

LL9 LL18 LL30 LL36 LL54

Line LED LL series is a small profile high performance LED strip. The durable, but flexible products feature a heavier copper board core for better heat dissipation and even illumination over long runs.

Available in single row configurations ranging from 9 to 54 LEDs per foot with multiple power feed and connector options. Line LED LL series feature outstanding color consistency with single binning and CRI up to 98.

**Mounting**  
 LLED strip is equipped with 3M™ adhesive transfer tape (9472LE).

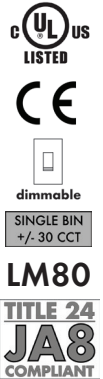
**Applications**  
 Indoor only - above and below cabinets, cove lighting, counter accent, architectural reveals, under banister, display and book cases, etc.

**Approvals**  
 Class 2 damp listed

**Operating voltage**  
 24 VDC

**Average life**  
 50,000 hours

**Warranty**  
 5 years



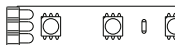
Technical information

MODEL	LL9	LL18	LL30	LL36	LL54
LEDS/ft	9	18	30	36	54
Light output 3000K	65 lum/ft	125 lum/ft	203 lum/ft	253 lum/ft	354 lum/ft
Average power consumption (for 15' section)	1.0 W/ft	1.5 W/ft	2.5 W/ft	3.0 W/ft	4.5 W/ft
Cutting increment	6.50"	4.00"	2.50"	2.00"	1.3"
Efficacy lum/watt	65	83	91	84	79
Maximum run length (in series)	100 ft	100 ft	48 ft	39 ft	26 ft
Dimensions	0.39" W 0.09" H	0.39" W 0.09" H	0.39" W 0.09" H	0.39" W 0.09" H	0.39" W 0.09" H

CCT INFO/LUMEN MULTIPLIER		TM-30-15			
Color temperature	Multiplier (referenced from 3000K)	CRI	R <sub>f</sub>	R <sub>g</sub>	R <sub>9</sub>
2200K	0.93	86	87	96	34
2400K	0.80	98	95	101	92
2700K	0.85	98	94	101	90
2900K	0.89	98	94	102	94
3000K	1.00	96	95	104	95
3500K	1.07	97	94	104	98
4100K	1.35	92	87	96	66

SECTION START/END OPTIONS

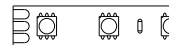
Female connector



Male connector



No connector



Soldered leads (72")



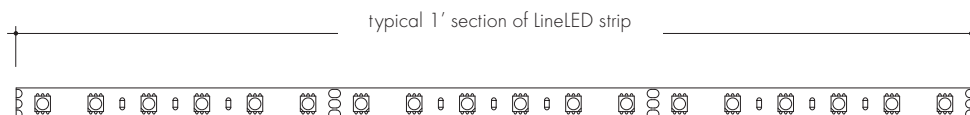
Ordering code

MODEL	COLOR TEMPERATURE	SECTION START	SECTION END	LENGTH
LL9	22K	F	M	
LL9	22K - 2200K	F - Female connector	F - Female connector	view table above for increment options and maximum run limits
LL18	24K - 2400K	M - Male connector	M - Male connector	
**LL30	27K - 2700K	*SL - Soldered lead wires (72")	*SL - Soldered lead wires (72")	
**LL36	29K - 2900K	NC - No connector	*NC - No connector	
**LL54	30K - 3000K 35K - 3500K 41K - 4100K			

\*LL54 only available in this option  
 \*\* Title 24 JA8 Compliant

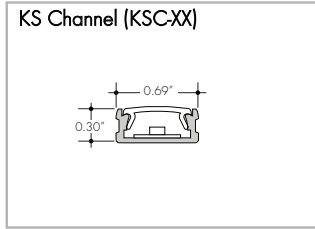
Power consumption per linear foot - loads tested with PSD series of power supplies (page3)

