

VERGE WALL TRUCOLOR™ RGB & TUNABLE WHITE

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

DESIGNED BY GREGORY KAY | MADE IN AMERICA



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'. The Verge Wall with TruColor™ RGBTW light engine requires Pure Smart™ controls for operation. Pure Edge offers two methods of control (sold separately), which are listed in the Remote Power Supplies, Dimmers & Controls section. 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.

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 95+ and a Duv of +-0.0015 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): 95+
- Average DUV (5W7): +-0.0015
- Average R9: 88, Rg: 102, Rf: 93
- Average life: 50,000 hours

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

24VDC, Class 2 wiring

- [Home Integration Solutions](#)
- [Pure Smart™ WiZ Pro Power Supplies & Smart Controls](#)
- [DMX & Controls](#)

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

COMPLIANCE

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

For quick & easy reference, plus the most up-to-date pricing, use our [Verge Wall RGBTW Configurator](#).

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

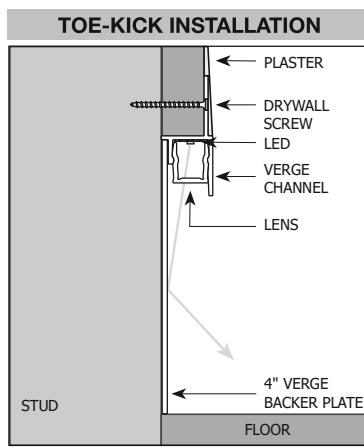
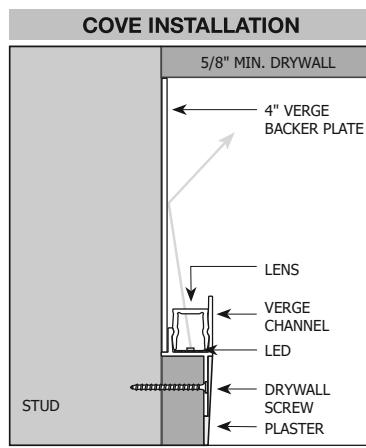
NOMINAL DELIVERED LUMENS

DESCRIPTION	5W 5W RGB & 5W TUNABLE WHITE										5W7 5W RGB & 7W TUNABLE WHITE									
	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	89	85	99	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



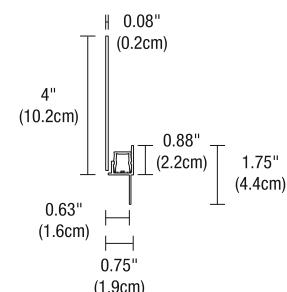
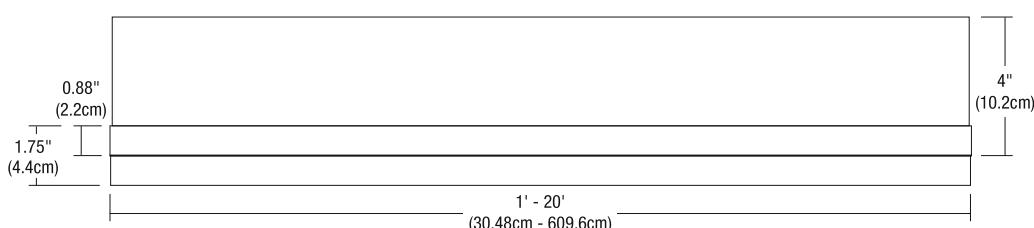
Direction of Light

Direction of Light

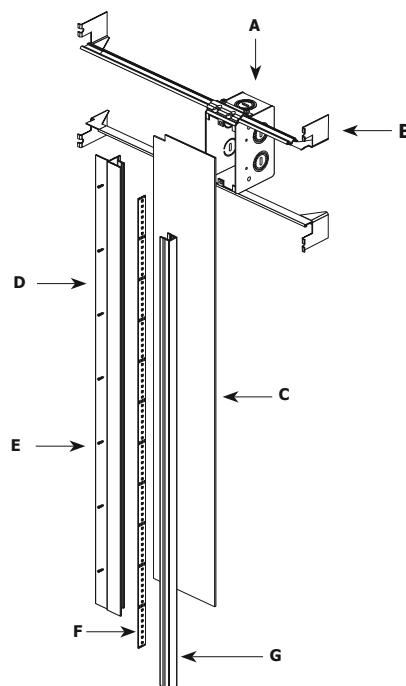
PROJECT	FIXTURE TYPE	DATE

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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.

