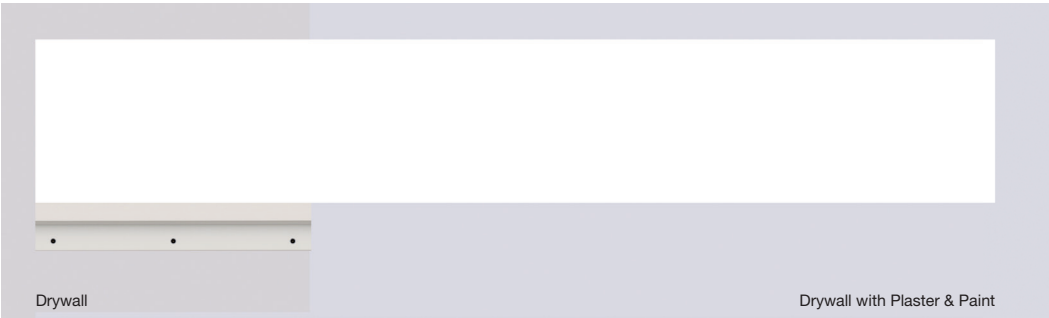
VERGE WALL TRUCOLOR™ RGB & TUNABLE WHITE

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

DESIGNED BY GREGORY KAY | MADE IN AMERICA

REV 04.17.24



Drywall

Drywall with Plaster & Paint

Recesses into 5/8" Drywall

DESCRIPTION

Verge Wall is another innovative design from PureEdge's family of 24VDC plaster-in systems, continuing to redefine the relationship between lighting and architecture. Verge Wall 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 Wall is ordered in 1' increments up to 20'. Included with the RGBTW Complete Fixture ordering code is a 6 pin connector that will be wired with a 6 conductor cable to a remote PSBB power supply with WiZ Pro UR Bridgebox allowing for integration into the WiZ Pro wireless control ecosystem. 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. Remote Power supplies are required and sold separately. 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 .

DESIGN NOTE

Verge Wall may be installed on a single surface for Toe-Kick and Cove lighting applications. 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 flexibility that transforms interiors into thoughtful, unique works of art.

INCLUDED COMPONENTS

Junction Box with Adjustable Mounting Bars, Backer Plate, Verge Wall Channel(s), Drywall Screws, LED Strip, and Lens(es)

APPLICATIONS

Indoor damp or dry locations only. Wall Mount for use as Cove lighting or use at the Floor for Floating Wall effects. Ideal applications include Residential, Commercial, Retail, and Hospitality environments.

COMPLIANCE

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

For quick & easy reference, plus the most up-to-date pricing, use our Verge Wall Configurator.

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 97+ and a Duv of +-.002 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 130LM/FT 5W @3000K
- 5W7 189LM/FT 7W @3000K

AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (5W7): 97+
- Average DUV (5W7): +-0.002
- 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

Pure Smart™ PSBB 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

- Pure Smart™ Battery Remote Wi-Fi Controller

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
VG	–	5W5	–	20FT	–	TC
VG Verge Wall		**5W5** 5 watts RGB & 5 watts Tunable White **5W7** 5 watts RGB & 7 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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NOMINAL DELIVERED LUMENS

DESCRIPTION	**5W5 5W RGB & 5W TUNABLE WHITE**									**5W7 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)	62	92	112	126	130	137	148	104	96	76	127	163	185	189	199	195	115	104	
LUMENS PER WATT (lm/w)	23	20	26	30	31	31	35	35	35	23	33	26	31	31	32	33	33	33	
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	2.75	3.35	3.85	6.15	5.95	6.15	6.15	5.84	3.45	3.2	

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

5W5 WATTS PER FOOT			
Length In Feet	**RGB Wattage**	**Tunable White Wattage**	**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

5W7 WATTS PER FOOT			
Length In Feet	**RGB Wattage**	**Tunable White Wattage**	**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

