DMX

DIGITAL COB, RGB + TUNABLE WHITE

24VDC WITH PINS AND LEADS

PURE EDGE Pure Smart Lighting

PROJECT

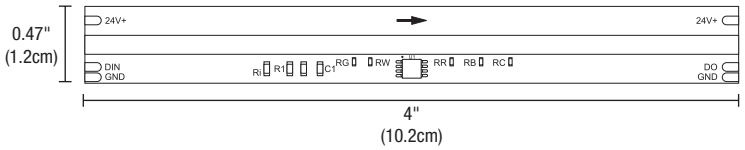
FIXTURE TYPE

DATE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 09.16.26





DESCRIPTION

PureEdge's RGB+Tunable White White provides dynamic color effects with red, green, blue plus two white color temperatures. 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' increments up to 20' with cutting increments every 4", 1.5" (coming soon). RGB+Tunable White can be controlled using a compatible 24 volt DC power supply and is easily integrated into a variety of systems using the PureEdge Orchestrator (PSB-DRGBTW-INT). Includes 5 year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com.

FEATURES AND BENEFITS

- Intelligent reverse connect protection, the power supply reverse connection does not damage the IC
- The control circuit and the LED share the only power source
- Integration with both DMX and WiZ (Pure Smart Wall Controllers) allowing for multiple control methods
- Individual control of segments or grouping segments, allowing multiple DMX channels per run
- Built-in electric reset circuit and power lost reset circuit
- Each pixel of the three primary color can achieve 256 brightness display, completed 16777216 color full color display
- TruColor support, allowing for 15K-65K
- Can change up to 120 times per second, allowing for more detailed effects
- Custom effect palette allowing for curated designs

SPECIFICATIONS

- 24VDC, Class 2
- Power Consumption: 3 or 5 watts per foot
- Maximum Length Before Re-feeding: 20' for 3 watt and 5 watt
- Sold in 1' increments
- Field-cuttable in 4" increments, 1.5 inch addresible coming Q4 2026
- Operating temperature: -22°F to 140°F (-30°C to 60°C)

LAMP

- RGB+TW: Dynamic Red, Green, Blue plus 1500K & 6500K Tunable White with chasing effects
- 50,000 Hour Lamp Life

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

24VDC, Class 2 wiring

- PSB-DRGBTW-INT
- PSB-100W-DRGBTW-24VDC
- Color Touch Panel
- Pure Smart Room Controller

ACCESSORIES (SOLD SEPARATELY)

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

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 a U-Strap **SS-SU** or a Tie Strap **SS-ST** (sold separately).

APPLICATIONS

Designed for any Indoor space, including Damp locations. Ideal applications include residential, commercial, retail, and hospitality environments.

APPROVALS

Damp Location, Class 2 wiring, ETL Listed

System	Type	Voltage	Length in Feet	Color Temperature
LS5	PIN	24V	10	DRGBTW
LS3 Digital Laser Strip 3 watts per foot **LS5** Digital Laser Strip 5 watts per foot	**PIN** 4 Pin Connection **SE1** Soldered Leads on one end **SE2** Soldered Leads on both ends	**24V** 24 Volt	**1-20** Sold in 1 ft increments	**DRGBTW** TruColor™ RGBTW, Red, Blue, Green & Tunable 1500K-6500K

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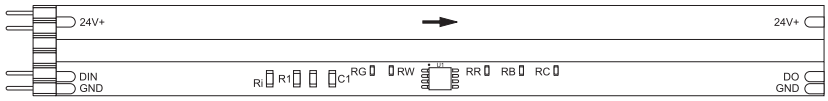
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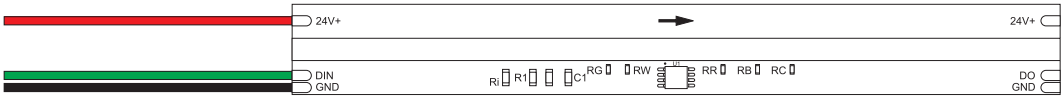
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DRAWINGS



