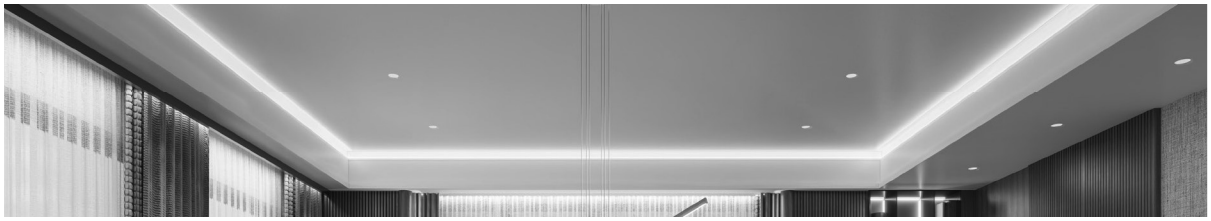
VERGE CORNER TRUCOLOR™ RGB & TUNABLE WHITE

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

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 06.30.25



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. The Verge Corner with TruColor™ RGBTW light engine requires Pure Smart™ controls for operation (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.

SPECIFICATIONS

- 24VDC
- 10W10: 2x5W RGB & 2x5W Tunable White, 10 watts total
- 10W14: 2x5W RGB & 2x7W Tunable White, 14 watts total
- Maximum lengths before re-feeding: 10W10 – 20 ft, 10W14 – 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.

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 96+ and a Duv of +-.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**)
- 10W10 260LM/FT 10W @3000K
- 10W14 379LM/FT 14W @3000K

AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (10W14): 96+
- Average DUV (10W14): +-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

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.

COMPLIANCE

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

For quick & easy reference, plus the most up-to-date pricing, use our Verge Corner 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
VGCO	–	**10W10**	–	**1-20FT**	–	**TC**
VGCO Verge Corner		**10W10** 2x5 watts RGB & 2x5 watts Tunable White **10W14** 2x5 watts 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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NOMINAL DELIVERED LUMENS

DESCRIPTION	**2X5W5 5W RGB & 5W TUNABLE WHITE**									**2X5W7 5W RGB & 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)	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			

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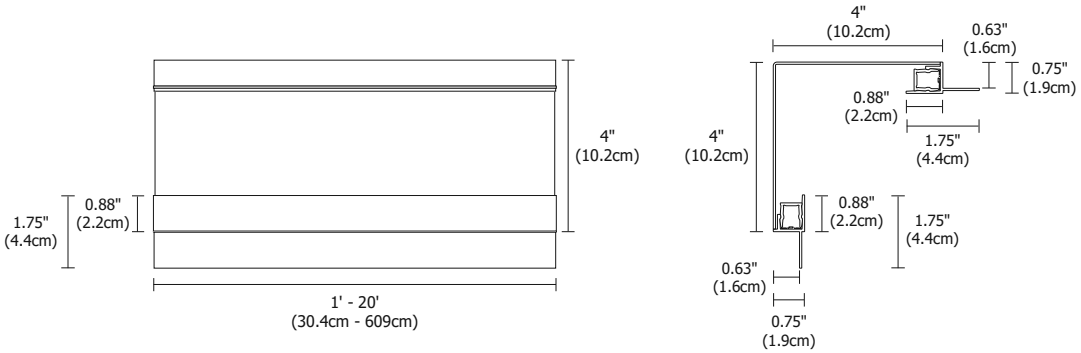
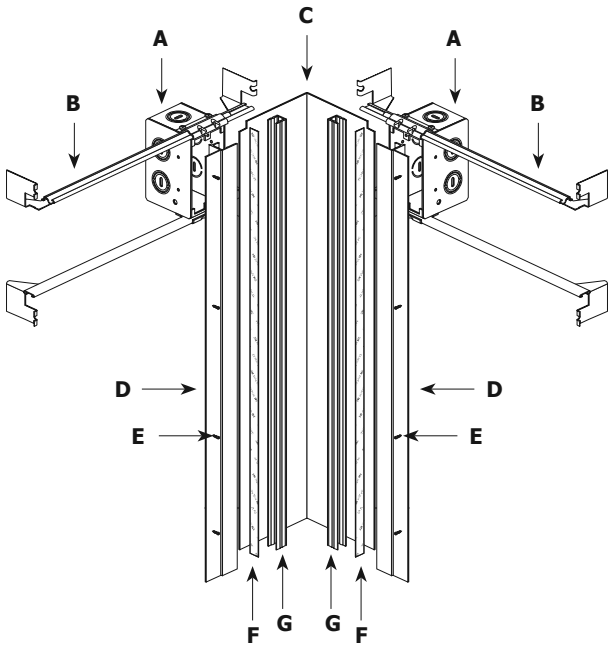


INCLUDED COMPONENTS



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. Verge Corner includes two sets of mounting hardware.