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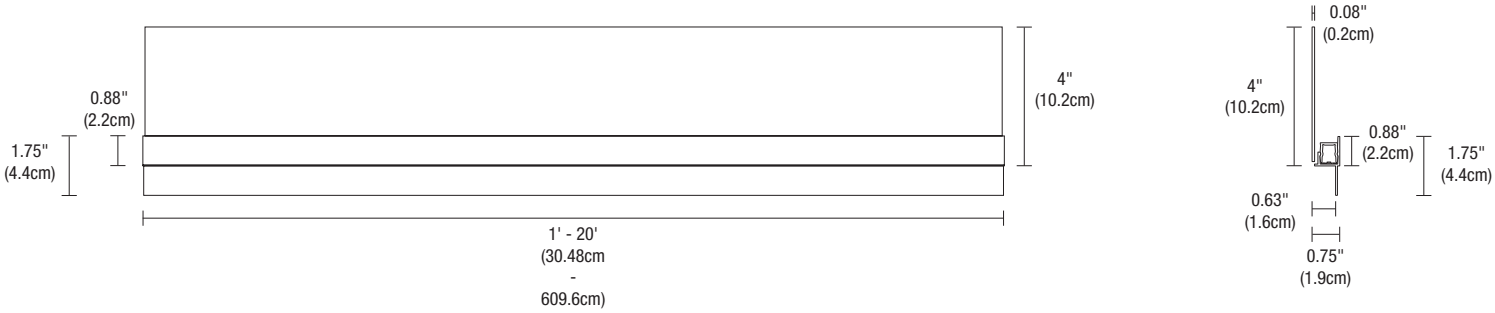
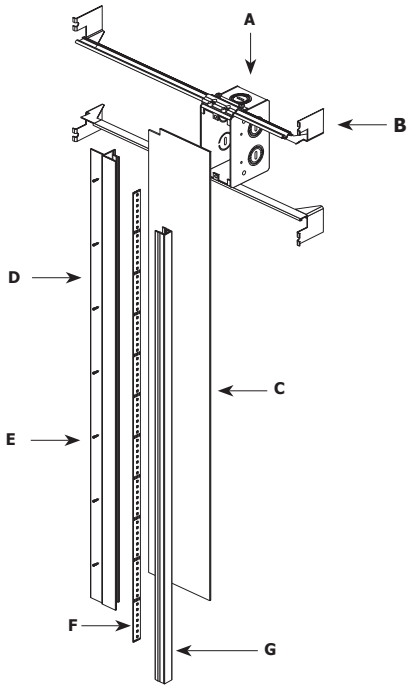


INCLUDED COMPONENTS



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.

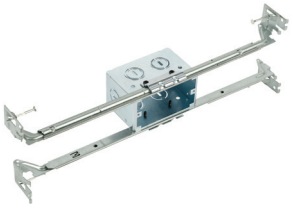
C. BACKER PLATE
4" paintable aluminum plate that conceals Junction Box and reflects light.

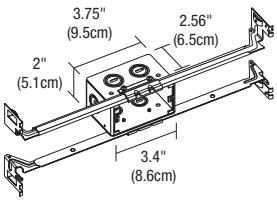
D. VERGE CHANNEL
5/8" deep extrusion houses a single row of LED Strip.

E. DRYWALL SCREWS
Secures channel to drywall and stud.

F. LED STRIP
Your selection of LED Strip CCT.

G. LENS
0.6" wide diffused lens projects a clean line of light without LED pixelation.





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
VG	1RE	JBOX
VG Verge	1RE 1" Rectangle	JBOX Junction Box

PROJECT		FIXTURE TYPE		DATE	

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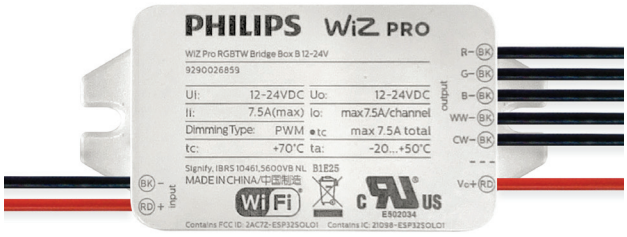
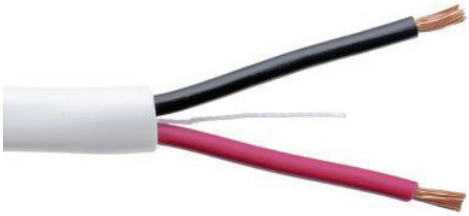
REPLACEMENT PARTS



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.