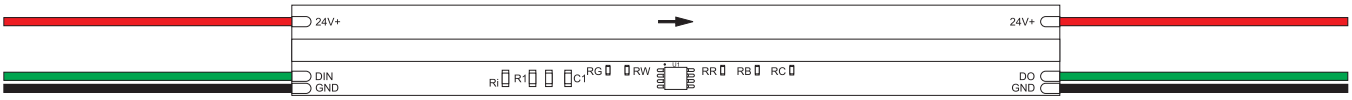
PIN

4 Pin Connection



SE1

6' Soldered Lead on One End



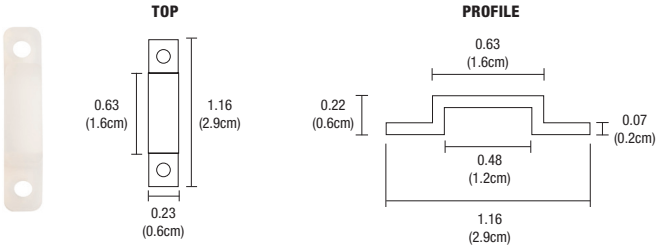
SE2

6' Soldered Lead on Both Ends

	LASER DIGITAL								
DESCRIPTION	**LS3**								
WATTS PER FOOT	3W								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	63	66	70	91	120	135	103	84	89
LUMENS PER WATT (lm/w)	33	35	37	44	51	55	49	45	46
CRI	91+	93+	94+	95+	96+	96+	96+	96+	96+

	LASER DIGITAL								
DESCRIPTION	**LS5**								
WATTS PER FOOT	5W								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	168	179	182	242	330	339	273	232	228
LUMENS PER WATT (lm/w)	50	53	55	62	69	71	68	66	66
CRI	91+	92+	94+	95+	96+	97+	97+	96+	96+

ACCESSORIES



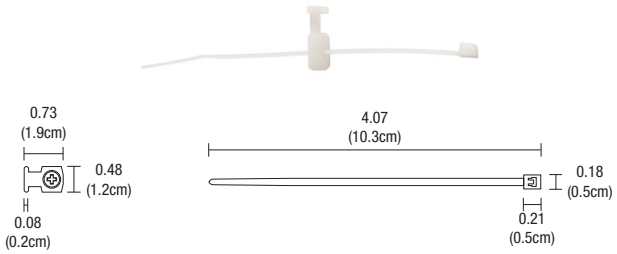
U-STRAP

Use every 6-12 inches for extra support (30/package).

Product	Type
SS	SU

SS Strip Strap

SU U-Strap



TIE STRAP

Use every 6-12 inches for extra support (30/package).

Product	Type
SS	ST

SS Strip Strap

ST Tie Strap



POWER FEED CONNECTOR

Female power feed connector cord conducts power from the power supply to the male end of the Lazer strip.

