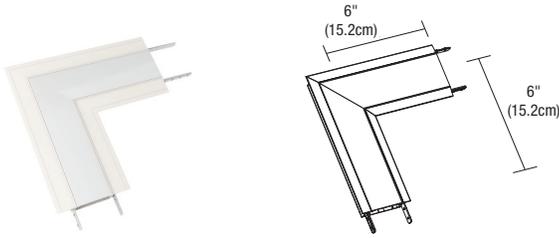

System		Type
TL1.6A	–	**1RE4G**

TL1.6A TruLine 1.6A

1RE4G 1" Rectangle End Feed
1RC4G 1" Rectangle Center Feed
1LP4G 1" Rectangle L Feed

PROJECT		FIXTURE TYPE		DATE	

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NON-POWERED COMPONENTS: SMART & NON-SMART COMPATIBLE

L-PICTURE FRAME CHANNEL CONNECTOR

Allows Picture Frame installation 90° turns and two LED Strips (not included) bends on the side within the connector to create continuous illumination on a wall or ceiling. LED Strip is installed on the side of the channel. Includes Lens and Channel Joiners.
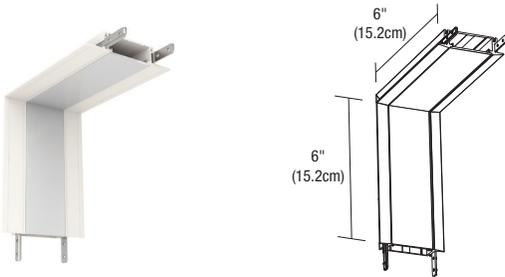
System	Component	Finish
TTL1.6A	**L**	**WH**
TTL1.6A TruLine Trim1.6A	L L-Picture Frame Channel Connector	BK Black / WH White
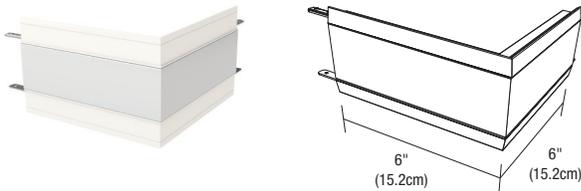
OUTSIDE CORNER CHANNEL CONNECTOR

Allows Room Wrapping installation 90° outside corners and two LED Strips (not included) bends flat within the outside corners for seamless light across surfaces. For use from wall to ceiling or from one wall to an adjacent wall. Includes Lens and Channel Joiners.

System	Component	Finish
TTL1.6A	**OC**	**WH**
TTL1.6A TruLine Trim1.6A	OC Outside Corner Channel Connector	BK Black / WH White

INSIDE CORNER CHANNEL CONNECTOR

Allows Room Wrapping installation 90° inside corners and two LED Strips (not included) bend flat within the inside corners for seamless illumination across surfaces. For use from wall to ceiling or from one wall to an adjacent wall. Includes Lens and Channel Joiners.
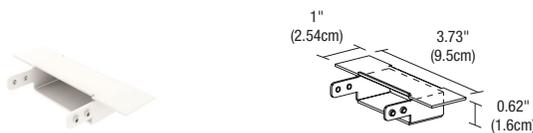
System	Component	Finish
TTL1.6A	**IC**	**WH**
TTL1.6A TruLine Trim1.6A	IC Inside Corner Channel Connector	BK Black / WH White
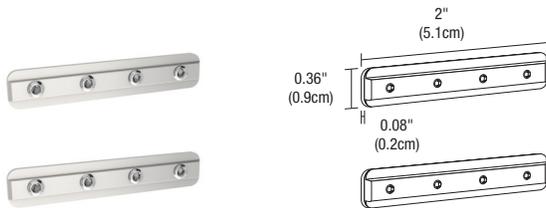
CHANNEL JOINERS

Included with Straight Channel, Channel Connectors, Power Feeds and Take-Up Box. Channel Joiners ship as a pair to connect two channels together. Additional channel joiners may be necessary based on lighting design.

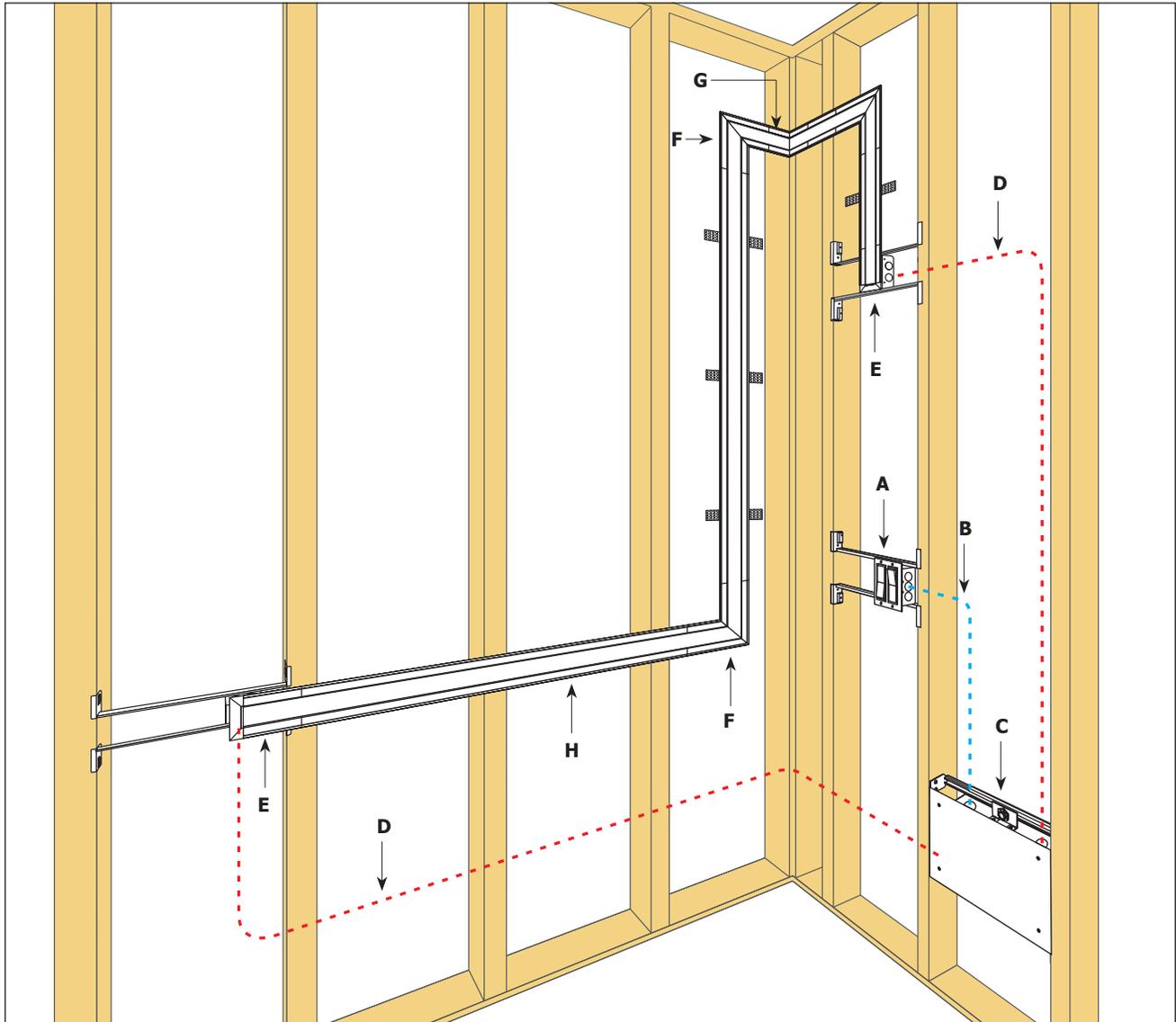| Product	Component
LCR	**SC**
LCR TruLine Channel Joiner	SC Straight Connector

TAKE-UP BOX

Prevents dark spots at end of run by tucking excess LED Strip safely behind wall. Includes Channel Joiners.