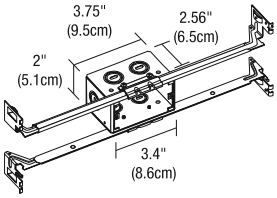
C. BACKER PLATE
4" paintable aluminum plates conceal junction box and reflect light.

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
VG	1RE	JBOX
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**

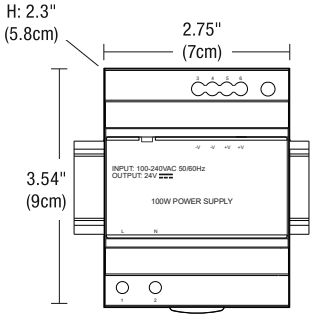
BRBOX Bridgebox
UR96 96 Watts
TC5W5 TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White
TC5W7 TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White
RL Recessed Linear

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)

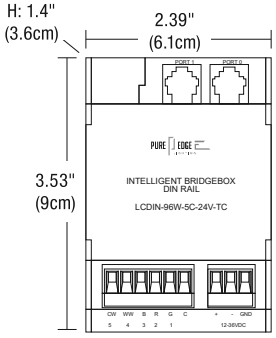


DIN RAIL POWER SUPPLY

The HDR-100-48 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-100-48 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**	–	**48**

HDR Din Rail Power Supply
100 100 Watts, 2 Amp Max
48 48 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

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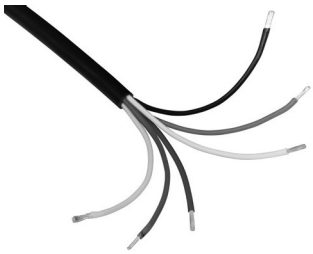

