

# VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE

## 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 04.29.24



### DESCRIPTION

Verge Corner is another innovative design from PureEdge's family of 24VDC plaster-in systems, continuing to redefine the relationship between lighting and architecture. Verge Corner mounts directly to studs and joists without modification because it recesses within 5/8" or thicker drywall. The slim plaster-in aluminum channel has a 4" paintable backer plate creating visually interesting and dramatic illumination by highlighting the inside Corners of two drywall surfaces such as ceiling, coves, and skylights. Field-cuttable, Verge Corner is ordered in 1' increments up to 20'. The power feeds a 6 pin connector that will be wired with a 6 conductor cable to the remote Pure Smart Power Supply. Remote PSBB Power Supply with Integral Bridgebox is required. (PSBB-96W-WZ-TC5W5-RL sold separately) Verge brings together a Modern and Dynamic appearance to Residential and Commercial environments, offering unlimited creativity and empowering you to design One-of-a-kind spaces every time. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send drawings to [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### SPECIFICATIONS

- 24VDC
- 5W5: 2x5W RGB & 2x5W Tunable White, 10 watts total
- 5W7: 2x5W RGB & 2x7W Tunable White, 14 watts total
- Maximum lengths before re-feeding: 5W5 – 20 ft, 5W7 – 12 ft

### INCLUDED COMPONENTS

(2) Junction Boxes, Adjustable Mounting Bars, Corner Backer Plate, (2) Verge Corner Channels, Drywall Screws, (2) LED Strips, and (2) Lenses

### DESIGN NOTE

Verge Corner is installed on flat surfaces that form inside corners, coves, windows, and skylights. Ambient and harmonious, the plaster-in LED system blends into 5/8" thick drywall to enhance the contemporary aesthetic of interior spaces. Verge offers unsurpassed precision and flexibility that transforms spaces into thoughtful and refined works of art.

### APPLICATIONS

Indoor damp or dry locations only. Ideal for inside corners of drywall surfaces such as Walls and Ceilings, Coves, Windows and Skylights in Residential, Commercial, Retail and Hospitality environments.

### TRUCOLOR™ RGB & TUNABLE WHITE TECHNOLOGY

Pure Smart 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™ LED's achieve an average CRI-Color Rendering Index of 94+ and a Duv of +/-0.0046 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. [Click here for all Other Color Temperatures](#).

### LUMEN PERFORMANCE

- TruColor™ RGBTW Red, Green & Blue with Tunable White (**1500K-6500K**)
- 5W5 260LM/FT 10W @3000K
- 5W7 379LM/FT 14W @3000K

### AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (5W7): 94+
- Average DUV (5W7): +/-0.004
- Average R9: 91, Rg: 102, Rf: 93
- Average life: 50,000 hours

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

24VDC, Class 2 wiring

- Pure Smart™ WiZ Pro PSBB [Power Supplies](#) & [Smart Controls](#)
- Pure Smart™ WiZ Pro PSBR [Power Supplies](#) & [Smart Controls](#)

### COMPLIANCE

ETL, Class 2, Damp Location, Made in USA.

PureEdge is the Original Designer of 5/8" Drywall Products, Backed by Over 30 Years of Precision Manufacturing and Design.

System	Watts Per Foot	Length in Feet	Color Temperature
<b>VGCO</b>	<b>10W10</b>	<b>1-20FT</b>	<b>TC</b>
VGCO Verge Corner	10W10 2x5watts RGB & 2x5 watts Tunable White 10W14 2x5watts RGB & 2x7 watts Tunable White	1-20FT (5W5) 1-12FT (5W7)	TC TruColor™ RGBTW, Red, Green, Blue & Tunable 1500K-6500K

PROJECT		FIXTURE TYPE		DATE	
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# VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE

