

VANISHING POINT TUBO LARGE DOWN LIGHT

LED 24VDC

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA | PATENT PENDING

REV 10.21.20



VR
Vanishing Point Plaster-In, Remote Power supply
(Order separately)

DESCRIPTION

The Vanishing Point Tubo Large Down Light Plaster-In System with integrated LED offers four different mounting options all without a visible canopy, creating a seamless architecture using a remotely located power supply or an ELV power supply within the junction box. The Tubo Large Downlight is available in a black or white powder coat finishes with five color temperatures to choose from, including Warm Dim (**30D**). Offered in 15°, 25°, 40°, or 60° beam spreads, you can order additional lenses that can be changed in the field. 97 CRI with R9-97 Integral LED chip with a flat-back heat sink design.

DRYWALL APPLICATIONS (PLASTER-IN)

VR - Remote 24VDC Power Supply (Order Separately). Title 24 compliant.
V2P - ELV power supply fits within the junction box. 24 VDC/50W IC or 60W Non-IC ELV.

MILLWORK APPLICATIONS:

V2MR - Connection point at ceiling sits flush on Millwork. 24VDC remote power supply (order separately). Title 24 compliant.
V2MP - ELV power supply fits within the junction box. 24 VDC/50W IC or 60W Non-IC ELV.

WARRANTY / LABELS:

Pro-rated 5 year warranty. Assembled in America, RoHS, ETL (Conforms to UL1598 and CSA 22.2 #250.0), Title 24 with Remote Power Supply Only

APPLICATIONS

Designed for indoor use only in drywall and millwork. Ideal applications in Commercial, Retail, Residential, Hospitality, Education, and Healthcare Institutions.

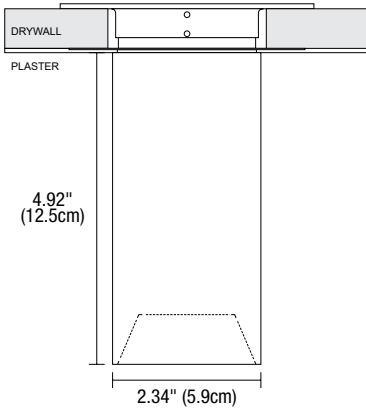
POWER SUPPLIES & DIMMING*

Input Voltage 120VAC/24VDC
Power Consumption: 14-14.5 watts
VR / V2MR: Remote Power Class 2 wiring, 0-10V Dimming, up to 100 Watts
V2P / V2MP: 50W IC or 60W Non-IC ELV (power supply inside J-box) ELV Dimming only

*Remote power supplies are ordered separately

SPECIFICATIONS

Construction: Die Cast Aluminum
Dimensions: Ø 2.34" Height 4.92"
Color Rendering: COB Chromaticity range within a 2-step MacAdam Ellipse
Average LED life: 60,000 hrs

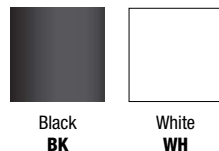


V2MP
Vanishing Point for Millwork Ceiling, with
ELV power supply in J-Box

LAMPING

	BEAM ANGLE REFERENCE 40°				
COLOR TEMPERATURE	24K	27K	30K	30D	35K
TOTAL LUMENS	1324.5	1180.9	1317	1037	1356.8
WATTS	14.37	14.36	14	14.45	14.43
LUMENS PER WATT (lm/w)	92	82.2	90.8	71.8	94
CRI	92.4	97.3	92	98.2	97.5
TM-30 DATA	R9: 60 Rf: 91 Rg: 99.6	R9: 97 Rf: 93.3 Rg: 98.8	R9: 57 Rf: 91 Rg: 98	R9: 90 Rf: 94.5 Rg: 100.3	R9: 92 Rf: 93.9 Rg: 100.9
LAMP LIFE	60,000 Hours, 70% Lumen Maintenance				

FINISH



Black
BK

White
WH

System	Type	Fixture	Head / Beam Spread Lens	Color Temperature	Finish
VR	HW24	TUBLD	NF	30K	WH
VR Vanishing Point Drywall (Plaster-In) with Remote Power supply (order separately), Title 24 V2P Vanishing Point Flush canopy to dry wall with ELV power supply in J-Box V2MR Vanishing Point Flush canopy for Millwork with Remote Power supply, Title 24 V2MP Vanishing Point Flush canopy for Millwork ELV power supply in J-Box	HW24 Hard Wire 24VDC	TUBLD Tubo Large Down Light	SP Spot 15° NF Narrow Flood 25° FL Flood 40° WF Wide Flood 60°	24K 2400K 27K 2700K 30K 3000K 30D 3000K Warm Dim to 1800K 35K 3500K	BK Black WH White* *Not available with Millwork