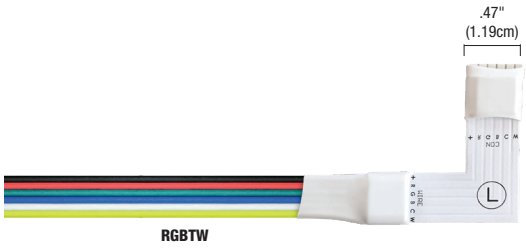
Product		Wattage		Color Temperature Options		System
BRBOX	–	**UR96W**	–	**TC5W5**	–	**RL**
BRBOX Bridgebox		**UR96W** 96 Watts		**TC5W5** TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White		**RL** Recessed Linear



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.

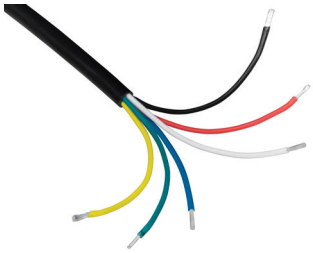
Product		Gauge Size		Conductors
PLEN	–	**14G**	–	**2C**
PLEN Plenum Cable		**14G** 14 Gauge		**2C** 2 Conductors



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
SS	-	**FE**	-	**CON**	-	**LBL**	-	**6IN**	-	**RGBTW**
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
OC	–	**14G**	–	**6C**
OC Outdoor Cable		**14G** 14 Gauge		**6C** 6 Conductor

PROJECT		FIXTURE TYPE		DATE	

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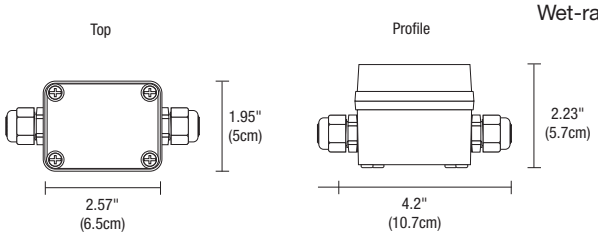
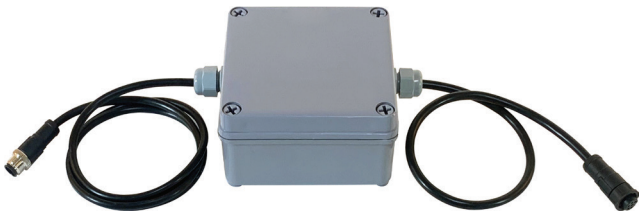
REPLACEMENT PARTS

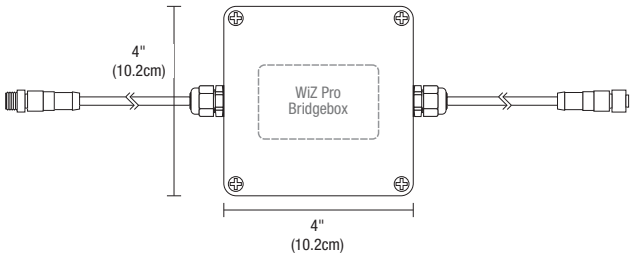


WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.