## 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

### NOMINAL DELIVERED LUMENS

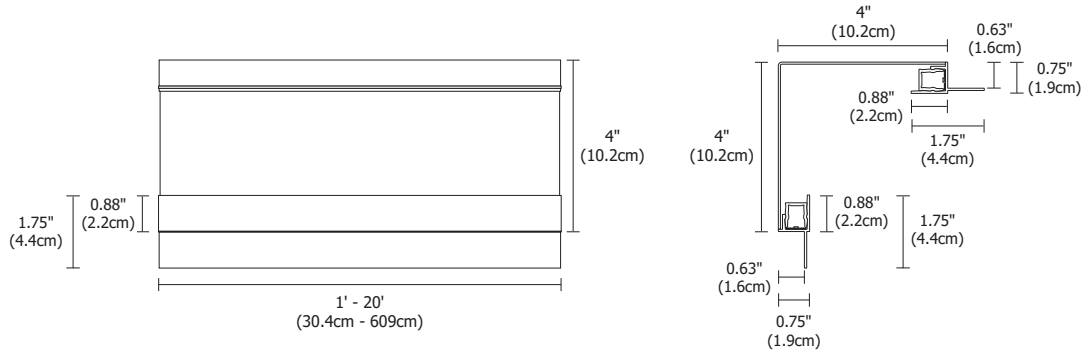
DESCRIPTION	2X5W5 5W RGB & 5W TUNABLE WHITE									2X5W7 5W RGB & 7W TUNABLE WHITE								
WATTS PER FOOT	10W Tunable White									14W Tunable White								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	123	184	224	251	260	274	296	208	191	152	253	325	369	379	399	391	229	208
LUMENS PER WATT (lm/w)	46	41	51	59	61	63	70	70	80	45	66	53	62	62	65	67	66	69
CRI	91.8	93.8	94.5	94.9	95.5	96.9	97.2	92.1	89.8	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

**LENGTH LOAD CHARTS:** To determine the necessary wire gauge use our [Voltage Drop Calculator](#).

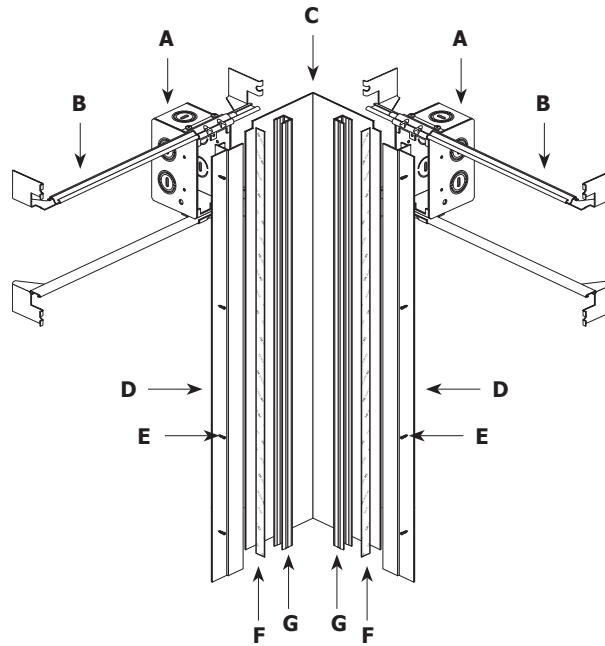
Length in Feet	5W5 WITH 2 POWER SUPPLIES (WATTS)	5W5 WITH 1 POWER SUPPLY (WATTS)	5W7 WITH 2 POWER SUPPLIES (WATTS)	5W7 WITH 1 POWER SUPPLY (WATTS)
1	5	10	7	14
2	10	20	14	28
3	15	30	21	42
4	20	40	28	56
5	25	50	35	70
6	30	60	42	84
7	35	70	49	
8	40	80	56	
9	45	90	63	
10	50	100	70	
11	55		77	
12	60		84	
13	65			
14	70			
15	75			
16	80			
17	85			
18	90			
19	95			
20	100			

PROJECT		FIXTURE TYPE		DATE	
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# VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL



## INCLUDED COMPONENTS



### 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 the channel, and required at the beginning of each run.

### B. ADJUSTABLE MOUNTING BARS

Provide flexibility for mounting in a variety of spaces. Verge Corner includes two sets of mounting hardware.

### C. BACKER PLATE

4" paintable aluminum plates conceal junction box and reflect light.

### D. VERGE CHANNEL

Two 5/8" deep extrusions each house a single row of LED Strip.