System	Component	Finish
TL1.6A	**TBOX**	**WH**
TL1.6A TruLine 1.6A	TBOX Take-Up Box	WH White

PROJECT		FIXTURE TYPE		DATE	

TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
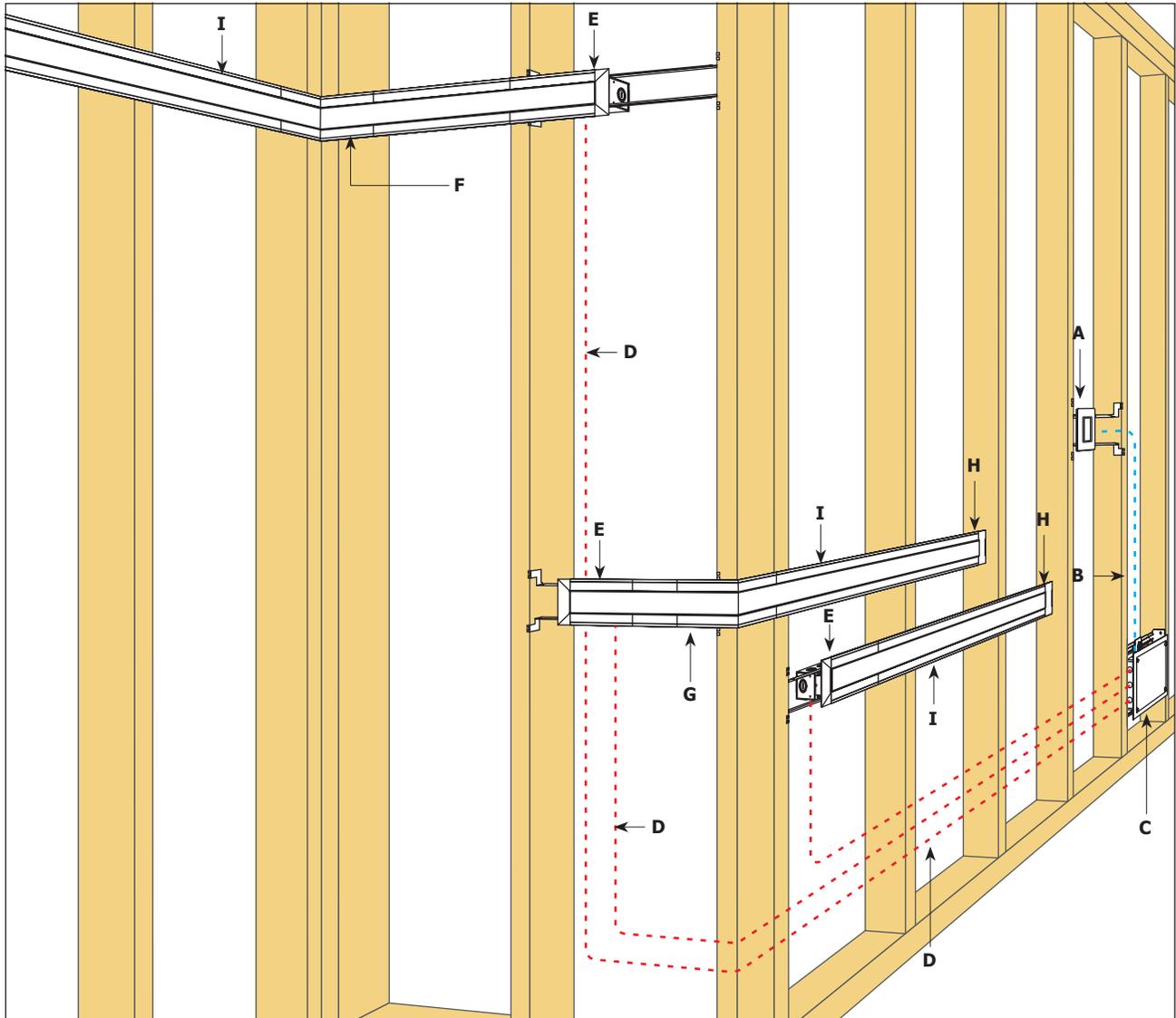Pure Smart Lighting

PICTURE FRAME INSTALLATION

A. DIMMER OR SWITCH

B. 120VAC WIRING

C. 120V/24VDC REMOTE POWER SUPPLY WITH IN-WALL MOUNTING KIT, FOR MORE REMOTE POWER SUPPLIES

D. 24VDC, CLASS 2 WIRING

E. END FEED POWER CHANNEL CONNECTOR WITH JUNCTION BOX

F. L-PICTURE FRAME CHANNEL CONNECTOR

G. INSIDE CORNER CHANNEL CONNECTOR

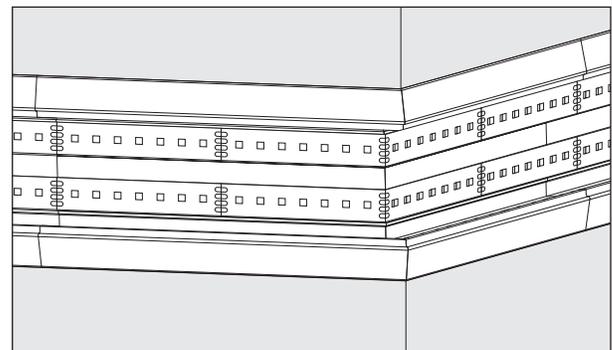**H. TRULINE TRIM CHANNEL, LENS & 2 LED STRIP**
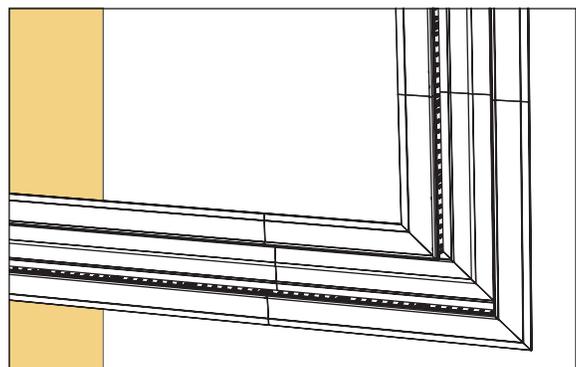
LEDs on the sides of the Channel for L-Turn

PROJECT		FIXTURE TYPE		DATE	

TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
Pure Smart Lighting

ROOM WRAPPING INSTALLATION

A. DIMMER OR SWITCH

B. 120VAC WIRING

C. 120V/24VDC REMOTE POWER SUPPLY WITH IN-WALL MOUNTING KIT, FOR MORE REMOTE POWER SUPPLIES

D. 24VDC, CLASS 2 WIRING

E. END FEED POWER CHANNEL CONNECTOR WITH JUNCTION BOX

F. INSIDE CORNER CHANNEL CONNECTOR

G. OUTSIDE CORNER CHANNEL CONNECTOR

H. TAKE-UP BOX

I. TRULINE TRIM CHANNEL, LENS, & 2 LED STRIPS

LEDs mounted to the back of the Channel for outside Channel Connector

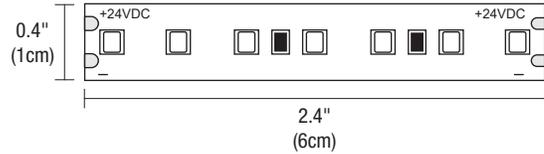| PROJECT		FIXTURE TYPE		DATE	

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STOMP STRIP & SOFT STRIP, STATIC WHITE
24VDC WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE
Pure Smart Lighting

REV 10.19.23

Our Low Voltage LED strips are highly durable, designed to withstand the harsh elements of a job site, and precision engineered to provide superior color rendering up to 92+ CRI. Both Stomp Strip and Soft Strip are used for our **DIY** (Do-it-Yourself) fixtures and systems. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@ PureEdgeLighting.com .