Length of strip (LF)	LL9		LL18		LL30		LL36		LL54	
	W/ft	Total wattage	W/ft	Total wattage	W/ft	Total wattage	W/ft	Total wattage	W/ft	Total wattage
1	1.20	0.90	1.65	1.65	2.70	2.70	3.25	3.25	5.35	5.30
2	1.20	1.90	1.65	3.30	2.70	5.40	3.25	6.50	5.30	10.60
3	1.20	2.70	1.65	4.95	2.70	8.10	3.25	9.75	5.25	15.80
4	1.20	3.70	1.63	6.58	2.65	10.60	3.20	12.80	5.20	20.60
5	1.15	4.90	1.63	8.21	2.65	13.25	3.20	16.00	5.15	26.00
6	1.15	6.10	1.62	9.83	2.65	15.90	3.15	18.90	5.10	30.80
7	1.15	7.10	1.62	11.45	2.60	18.20	3.15	22.05	5.05	35.70
8	1.10	8.10	1.62	13.07	2.60	20.80	3.10	24.80	5.00	40.00
9	1.10	8.60	1.60	14.67	2.60	23.40	3.10	27.90	4.95	44.80
10	1.10	9.60	1.60	16.50	2.55	25.50	3.05	30.50	4.90	48.90
11	1.05	10.90	1.57	18.07	2.55	28.05	3.05	33.50	4.85	53.30
12	1.05	11.90	1.57	19.64	2.55	30.60	3.00	36.00	4.80	57.40
13	1.05	12.90	1.57	21.21	2.50	32.50	3.00	39.00	4.70	60.60
14	1.05	14.10	1.55	22.76	2.50	35.00	3.00	42.00	4.60	64.30
15	1.00	14.80	1.55	24.31	2.50	37.50	3.00	45.00	4.50	67.40
16	1.00	15.60	1.55	25.86	2.45	39.20	2.95	47.20	4.40	70.50
17	1.00	16.80	1.52	27.38	2.45	41.65	2.95	50.15	4.35	73.40
18	1.00	17.80	1.52	28.90	2.45	44.10	2.90	52.50	4.30	77.00
19	1.00	18.80	1.52	30.42	2.40	45.60	2.90	55.10	4.25	81.30
20	0.95	18.90	1.50	31.20	2.40	48.00	2.85	57.00	4.20	83.50
21	0.95	19.84	1.50	32.70	2.40	50.40	2.85	59.85	4.10	85.70
22	0.95	20.78	1.50	34.20	2.35	51.70	2.80	61.60	4.00	87.10
23	0.95	21.72	1.48	35.68	2.35	54.05	2.80	64.60	3.90	88.80
24	0.95	22.66	1.47	37.15	2.35	56.40	2.75	66.00	3.80	90.10
25	0.95	23.60	1.47	38.62	2.30	57.50	2.75	68.75	3.70	92.30
26	0.95	24.54	1.45	40.07	2.30	59.80	2.70	70.20	3.60	93.60
27	0.95	25.48	1.45	41.52	2.30	62.10	2.70	72.90		
28	0.95	26.42	1.43	42.20	2.25	63.00	2.65	74.20		
29	0.95	27.46	1.42	43.00	2.25	65.25	2.65	76.85		
30	0.95	28.30	1.40	43.70	2.25	67.50	2.60	78.00		
31	0.95	29.06	1.40	45.10	2.20	68.20	2.60	80.60		
32	0.95	29.82	1.38	46.50	2.20	70.40	2.55	81.60		
33	0.95	30.58	1.37	47.70	2.20	72.60	2.55	84.15		
34	0.95	31.34	1.37	49.00	2.15	73.10	2.50	85.00		
35	0.95	32.10	1.36	50.45	2.15	75.25	2.50	87.50		
36	0.95	32.86	1.36	51.70	2.15	77.40	2.45	88.20		
37	0.95	33.62	1.36	52.50	2.10	77.70	2.45	90.65		
38	0.95	34.38	1.36	53.00	2.10	79.80	2.40	91.20		
39	0.95	35.14	1.35	53.90	2.10	81.90	2.40	93.60		
40	0.90	35.90	1.35	54.40	2.05	82.00				
41	0.90	36.65	1.35	55.75	2.05	84.05				
42	0.90	37.40	1.34	57.09	2.05	86.10				
43	0.90	38.15	1.34	58.43	2.02	86.90				
44	0.90	38.90	1.33	59.76	2.00	88.00				
45	0.90	39.65	1.33	61.07	2.00	90.00				
46	0.90	40.40	1.32	61.97	1.96	90.20				
47	0.90	41.15	1.32	62.70	1.95	91.65				
48	0.90	41.90	1.31	63.50	1.95	93.60				
49	0.90	42.65	1.31	64.05						
50	0.90	43.40	1.30	64.80						
51-60	0.85	50.50	1.30 - 1.25	65.20 - 70.80						
61-70	0.80	56.20	1.25 - 1.20	71.00 - 76.20						
71-80	0.75	64.50	1.20 - 1.10	77.00 - 81.60						
81-90	0.72	65.50	1.10 - 1.00	82.00 - 86.20						
91-100	0.70	69.30	1.00 - 0.95	87.00 - 91.40						