System	Type	Size	Color Temperature
LS	PFE	12IN	TW

LS Lazer Strip

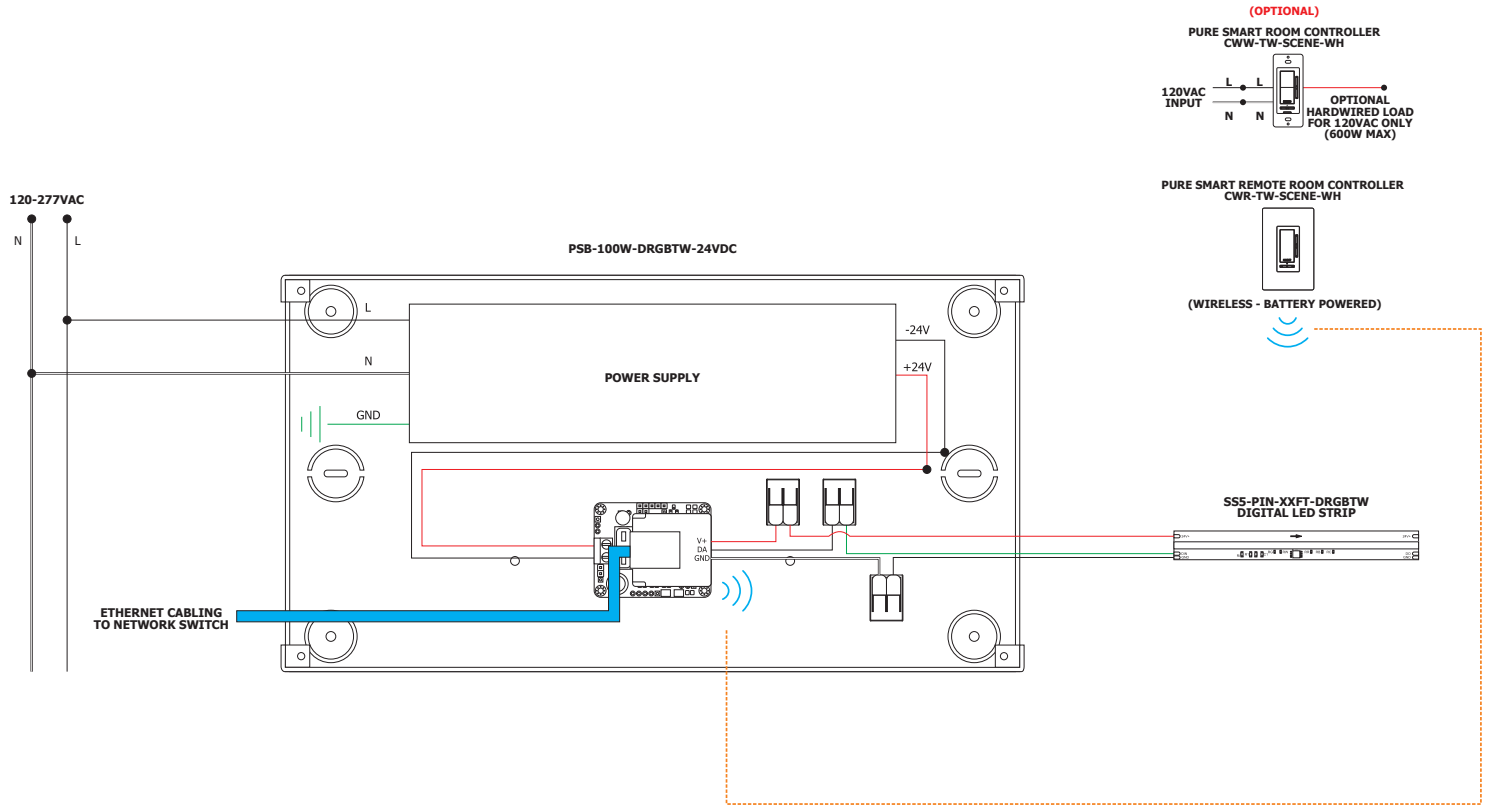
PFE Power Feed Connector Cord

12IN 1 Foot
6FT 6 Feet
8FT 8 Feet
12FT 12 Feet