FEATURES & BENEFITS
- Offered with pin connectors reducing time and labor during installation
- Developed to meet popular demand for resilient performance without sacrificing output, color rendering and efficacy
- Tolerance: Created to resist damage in rigorous environments such as busy commercial jobsites
- Compact LED spacing: Produces uniform light distribution without visible diodes or hot spots when used within a diffused lens
- 4oz Layer of Copper Busbar: Provides superior heat dissipation and less voltage drop equivalent to 14AWG wire
- Premium Coating: Optically Clear Silicone prevents fading over time
- Mounting: Industrial 3M tape lined strip for strong, self-adhesion to most smooth, finished surfaces
- Suitable for indoor damp locations
- Warranty: Includes a 5-year pro-rated warranty

SPECIFICATIONS
- 24VDC
- 2.5, 4.4, 7.3 watts per foot
- Sold in 1' increments
- Field-cuttable in 2.4" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

LAMP
- Offered in multiple Static White Color Temperatures: 2400K, 2700K, 3000K, 3500K & 4000K
- Average life: 50,000 hours

REMOTE POWER SUPPLIES*, DIMMING & CONTROLS (SOLD SEPARATELY)
24VDC, Class 2 wiring
- Pure Smart™ WiZ Pro Power Supplies & Controls
- UNI Driver: Universal Dimming **(TRIAC, ELV, 0-10V)**
- DALI/DALI-2
- Lutron Hi-Lume/Ecosystem

*In-Wall Mounting and drop ceiling Kits available for select power supplies
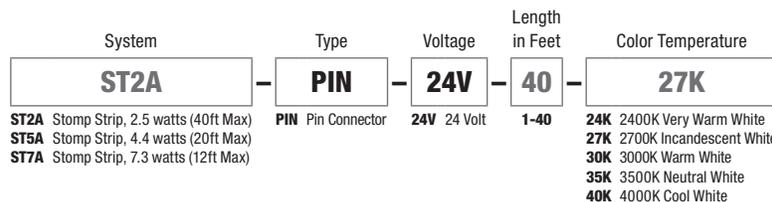
MAXIMUM LENGTHS BEFORE RE-FEEDING
- 5WDC (2x2.5 watts per foot) 20'
- 10WDC (2x4.4 watts per foot) 10'
- 14WDC (2x7.3 watts per foot) 6'

APPROVALS
Class 2 Wiring up to 100 watts, Damp Location Suitable, RoHS, ETL listed.

NOMINAL LAMP DATA	ST2A					ST5A					ST7A				
WATTS PER FOOT	2.5W					4.4W					7.3W				
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	284	287	299	343	362	525	531	553	634	669	811	820	854	980	1033
LUMENS PER WATT (lm/w)	114	115	120	137	145	119	121	126	144	152	111	112	117	134	142
CRI	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+

System	Type	Voltage	Length in Feet	Color Temperature
ST2A	**PIN**	**24V**	**40**	**27K**

ST2A Stomp Strip, 2.5 watts (40ft Max)
ST5A Stomp Strip, 4.4 watts (20ft Max)
ST7A Stomp Strip, 7.3 watts (12ft Max)

PIN Pin Connector

24V 24 Volt

1-40

24K 2400K Very Warm White
27K 2700K Incandescent White
30K 3000K Warm White
35K 3500K Neutral White
40K 4000K Cool White

System Requires Two Rows of LED Strip

PROJECT		FIXTURE TYPE		DATE	

WARM DIM, STOMP STRIP
24VDC WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE
Pure Smart Lighting

0.4"
(1cm)

3.0"
(7.6cm)
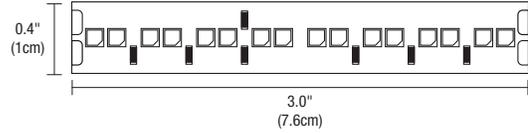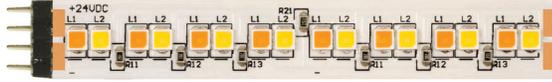
CAN'T STOMP ME OUT

Our Low Voltage Stomp Strip is highly durable, designed to withstand the harsh elements of a job site, and precision engineered to provide superior color rendering up to 94+ CRI. Warm Dim technology **(27D & 30D)** mimics an incandescent atmosphere by decreasing the color temperature as you dim. Our Warm Dim strips can be dimmed all the way down to a soothing amber hue at 1800K, reminiscent of candlelight along the halogen curve. Stomp Strip is used for our **DIY** (Do-it-Yourself) fixtures and systems.

FEATURES & BENEFITS

- Offered with pin connectors reducing time and labor during installation
- Developed to meet popular demand for resilient performance without sacrificing output, color rendering and efficacy
- Tolerance: Created to resist damage in rigorous environments such as busy commercial jobsites
- Compact LED spacing: Produces uniform light distribution without visible diodes or hot spots when used within a diffused lens
- 4oz Layer of Copper Busbar: Provides superior heat dissipation and less voltage drop equivalent to 14AWG wire
- Premium Coating: Optically Clear Silicone prevents fading over time
- Mounting: Industrial 3M tape lined strip for strong, self-adhesion to most smooth, finished surfaces
- Suitable for indoor damp locations
- Warranty: Includes a 5-year pro-rated warranty

LAMP

- **27D** dims from 2700K down to 1800K, and **30D** dims from 3000K down to 2000K, resembling Halogen light sources.
- Average life: 50,000 hours

SPECIFICATIONS

- 24VDC
- 4.8 watts per foot
- Sold in 1' increments
- Field-cuttable in 3" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- Maximum length before re-feeding - 20'
- System requires two rows of LED strip

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 10WDC (2x4.8 watts per foot) 10'

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

24VDC, Class 2 wiring
- UNI Driver: Universal Dimming **(TRIAC, ELV, 0-10V)**
- DALI/DALI-2
- Lutron Hi-Lume/Ecosystem

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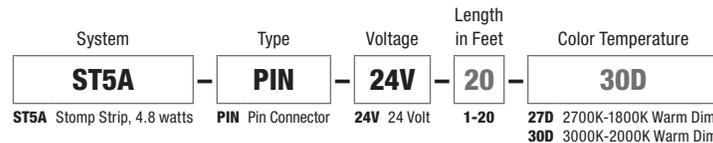
MAKE IT SMART

Pure Smart™ Wi-Fi Dimmer

APPROVALS

Class 2 Wiring up to 100 watts, Damp Location Suitable, RoHS, ETL listed.

NOMINAL LAMP DATA	ST5A	
WATTS PER FOOT	4.8W	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	606	631
LUMENS PER WATT (lm/w)	126	131
CRI	94+	94+

System	Type	Voltage	Length in Feet	Color Temperature
ST5A	**PIN**	**24V**	**20**	**30D**
ST5A Stomp Strip, 4.8 watts	PIN Pin Connector	24V 24 Volt	1-20	27D 2700K-1800K Warm Dim 30D 3000K-2000K Warm Dim

System Requires Two Rows of LED Strip

PROJECT		FIXTURE TYPE		DATE	

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PRO WARM DIM, STOMP STRIP
24VDC WITH PIN CONNECTORS

PURE EDGE
Pure Smart Lighting
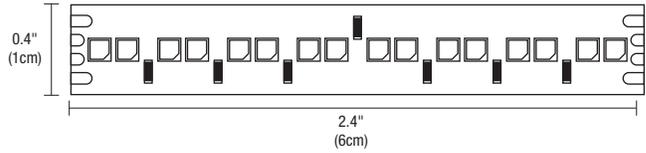
FEATURES & BENEFITS

- Pro Dim LED Strip provides adaptable dim to warm light with 0.1% Dim to off
- High CRI LEDs, offering superior color rendering and enhanced color
- Offered in 2W, 5W, & 7W watts per foot
- The 0.4" (10mm) wide strip contains 35 LEDs per foot (7 LEDs per 2.4" Increment): Tight spacing of LEDs produce uniform light distribution without visible diodes or pixelation when used within a diffused lens
- Gold Plated Contacts: Prevent oxidation ensuring longevity of the LEDs
- 4oz Layer of Copper Busbar: Provides superior heat dissipation and less voltage drop equivalent to 14AWG wire
- Premium Coating: Optically Clear Silicone prevents fading over time
- Mounting: Industrial 3M tape lined strip for strong, self-adhesion to most smooth, finished surfaces
- Applications: Indoor, damp and dry locations
- Warranty: Includes a 5-year pro-rated warranty

SPECIFICATIONS

- 24VDC, 120-277VAC Input
- 2.5, 5, and 7.5 watts per foot
- Sold in 1' increments
- Field-cuttable in 2.4" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

LAMP

- Available in 2700K **27KPD** (dims down to 1800K) and **3000K** (30KPD) that dims down to 2000K
- Linear Dimming Curve
- Designer Grade High CRI 92+ LEDs
- Average life: 50,000 hours

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5WDC (2x2.5 watts per foot) 20'
- 10WDC (2x5 watts per foot) 10'
- 14WDC (2x7.5 watts per foot) 6'

REMOTE POWER SUPPLIES*, DIMMING & CONTROLS (SOLD SEPARATELY)
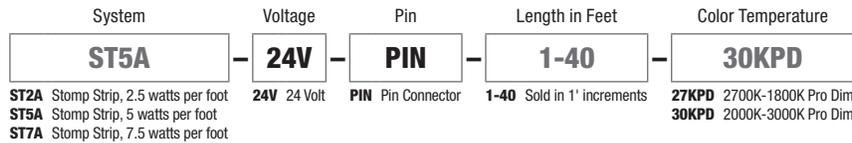24VDC, Class 2 wiring

- Pro Dim Power Supplies & Controls
*In-Wall Mounting Kits available for select Power Supplies

APPROVALS
Class 2 Wiring up to 100 watts, Damp Location Suitable, RoHS, ETL listed.