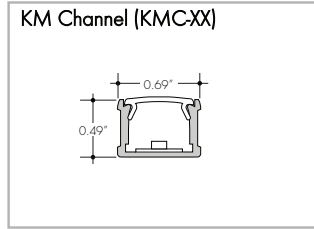


Lens options / light transmission percentage per lens

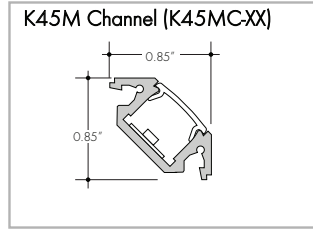
- C** Clear
- HF** Half (50%) Frosted
- G** Graze
- SI** Satin Ice
- S** Square Frosted
- Q** Rounded Square Frosted
- F** Frosted
- M** Medium beam frosted
- R** Raised
- C36** Clear 36° beam angle
- C10** Clear 10° beam angle



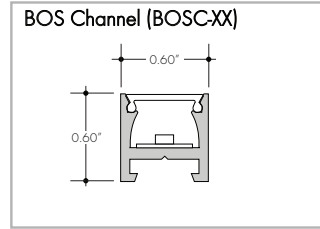
- C** 85%
- F** 55%
- HF** 72%
- C36** 83%
- R** 51%



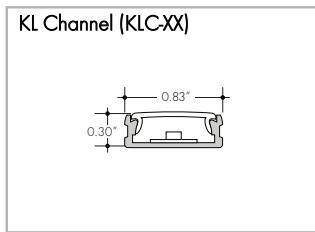
- C** 71%
- F** 42%
- HF** 58%
- C10** 67%
- R** 39%



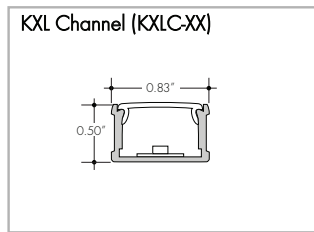
- C** 71%
- F** 42%
- HF** 58%
- C10** 67%



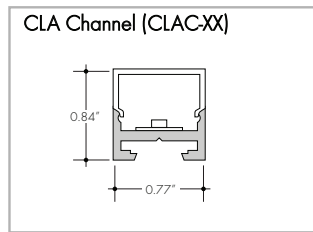
- F** 43%
- SI** 56%
- R** 46%
- G** 67%