Product	Type	Option
2RE	JBOX	W
2RE 2" Rectangle	**JBOX** Junction Box	**W** Wet Location

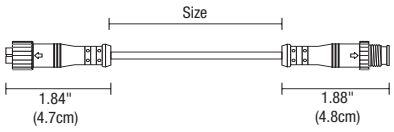




PURE SMART WET LOCATION JUNCTION BOX WITH 8FT POWER CABLE AND WIZ PRO UR BRIDGEBOX

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
BR	JBC	96W	WZ	TC5W5	W	FN
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
SS	CFX	12IN	RGBTW	W
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

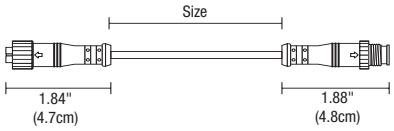
PROJECT		FIXTURE TYPE		DATE	

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
SS	–	**TC**	–	**RGBTW**	–	**W**
SS Soft Strip and Flex Neon		**TC** T-Connector		**RGBTW** TruColor Red, Green, Blue & Tunable White		**W** 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
SS	–	**CFX**	–	**12IN**	–	**W**
SS Soft Strip and Flex Neon		**CFX** Flexible 4 Wire Connector for 24VDC input side on Bridge box		**12IN** 12" **96IN** 96"		**W** 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
SS	–	**TC**	–	**W**
SS Soft Strip and Flex Neon		**TC** T-Connector		**W** Wet Location

PROJECT		FIXTURE TYPE		DATE	

VERGE WALL TRUCOLOR™ RGB & TUNABLE WHITE

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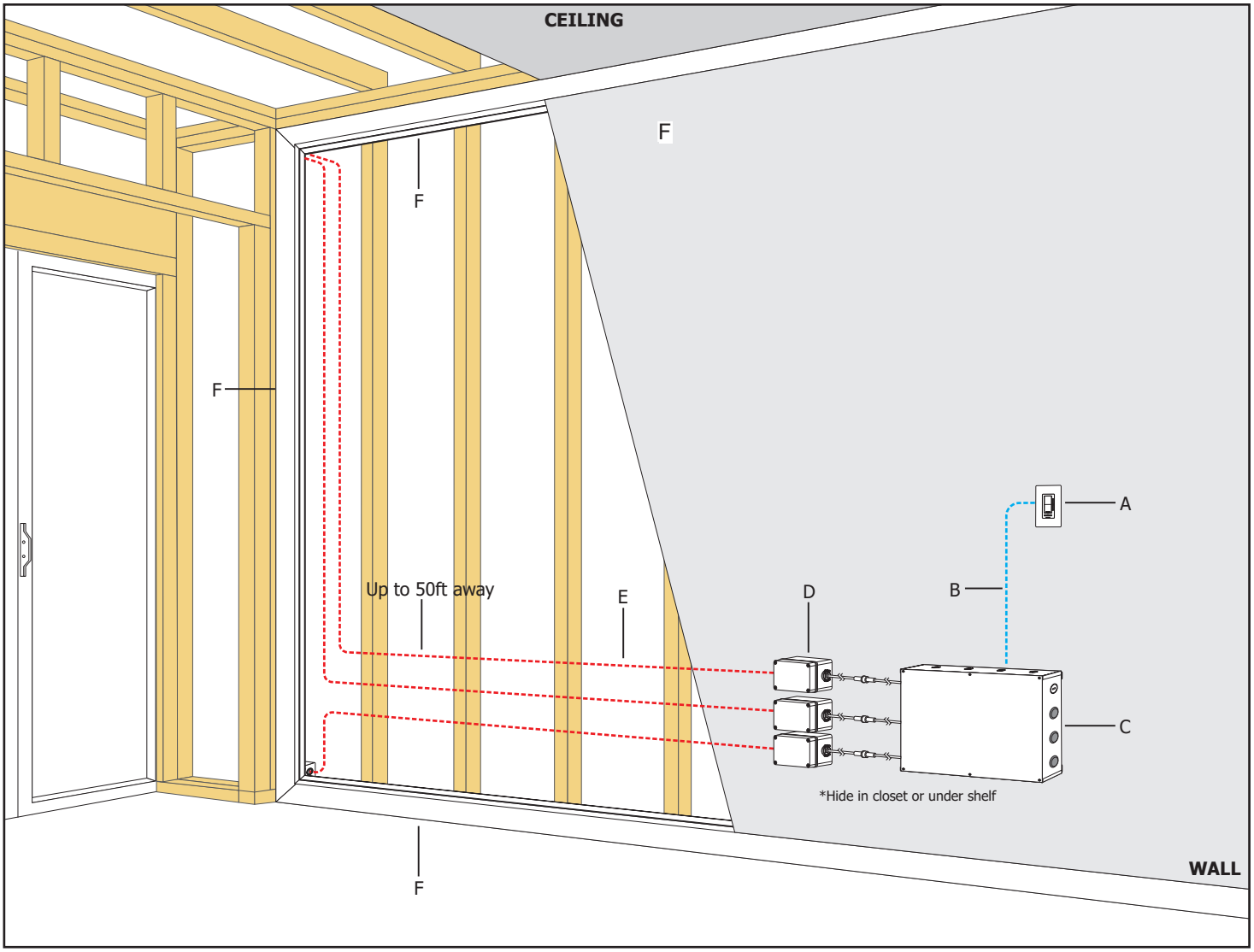
INSTALLATION