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

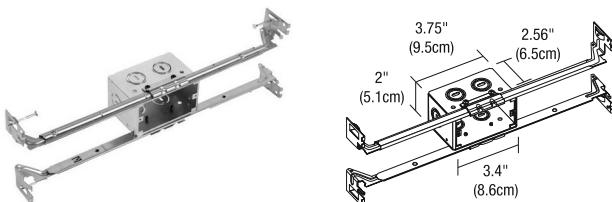
Secures channel to drywall and stud.

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.

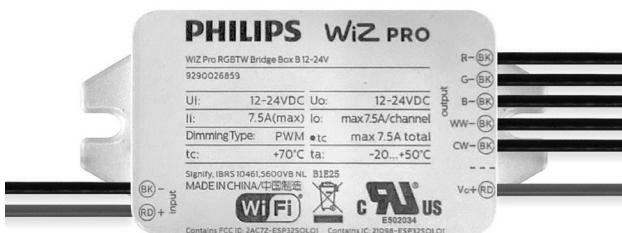
System	Size	Component
VG Verge	1RE 1" Rectangle	JBOX Junction Box

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REPLACEMENT PARTS



PURE SMART/WIZ PRO UR BRIDGEBOX

WIZ Pro UR Bridgebox is included in the Pure Smart PSBB Remote Power Supply 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.

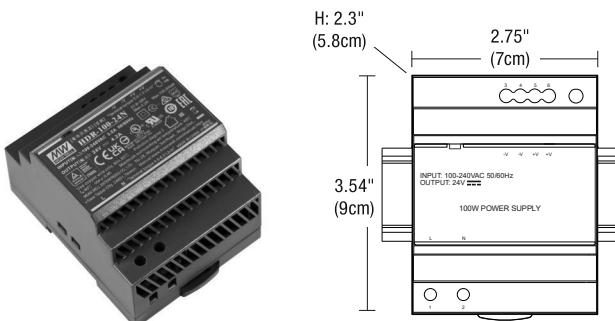
Type	Color Temperature Options		System
BRBOX	UR96	TC5W5	RL
BRBOX Bridgebox	UR96 96 Watts	TC5W5 TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White	RL Recessed Linear
		TC5W7 TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White	



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	6IN 6 inches	RGBTW TruColor™ RGBTW (RGB + Tunable White 1500K-6500K)
			LBR Flexible 90° Right		

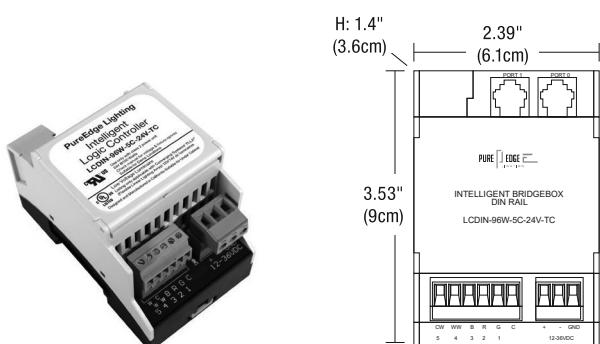


DIN RAIL POWER SUPPLY

The HDR-100-24N is a compact 100W DIN Rail power supply. It's adapted to be installed on TS-35/7.5 or TS-35/15 mounting rails. Adopting the full voltage range of 85VAC-264VAC (operational 277VAC condition). The HDR-100-24N is designed with an insulated housing protecting from electrical shock hazards. Can be remote located up to 100' away using WR 14 CL2 BR.