NOMINAL LAMP DATA						
DESCRIPTION	ST2A KPD		ST5A KPD		ST7A KPD	
WATTS PER FOOT	2W (2.5 watts)		5W (5 watts)		7W (7.5 watts)	
COLOR TEMPERATURE	27KPD	30KPD	27KPD	30KPD	27KPD	30KPD
LUMENS PER FOOT (lm/ft)	165	173	426	451	523	548
LUMENS PER WATT (lm/w)	66	69	66	69	58	61
CRI	92+	92+	92+	92+	92+	92+

System	Voltage	Pin	Length in Feet	Color Temperature
ST5A	**24V**	**PIN**	**1-40**	**30KPD**

ST2A Stomp Strip, 2.5 watts per foot
ST5A Stomp Strip, 5 watts per foot
ST7A Stomp Strip, 7.5 watts per foot

24V 24 Volt

PIN Pin Connector

1-40 Sold in 1' increments

27KPD 2700K-1800K Pro Dim
30KPD 2000K-3000K Pro Dim

System Requires Two Rows of LED Strip

PROJECT		FIXTURE TYPE		DATE	

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STOMP STRIP, TUNABLE WHITE
24VDC WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.19.23

PURE EDGE
Pure Smart Lighting

0.4" (1cm)

+24VDC +24VDC

2.4" (6cm)
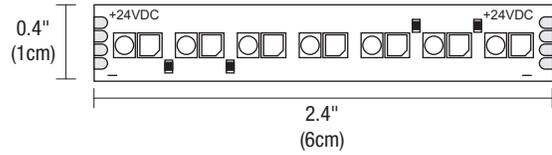
CAN'T STOMP ME OUT

Our Low Voltage Tunable White Stomp Strip is highly durable, designed to withstand the harsh elements of a job site, and precision engineered to provide superior color rendering up to 94+ CRI. Tunable White 2000K-6500K **(2K6K)** or 2700K-6500K **(27K6)** grants independent control and adjustment of color temperature and intensity from 2000K (Sunset) through 6500K (Day Light White). Tunable white lighting visually, biologically and emotionally contributes to human interaction with the physical world. Human centric lighting (HCL) builds on this technology bringing the dynamics of natural daylight indoors, and delivering a positive effect on human health, well-being and performance. Stomp Strip is used for our **DIY** (Do-it-Yourself) fixtures and systems.

FEATURES & BENEFITS

- Offered with pin connectors reducing time and labor during installation
- Developed to meet popular demand for resilient performance without sacrificing output, color rendering and efficacy
- Tolerance: Created to resist damage in rigorous environments such as busy commercial jobsites
- Compact LED spacing: Produces uniform light distribution without visible diodes or hot spots when used within a diffused lens
- 4oz Layer of Copper Busbar: Provides superior heat dissipation and less voltage drop equivalent to 14AWG wire
- Premium Coating: Optically Clear Silicone prevents fading over time
- Mounting: Industrial 3M tape lined strip for strong, self-adhesion to most smooth, finished surfaces
- Suitable for indoor damp locations
- Warranty: Includes a 5-year pro-rated warranty

LAMP

- Tunable White: 2000K-6500K **(2K6K)** and 2700K-6500K **(27K6)** grants independent control for adjusting color temperature and intensity
- Average life: 50,000 hours

SPECIFICATIONS

- 24VDC
- 2.5, 4.6, or 7.5 watts per foot
- Sold in 1' increments
- Field-cuttable in 2.4" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

REMOTE POWER SUPPLIES*, DIMMING & CONTROLS (SOLD SEPARATELY)
24VDC, Class 2 wiring

- Pure Smart™ WiZ Pro Power Supplies & Controls
- 0-10V: Requires two dimmers, one for intensity and one for color temperature
- DMX Dynamic Color Changing
- Controllers
- DALI/DALI-2

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

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5WDC (2x2.5 watts per foot) 20'
- 10WDC (2x4.6 watts per foot) 10'
- 14WDC (2x7.5 watts per foot) 6'

APPROVALS
Class 2 Wiring up to 100 watts, Damp Location Suitable, RoHS, ETL listed.

NOMINAL LAMP DATA	ST2A 2K6K									ST5A 2K6K									ST7A 2K6K								
WATTS PER FOOT	2.5 Watts									4.6 Watts									7.5 Watts								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	152	154	156	158	160	165	180	194	208	368	383	398	413	428	458	491	496	500	512	536	560	584	608	656	691	698	705
LUMENS PER WATT (lm/w)	82	77	78	79	80	82	90	97	115	80	80	83	86	89	95	102	103	109	80	74	78	81	84	91	96	97	110
CRI	91+	91+	91+	94+	93+	92+	92+	91+	91+	91+	91+	91+	94+	93+	92+	92+	91+	91+	91+	91+	91+	94+	93+	92+	92+	91+	91+

NOMINAL LAMP DATA	ST2A 27K6							ST5A 27K6							ST7A 27K6						
WATTS PER FOOT	2.5 Watts							4.6 Watts							7.5 Watts						
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	164	195	201	206	225	242	231	411	420	436	452	447	443	442	555	567	589	610	603	598	596
LUMENS PER WATT (lm/w)	82	78	80	82	90	97	115	103	91	95	98	97	96	110	87	79	82	85	84	83	93
CRI	94+	93+	92+	92+	92+	92+	91+	94+	93+	92+	92+	92+	92+	91+	94+	93+	92+	92+	92+	92+	91+

System	Type	Voltage	Length in Feet	Color Temperature
ST2A	**PIN**	**24V**	**40**	**2K6K**

ST2A Stomp Strip, 2.5 watts (40ft Max)
ST5A Stomp Strip, 4.6 watts (20ft Max)
ST7A Stomp Strip, 7.5 watts (12ft Max)

PIN Pin Connector

24V 24 Volt

1-40

2K6K Tunable White 2000K-6500K
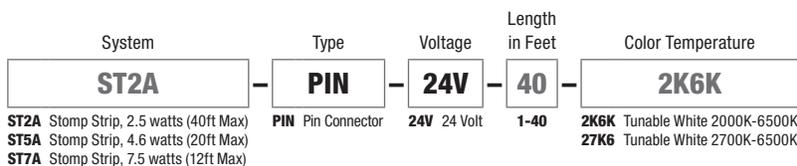27K6 Tunable White 2700K-6500K

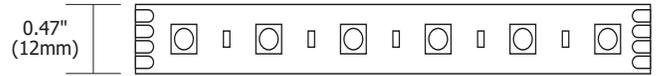**System Requires Two Rows of LED Strip**

PROJECT		FIXTURE TYPE		DATE	

SOFT STRIP, RGB
24VDC WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE
Pure Smart Lighting

0.47"
(12mm)

DESCRIPTION

PureEdge RGB Soft Strip provides dynamic color effects with red, green and blue LEDs. Our color-changing LED strip provides bright, continuous light offered in two wattage options of 3 or 5 watts per foot. PureEdge's focus on chromacity quality provides a balanced output across the color gamut, allowing the creation of millions of beautiful colors. The flexible strip is sold in 1 foot increments. RGB Soft Strip can be controlled using a compatible 24 volt DC power supply with an integrated RGB DMX driver. Includes a flexible aluminum heat sink to extend LED life. Both Stomp Strip and Soft Strip are used for our **DIY** (Do-it-Yourself) fixtures and systems.

SPECIFICATIONS

- 24VDC, Class 2
- Power Consumption: 2.6 or 5 watts per foot
- Sold in 1' increments
- Field-cuttable in increments: SS3- 4" SS5- 2.4"
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5WDC (2x2.6 watts per foot) 20'
- 10WDC (2x5 watts per foot) 10'

MOUNTING

Self-adhering Soft Strip mounts to most smooth finished surfaces with industrial strength 3M tape (provided on back of strip); some unfinished surfaces may require screw-in mounting clips **SS-MCL** (sold separately).