TW Tunable White

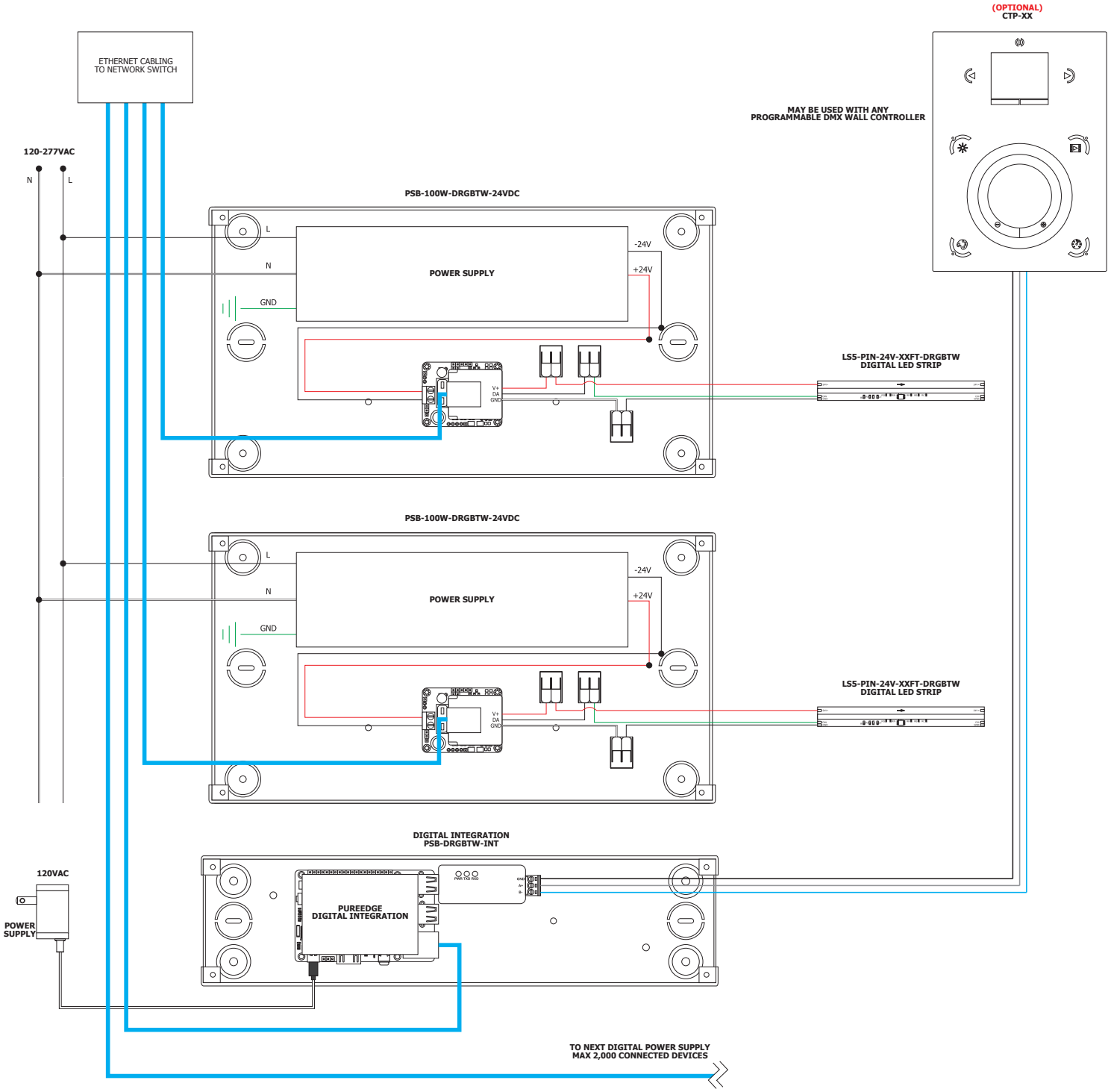
WIRING DIAGRAMS

STAND ALONE SINGLE POWER SUPPLY WITH APP CONTROL AND OPTIONAL WALL CONTROL



WIRING DIAGRAMS