### E. DRYWALL SCREWS

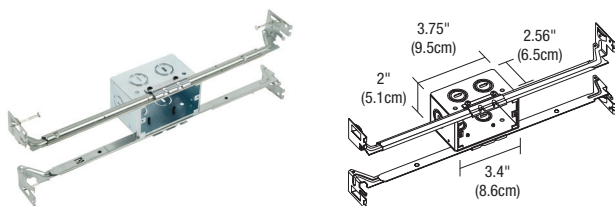
Secure channels to drywall and studs.

### F. LED STRIP

Commercial-grade White or Dynamic Color Changing LED Strip. See lamp data for additional details.

### G. LENS

0.6" wide Diffused White lens projects a clean line of light without pixelation. Verge Corner includes two lenses.



### JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with Verge Ceiling. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

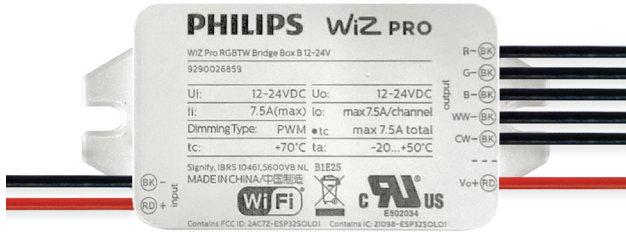
System	Size	Component
<b>VG</b>	<b>1RE</b>	<b>JBOX</b>
VG Verge	1RE 1" Rectangle	JBOX Junction Box

PROJECT		FIXTURE TYPE		DATE	
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## 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

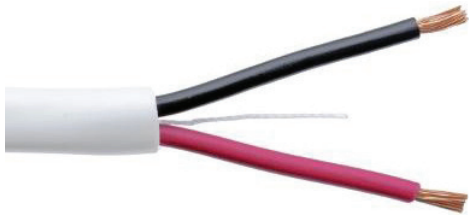
### REPLACEMENT PARTS



#### PURE SMART/WIZ PRO UR BRIDGEBOX

WIZ Pro UR Bridgebox is included with 4" Square Junction for TBar ceilings and allows for integration into the WIZ Pro wireless control ecosystem. The part numbers below are to be used for replacement only. Pure Smart/WIZ Pro UR Bridgeboxes are pre-programmed with Pure Smart app icons, and proprietary color mixing for tunable white and RGBTW.

Product	Wattage	Color Temperature Options	System
<b>BRBOX</b>	<b>UR96W</b>	<b>TC5W5</b>	<b>RL</b>
BRBOX Bridgebox	UR96W 96 Watts	TC5W5 TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White TC5W7 TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White	RL Recessed Linear



#### 14/2 PLENUM RATED CABLE

White 14 AWG , 2 Conductors with CMP-Plenum rated jacket and 99.99% OFC stranded bare copper. Necessary from Remote Power Supply to fixture up to 40' away. Cable sold by the foot.

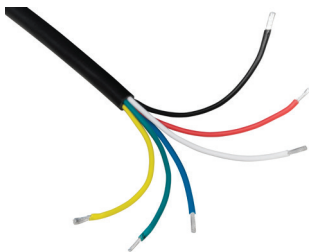
Product	Gauge Size	Conductors
<b>PLEN</b>	<b>14G</b>	<b>2C</b>
PLEN Plenum Cable	14G 14 Gauge	2C 2 Conductors



#### POWER FEED/FLEXIBLE CONNECTOR

Included with Center Feed Power components. Part numbers listed below to be used for replacements only. For use with Static White, Warm Dim, Tunable White, RGB and Monochromatic color temperatures. Flexible 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
<b>SS</b>	<b>FE</b>	<b>CON</b>	<b>LBL</b>	<b>6IN</b>	<b>RGBTW</b>
SS Stomp Strip/ Soft Strip	FE Female Pins	CON Connector	LBL Flexible 90° Left LBR Flexible 90° Right	6IN 6 inches	RGBTW TruColor™ RGBTW (RGB + Tunable White 1500k-6500K)



#### WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 6 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
<b>OC</b>	<b>14G</b>	<b>6C</b>
OC Outdoor Cable	14G 14 Gauge	6C 6 Conductor