Product	Wattage	Voltage
HDR	100	24N

HDR Din Rail Power Supply 100 100 Watts, 2 Amp Max 24N 24 Volts DC



INTELLIGENT LOGIC CONTROLLER DIN RAIL

The Intelligent Logic Controller is a networkable solution for constant voltage 5-channel luminaires, offering precise CCT and vibrant color control through PureEdge's TruColor™ technology—surpassing traditional LED drivers and DMX controllers in performance and flexibility.

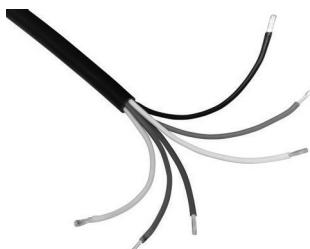
Product	Wattage	Control	Voltage	Color Temperature
LCDIN	96W	5C	24V	TC

LCDIN Logic Controller DIN Rail 96W 96 Watts 5C 5-Channel 24V 24 VDC TC TruColor™ Red, Blue, Green, Tunable White 1600K-6500K

PROJECT	FIXTURE TYPE	DATE
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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

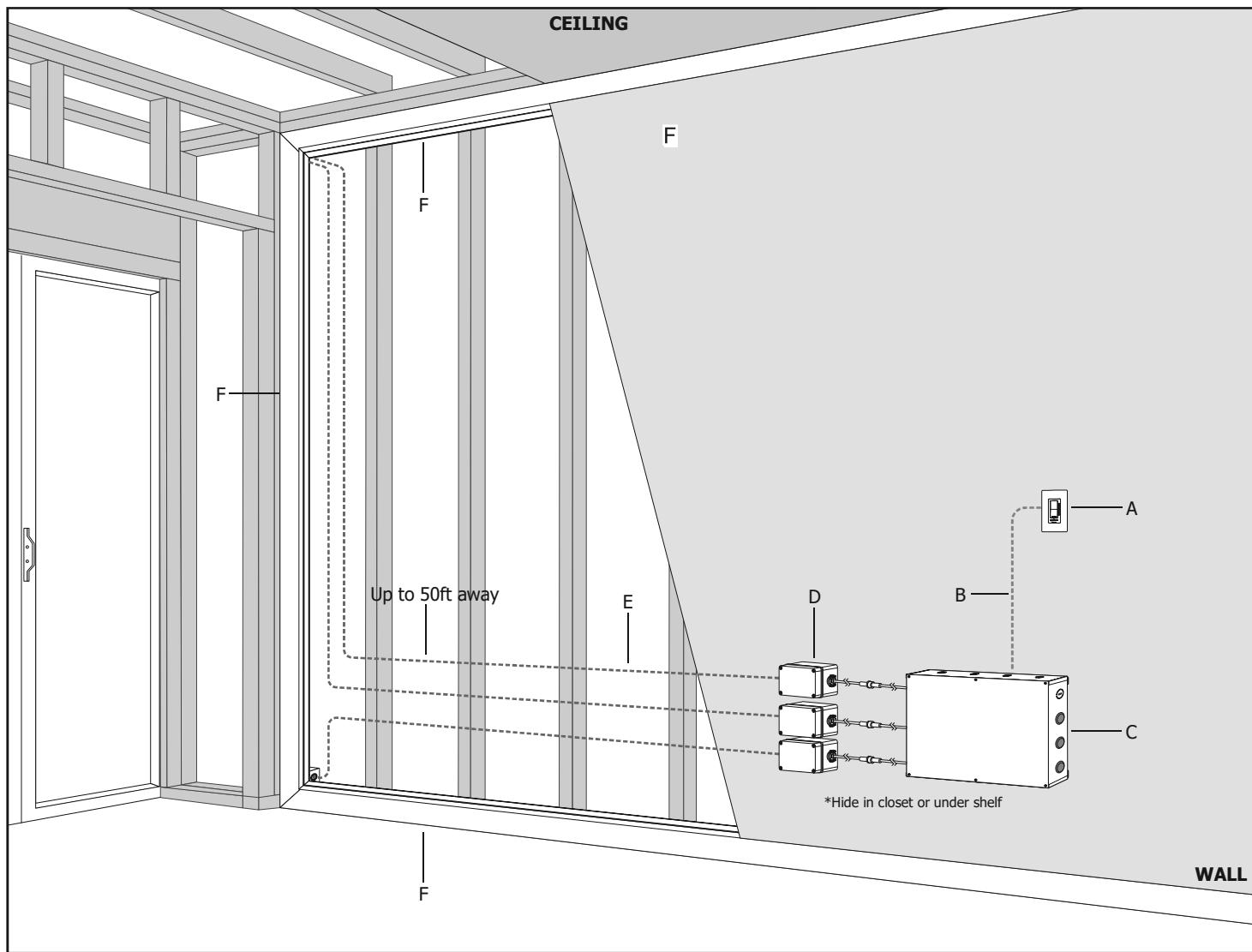
PROJECT	FIXTURE TYPE	DATE
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VERGE WALL TRUCOLOR™ RGB & TUNABLE WHITE