LAMP

- RGB: Dynamic Red, Green, and Blue
- Wattage options: 3 or 5 watts
- 50,000 Hour Lamp Life

ACCESSORIES (SOLD SEPARATELY)

- 24VDC Power Connectors and Jumpers
- Flexible Connectors
- Mounting Straps & Clips

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

24VDC, Class 2 wiring
- Pure Smart™ WiZ Pro Power Supplies & Controls
- DMX Dynamic Color Changing
- Controllers
- DALI/DALI-2

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

APPLICATIONS

Designed for any Indoor space, including Damp locations. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

APPROVALS

Damp Location, Class 2 wiring, RoHS, ETL Listed

System	Voltage	Type	Length in Feet	Color Temperature
SS3	24V	PIN	36	RGB

SS3 Soft Strip 2.6 watts per foot (max 36')
SS5 Soft Strip 5 watts per foot (max 20')

24V 24 Volt

PIN Pin Connector

1-36 Sold in 1 ft. increments

RGB Dynamic Color Red, Green, and Blue

System Requires Two Rows of LED Strip

PROJECT		FIXTURE TYPE		DATE	

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SOFT STRIP, RGB+WHITE
24VDC WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE
Pure Smart Lighting

0.47"
(12mm)

3.0"
(76.2mm)
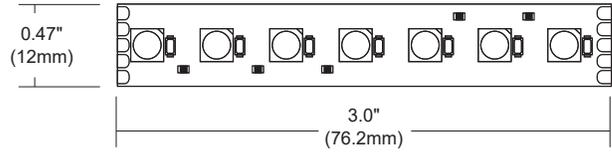
DESCRIPTION

PureEdge's RGB+White Soft Strip **(SS6)** provides dynamic color effects with red, green, blue plus white. Now offered with four choices of White; 2000K and special order in 2700K, 3000K, and 4000K. Our color-changing LED strip provides bright, continuous light, our focus on chromacity quality provides a balanced output across the color gamut, allowing the creation of millions of beautiful colors and pure white. The flexible strip is sold in 1 foot increments up to 16 ft with cutting increments every 3 inches. At 6.3 watts per foot, RGB+W can be controlled using a compatible 24 volt DC power supply with an integrated RGB DMX driver. SS6 includes a flexible aluminum heat sink to extend LED life. Includes 5 year pro-rated warranty.

SPECIFICATIONS

- 24VDC, Class 2
- Power Consumption: 6.3 watts per foot
- Sold in 1' increments
- Field-cuttable in 3" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

MOUNTING

Self-adhering SS6 mounts to most smooth finished surfaces with industrial strength 3M tape (provided on back of strip); some unfinished surfaces may require screw-in mounting clips **SS-MCL** (sold separately).

LAMP

- RGB+W: Dynamic Red, Green, Blue plus 2000K White
- Special order in 2700K, 3000K, and 4000K
- 50,000 Hour Lamp Life

MAXIMUM LENGTHS BEFORE RE-FEEDING

12WDC (2x6.3 watts per foot) 8'

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

24VDC, CLASS 2 WIRING

- Pure Smart™ WiZ Pro Power Supplies & Controls
- DMX Dynamic Color Changing
- Controllers

*In-Wall Mounting and drop ceiling Kits available for select power supplies
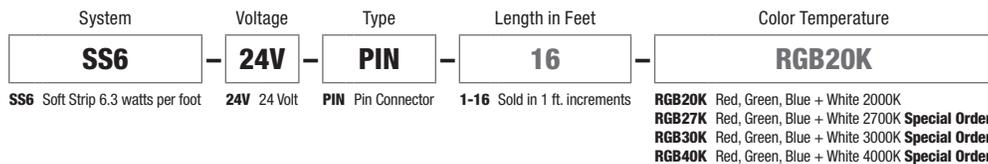
ACCESSORIES (SOLD SEPARATELY)

- 24VDC Power Connectors and Jumpers
- Flexible Connectors
- Mounting Straps & Clips

APPLICATIONS

Designed for any Indoor space, including Damp locations. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

APPROVALS

Damp Location, Class 2 wiring, RoHS, ETL Listed

| System		Voltage		Type		Length in Feet		Color Temperature
SS6	–	**24V**	–	**PIN**	–	**16**	–	**RGB20K**

System	Voltage	Type	Length in Feet	Color Temperature
SS6 Soft Strip 6.3 watts per foot	**24V** 24 Volt	**PIN** Pin Connector	**1-16** Sold in 1 ft. increments	**RGB20K** Red, Green, Blue + White 2000K
				RGB27K Red, Green, Blue + White 2700K **Special Order**
				RGB30K Red, Green, Blue + White 3000K **Special Order**
				RGB40K Red, Green, Blue + White 4000K **Special Order**

System Requires Two Rows of LED Strip

PROJECT		FIXTURE TYPE		DATE	

TRUCOLOR™ RGB & TUNABLE WHITE LED STRIP
24VDC, 5 CHANNEL CONTROL, WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA | PATENT PENDING

REV 10.19.23

PURE EDGE
Pure Smart Lighting

3" (76mm)

0.47" (12mm)
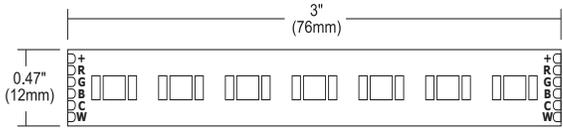
DESCRIPTION

Pure Smart by PureEdge TruColor™ technology uses five channels of tunable LEDs, composed of **RGBTW** red, blue, green, and Tunable White (**1500K-6500K**). With our precision-engineered, proprietary color mixing, we produce one of the widest, most accurate spectrums available, giving our customers access to the warm glow of the sunset (1500K-2400K golden hour) to the pure white light of the mid-day sun (5700K) and everything in between. TruColor™ LEDs achieve an average CRI-Color Rendering Index of 94+ and a Duv of +-0.0021 in relation to the blackbody curve at any point on the spectrum of tunable white CCT. Dynamic Color Changing functionality provides millions of possibilities for intricate customization, rich saturated secondary colors, and unprecedented ease of installation, making **RGBTW** the ideal choice for residential and commercial applications. TruColor™ **RGBTW** adds more than just decorative flexibility; it also helps to support a healthy Circadian Rhythm and well-being. Let TruColor™ transform your space and the people within it. 24VDC Pure Smart Remote Power Supplies required. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com.

FEATURES & BENEFITS

- State-of-the-Art TruColor (1500K-6500K) spectrum offers dynamic color effects with RGB and Tunable White
- Optimized for use with WiZ Pro wire control ecosystem and Pure Smart Wi-Fi Room Controller. DMX control are also available.
- Offered with pin connectors reducing time and labor during installation
- Dims from full brightness down to 0.1%, and tuned anywhere from 1500K to 6500K.
- Developed to meet popular demand for resilient performance without sacrificing output, color rendering and efficacy
- Tolerance: Created to resist damage in rigorous environments such as busy commercial jobsites
- Compact LED spacing: Produces uniform light distribution without visible diodes or hot spots when used within a diffused lens
- 3oz Layer of Copper Busbar per foot provides superior heat dissipation and less voltage drop equivalent to 14AWG wire
- Premium Coating: Optically Clear Silicone prevents fading over time
- Mounting: Industrial 3M tape lined strip for strong, self-adhesion to most smooth, finished surfaces
- Suitable for indoor damp locations

LUMEN PERFORMANCE

- TruColor™ **RGBTW** Red, Green, and Blue with Tunable White (**1500K-6500K**)

AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (5W7): 97+
- Average DUV (5W7): +-0.0002
- Average R9: 91, Rg: 102, Rf: 93
- Average life: 50,000 hours

SPECIFICATIONS

- 24VDC
- S5W5: 5W RGB & 5W Tunable White (5 watts total)
- S5W7: 5W RGB & 7W Tunable White (7 watts total)
- Sold in 1' increments
- Field-cuttable in 3" increments
- Maximum lengths before re-feeding: S5W5- 20ft, S5W7- 12ft
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

REMOTE POWER SUPPLIES, DIMMING & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

- Pure Smart™ WiZ Pro PSBR Power Supplies

Pure Smart™ PSBR Power Supply for Remote Bridgebox is developed to support Pure Smart TC TruColor RGBTW luminaires connected by WiZ Pro.