WET AND DAMP LOCATION CABLE ORDER PER FOOT

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

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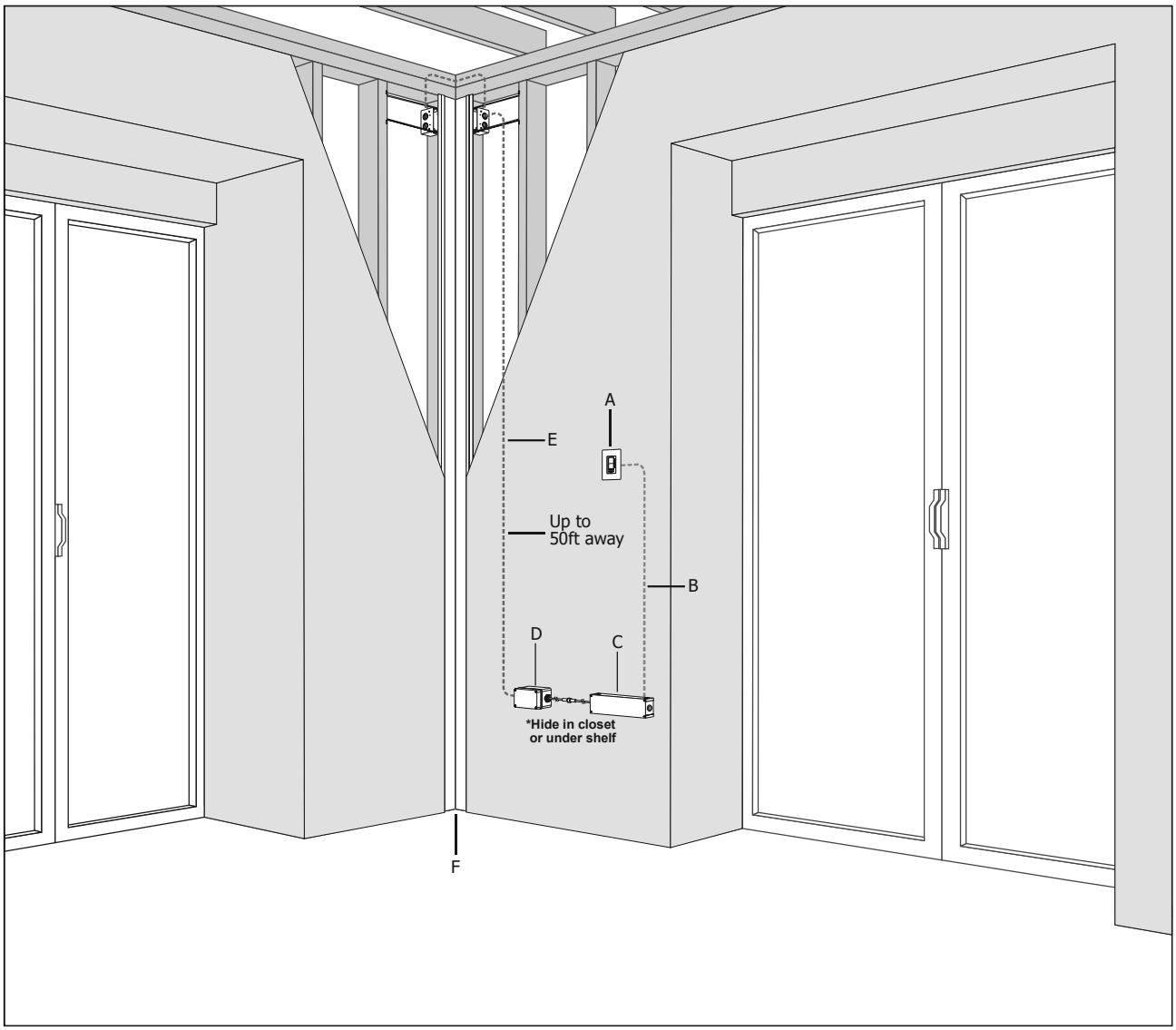
INSTALLATION