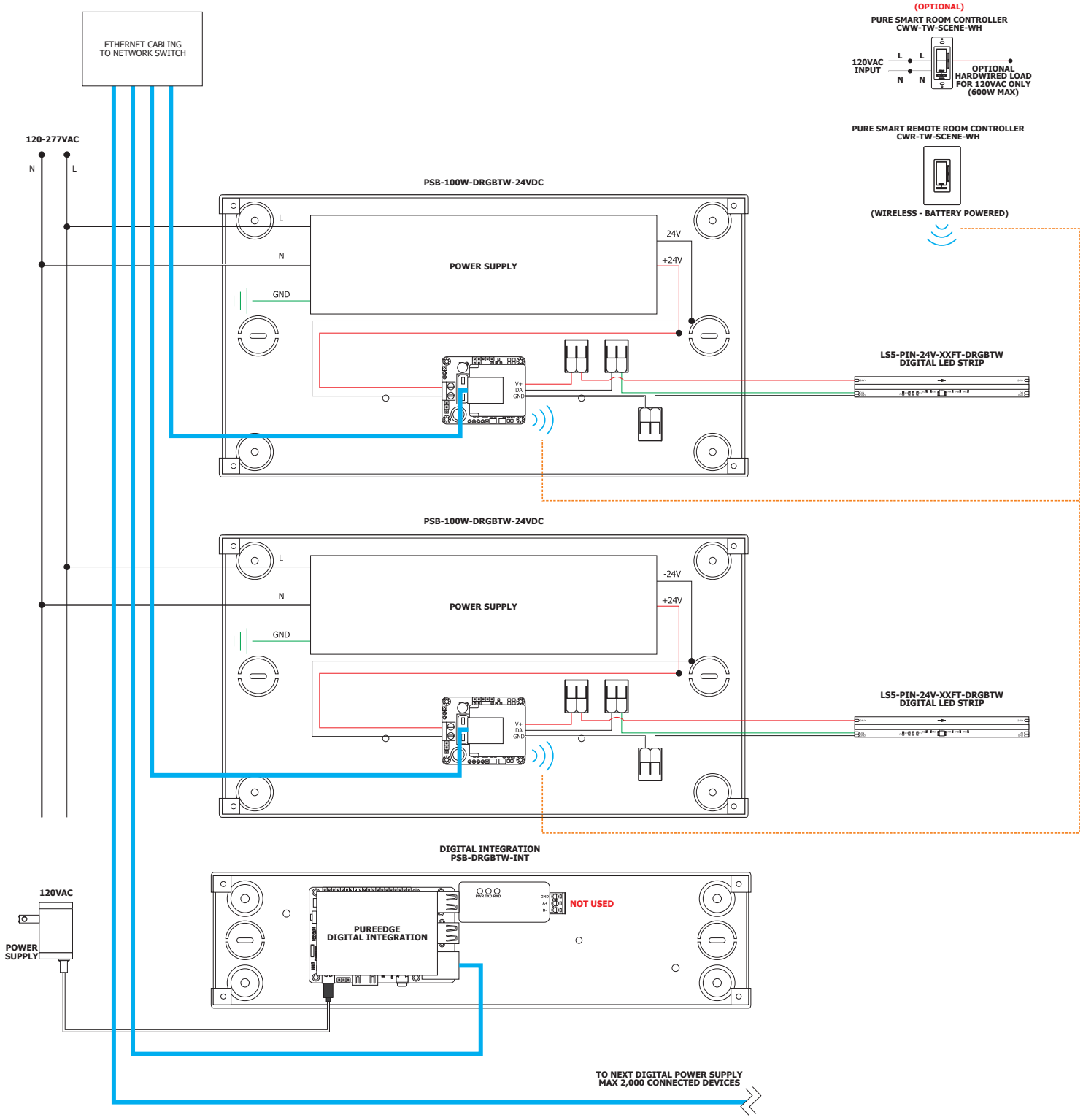
MULTIPLE DIGITAL POWER SUPPLIES AND DIGITAL INTEGRATION/DMX WALL CONTROLS



PureEdge Lighting reserves the right to modify this specification without prior notice