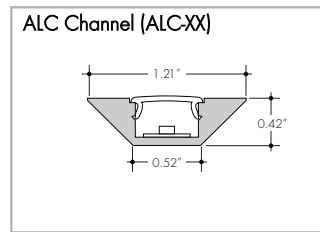
- C** 83%
- F** 55%
- HF** 68%



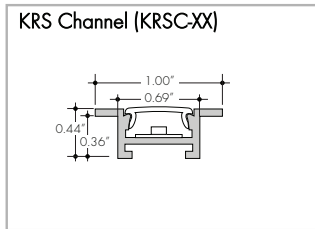
- C** 74%
- F** 46%
- HF** 61%



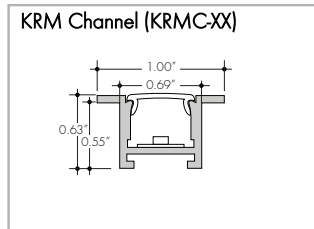
- S** 62%
- Q** 63%



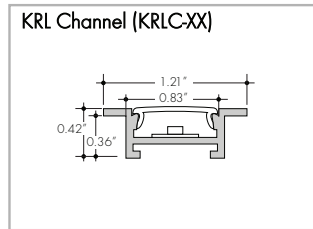
- C** 79%
- F** 58%
- HF** 69%



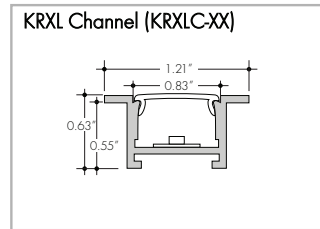
- C** 85%
- F** 55%
- HF** 72%



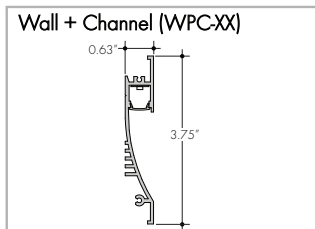
- C** 71%
- F** 42%
- HF** 58%



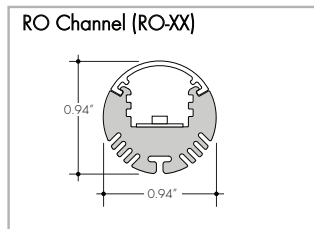
- C** 83%
- F** 55%
- HF** 68%



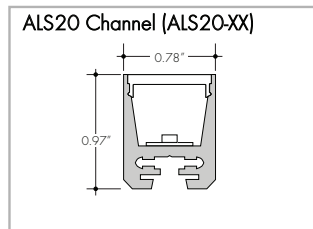
- C** 74%
- F** 46%
- HF** 61%



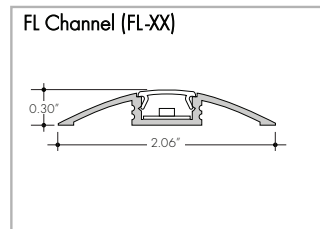
- C** 47%
- F** 44%



- C** 75%
- F** 52%



- C** 78%
- F** 43%



- C** 85%
- F** 63%
- HF** 75%

**Installation**

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

**Ordering**

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

**LED Dotting per extrusion**

using the frosted lens option

extrusion	LED Models				
	LL9	LL18	LL30	LL36	LL54
<b>KSC, KRSC, FL, ALC</b>	CD	CD	CD	CD	SD
<b>KMC, KRMC, K45MC</b>	CD	SD	SD	ND	ND
<b>KXLC, KRXLC</b>	CD	CD	SD	ND	ND
<b>KLC, KRLC</b>	CD	CD	CD	CD	SD
<b>WPC</b>	CD	CD	SD	ND	ND
<b>RO, ALS20</b>	CD	SD	ND	ND	ND
<b>BOSC</b>	CD	CD	SD	SD	ND
<b>CLAC</b>	CD	SD	ND	ND	ND

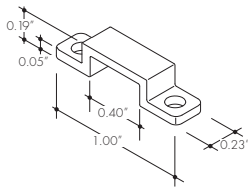


Clear Dotting (CD)    Slight Dotting (SD)    NO Dotting (ND)

## Accessories

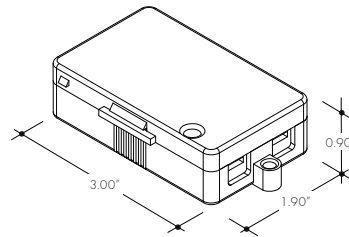
Mounting clip:  
recommended at every 12" when  
LineLED strip is facing down.

Part # CL-1



Splice Box:  
low voltage, 4 terminal  
splice box, black.

