

LAZER STRIP COB™ WITH 4 PIN CONNECTORS

STATIC WHITE & STATIC COLOR, 3W & 5W 24VDC

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.28.20



24KZ - 2400K Amber White



27KZ - 2700K Very Warm White



RZ - Red



BZ - Blue



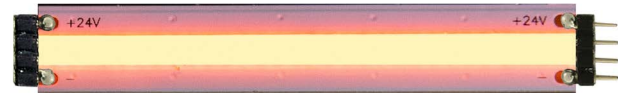
30KZ - 3000K Warm White



35KZ - 3500K Neutral White



GZ - Green



AZ - Amber

FEATURES & BENEFITS

- 148 LEDs per foot provide uniform light distribution without dots and low glare
- 4 pin connectors for fast labor during installation
- Gold Plated Contacts prevent oxidation to ensure longevity of LED
- 3 oz of copper with 12 mm wide board provides better heat dissipation and less voltage drop
- 24VDC LED Lazer Strip COB (Chip on Board) offers 4 static color temperatures all with high CRI
- Amber, Red, Blue, and Green options available
- Solid State Power Supply offers 85-90% efficiency compared to magnetic at 80%.
- 50-watt power supply fits into J Box (PS-60L-ELV-24VDC)

SPECIFICATIONS

- 24VDC LED Lazer Strip with 120 degree beam angle
- Available in 3.3 or 4.4 watts
- May be field-cut in 2.4 inch increments
- Sold in 1 foot long increments
- Class 2 Damp Listing; 100 watt limit per power supply

APPLICATIONS

- Indoor, damp, or dry locations
- Place on ceiling or wall
- Coves, toe-kicks, under cabinets and shelves, bookcases, drawers, pathways, accent lighting, task lighting, and general illumination

LAMP DATA:

- Average life is 50,000 hours
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
- Includes a 5-year pro-rated warranty

INCLUDED COMPONENTS

- LS3 or LS5 24VDC LED Lazer Strip
- 3M™ Adhesive Tape Backing

ACCESSORIES (SOLD SEPARATELY)

- 24VDC 4 pin Jumper Connector
- Flexible Connectors
- Mounting Straps & Clips

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

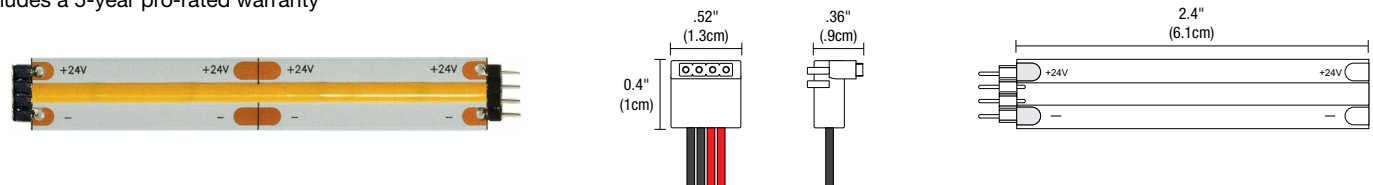
- ELV (Electronic Low Voltage)
- 0-10V
- UNI Driver: Universal Dimming (TRIAC, ELV, 0-10V) with corresponding dimmer
- Lutron Hi-Lume®

*In-Wall Mounting Kits available for select Power Supplies

MOUNTING

- Industrial 3M tape lines back of strip for self-adhesion to most smooth finished surfaces
- Additional 4 pin Connectors, Mounting Straps, and Clips may be needed for some applications (sold separately)

WATTS PER FOOT	LS3				LS5			
	3W (3.3 watts)				5W (4.4 watts)			
COLOR TEMPERATURE	24K	27K	30K	35K	24K	27K	30K	35K
LUMENS PER FOOT (lm/ft)	185	203	223	255	241	265	289	331
LUMENS PER WATT (lm/w)	105	115	126	145	55	60	66	75



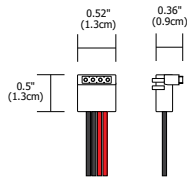
System	Type	Voltage	Length In Feet	Color Temperature
LS3	4PIN	24V	30	27KZ
LS3 Lazer Strip Commercial, 3.3 watts per foot LS5 Lazer Strip Commercial, 4.4 watts per foot	4PIN 4 Pin	24V 24 Volt	1-30 1-30 feet (LS3) 1-20 1-20 feet (LS5)	24KZ 2400K Very Warm White 27KZ 2700K Incandescent White 30KZ 3000K Warm White (Halogen) 35KZ 3500K Neutral White AZ Amber RZ Red BZ Blue GZ Green