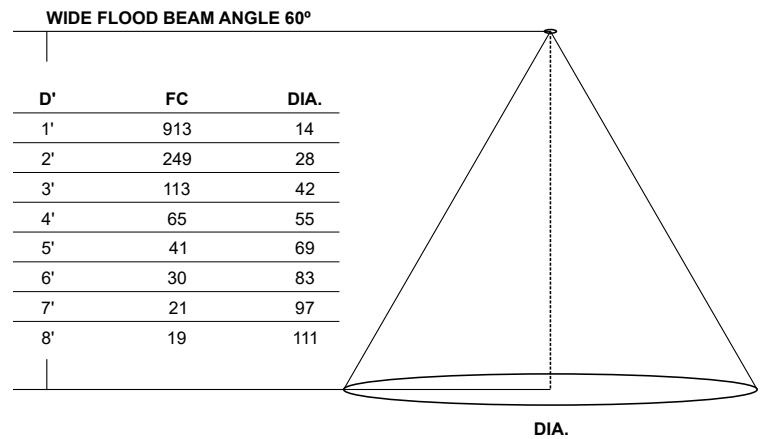
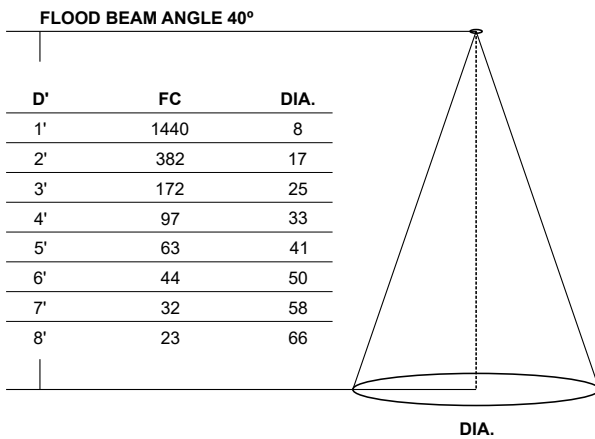
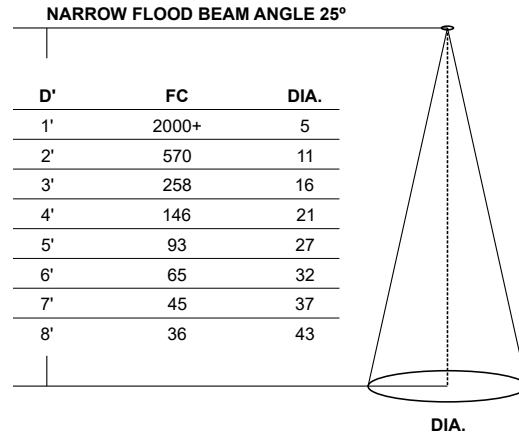
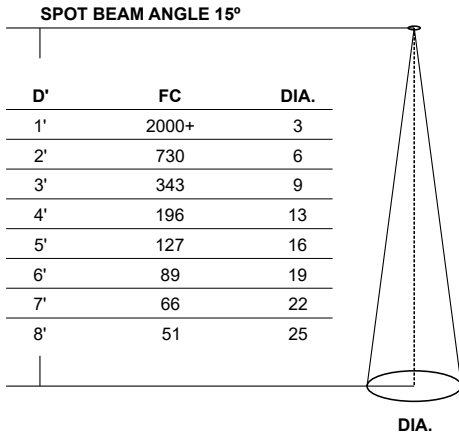
PROJECT	FIXTURE TYPE	DATE
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VANISHING POINT TUBO LARGE DOWN LIGHT

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D - Distance from TUBO LARGE DOWNLIGHT fixture
FC - Initial foot candles at the center of beam
DIA - Diameter



TUBO LARGE	ORDERING CODE
15° BEAM SPREAD	REF-1.75-SP
25° BEAM SPREAD	REF-1.75-NF
40° BEAM SPREAD	REF-1.75-FL
60° BEAM SPREAD	REF-1.75-WF