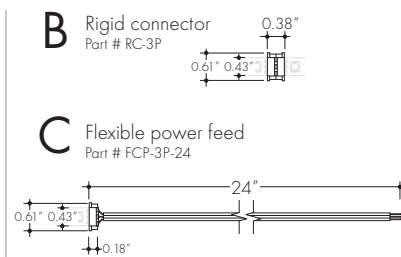
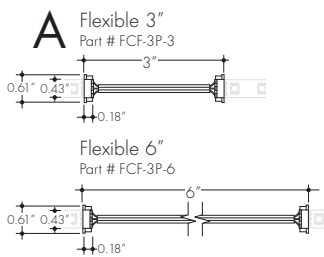
Part # LVSP-4T-BK



## Connectors

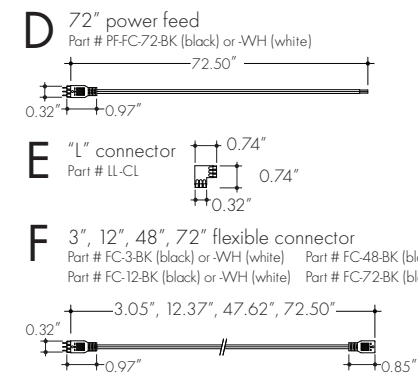
### Field-cut connectors (not compatible with the LL54 models)

(Reference dimensions below to determine if connector will fit inside of your extrusion. If so surface with contact of connector & extrusion must be insulated to prevent an electrical short)

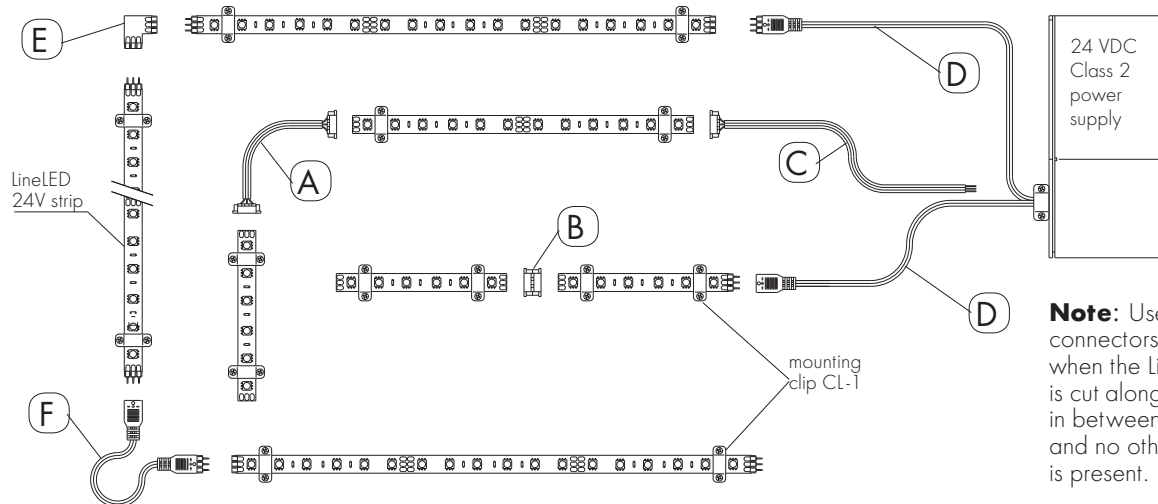


### 3-pin connectors (not compatible with the LL54 models)

(Reference dimensions below to determine if connector will fit inside of your extrusion. Connectors will not fit inside of the KSC, KRSC, BOSC, & ALC Channel)



## Sample layout with connectors



**Note:** Use field-cut connectors (A,B,C) when the LineLED strip is cut along cutting lines in between solder pads and no other connector is present.

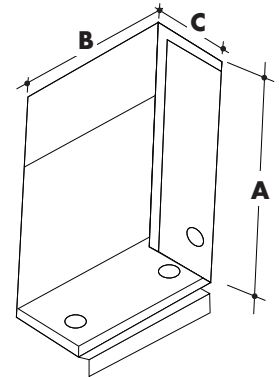
## Power supply

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

### Magnetic Low Voltage Dimming Power Supplies:

MODEL	POWER	OUTPUT	INPUT
<b>PSD</b>	<b>48</b>	<b>24</b>	
PSD - PSD Series dims down to 0%	48 - 48 W 96 - 96 W 288 - 288 W (3x 96W)	24 - 24 VDC	Blank - 120 V 240 - 240 V 277 - 277 V