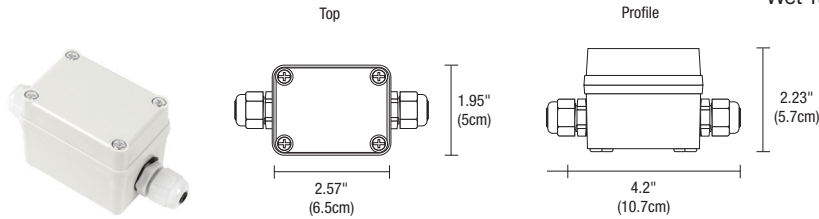
PROJECT		FIXTURE TYPE		DATE	
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# **VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE** **24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL**

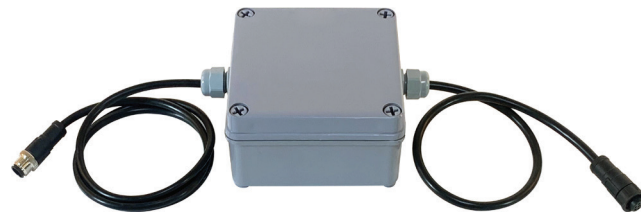
## REPLACEMENT PARTS

### WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.

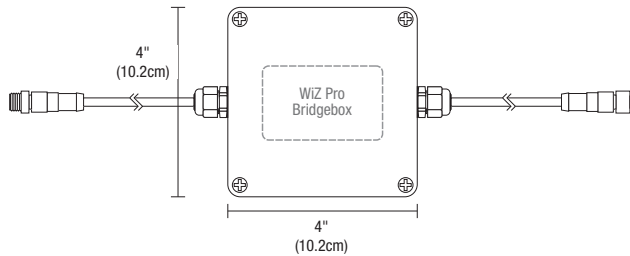


Product	Type	Option
<b>2RE</b>	<b>JBOX</b>	<b>W</b>
2RE 2" Rectangle	JBOX Junction Box	W Wet Location

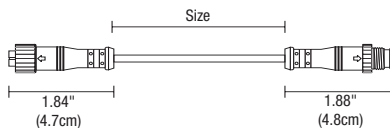


### PURE SMART WET LOCATION JUNCTION BOX WITH 8FT POWER CABLE AND WIZ PRO UR BRIDGEBOX

This watertight Junction Box is especially designed for lighting in wet and damp locations. The Junction Box comes standard with a 8ft of outdoor cable and both male and female barrel connectors providing easy, safe, and reliable connections for 24V low voltage luminaires. Included with the Junction Box is one WiZ Pro type Bridgebox allowing for 5 Channel wireless control of the TruColor RGBTW luminaire. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.



Product	Type	Wattage	Controls	Type	Option	System
<b>BR</b>	<b>JBC</b>	<b>96W</b>	<b>WZ</b>	<b>TC5W5</b>	<b>W</b>	<b>FN</b>
BR Bridgebox for LED Soft Strip and Flex Neon	JBC Outdoor Junction Box with two Barrel Connectors, 4 conductor input and 6 conductor output.	96W 96 Watts	WZ Wiz Connected Bridgebox Included	TC5W5 5 Watts RGB & 5 Watts Tunable White TC5W7 5 Watts RGB & 7 Watts Tunable White	W Wet Location	FN Flex Neon



### RGBTW 24VDC POWER OUTPUT CABLE 6 PIN CONNECTOR WET LOCATION

The flexible power cable connector is designed to provide a safe and reliable waterproof connection between the output of the Pure Smart/WiZ Pro Bridgebox and the Flex Neon Channel with 6 pin barrel connectors. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Color Temperature	Option
<b>SS</b>	<b>CFX</b>	<b>12IN</b>	<b>RGBTW</b>	<b>W</b>
SS Soft Strip and Flex Neon	CFX Flexible 6 Wire Connector	12IN 12" 96IN 96"	RGBTW TruColor Red, Green, Blue & Tunable White	W Wet Location

PROJECT		FIXTURE TYPE		DATE	
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# VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

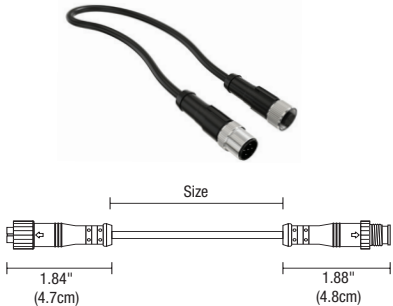
## REPLACEMENT PARTS



### RGBTW 24VDC POWER OUTPUT CABLE 6 PIN T-CONNECTOR WET LOCATION

Our 6 Pin RGBTW Wet Location T-Connector is a robust rugged design especially suited to withstand the channels of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.