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

INSTALLATION

REV 11.24.25



A. PURE SMART WALL CONTROLLER

B. 120V

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

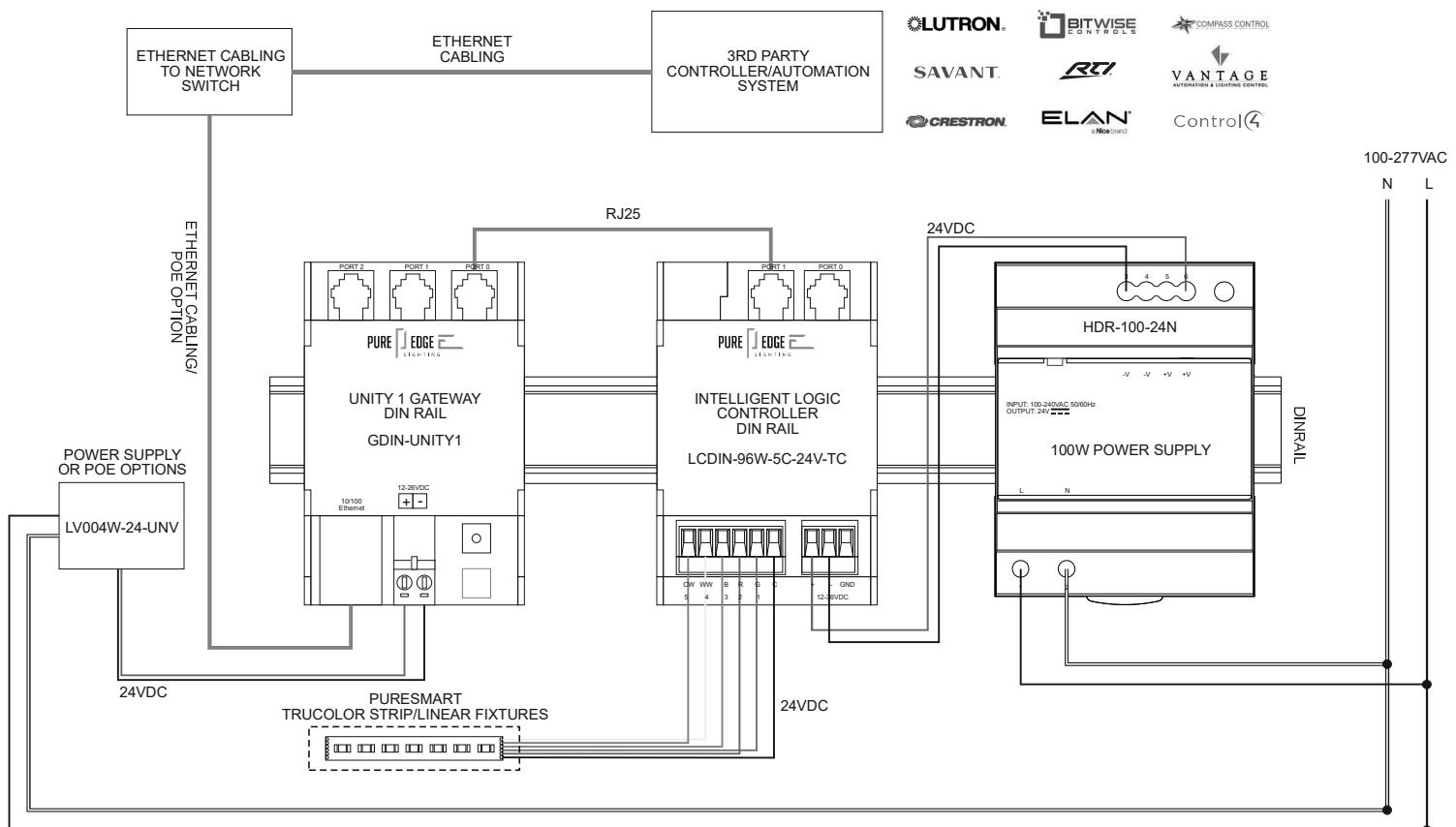