PROJECT	FIXTURE TYPE	DATE
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LAZER STRIP COB™ WITH 4 PIN CONNECTORS

STATIC WHITE & STATIC COLOR, 3W & 5W 24VDC

LED SOFT STRIP ACCESSORIES



B90 POWER END FEED

24VDC 4Pin

Product	Type	Size
LC	PFE	B90
LC Light Channel	PFE Power Feed	B90 Bends 90 Degrees



FLEXIBLE CONNECTOR

Available in 3, 6, 12, 36 and 96-inch versions, Soft Strip flexible connectors link two sections of Soft Strip end to end.

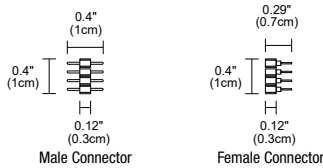
Product	Type	Size
SS	CFX	3IN
SS Soft Strip	CFX Flexible Connector	3IN 3 inches 36IN 36 inches 6IN 6 inches 96IN 96 inches 12IN 12 inches 144IN 144 inches



POWER FEED CONNECTOR CORD

The 6 foot long power feed connector cord (included with each Soft Strip) conducts power from a DC transformer to Soft Strip. It connects to the male end of the Soft Strip. The optional 12 foot long power feed connector cord (sold separately) is available for designs requiring a longer cord.

Product	Type	Size
SS	PFE	6FT
SS Soft Strip	PFE Power Feed Connector Cord	6FT 6 Foot 12FT 12 Foot

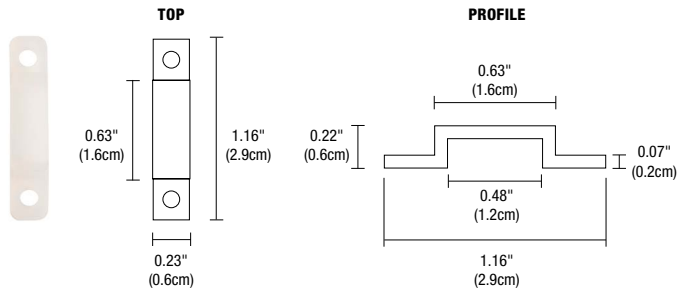


EXTRA PIN CONNECTORS

Extra soldering pin connectors. Male and female.

System	Voltage	Color Temperature
SS	ML	CON
SS Soft Strip	FE Female Connector ML Male Connector	CON Connector White

Outdoor 24VDC Lazer Strip: Mounting Straps and Clips (sold separately)



LAZER STRIP U-STRAP

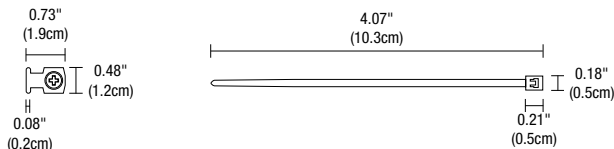
Use every 6 - 12 inches for extra support (30/package). Compatible with both Indoor and Outdoor Lazer Strips. The U-Strap is included with Outdoor Lazer Strips, and is ordered separately as a replacement part or for Indoor Lazer Strips.

Product	Type
SS	SU
SS Lazer Strip	SU U-Strap



LAZER STRIP TIE STRAP

Use every 6 - 12 inches for extra support (30/package). Compatible with both Indoor and Outdoor Lazer Strips. The Tie Strap is included with Outdoor Lazer Strips, and is ordered separately as a replacement part or for Indoor Lazer Strips.