Product	Type	Color Temperature	Option
<b>SS</b>	<b>TC</b>	<b>RGBTW</b>	<b>W</b>
<b>SS</b> Soft Strip and Flex Neon	<b>TC</b> T-Connector	<b>RGBTW</b> TruColor Red, Green, Blue & Tunable White	<b>W</b> Wet Location



### 24VDC INPUT POWER 4 PIN CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to provide a safe and reliable waterproof connection between the output of the 24V power supply and the input of the Pure Smart/WiZ Pro Bridgebox with 4 pin barrel connectors. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Option
<b>SS</b>	<b>CFX</b>	<b>12IN</b>	<b>W</b>
<b>SS</b> Soft Strip and Flex Neon	<b>CFX</b> Flexible 4 Wire Connector for 24VDC input side on Bridge box	<b>12IN</b> 12" <b>96IN</b> 96"	<b>W</b> Wet Location



### 24VDC INPUT POWER 4 PIN CABLE T-CONNECTOR WET LOCATION

Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.

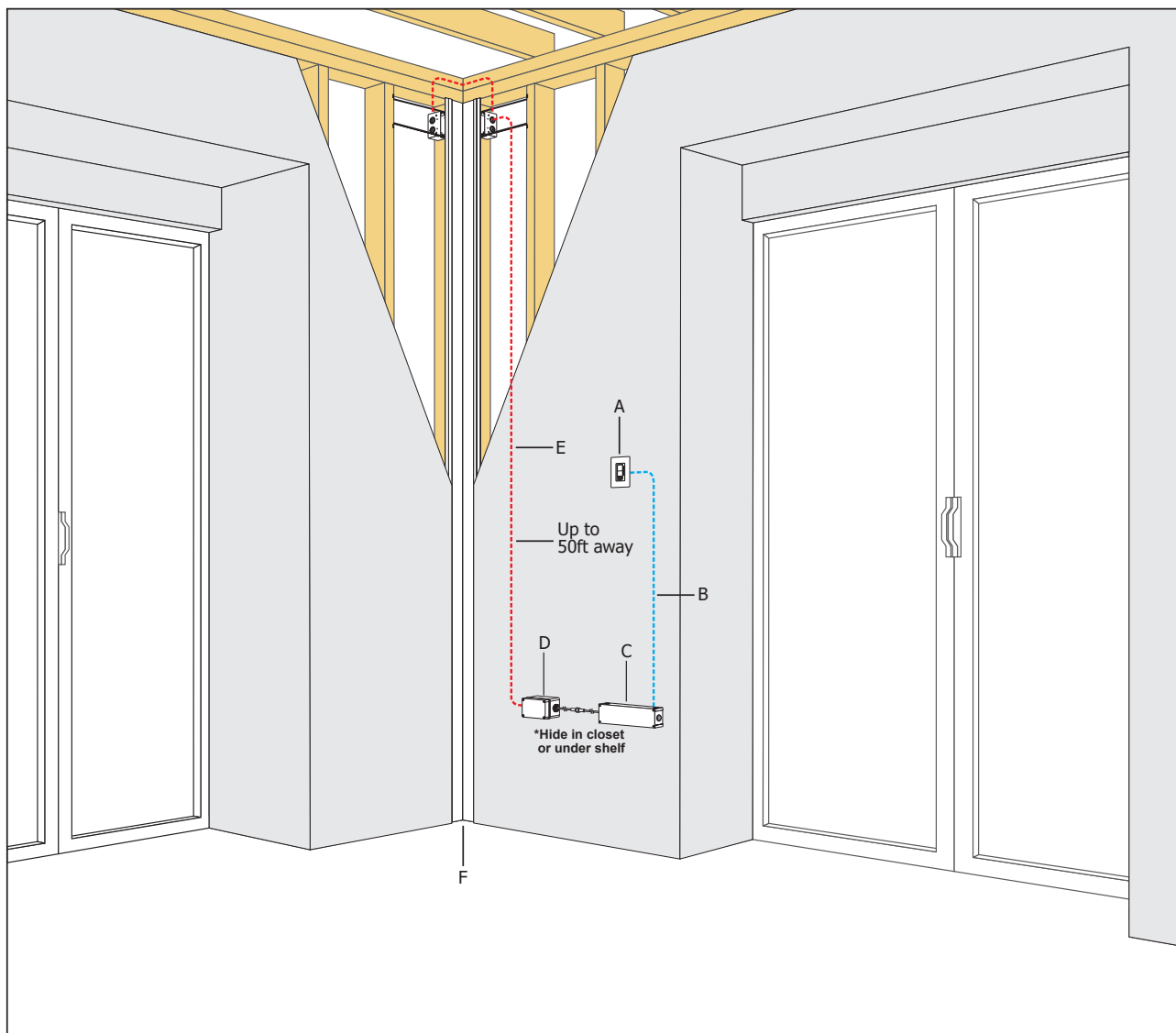
Product	Type	Option
<b>SS</b>	<b>TC</b>	<b>W</b>
<b>SS</b> Soft Strip and Flex Neon	<b>TC</b> T-Connector	<b>W</b> Wet Location