D. PURE SMART WIZ CONTROLLED BRIDGEBOX*

E. 6 CONDUCTOR CABLE TO JUNCTION BOX

F. VERGE WALL

PROJECT	FIXTURE TYPE	DATE
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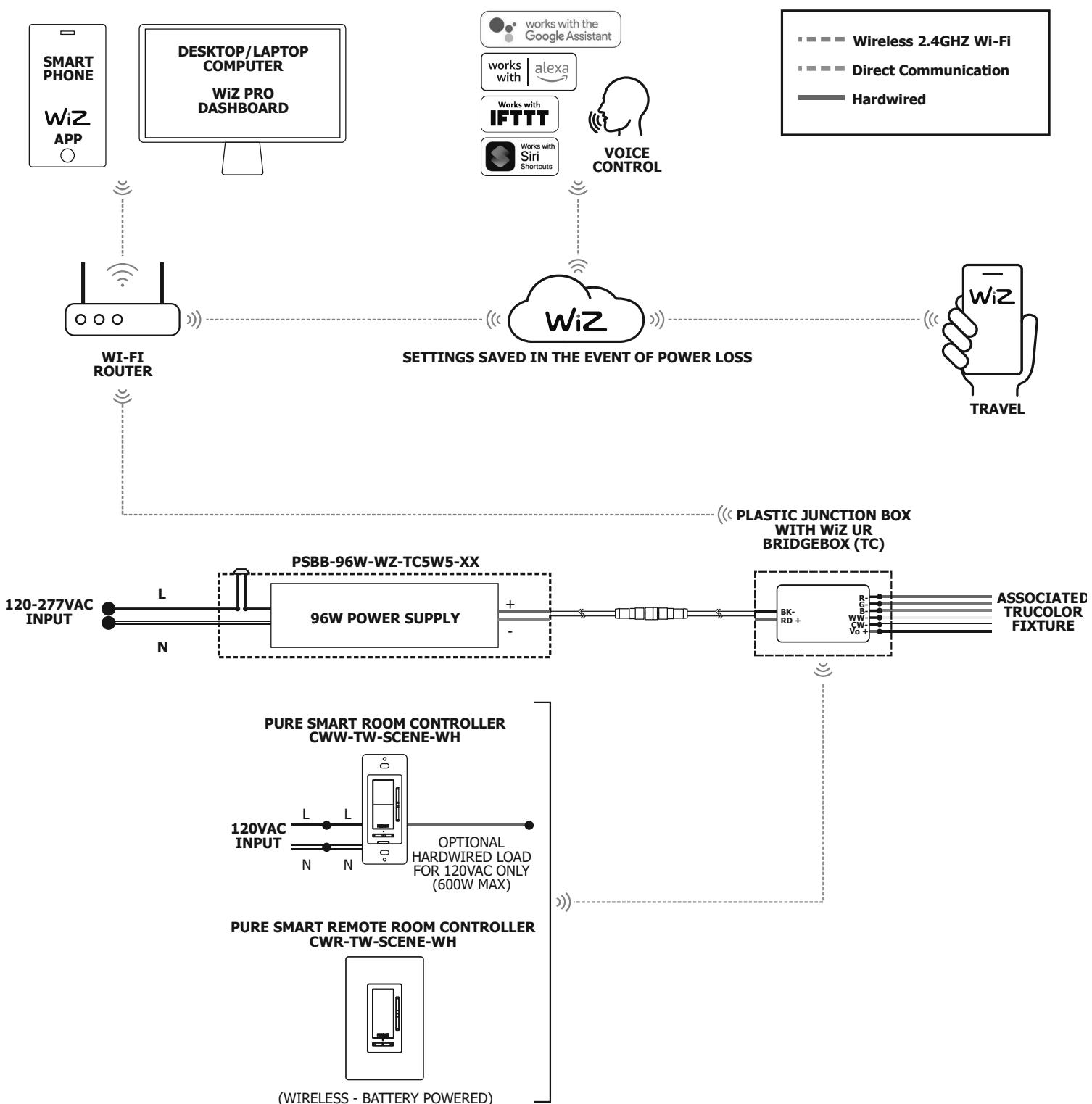
WIRING DIAGRAM