A. PURE SMART WALL CONTROLLER

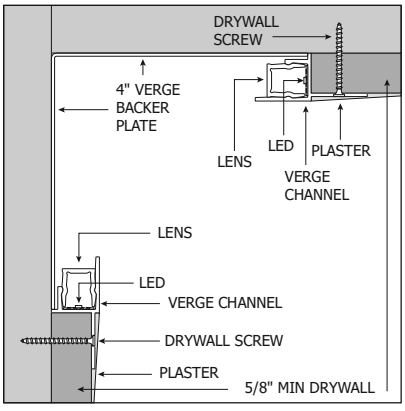
B. 120V

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

D. PURE SMART WIZ CONTROLLED BRIDGEBOX*

E. 6 CONDUCTOR CABLE TO JUNCTION BOX

F. VERGE CORNER



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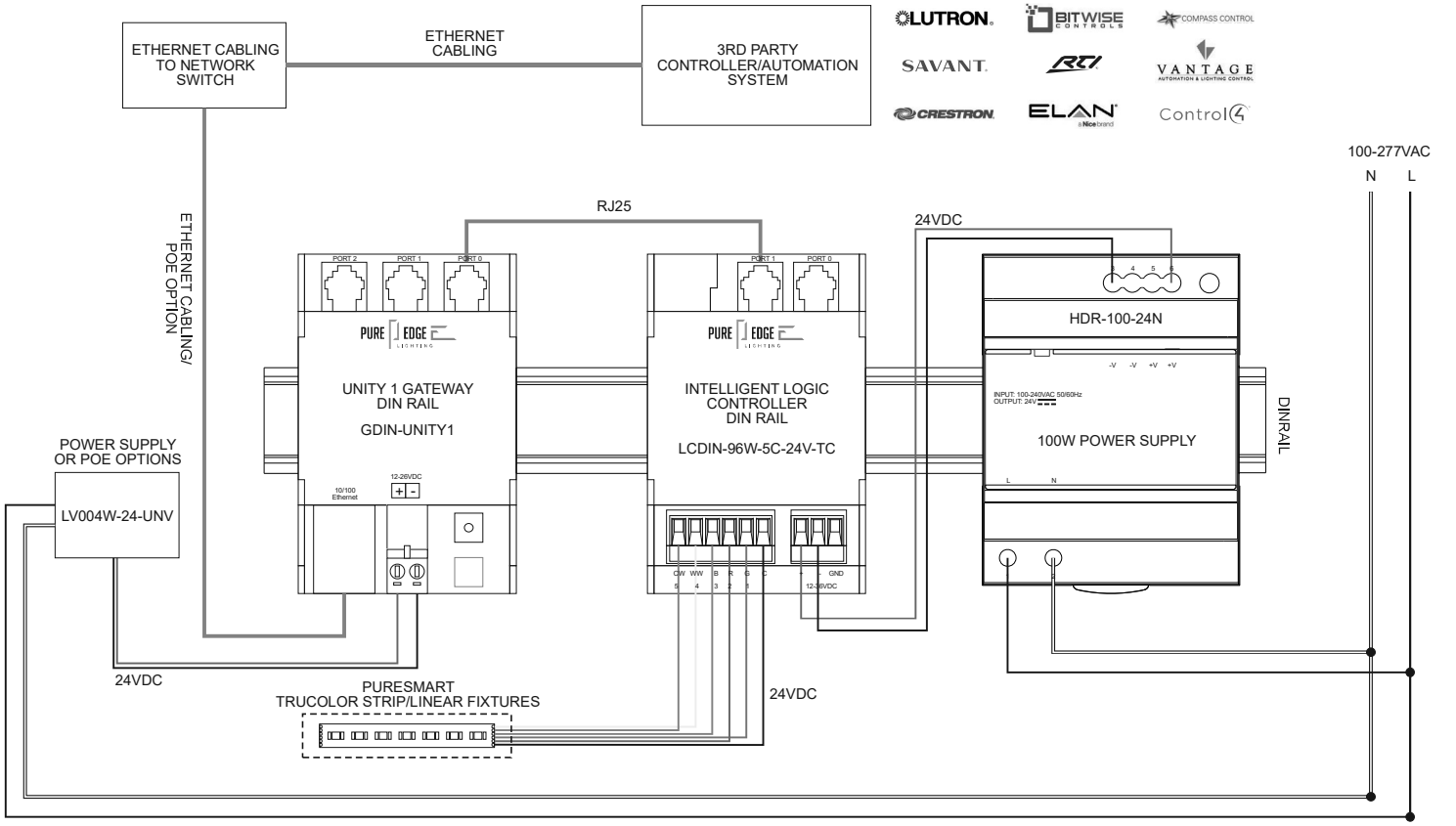
WIRING DIAGRAM