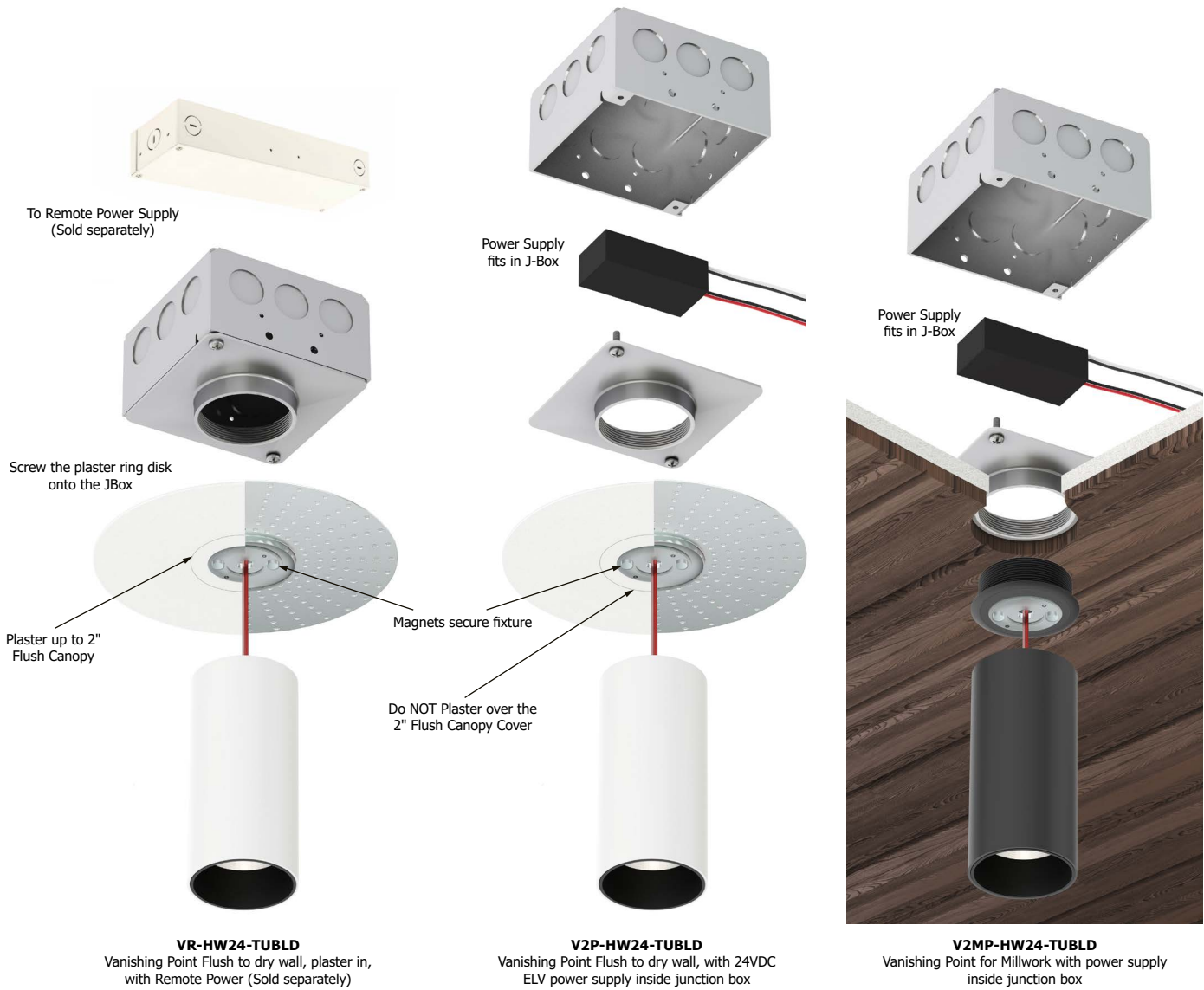
ADDITIONAL LENSES & ACCESSORIES

FILM LENS SOFT FOCUS		FILM LENS LINEAR SPREAD		HEXCELL LOUVER	
DIFFUSES A BEAM PATTERN TO PROVIDE EVEN ILLUMINATION		LINEAR SPREAD LENS DIRECTS LIGHT THROUGH 10° / 15° / 25° DEGREE BEAM LENS CREATING AN ELONGATED SHAPE, USED FOR LONG RECTANGLE PAINTINGS OR ART WORK. LINEAR SPREAD LENS DIRECTS LIGHT THROUGH 35° / 40° / 60° DEGREE BEAM LENS CREATING AN ELONGATED OVAL SHAPE, USED IN ART WORK AND WALL WASH APPLICATIONS.		HEXCELL LOUVER ACCESSORY FOR ADDITIONAL DIFFUSION.	
PRODUCT	TUBO LARGE 	PRODUCT	TUBO LARGE 	PRODUCT	HEXCELL LOUVER
ORDERING CODE	LF-TUBL-SF, MF, WF	ORDERING CODE	LF-TUBL-LS	ORDERING CODE	L016-H