PROJECT	ITEM	ITEM	ITEM	ITEM	ITEM
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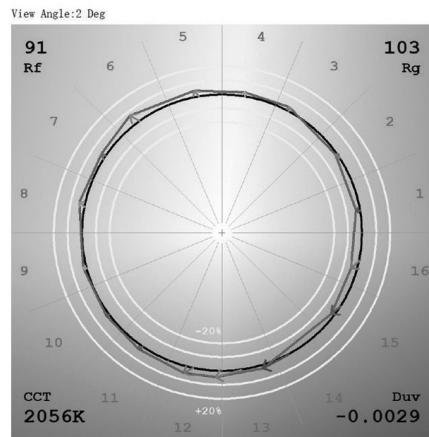
PROJECT	Fixture Type	Date
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TM30 DATA

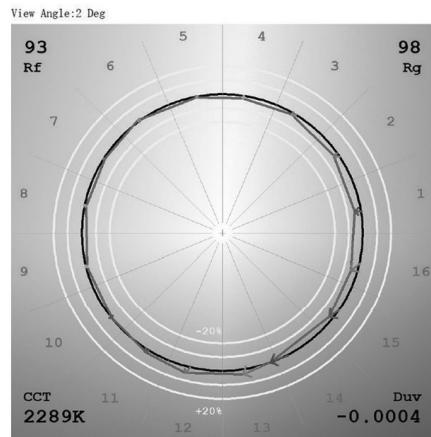
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TM-30-15 DATA: The data below is for TruColor™ RGBTW (S5W7) bare LED Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color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

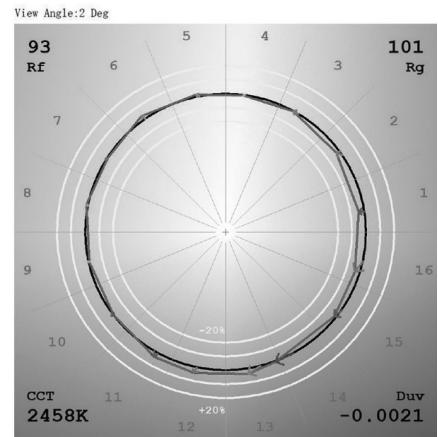
2000K (TruColor™ RGBTW)