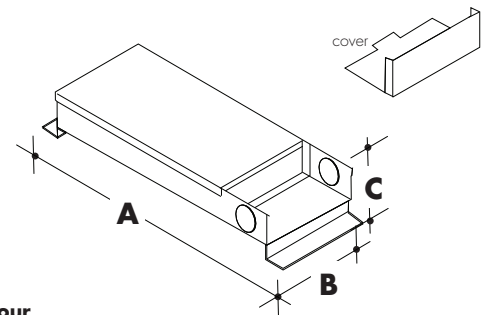
MODELS	PSD 48	PSD 96	PSD 288
<b>A Length</b>	11.25"	11.25"	13.06"
<b>B Width</b>	3.42"	3.42"	8.42"
<b>C Depth</b>	3.42"	3.27"	4.47"



### Electronic Low Voltage Dimming Power Supplies:

MODEL	CIRCUIT x POWER	OUTPUT	INPUT
<b>CVE</b>	<b>48D</b>	<b>24</b>	
CVE - CVE Series dims down to 0.1%	48D - 48W 48X2D - 2 x 48W 48X3D - 3 x 48W 48X4D - 4 x 48W 96D - 96W 96X2D - 2 x 96W 96X3D - 3 x 96W 96X4D - 4 x 96W	24 - 24 VDC	Blank - 120 V 277 - 240/277 V

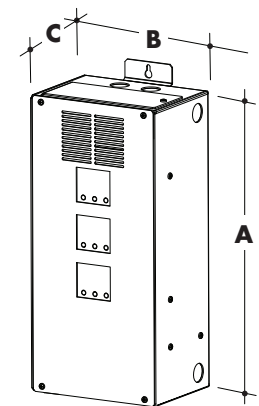
MODELS	Single circuit	Dual circuit	Three circuit	Four circuit
<b>A Length</b>	13.9"	13.8"	13.8"	13.8"
<b>B Width</b>	2.3"	4.0"	5.9"	7.75"
<b>C Depth</b>	1.3"	1.9"	1.9"	1.9"



### 0-10V Dimming Power Supplies:

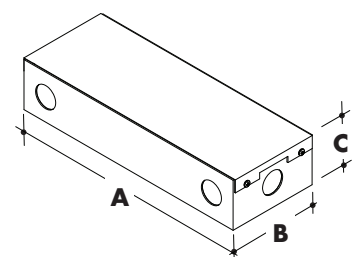
MODEL	POWER	OUTPUT	DIMMING
<b>PS010V</b>	<b>3X96</b>	<b>24</b>	<b>LIN</b>
PS010V - 0-10V Power Supply dims down to 0%	96 - 96 WATT 3X96 - 3 X 96 WATT	24 - 24 VDC	LIN - Linear LOG - Logarithmic

MODELS	96 W	3X96
<b>A Length</b>	14.40"	15.75"
<b>B Width</b>	5.20"	6.60"
<b>C Depth</b>	2.60"	4.80"



MODEL	POWER	OUTPUT	DIMMING	LOCATION
<b>PSV</b>	<b>40</b>	<b>24V</b>	<b>U2DIM</b>	<b>D</b>
PSV - PSV Series dims down to 5%	40 - 40 W 60 - 60 W 96 - 96 W	24 - 24 VDC	U2DIM - Dimming 0-10V	D - Dry Location IP65 - Wet Location

MODELS	PSV Dry	PSV Wet
<b>A Length</b>	9.2"	9.5"
<b>B Width</b>	3.4"	4.12"
<b>C Depth</b>	1.9"	2.3"



## Power supply

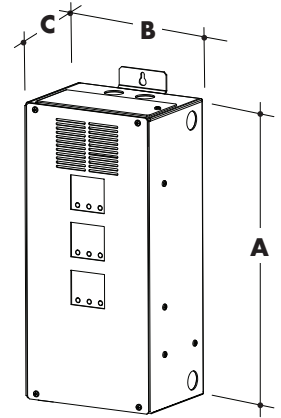
See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

### DMX Dimming Power Supplies:

MODEL	POWER	OUTPUT
<b>PSDMX</b>	<b>96</b>	<b>24</b>
PSDMX - DMX Power Supply	96 - 96 WATT 3X96 - 3 X 96 WATT	24 - 24 VDC

- Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	3X96 W
<b>A Length</b>	15.75"
<b>B Width</b>	6.60"
<b>C Depth</b>	4.80"

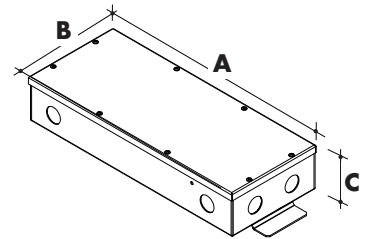


### DALI Dimming Power Supplies:

MODEL	POWER	OUTPUT
<b>PSDALI</b>	<b>96</b>	<b>24</b>
PSDALI - DALI Power Supply dims down to 0%	96 - 96 WATT 3X96 - 3 X 96 WATT	24 - 24 VDC

- Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	96 W
<b>A Length</b>	14.40"
<b>B Width</b>	5.20"
<b>C Depth</b>	2.60"



Luminii is a Lutron OEM Advantage Partner

MODEL

**LTEA4U1UKL-CV240**

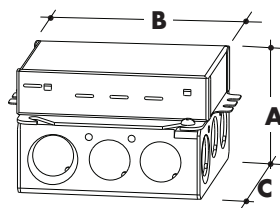
Lutron -HiLume™ 1% 2-wire LED driver (120V forward phase only)

MODELS	LTEA	L3DA
<b>A Length</b>	4.89"	4.89"
<b>B Width</b>	2.66"	2.66"
<b>C Depth</b>	4.00"	4.00"

MODEL

**L3DA4U1UKL-CV240**

HiLume™ 1% EcoSystem Voltage LED Driver

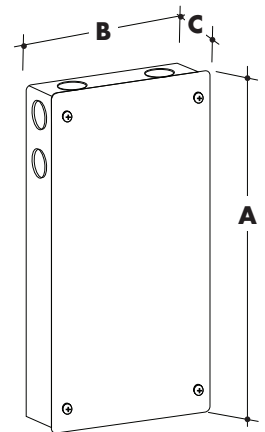


MODEL

**L3DO-96W24V-U**

HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™

MODELS	L3DO
<b>A Length</b>	10.50"
<b>B Width</b>	5.50"
<b>C Depth</b>	2.00"



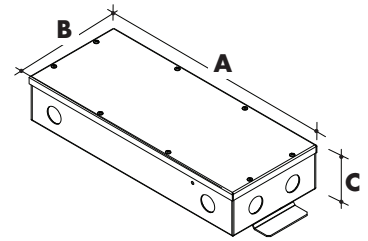
## Power supply

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

### Enlighted Enabled Dimming Power Supplies:

MODEL	POWER	OUTPUT	DIMMING	Location
PSV	96	24	ENL	D
PSV - LED Power Supply	96 - 96 WATT	24 - 24 VDC	ENL - Enlighted Dimming	D - Damp

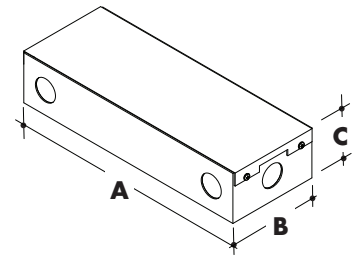
MODELS	96 W
A Length	14.40"
B Width	5.20"
C Depth	2.60"



### Non-Dimming Power Supplies:

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV	40	24V	U2ND	D
PSV - PSV Series	40 - 40 W 60 - 60 W 96 - 96 W	24 - 24 VDC	U2ND - Non Dimming	D - Dry Location IP65 - Wet Location

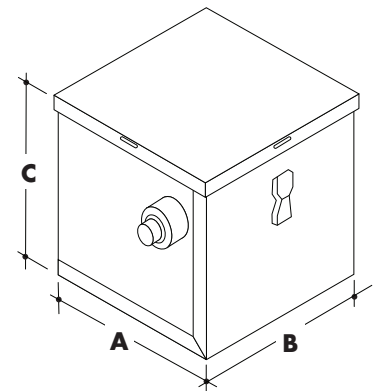
MODELS	PSV Dry	PSV Wet
A Length	9.2"	9.5"
B Width	3.4"	4.12"
C Depth	1.9"	2.3"