PROJECT		FIXTURE TYPE		DATE	
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# **VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE** 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

## INSTALLATION

REV 04.29.24



**A. PURE SMART WALL CONTROLLER**

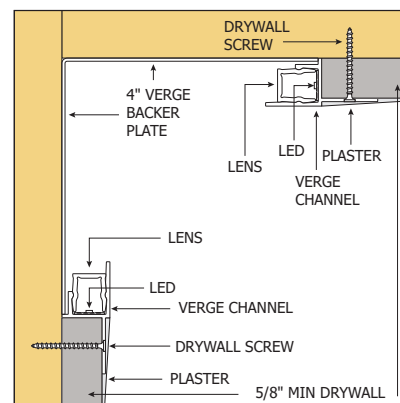
**B. 120V**

**C. 120V-24V CLASS 2 POWER SUPPLY\***

**D. PURE SMART WIZ CONTROLLED BRIDGEBOX\***

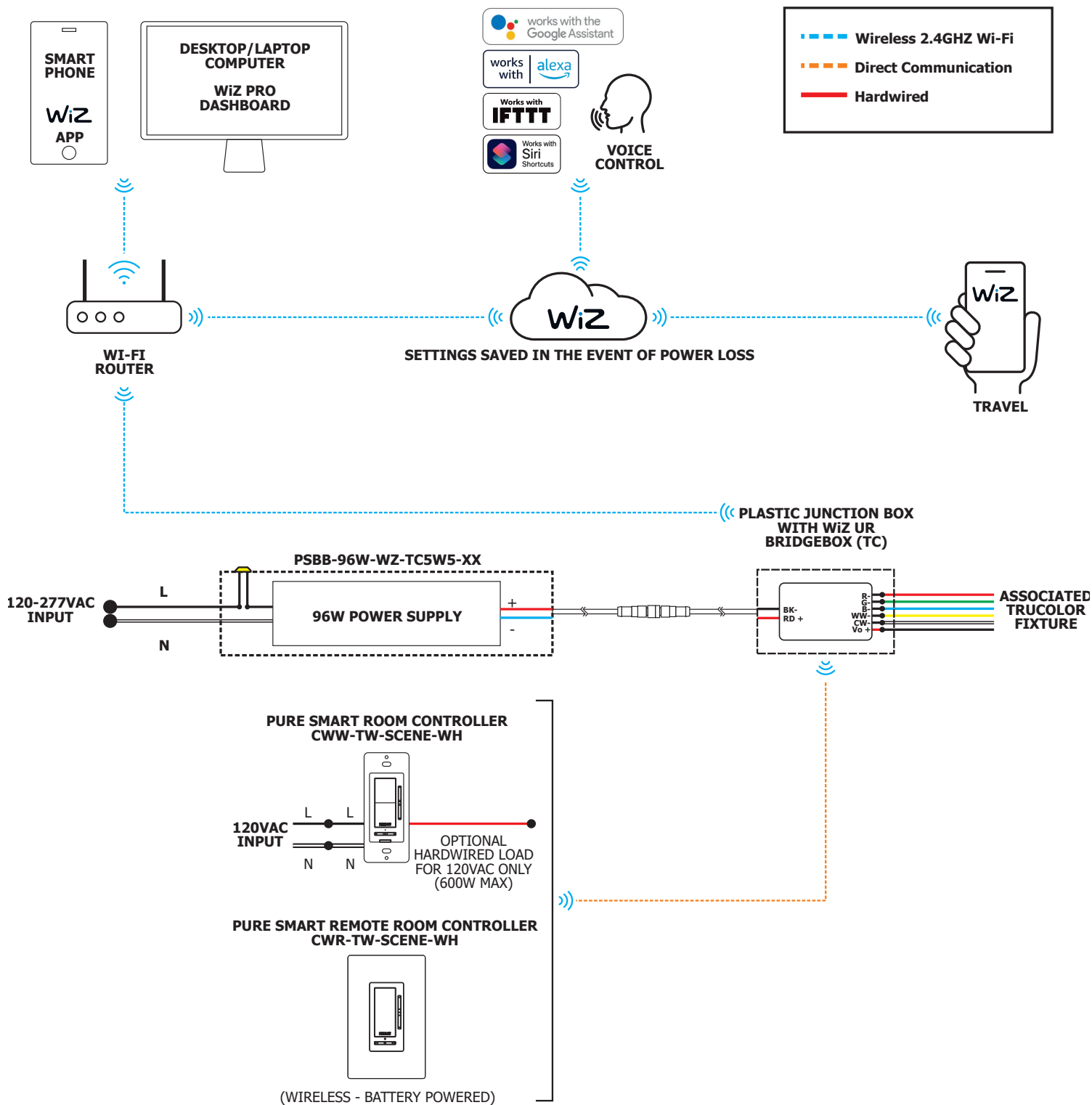
**E. 6 CONDUCTOR CABLE TO JUNCTION BOX**