WIRING DIAGRAMS

MULTIPLE DIGITAL POWER SUPPLIES WITH WEB INTERFACE AND OPTIONAL WALL CONTROLS



TM30 DATA
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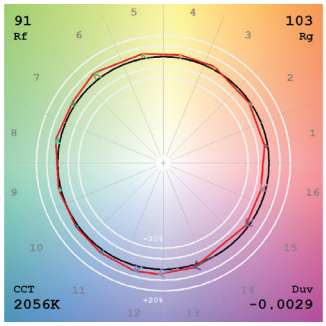
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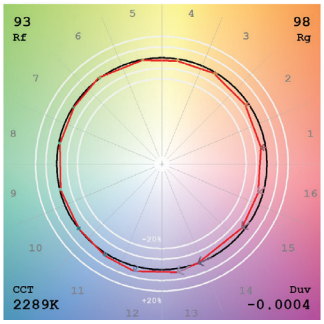
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2000K | Rf: 91 | Rg: 103
Color Vector Graphic



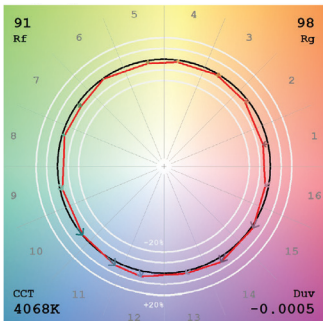
Test Reference

2200K | Rf: 93 | Rg: 98
Color Vector Graphic



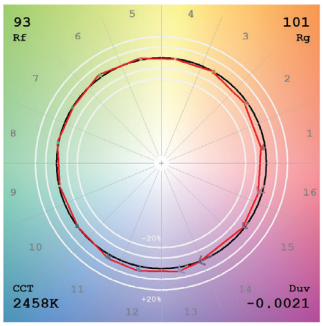
Test Reference

4000K | Rf: 91 | Rg: 98
Color Vector Graphic



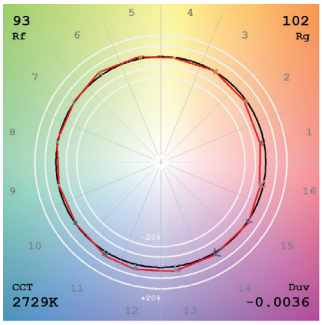
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2400K | Rf: 93 | Rg: 101
Color Vector Graphic



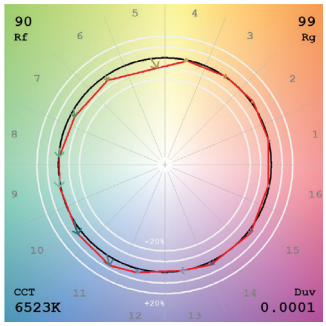
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2700K | Rf: 93 | Rg: 102
Color Vector Graphic



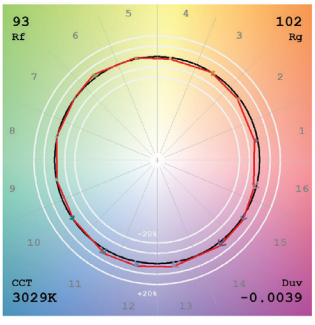
Test Reference

6500K | Rf: 90 | Rg: 99
Color Vector Graphic



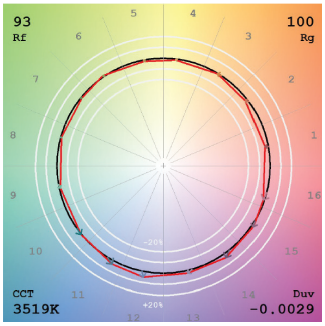
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3000K | Rf: 93 | Rg: 102
Color Vector Graphic



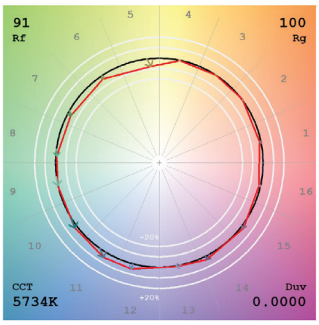
Test Reference

3500K | Rf: 93 | Rg: 100
Color Vector Graphic



Test Reference

5700K | Rf: 91 | Rg: 100
Color Vector Graphic



Test Reference