A. PURE SMART WALL CONTROLLER

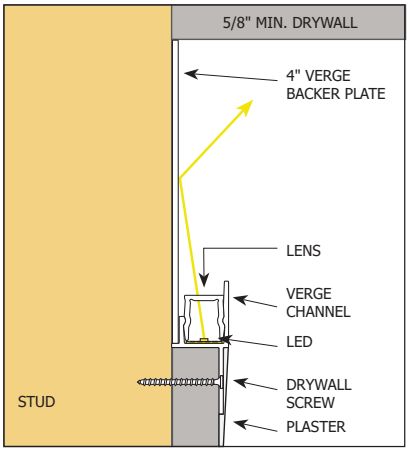
B. 120V

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

D. PURE SMART WIZ CONTROLLED BRIDGEBOX*

E. 6 CONDUCTOR CABLE TO JUNCTION BOX

F. VERGE WALL



Direction of Light Cove Installation

PROJECT		FIXTURE TYPE		DATE	

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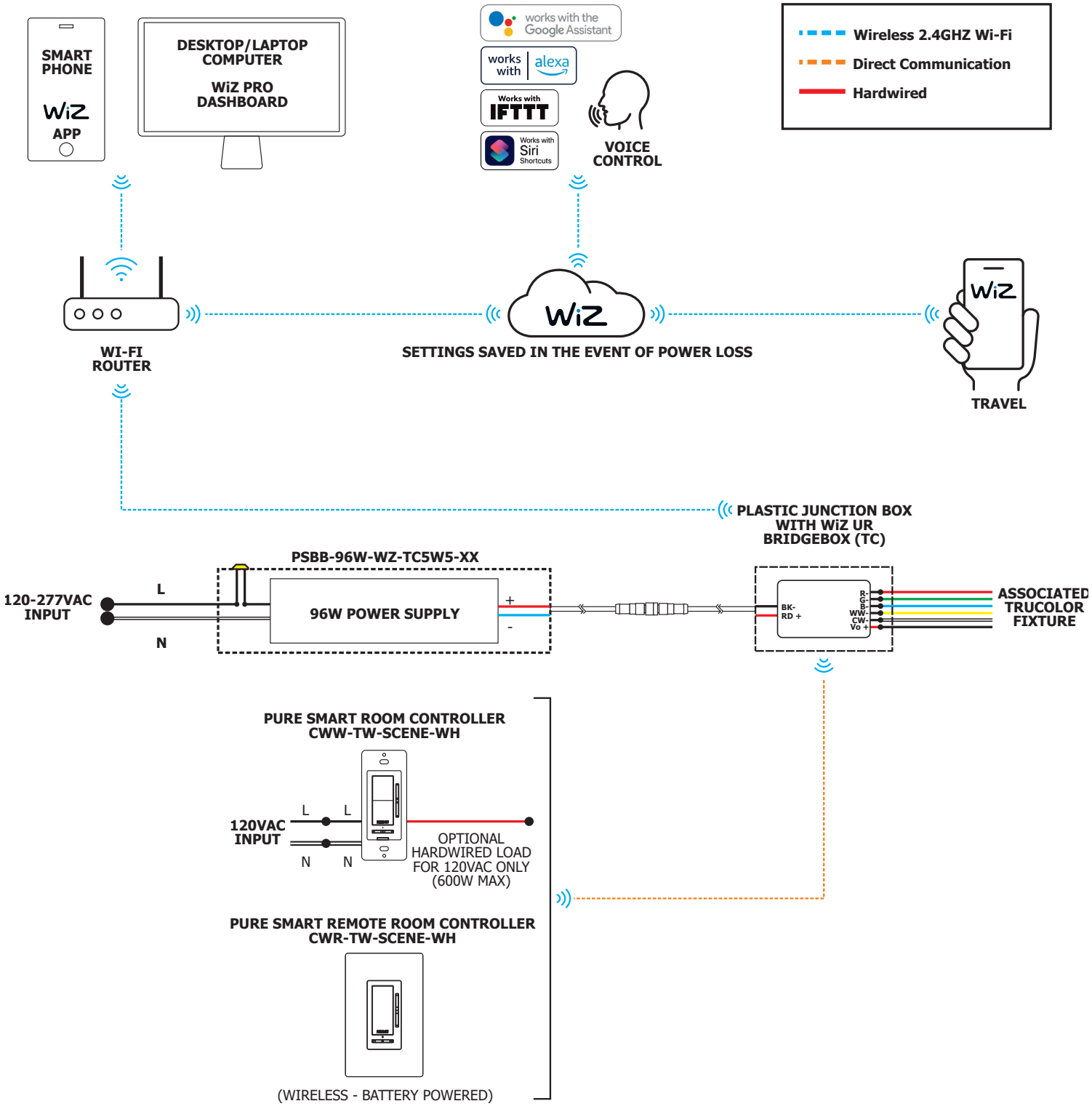