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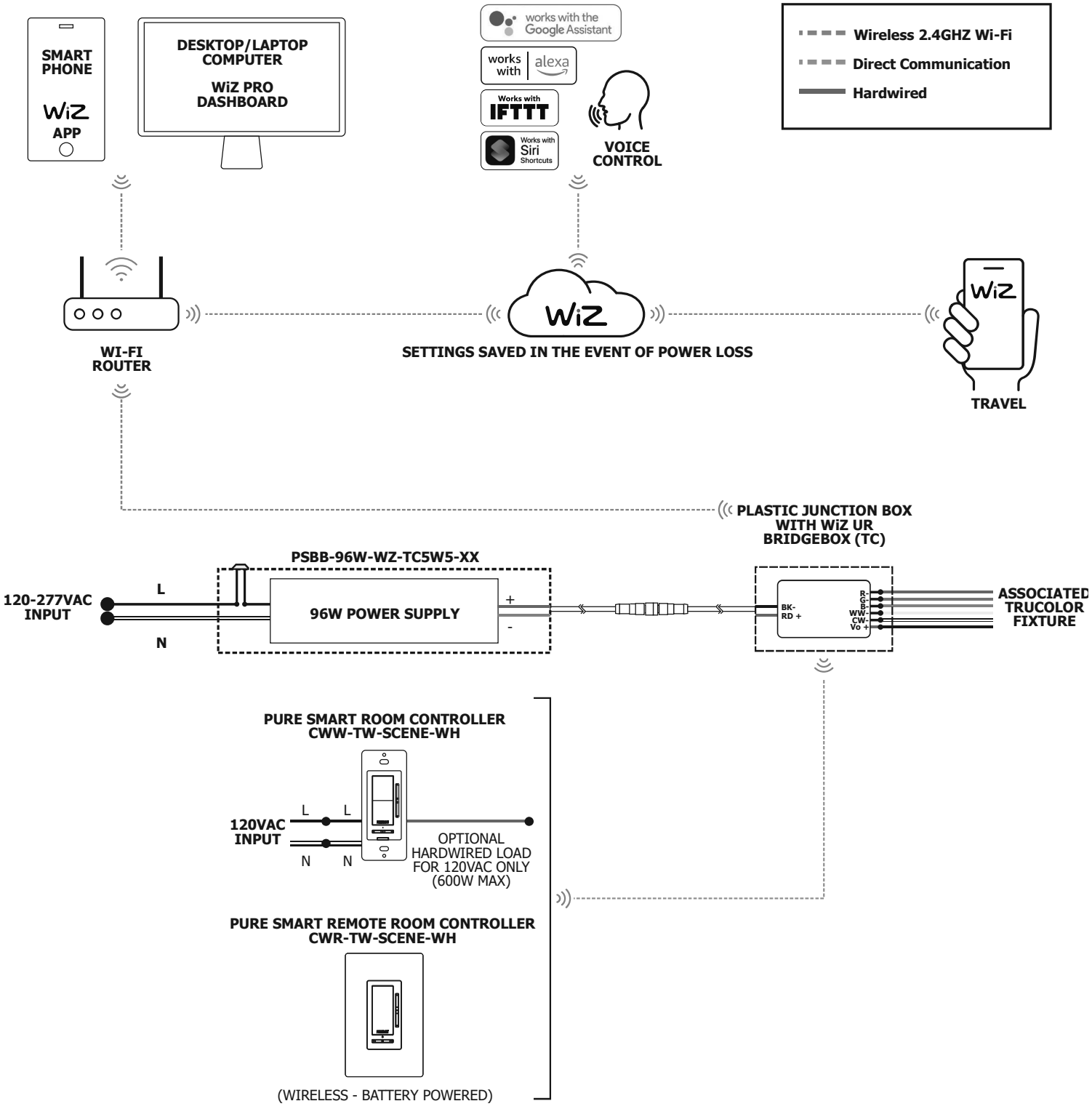

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CEILING TM30 DATA

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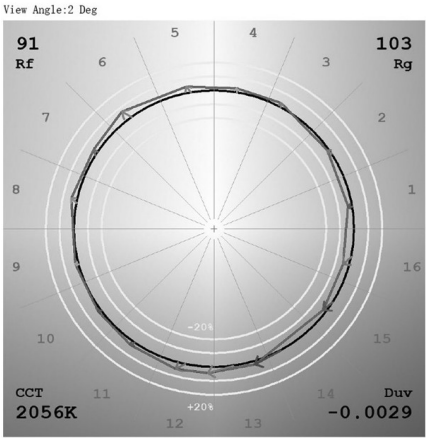
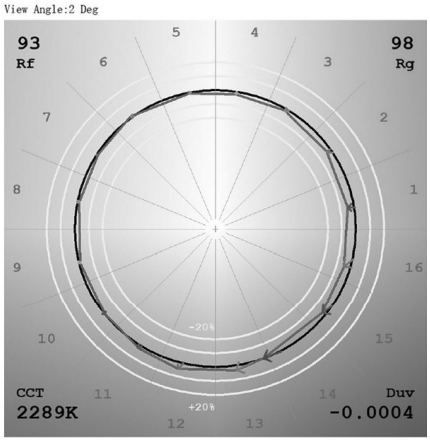
TM-30-15 DATA: The data below is for TruColor™ RGBTW (S5W7) bare LED Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

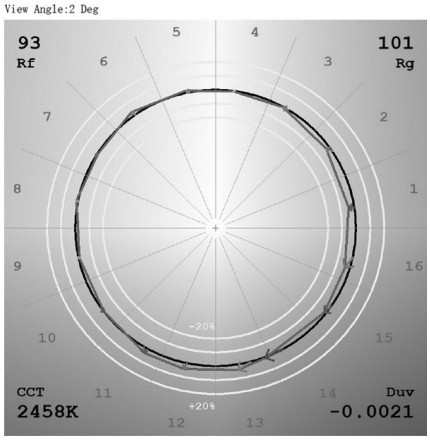
2000K (TruColor™ RGBTW)