Product	Type
SS	ST
SS Lazer Strip	ST Tie Strap

PROJECT	FIXTURE TYPE	DATE

Power Consumption per Linear Foot: Maximum length before refeeding

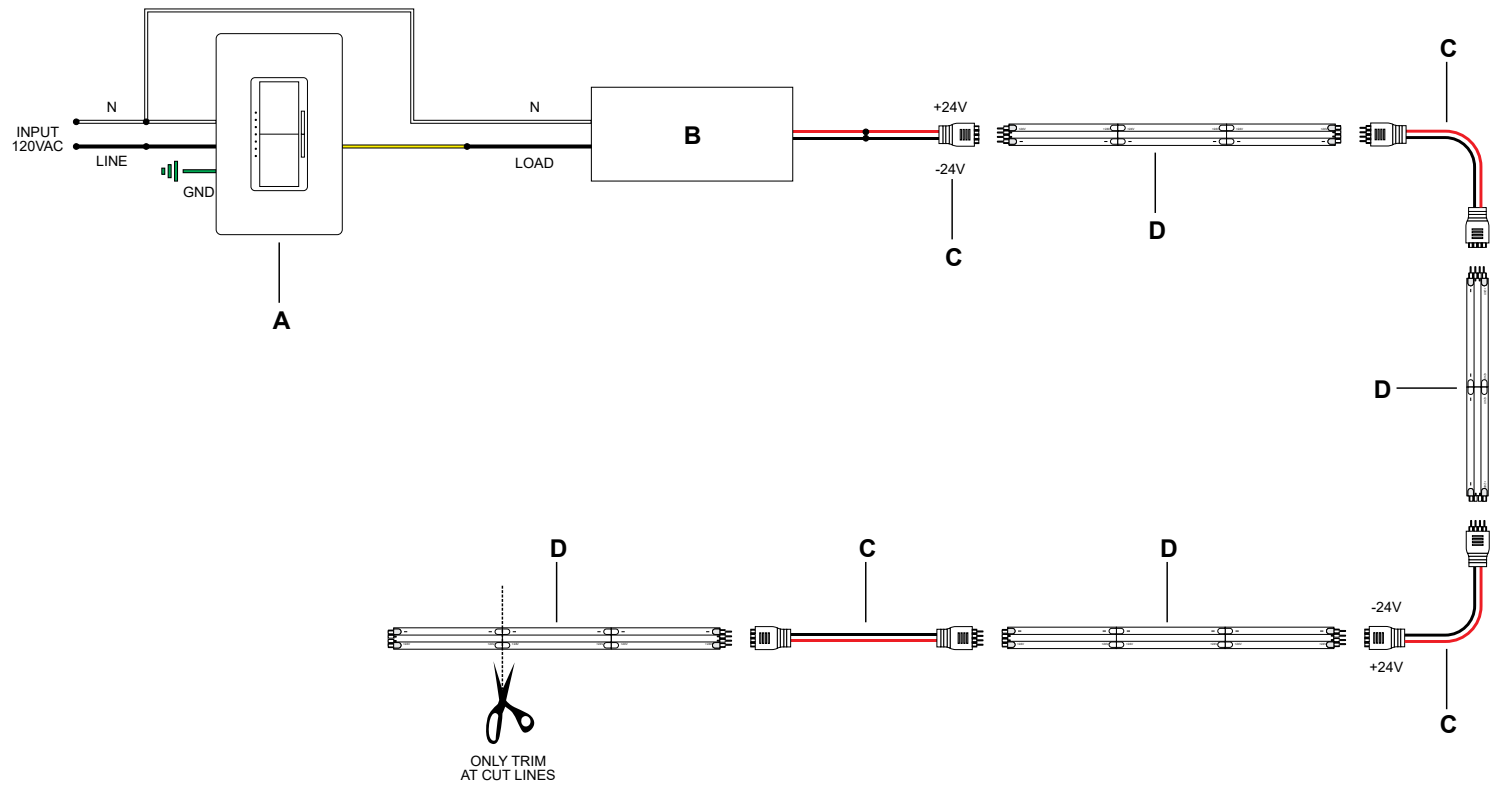
WATTS PER FOOT	LS3				LS5			
	3W (3.3 watts)				5W (4.4 watts)			
COLOR TEMPERATURE	24K	27K	30K	35K	24K	27K	30K	35K
LUMENS PER FOOT (lm/ft)	185	203	223	255	241	265	289	331
LUMENS PER WATT (lm/w)	105	115	126	145	55	60	66	75

LS3 24VDC LAZER STRIP (3.3 WATTS PER FOOT)																														
MAXIMUM LENGTH BEFORE REFEEDING: 30FT*																														
LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TOTAL WATTAGE	3.3	6.6	10	13.2	15	16.5	19.8	16.5	23.1	26.4	29.7	33	36.3	39.6	42.9	46.2	49.5	52.8	56.1	59.4	62.7	66	69.3	72.6	75.9	79.2	82.5	85.8	89.1	92.4