PROJECT		FIXTURE TYPE		DATE	

TM30 DATA

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

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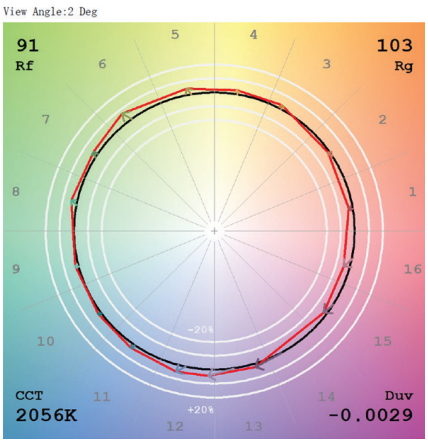
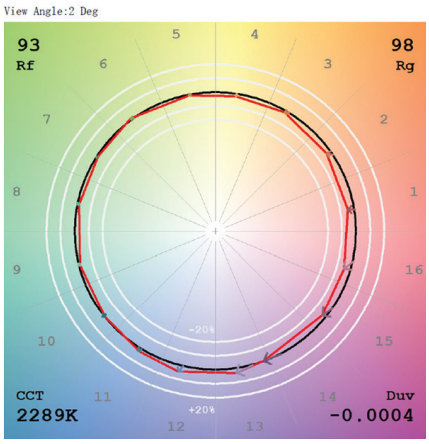
TM-30-15 DATA: The data below is for TruColor™ RGBTW (S5W7) bare LED Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

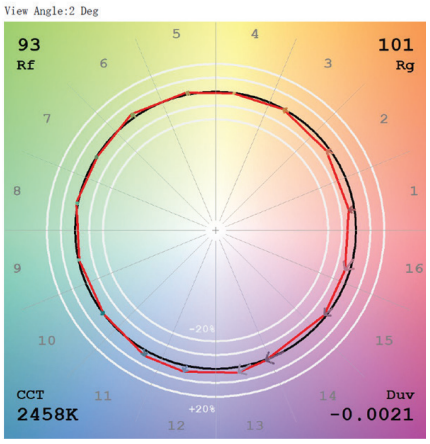
2000K (TruColor™ RGBTW)