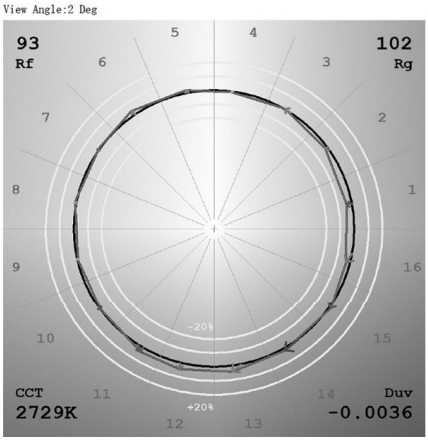
2200K (TruColor™ RGBTW)



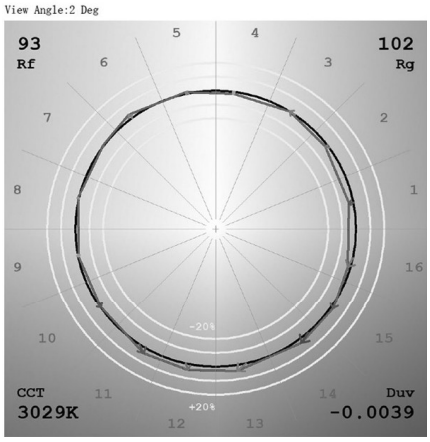
2400K (TruColor™ RGBTW)



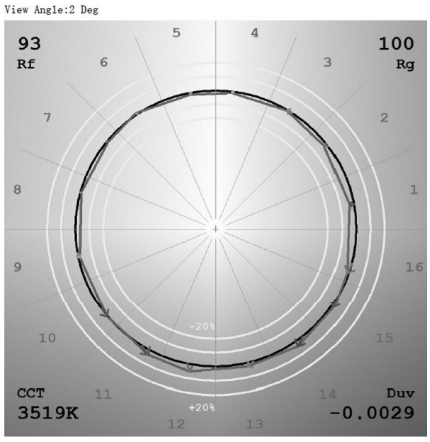
2700K (TruColor™ RGBTW)



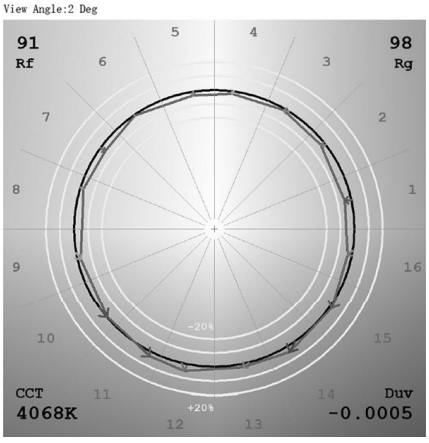
3000K (TruColor™ RGBTW)



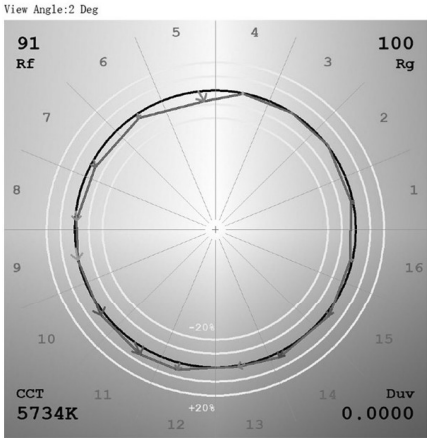
3500K (TruColor™ RGBTW)



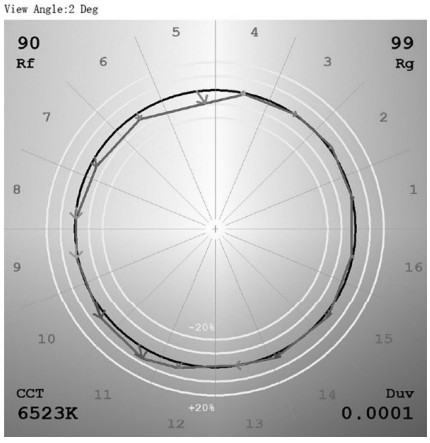
4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)



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