*20 feet maximum with wet locations; 24 feet maximum when used with PSB-60W-ELV-24VDC

LS5 STATIC WHITE 24VDC LAZER STRIP (4.4 WATTS PER FOOT)																				
MAXIMUM LENGTH BEFORE REFEEDING: 20FT																				
LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
TOTAL WATTAGE	5	10	15	20	24	29	34	39	44	48	53	58	63	68	72	77	82	87	92	96

Indoor Electronic Low Voltage Dimming (ELV) Sample Wiring Diagram: The example below is using a Class 2, 24VDC 60 watts ELV Power Supply with 60 watts output. Dimming is possible but not recommended for Static White Lazer Strips. See the Power Supply comparison chart for other compatible ELV Power Supply and dimmer options.



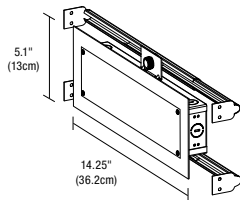
PROJECT		FIXTURE TYPE		DATE	
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ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS ^{†‡}				
ORDERING CODES	PS-60L-ELV-24VDC 	PSB-60W-ELV-24VDC 	PSB-2X60W-ELV-24VDC 	PSB-100W-ELV-24VDC
SPECIFICATIONS				
MAXIMUM LOAD	60W NON-IC, 50W-IC (FITS IN JBOX)	60W	2X60W	96W
INPUT VOLTAGE	120VAC	120VAC	120VAC	120VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	2.25" X 1.25" X 0.83"	8.125" X 2" X 1.75"	12.15" X 6.48" X 2.18"	9.25" X 3.5" X 2"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN WALL MOUNTING	N/A	PSB-60W-ELV-24VDC-IW	PSB-2X60W-ELV-24VDC-IW	PSB-100W-ELV-24VDC-IW
ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS ^{†‡}				
ORDERING CODES	PSB-2X100W-ELV-24VDC 	PSB-3X100W-ELV-24VDC 	PSB-4X100W-ELV-24VDC 	
SPECIFICATIONS				
MAXIMUM LOAD	2X96W	3X96W	4X96W	
INPUT VOLTAGE	120VAC	120VAC	120VAC	
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	
DIMENSIONS	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"	
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	
IN WALL MOUNTING	PSB-2X100W-ELV-24VDC-IW	N/A	N/A	
DIMMING AND CONTROLS				
LUTRON DIVA: DVELV-300P	•	•	•	
LUTRON SKYLARK: SELV-300P	•	•	•	
LUTRON RADIO RA2: RRD-6NA	•	•	•	
LUTRON MAESTRO: MAELV-600	•	•	•	
LEGRAND ADORNE: ADTP-703TUM4	•	•	•	

[†]22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White (2K4K) color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-lume® Power Supplies. Dynamic Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

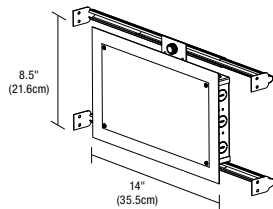
[‡]Electrical Panels using Siemens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker

With N-Lite Dimming Do not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies



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-60W-ELV-24VDC-IW
PSB-100W-ELV-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.

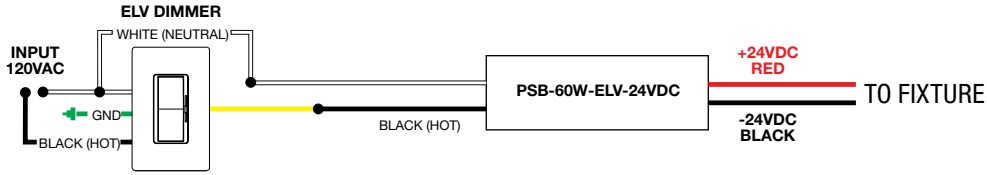
Ordering Codes: PSB-2X60W-ELV-24VDC-IW
PSB-2X100W-ELV-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	
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SAMPLE WIRING DIAGRAMS 24VDC ELV