PROJECT		FIXTURE TYPE		DATE	
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VANISHING POINT TUBO LARGE DOWN LIGHT

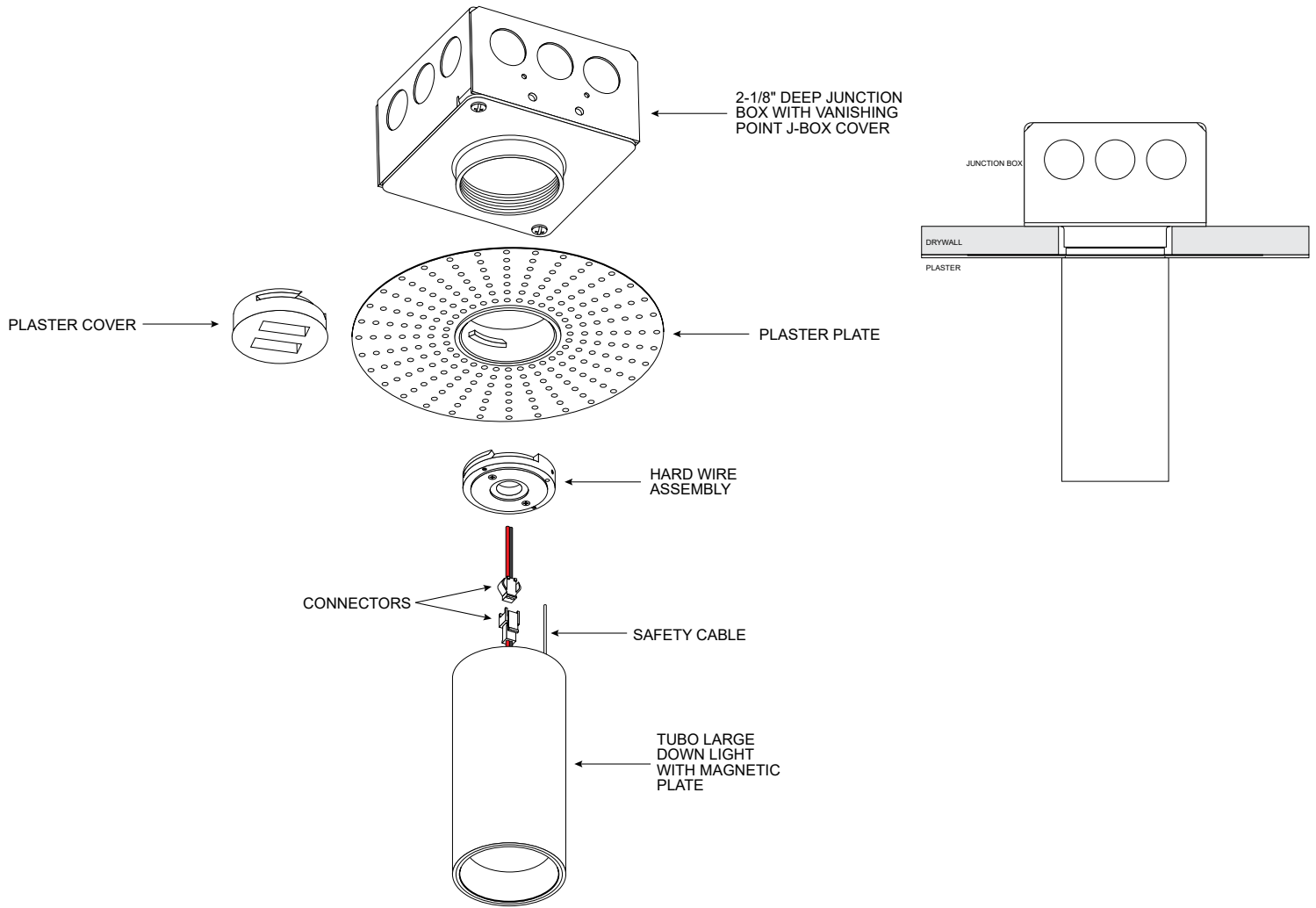
LED 24VDC









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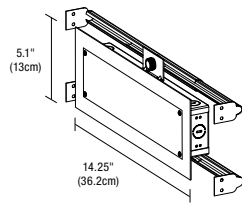
VANISHING POINT TUBO LARGE DOWN LIGHT