- Pure Smart™ Wi-Fi Controller

Features ON/OFF buttons, CCT and brightness control as well as four preset/custom scenes programmable in the WiZ app. Communicates via 2.4GHz Wi-Fi. No Hub needed. Voice control with Goggle Assistant, Alexa, Siri, Shortcuts, and IFTTT
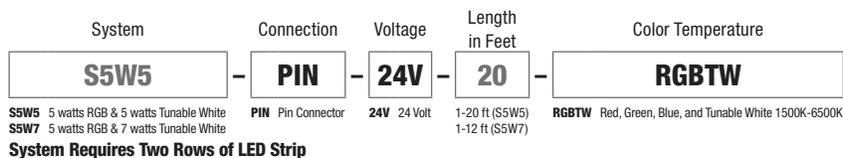
APPLICATIONS

Designed for indoor use only. Ideal applications for Residential, Commercial, Hospitality environments, and General Human Centric Lighting.

APPROVALS

Class 2 Wiring up to 100 watts, Indoor Damp Location, ETL listed, RoHS.
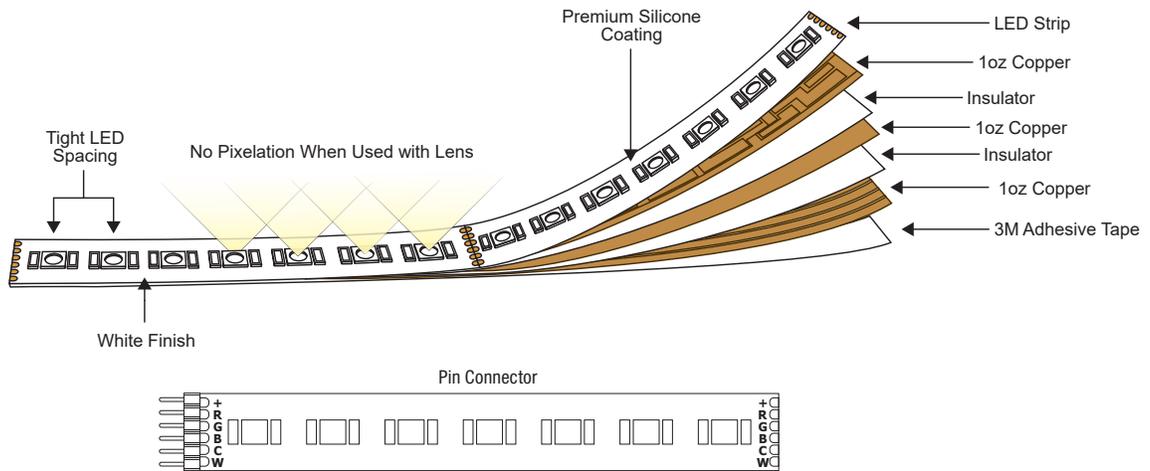
NOMINAL LAMP DATA																	
DESCRIPTION	S5W5 5W RGB & 5W TUNABLE WHITE									S5W7 5W RGB & 7W TUNABLE WHITE							
WATTS PER FOOT	5W Tunable White									7W Tunable White							
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	171	256	311	349	360	380	410	288	265	211	352	452	513	526	554	543	319	289
LUMENS PER WATT (lm/w)	63	56	71	82	85	87	98	98	111	63	91	73	86	86	90	93	92	96
CRI	92+	94+	95+	95+	96+	97+	97+	92+	90+	93+	95+	96+	97+	97+	98+	97+	95+	93+
Duv	-0.004	-0.0012	-0.0034	-0.0058	-0.0055	-0.0033	-0.0014	-0.0049	-0.0063	-0.003	0.0002	0.003	0.003	0.003	0.0009	0	0.003	0.003
Rf	90	90	90	94	97	97	91	81	70	91	90	90	94	95	93	93	79	67
Rg	91	93	94	94	95	94	94	92	90	92	93	95	95	95	95	94	92	91
R9	105	101	103	105	104	102	100	102	103	104	100	102	103	103	101	100	102	103
R13	92	94	95	95	94	96	99	90	87	92	95	96	96	97	99	99	91	88
R15	99	99	99	98	97	97	97	89	85	99	99	99	99	99	98	97	90	85
WATTS/FOOT	2.7	4.55	4.35	4.25	4.25	4.35	4.2	2.95	2.4	3.35	3.85	6.15	5.95	6.15	6.15	5.84	3.45	3

System	Connection	Voltage	Length in Feet	Color Temperature
S5W5	**PIN**	**24V**	**20**	**RGBTW**

S5W5 5 watts RGB & 5 watts Tunable White
S5W7 5 watts RGB & 7 watts Tunable White
System Requires Two Rows of LED Strip

PIN Pin Connector

24V 24 Volt

1-20 ft (S5W5)
1-12 ft (S5W7)

RGBTW Red, Green, Blue, and Tunable White 1500K-6500K

PROJECT		FIXTURE TYPE		DATE	

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TRUCOLOR™ RGB & TUNABLE WHITE LED STRIP
24VDC, 5 CHANNEL CONTROL

Premium Silicone Coating
LED Strip
1oz Copper
Insulator
1oz Copper
Insulator
1oz Copper
3M Adhesive Tape
Tight LED Spacing
No Pixelation When Used with Lens
White Finish

Pin Connector

S5W5 WATTS PER FOOT			
LENGTH IN FEET	RGB Wattage	Tunable White Wattage	Pure Smart™ wiz Pro Wattage
1	5	5	5
2	10	10	10
3	15	15	15
4	20	20	20
5	25	25	25
6	30	30	30
7	35	35	35
8	40	40	40
9	45	45	45
10	50	50	50
11	55	55	55
12	60	60	60
13	65	65	65
14	70	70	70
15	75	75	75
16	80	80	80
17	85	85	85
18	90	90	90
19	95	95	95
20	100	100	100

S5W7 WATTS PER FOOT			
LENGTH IN FEET	RGB Wattage	Tunable White Wattage	Pure Smart™ wiz Pro Wattage
1	5	7	7
2	10	14	14
3	15	21	21
4	20	28	28
5	25	35	35
6	30	42	42
7	35	49	49
8	40	56	56
9	45	63	63
10	50	70	70
11	55	77	77
12	60	84	84

PROJECT		FIXTURE TYPE		DATE	

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SOFT STRIP, MONOCHROMATIC COLOR
24VDC WITH PIN CONNECTORS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA | PATENT PENDING

PURE EDGE
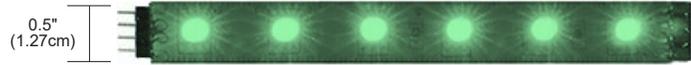Pure Smart Lighting

REV 10.19.23

RRR - Red

BBB - Blue

AAA - Amber

0.5"
(1.27cm)

GGG - Green

4"
(10.16cm)

DESCRIPTION

PureEdge Monochromatic Color Soft Strip provides dynamic color effects with monochromatic color LEDs. Offered in Red, Amber, Blue, and Green. The 1/2" wide flexible copper strip, with an optically clear protective coating, is sold in 1ft increments up to 36 ft with cutting increments every 4 inches. Self-adhering, our strip mounts to most smooth finished surfaces with the industrial strength 3M tape on the back. Our Soft Strip is used for our **BIY** (Build-it-Yourself) & **DIY** (Do-it-Yourself) fixtures and systems. Includes 5 year warranty.

SPECIFICATIONS

- 24VDC, Class 2
- Power Consumption: 5 or 10 watts per foot
- Sold in 1' increments
- Field-cuttable in 4" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- System requires two rows of LED strip

MOUNTING

Industrial 3M tape lines back of strip for self-adhesion to most smooth finished surfaces Additional Connectors, Mounting Straps, and Clips may be needed for some applications (sold separately).

ACCESSORIES (SOLD SEPARATELY)

- 24VDC Power Connectors and Jumpers
- Flexible Connectors
- Mounting Straps & Clips

LAMP

- Monochromatic Red, Amber, Blue, and Green
- 18 LEDs per foot
- 50,000 Hour Lamp Life

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5WDC (2x2.6 watts per foot) 20'
- 10WDC (2x5 watts per foot) 10'

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

24VDC, Class 2 wiring

- Pure Smart™ WiZ Pro Power Supplies & Controls
- UNI Driver: Universal Dimming **(TRIAC, ELV, 0-10V)**
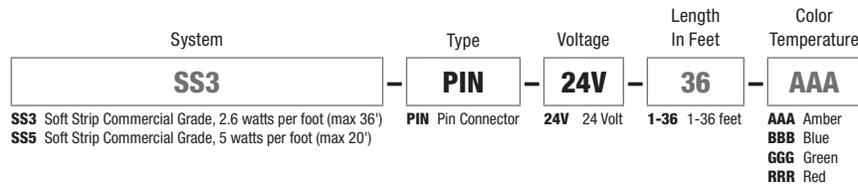- Lutron Hi-Lume/Ecosystem

*In-Wall Mounting Kits available for select power supplies

APPLICATIONS

Indoor and damp locations. Applications include coves, toe-kicks, under cabinets and shelving, bookcases, drawers, pathways, accent lighting, task lighting, and general illumination.