**F. VERGE CORNER**



PROJECT		FIXTURE TYPE		DATE	
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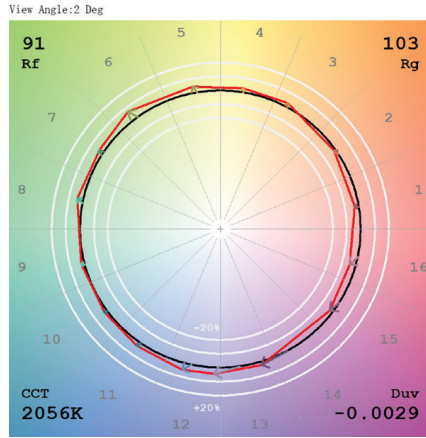
PROJECT		FIXTURE TYPE		DATE	
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# CEILING TM30 DATA

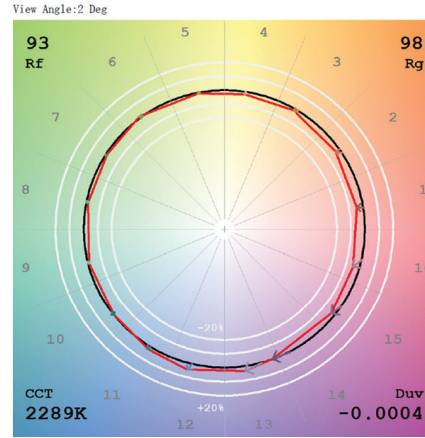
24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

**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.

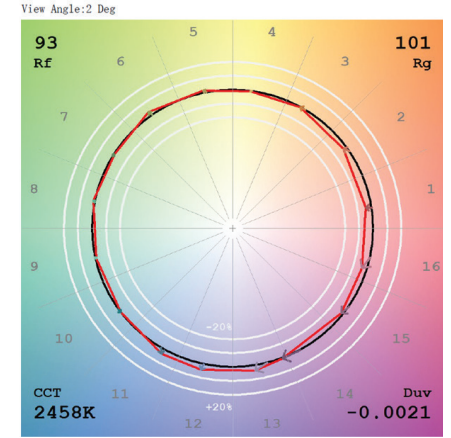
## 2000K (TruColor™ RGBTW)