LED 24VDC



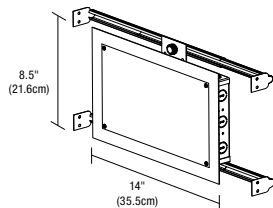
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0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS†				
ORDERING CODE	PSB-25W-010-24VDC 	PSB-60W-010-24VDC 	PSB-96W-010-24VDC 	PSB-2X96W-010-24VDC 
SPECIFICATIONS				
MAXIMUM LOAD	25W	60W	96W	2X96W
INPUT VOLTAGE	120VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN-WALL MOUNTING	PSB-25W-010-24VDC-IW	PSB-60W-010-24VDC-IW	PSB-96W-010-24VDC-IW	PSB-2X96W-010-24VDC-IW
0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS†				
ORDERING CODE	PSB-3X96W-010-24VDC 		PSB-4X96W-010-24VDC 	
SPECIFICATIONS				
MAXIMUM LOAD	3X96W		4X96W	
INPUT VOLTAGE	120-277VAC		120-277VAC	
OUTPUT VOLTAGE	24VDC		24VDC	
DIMENSIONS	14" X 10" X 3"		17" X 13" X 3"	
CLASSIFICATION	CLASS 2		CLASS 2	
IN-WALL MOUNTING	N/A		N/A	
DIMMING & CONTROLS				
PHILIPS SUNRISE: SR1200ZTUNV	•		•	
LUTRON DIVA: DVTV-WH, DVSTV-WH	•		•	
LUTRON NOVA T: NTSTV-DV-XX	•		•	
LUTRON GRAFIX EYE QS: QSGRJ-XP	•		•	
LUTRON RADIO RA2: RRD-10ND	•		•	
LEVITON: LEV40050	•		•	
LEVITON IP710-LFZ	•		•	
LEGRAND: ADPD4FBL3P2W4	•		•	



5.1 x 14.25 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-25W-010-24VDC-IW, PSB-60W-010-24VDC-IW, PSB-96W-010-24VDC-IW



8.5 x 14 inch In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-2X96W-010-24VDC-IW

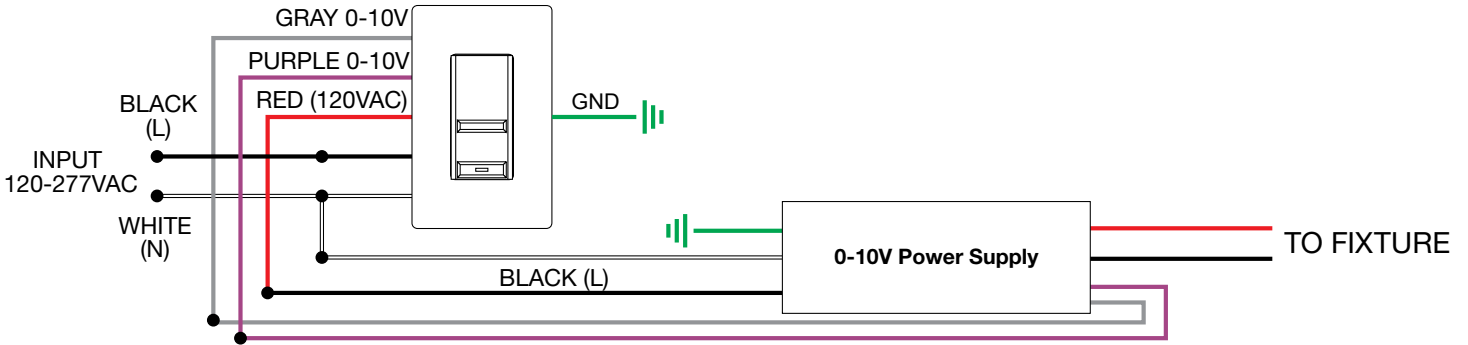
PROJECT		FIXTURE TYPE		DATE	
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SAMPLE WIRING DIAGRAMS 24VDC 010

Application: 0-10V Dimming Applications For Static White and Warm Dim 0-10V Dual Dimming.