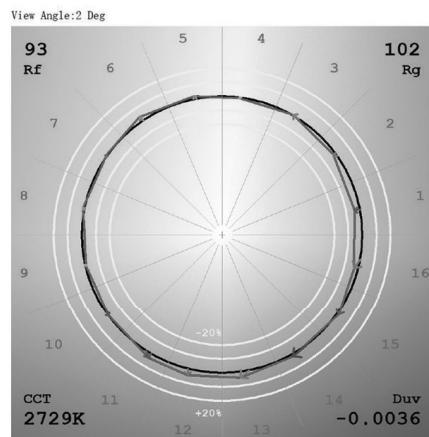
2200K (TruColor™ RGBTW)



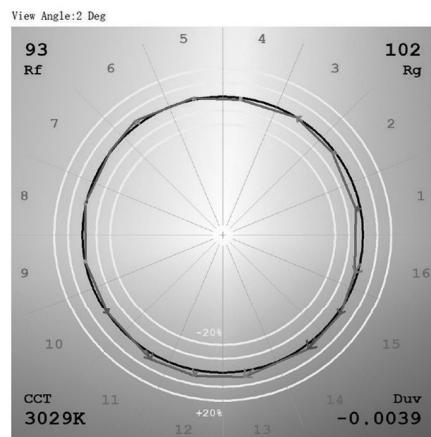
2400K (TruColor™ RGBTW)



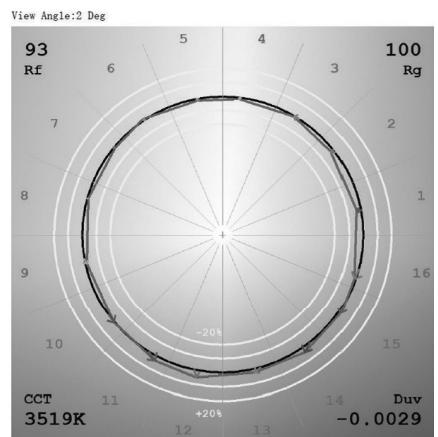
2700K (TruColor™ RGBTW)



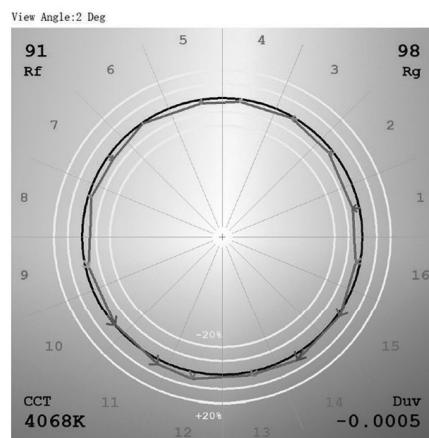
3000K (TruColor™ RGBTW)



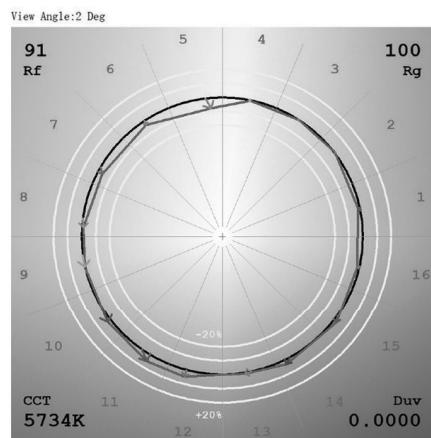
3500K (TruColor™ RGBTW)



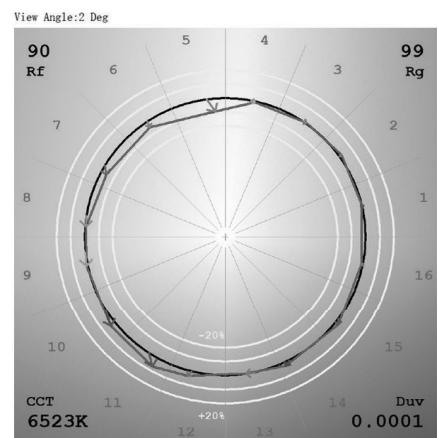
4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)



PROJECT	FIXTURE TYPE	DATE
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