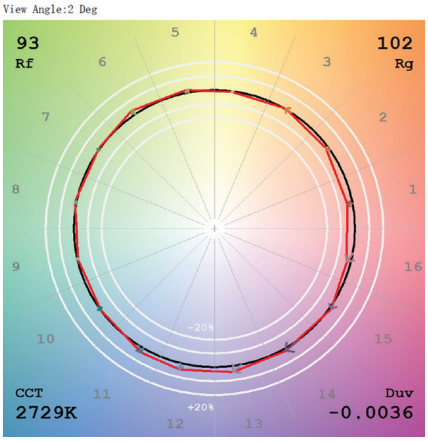
2200K (TruColor™ RGBTW)



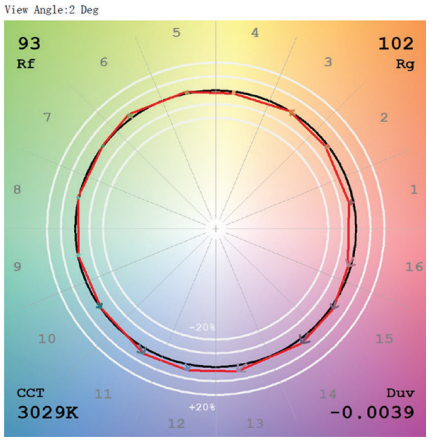
2400K (TruColor™ RGBTW)



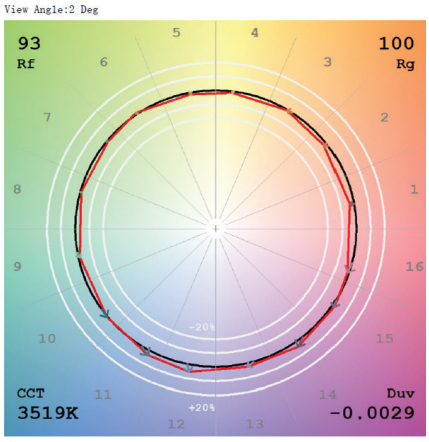
2700K (TruColor™ RGBTW)



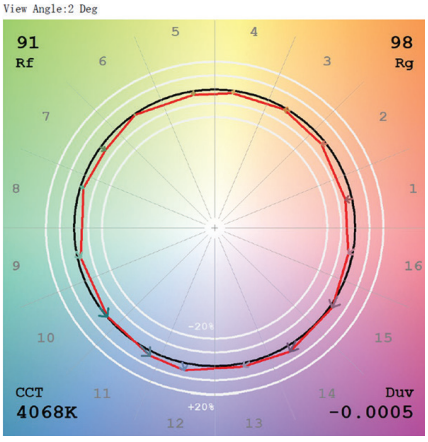
3000K (TruColor™ RGBTW)



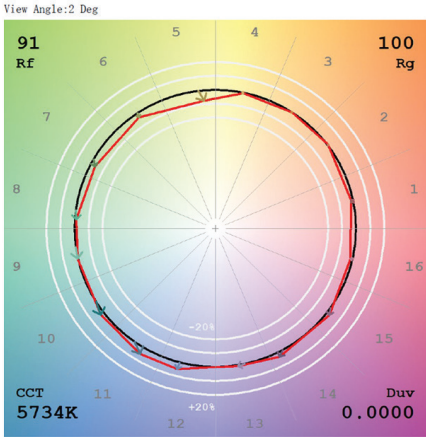
3500K (TruColor™ RGBTW)



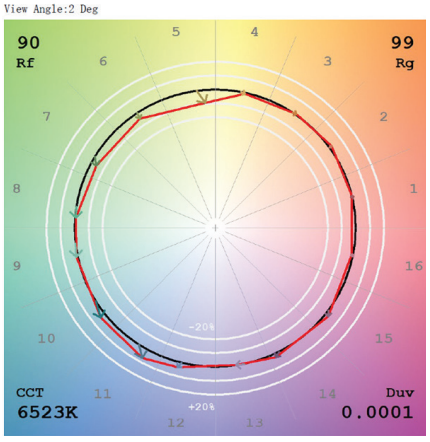
4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)



PROJECT		FIXTURE TYPE		DATE	