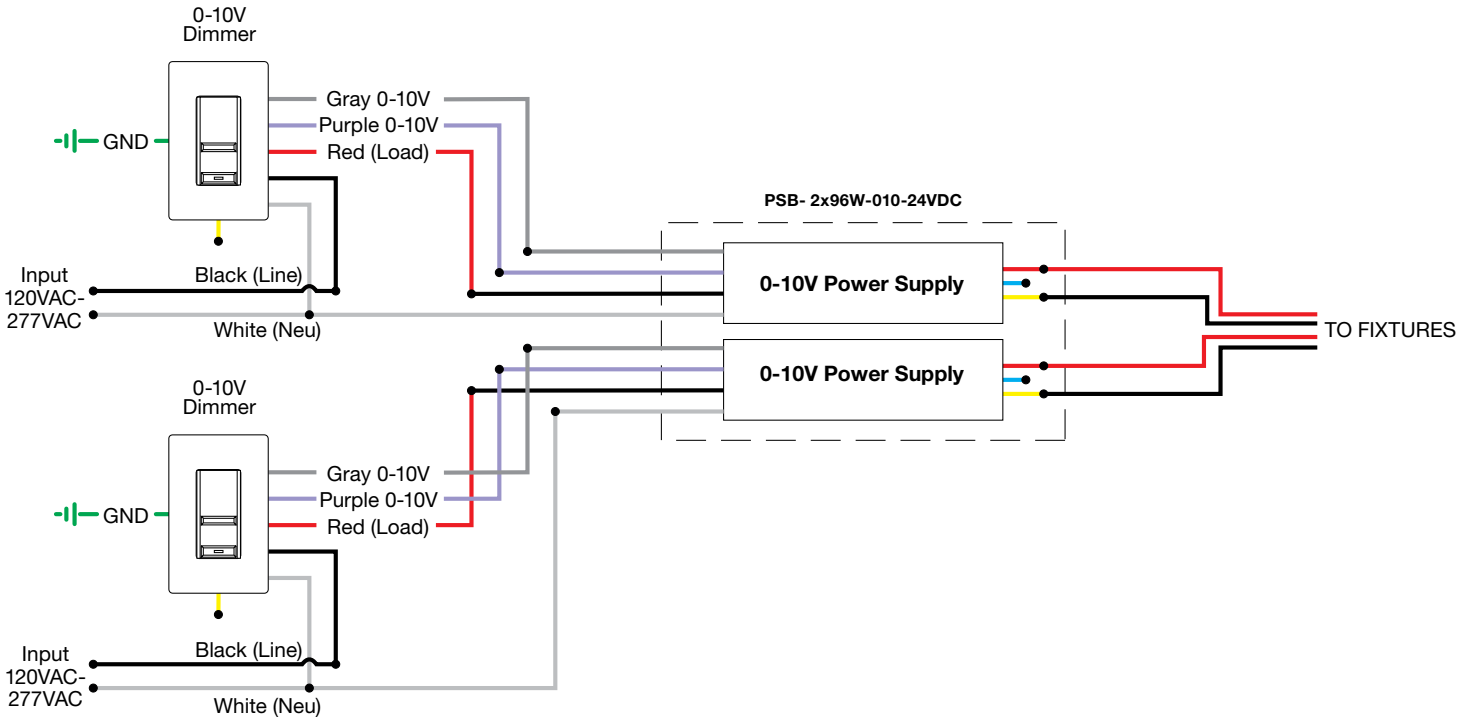
Dimming: Dimmable with 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locator light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)

0-10V DIMMER

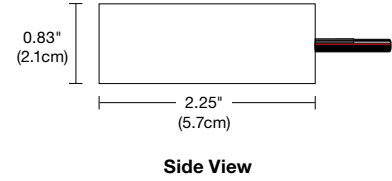
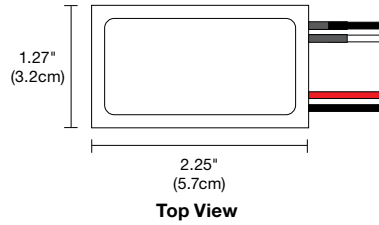
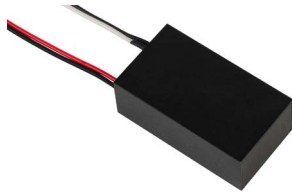