APPROVALS

Class 2 Wiring up to 100 watts, Damp Location Suitable, ETL listed.

System		Type	Voltage	Length In Feet	Color Temperature
SS3		**PIN**	**24V**	**36**	**AAA**

SS3 Soft Strip Commercial Grade, 2.6 watts per foot (max 36')
SS5 Soft Strip Commercial Grade, 5 watts per foot (max 20')

PIN Pin Connector

24V 24 Volt

1-36 1-36 feet

AAA Amber
BBB Blue
GGG Green
RRR Red

System Requires Two Rows of LED Strip

PROJECT		FIXTURE TYPE		DATE	

TRULINE TRIM 1.6A DIY
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
Pure Smart Lighting

LENGTH LOAD CHARTS: To determine the necessary wire gauge use our Voltage Drop Calculator.

5 WATTS PER FOOT (2 X 2.5W)

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	5	21	102
2	10	22	106
3	14	23	110
4	19	24	116
5	24	25	120
6	29	26	124
7	34	27	130
8	38	28	134
9	43	29	140
10	48	30	144
11	53	31	148
12	58	32	154
13	63	33	158
14	67	34	164
15	72	35	168
16	77	36	172
17	82	37	178
18	87	38	182
19	91	39	188
20	96	40	192

10 WATTS PER FOOT (2 X 4.4W)

LENGTH IN FEET	WATTS
1	10
2	19
3	29
4	38
5	48
6	58
7	67
8	77
9	86
10	96
11	106
12	116
13	124
14	134
15	144
16	154
17	164
18	174
19	182
20	192

12 WATTS PER FOOT (2 X 6.3W)

LENGTH IN FEET	WATTS
1	6
2	12
3	18
4	24
5	30
6	36
7	42
8	48
9	54
10	60
11	66
12	72
13	78
14	84
15	90
16	96

14 WATTS PER FOOT (2 X 7.3 OR 7.5W)

LENGTH IN FEET	WATTS
1	7.5
2	15
3	22.5
4	30
5	37.5
6	45

RGBTW S5W5 WATTS PER FOOT

LENGTH IN FEET	RGB Wattage	Tunable White Wattage	Pure Smart™ wiZ Pro Wattage	DMX Wattage
1	5	5	5	10
2	10	10	10	20
3	15	15	15	30
4	20	20	20	40
5	25	25	25	50
6	30	30	30	60
7	35	35	35	70
8	40	40	40	80
9	45	45	45	90
10	50	50	50	100
11	55	55	55	
12	60	60	60	
13	65	65	65	
14	70	70	70	
15	75	75	75	
16	80	80	80	
17	85	85	85	
18	90	90	90	
19	95	95	95	
20	100	100	100	

RGBTW S5W7 WATTS PER FOOT

LENGTH IN FEET	RGB Wattage	Tunable White Wattage	Pure Smart™ wiZ Pro Wattage
1	5	7	7
2	10	14	14
3	15	21	21
4	20	28	28
5	25	35	35
6	30	42	42
7	35	49	49
8	40	56	56
9	45	63	63
10	50	70	70
11	55	77	77
12	60	84	84

PROJECT		FIXTURE TYPE		DATE	

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TM30 DATA
DO-IT-YOURSELF, 24VDC LED SYSTEM

PURE EDGE
Pure Smart Lighting

TM-30-15 DATA: The data below is for bare LED Static White Strip. 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.
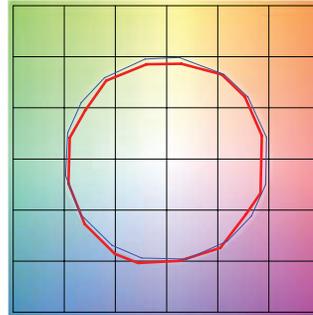
2400K | Rf: 84.5 | Rg: 94.4
Color Vector Graphic
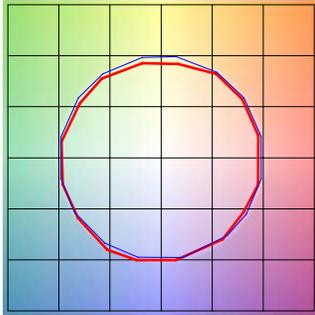
Test · Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92	-2.4%	1.5%
2	94.7	-2.1%	-0.0%
3	95.4	-1.9%	-0.1%
4	88.7	-6.7%	-3.1%
5	92.8	-5.6%	1.0%
6	92.7	-3.4%	3.4%
7	89.9	-4.3%	4.1%
8	92.4	-1.4%	4.4%
9	89	-0.6%	5.8%
10	88.9	0.4%	6.2%
11	89.7	4.0%	5.4%
12	92.6	3.0%	-0.7%
13	90.9	1.1%	-7.0%
14	89.9	0.5%	-5.8%
15	92.1	-3.2%	0.1%
16	88.9	-1.7%	-6.3%

2700K | Rf: 87.7 | Rg: 96.1
Color Vector Graphic

Test · Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
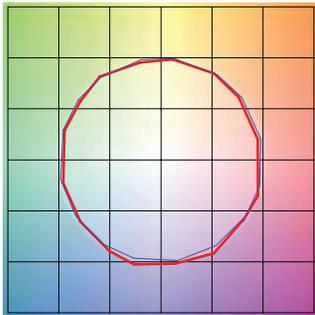
Test · Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
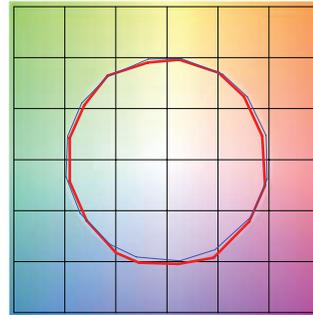
Test · Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

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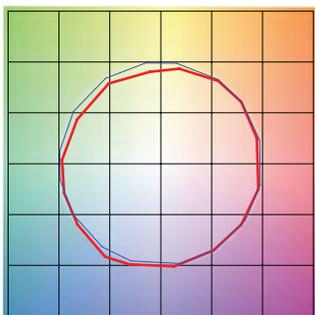
Test · Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.9	-2.4%	2.5%
2	93.3	-0.4%	0.8%
3	94.8	-1.0%	-0.6%
4	87.9	-4.9%	-3.6%
5	85.3	-9.4%	-2.6%
6	90.2	-6.0%	0.2%
7	85.3	-7.6%	4.6%
8	83.7	-4.1%	8.2%
9	79.5	-1.1%	13.8%
10	78.6	1.5%	12.1%
11	83.5	6.4%	7.8%
12	90.9	3.6%	-1.1%
13	88.3	1.7%	-6.3%
14	91.9	-0.4%	-2.2%
15	84.5	-0.9%	-5.5%
16	84.7	-1.1%	-4.4%

PROJECT		FIXTURE TYPE		DATE	

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TM-30-15 DATA: The data below is for bare LED Warm Dim Strip. 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.