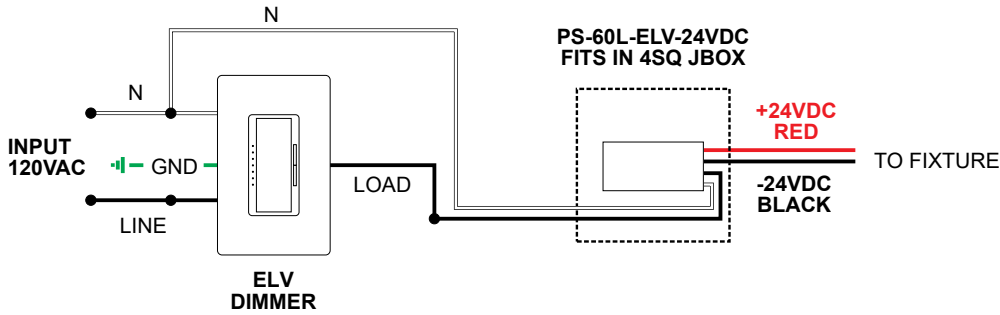
Application: ELV dimming for Static White

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









Application: ELV dimming for Static White

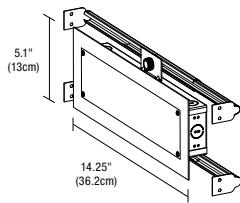
Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



PROJECT		FIXTURE TYPE		DATE	
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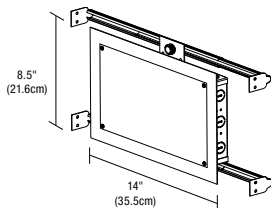
0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS†				
ORDERING CODE	PSB-25W-010-24VDC 	PSB-60W-010-24VDC 	PSB-96W-010-24VDC 	PSB-2X96W-010-24VDC 
SPECIFICATIONS				
MAXIMUM LOAD	25W	60W	96W	2X96W
INPUT VOLTAGE	120VAC	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	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.

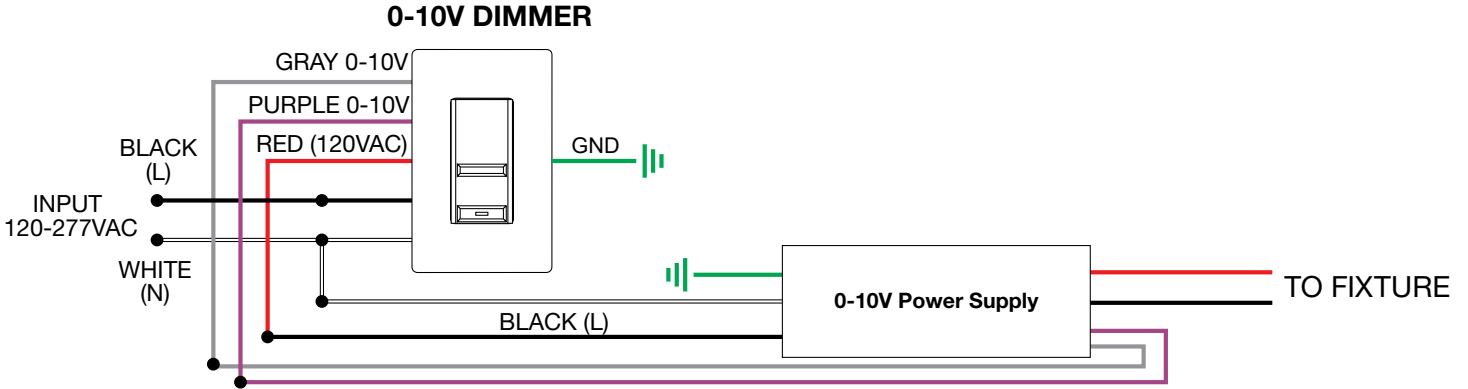
Ordering Codes: PSB-2X96W-010-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	
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SAMPLE WIRING DIAGRAMS 24VDC 010

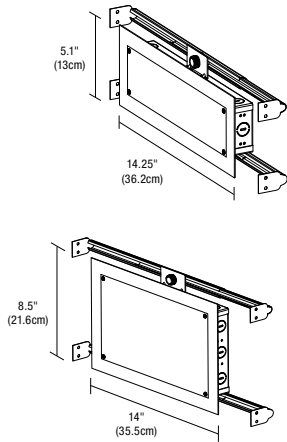
Application: 0-10V Dimming Applications For Static White and Warm Dim 0-10V Dual Dimming.