Application: Dual 0-10V dimming for Dynamic/Tunable White 2000K-4000K

Dimming: Dimmable with Dual 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locator light), Legrand Dimmer: ADPD4FBL3P2W4, Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)



PROJECT	FIXTURE TYPE	DATE
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DESCRIPTION

Compact, lightweight remote electronic 60W/24V LED Power Supply* converts standard 120VAC voltage to 24VDC and features built-in short-circuit protection. The low voltage output may be dimmed using an electronic low voltage dimmer. The Power Supply is certified to be used inside a standard Junction Box enclosure. Power Supply features short circuit and overload protection. Indoor applications only.

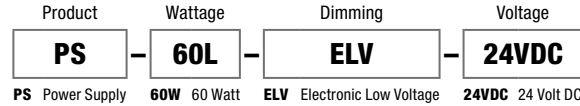
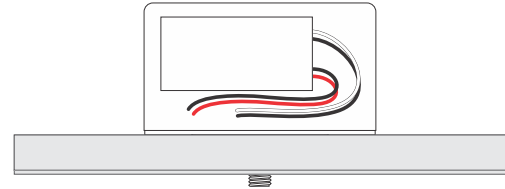
**Electrical Panels using Siemens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker.*

APPLICATIONS

Indoor*

To avoid overheating the power supply, install it in a ventilated remote location where air flows. Maintain proper spacing among power supplies when multiple power supplies are installed in the same remote location.

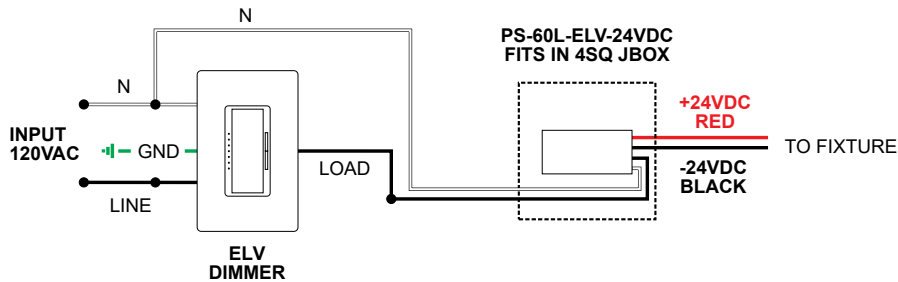
- POWER INPUT** 120 volts AC, 60Hz
- POWER OUTPUT** Class 2; 24 volts DC 2.5A 60 watt maximum
- DIMENSIONS** 2.25" x 1.25" x 0.83"
- DIMMER TYPE** Electronic Low Voltage Dimmer Lutron: Diva #DVELV-300P; Skylark #SELV-300P; Maestro #MAELV-600



SAMPLE WIRING DIAGRAMS 24VDC ELV

Application: ELV dimming for Static White

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

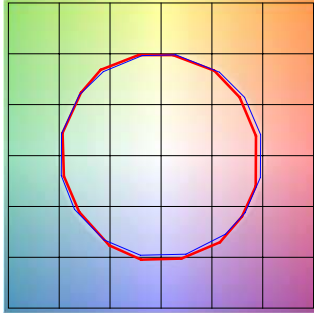


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TM-30-15 DATA: The data below is for Tubo. Consistent color temperatures among multiple track heads is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2400K | Rf: 91.0 | Rg: 99.6

Color Vector Graphic

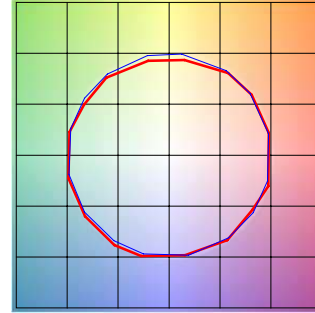


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	90.1	-4.6%	-0.3%
2	90.6	-4.0%	2.7%
3	88.6	-1.6%	5.1%
4	93.1	-0.9%	2.7%
5	94.6	1.1%	3.3%
6	94.6	2.9%	1.0%
7	94.1	-0.2%	-2.7%
8	97.1	-0.9%	-1.2%
9	94.5	-2.4%	1.0%
10	90.3	-2.5%	4.5%
11	88.6	1.5%	7.1%
12	89.2	4.1%	1.5%
13	90.6	3.4%	-5.3%
14	84.5	3.5%	-8.9%
15	92.3	-0.5%	-4.7%
16	85.4	-2.9%	-9.4%