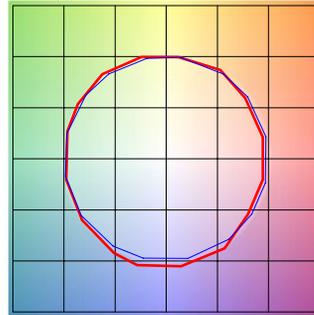**2700D** | Rf: 90.7 | Rg: 101.1

Color Vector Graphic
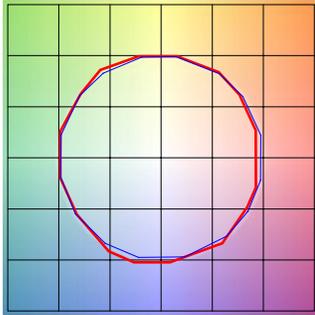
Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.9	-4.1%	1.1%
2	91.8	-2.2%	3.2%
3	89.0	0.2%	5.0%
4	92.9	-1.1%	0.8%
5	93.9	1.1%	1.7%
6	93.3	3.3%	0.0%
7	93.1	-0.5%	-1.9%
8	97.2	-0.3%	-0.9%
9	93.4	-1.0%	3.2%
10	89.9	-0.1%	5.6%
11	87.0	4.7%	7.2%
12	89.2	5.8%	-0.2%
13	89.1	3.5%	-6.7%
14	86.3	4.1%	-9.2%
15	91.4	-2.0%	-3.6%
16	84.7	-2.1%	-10.3%

3000D | Rf: 90.6 | Rg: 101.1

Color Vector Graphic

Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%

| PROJECT		FIXTURE TYPE		DATE	

TM30 DATA
DO-IT-YOURSELF, 24VDC LED SYSTEM

TM-30-15 DATA: The data below is for Tunable White bare LED Strip. 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/27K6) | Rf: 90.6 | Rg: 98.5
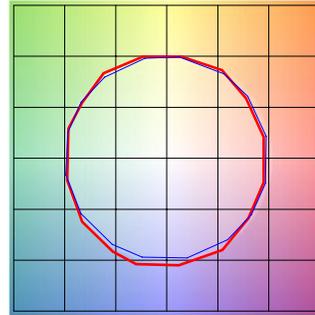Color Vector Graphic
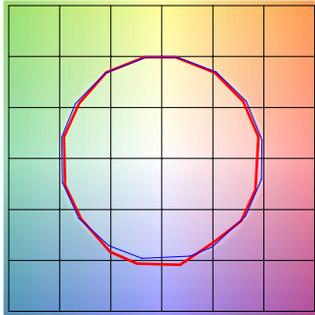
Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	87.7	-5.5%	1.2%
2	88.7	-3.9%	4.2%
3	90.5	-1.5%	4.3%
4	95.0	-1.7%	0.8%
5	95.2	-0.2%	2.1%
6	94.2	1.6%	1.9%
7	95.9	-0.8%	-2.2%
8	95.5	-1.7%	1.3%
9	93.8	-1.4	2.6%
10	91.9	-0.7%	4.2%
11	91.3	3.6%	3.7%
12	91.2	4.2%	-1.0%
13	86.6	3.8%	-12.7%
14	67.2	-3.0%	-16.3%
15	84.9	-3.3%	-9.4%
16	84.2	-5.7%	-7.5%

3000K (2K6K/27K6) | Rf: 90.5 | Rg: 100.7
Color Vector Graphic

Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	91.5	-3.5%	1.2%
2	92.4	-1.8%	2.7%
3	89.8	0.3%	4.5%
4	92.4	-1.7%	0.4%
5	93.3	-0.1%	1.4%
6	94.5	2.1%	-0.6%
7	91.0	-2.5%	0.3%
8	96.9	-0.8%	-0.2%
9	91.6	-0.9%	4.6%
10	86.7	0.7%	7.8%
11	86.3	3.8%	8.5%
12	88.3	6.1%	0.6%
13	90.9	3.1%	-5.2%
14	87.3	4.7%	-7.9%
15	92.1	-1.9%	-2.5%
16	84.5	-0.9%	-10.9%

4000K ONLY (2K6K/27K6) | Rf: 86.4 | Rg: 96.1
Color Vector Graphic
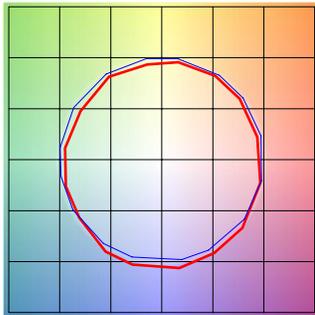
Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	86.5	-5.5%	1.3%
2	90.4	-3.0%	2.3%
3	89.8	-2.1%	3.6%
4	89.1	-3.4%	0.4%
5	88.5	-5.9%	0.1%
6	93.6	-3.0%	-0.4%
7	88.9	-6.2%	1.7%
8	87.3	-5.0%	4.9%
9	82.4	-3.6%	11.3%
10	77.4	-1.8%	12.7%
11	79.8	4.9%	11.4%
12	88.7	4.4%	2.7%
13	88.7	4.0%	-5.1%
14	91.2	2.2%	-3.8%
15	82.7	-0.1%	-9.2%
16	82.8	-2.2%	-7.6%

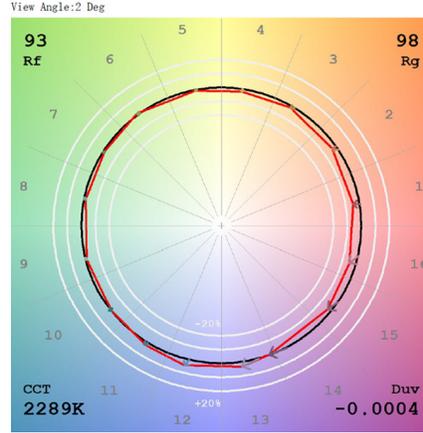| PROJECT		FIXTURE TYPE		DATE	

TM30 DATA
DO-IT-YOURSELF, 24VDC LED SYSTEM

TM-30-15 DATA: The data below is for TruColor™ RGBTW (S5W7) bare LED 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.
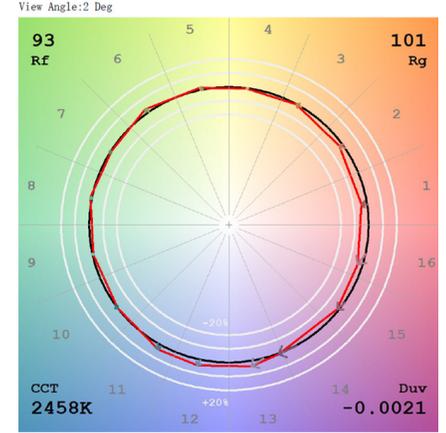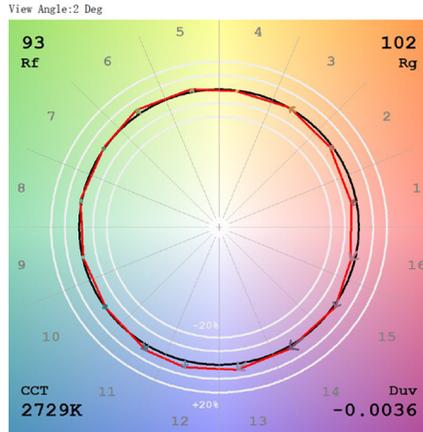
2000K (TruColor™ RGBTW)

View Angle:2 Deg

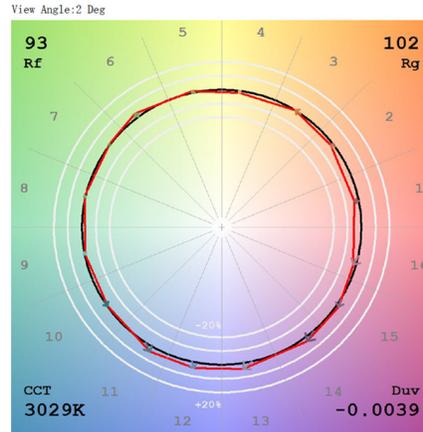| 91 Rf		103 Rg
CCT 2056K		Duv -0.0029

2200K (TruColor™ RGBTW)

View Angle:2 Deg

93 Rf		98 Rg
CCT 2289K		Duv -0.0004

2400K (TruColor™ RGBTW)

View Angle:2 Deg

93 Rf		101 Rg
CCT 2458K		Duv -0.0021

2700K (TruColor™ RGBTW)

View Angle:2 Deg

93 Rf		102 Rg
CCT 2729K		Duv -0.0036

3000K (TruColor™ RGBTW)

View Angle:2 Deg

93 Rf		102 Rg
CCT 3029K		Duv -0.0039

3500K (TruColor™ RGBTW)

View Angle:2 Deg

93 Rf		100 Rg
CCT 3519K		Duv -0.0029

4000K (TruColor™ RGBTW)

View Angle:2 Deg

91 Rf		98 Rg
CCT 4068K		Duv -0.0005

5700K (TruColor™ RGBTW)

View Angle:2 Deg

91 Rf		100 Rg
CCT 5734K		Duv 0.0000

6500K (TruColor™ RGBTW)

View Angle:2 Deg

90 Rf		99 Rg
CCT 6523K		Duv 0.0001

PROJECT		FIXTURE TYPE		DATE	