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)



PROJECT		FIXTURE TYPE		DATE	
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IN WALL MOUNTING OPTIONS



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.

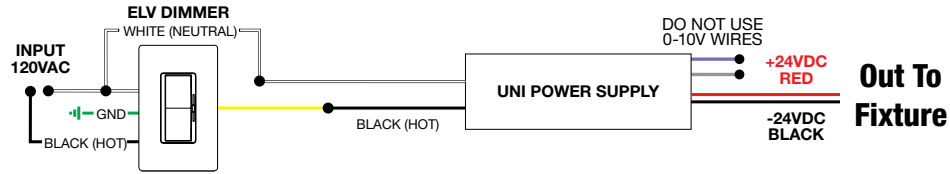
Ordering Codes 5.1 x 14.25 inch: PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

Ordering Codes 8.5 x 14.25 inch: PSB-2X40W-UNI-24VDC-IW
PSB-2X60W-UNI-24VDC-IW
PSB-2X96W-UNI-24VDC-IW

WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

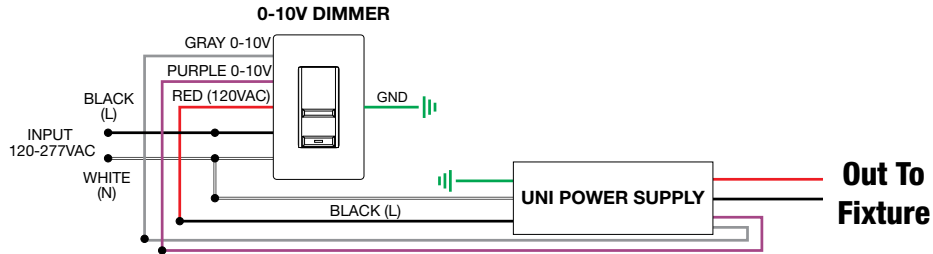
Application: ELV dimming for Static White and Warm Dim

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



Application: 0-10V dimming for Static White

Dimming: Dimmable with 0-10V dimmer: 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

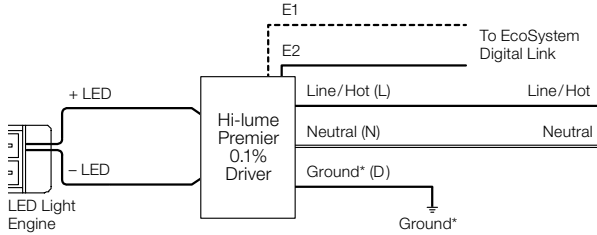


PROJECT		FIXTURE TYPE		DATE	
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LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®†			
ORDERING CODES	L3D0-96W24V-U	2-WIRE ECOSYSTEM LTEA4U1UKL-CV240	3-WIRE ECOSYSTEM L3DA4U1UKL-CV240
SPECIFICATIONS			
MAXIMUM LOAD	96W	5W-40W	5W-40W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	10.5" X 5.5" X 2"	4" X 4.89" X 2.62"	4" X 4.89" X 2.62"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
DIMMING AND CONTROLS			
RADIO RA2	•	•	•
HOMEWORKS QS	•	•	•
PHPM-3F-120	•	•	•
PHPM-3F-DV	•	•	•
BCI-0-10	•	•	•

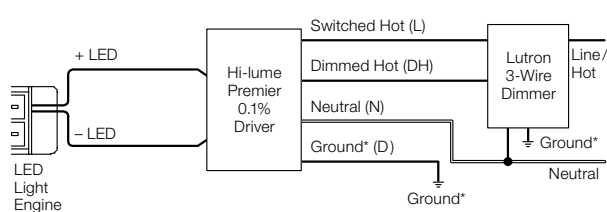
†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

2-Wire EcoSystem Wiring Diagram



LTEA4U1UKL-CV240

3-Wire Wiring Diagram



L3DA4U1UKL-CV240

PROJECT	FIXTURE TYPE	DATE
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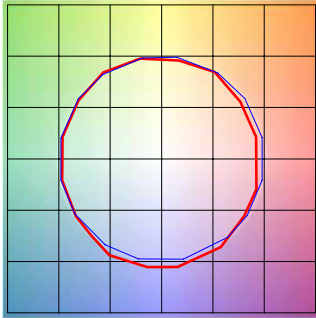
LED STRIP TM30 DATA

STATIC WHITE & STATIC COLOR, 3W & 5W 24VDC

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare Lazer 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.