2700K | Rf: 93.3 | Rg: 98.8

Color Vector Graphic

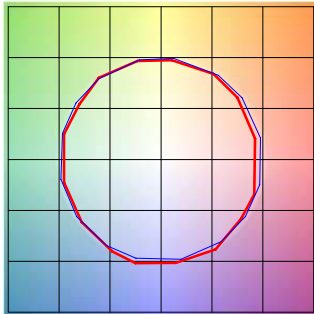


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	95.9	0.3%	0.7%
2	95.5	0.6%	-2.0%
3	93.7	-0.8%	-2.8%
4	89.8	-5.2%	-4.0%
5	93.1	-5.2%	0.2%
6	93.9	-2.4%	2.9%
7	89.0	-3.1%	5.5%
8	93.6	0.5%	3.7%
9	92.9	1.2%	3.8%
10	92.7	2.0%	3.9%
11	93.7	3.2%	2.9%
12	93.7	2.7%	-1.8%
13	94.9	-0.7%	-3.4%
14	94.7	1.3%	-2.4%
15	92.9	-2.1%	2.0%
16	92.2	1.7%	-5.0%

3000K | Rf: 90.5 | Rg: 98.0

Color Vector Graphic

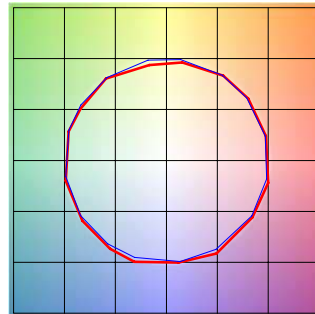


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.7	-5.3%	0.5%
2	90.7	-3.6%	2.8%
3	89.4	-1.7%	4.6%
4	93.3	-2.1%	1.4%
5	94.6	-0.8%	2.2%
6	96.2	0.6%	-0.2%
7	92.5	-3.4%	-0.9%
8	96.4	-1.7%	0.5%
9	92.0	-2.4%	3.7%
10	87.3	-1.1%	7.1%
11	87.6	1.7%	8.2%
12	89.2	4.8%	0.4%
13	90.6	2.5%	-5.7%
14	86.7	3.3%	-9.0%
15	90.9	-2.4%	-3.9%
16	84.1	-3.5%	-10.3%

3500K | Rf: 93.9 | Rg: 100.9

Color Vector Graphic

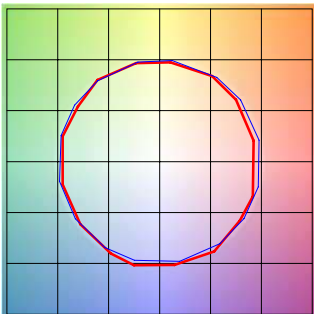


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	95.7	0.6%	0.3%
2	96.7	0.8%	-1.2%
3	96.0	0.2%	-1.0%
4	94.3	-2.5%	-1.9%
5	93.2	-4.8%	-0.2%
6	97.1	-0.3%	1.4%
7	93.8	-1.7%	3.2%
8	97.3	0.2%	1.3%
9	93.3	0.8%	4.2%
10	91.4	1.4%	5.2%
11	90.6	2.8%	4.5%
12	92.6	4.4%	0.5%
13	96.3	0.7%	-1.9%
14	93.9	3.6%	-1.8%
15	92.4	1.2%	-0.9%
16	91.5	2.3%	-3.3%

3000D | Rf: 90.5 | Rg: 98.0

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.7	-5.3%	0.5%
2	90.7	-3.6%	2.8%
3	89.4	-1.7%	4.6%
4	93.3	-2.1%	1.4%
5	94.6	-0.8%	2.2%
6	96.2	0.6%	-0.2%
7	92.5	-3.4%	-0.9%
8	96.4	-1.7%	0.5%
9	92.0	-2.4%	3.7%
10	87.3	-1.1%	7.1%
11	87.6	1.7%	8.2%
12	89.2	4.8%	0.4%
13	90.6	2.5%	-5.7%
14	86.7	3.3%	-9.0%
15	90.9	-2.4%	-3.9%
16	84.1	-3.5%	-10.3%

PROJECT	FIXTURE TYPE	DATE
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