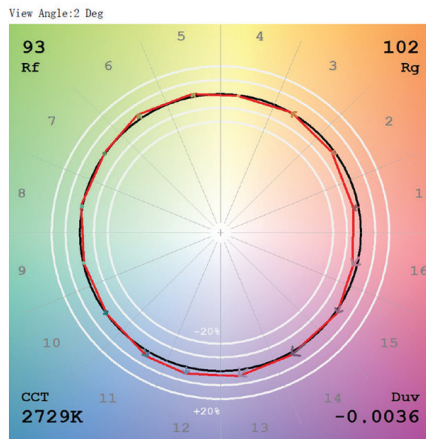
## 2200K (TruColor™ RGBTW)



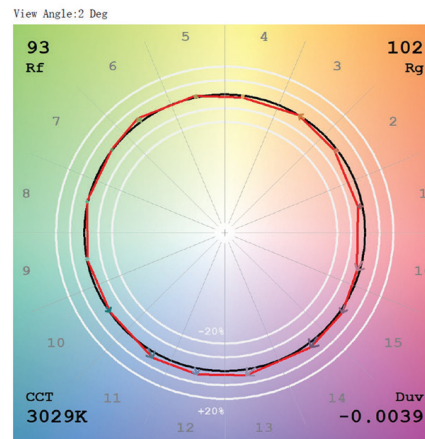
## 2400K (TruColor™ RGBTW)



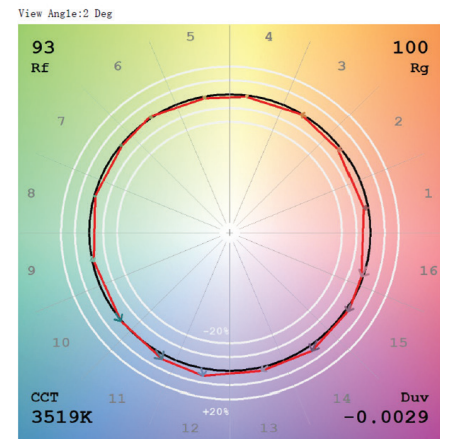
## 2700K (TruColor™ RGBTW)



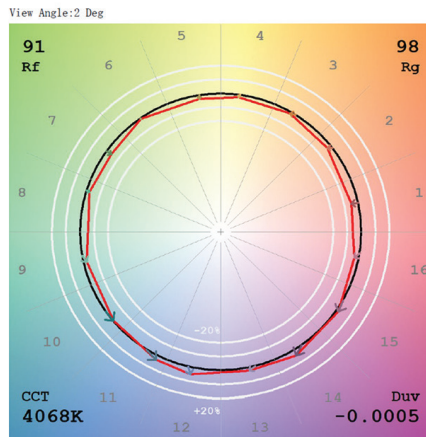
## 3000K (TruColor™ RGBTW)



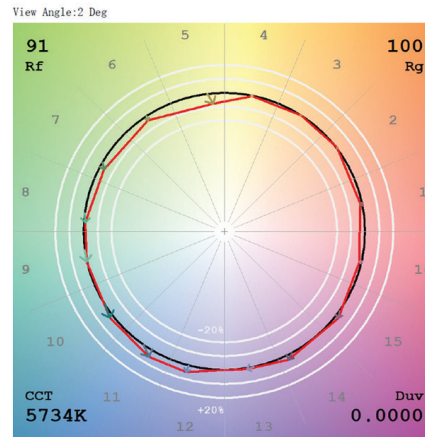
## 3500K (TruColor™ RGBTW)



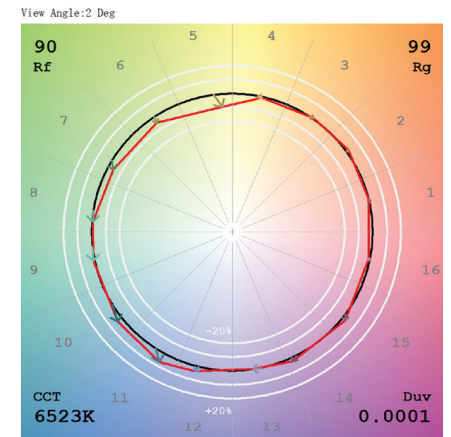
## 4000K (TruColor™ RGBTW)



## 5700K (TruColor™ RGBTW)



## 6500K (TruColor™ RGBTW)



PROJECT		FIXTURE TYPE		DATE	
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