2400K | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

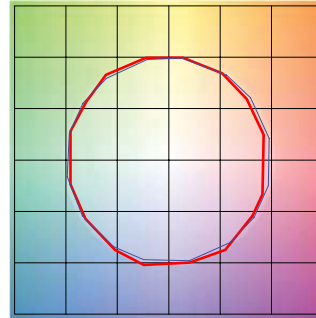


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	89.0	-4.8%	1.1%
2	90.4	-3.7%	3.2%
3	88.1	-0.7%	5.2%
4	93.0	-2.1%	0.9%
5	94.5	-0.1%	2.0%
6	94.7	1.7%	0.6%
7	93.7	-1.9%	-1.5%
8	96.8	-1.2%	0.2%
9	91.9	-1.8%	3.7%
10	88.8	-0.9%	6.1%
11	87.5	3.8%	7.1%
12	89.6	4.3%	0.3%
13	88.1	4.2%	-9.1%
14	82.5	2.8%	-10.6%
15	91.4	-2.1%	-4.2%
16	84.0	-3.6%	-9.9%

2700K | Rf: 89.5 | Rg: 98.3

Color Vector Graphic

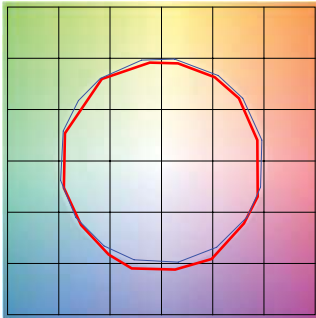


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.6	-5.2%	0.9%
2	90.3	-3.6%	2.9%
3	88.4	-1.5%	5.0%
4	91.9	-2.5%	1.4%
5	93.5	-0.9%	2.3%
6	95.7	0.9%	-0.4%
7	91.1	-3.7%	-0.5%
8	95.8	-2.0%	0.4%
9	90.5	-2.6%	4.5%
10	84.9	-1.1%	8.7%
11	85.0	2.3%	9.8%
12	88.1	5.5%	1.5%
13	90.9	2.9%	-5.2%
14	86.2	4.3%	-8.9%
15	90.7	-2.4%	-3.6%
16	83.0	-2.7%	-11.3%

3000K | Rf: 88.7 | Rg: 98.2

Color Vector Graphic

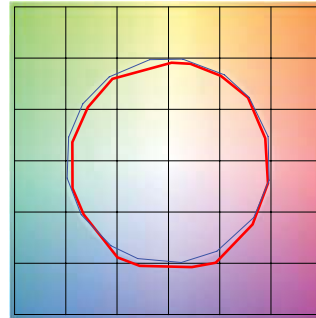


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	0.8%
2	90.2	-3.7%	2.7%
3	88.3	-1.6%	4.9%
4	92.2	-2.0%	1.8%
5	91.0	-3.5%	1.8%
6	95.8	0.4%	-0.4%
7	90.2	-4.4%	-0.0%
8	94.8	-2.6%	0.8%
9	89.2	-2.9%	6.0%
10	81.4	-1.5%	9.7%
11	82.9	2.3%	10.5%
12	88.3	6.7%	1.9%
13	91.9	2.8%	-4.0%
14	86.3	4.9%	-8.3%
15	87.1	-1.2%	-6.1%
16	83.2	-1.7%	-11.6%

3500K | Rf: 88.1 | Rg: 97.1

Color Vector Graphic



■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	87.8	-5.2%	1.0%
2	90.8	-3.3%	2.3%
3	89.8	-1.6%	3.9%
4	91.0	-2.7%	0.9%
5	90.0	-5.4%	0.7%
6	95.6	-0.9%	-0.4%
7	90.0	-5.3%	1.4%
8	91.8	-3.6%	3.0%
9	87.1	-2.9%	7.3%
10	80.1	-1.3%	12.2%
11	81.8	4.1%	10.5%
12	88.2	5.1%	2.3%
13	92.4	2.1%	-3.8%
14	86.6	5.0%	-7.9%
15	86.2	-0.7%	-6.8%
16	84.5	-2.1%	-7.0%

PROJECT	FIXTURE TYPE	DATE
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