### In ground, Electronic Low Voltage Dimming Power Supplies:

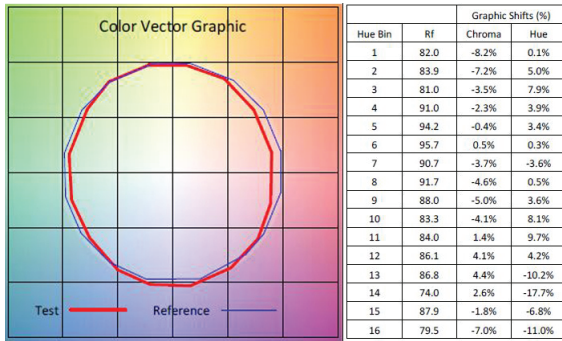
MODEL	CIRCUIT x POWER	OUTPUT	INPUT
IG-CVE	96X2	24	
IG-CVE - In ground CVE Series <b>dims down to 0.1%</b>	96X2 - 2 x 96W	24 - 24 VDC	Blank - 120 V 277 - 240/277 V

MODELS	Dual circuit
A Length	8.0"
B Width	8.0"
C Depth	8.0"

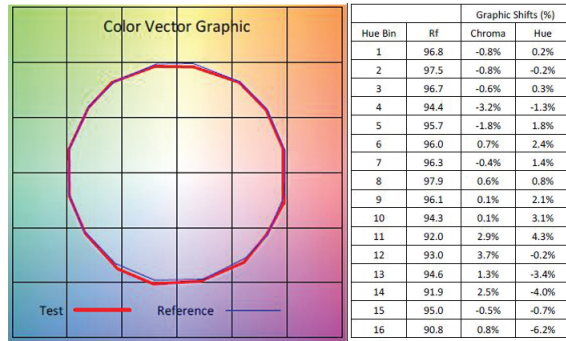


TM-30-15: Data

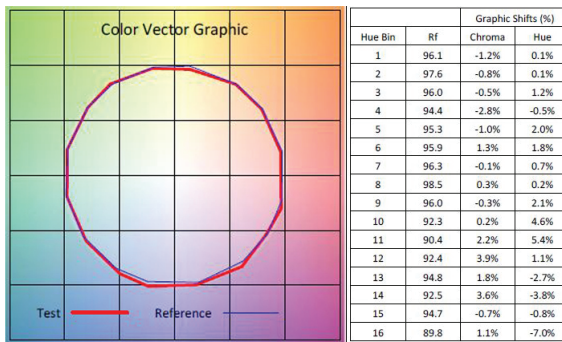
22K CCT



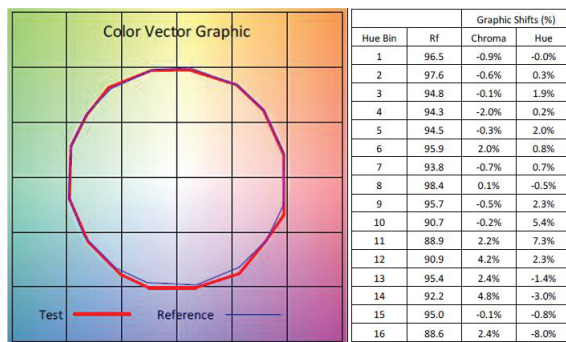
24K CCT



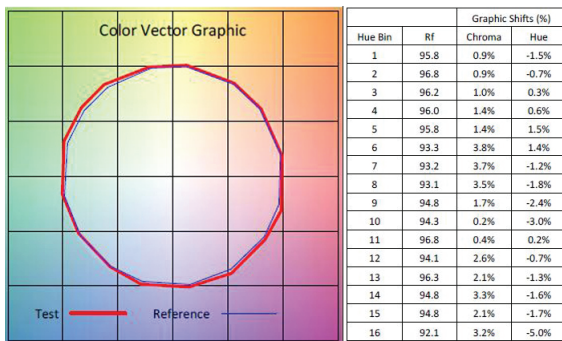
27K CCT



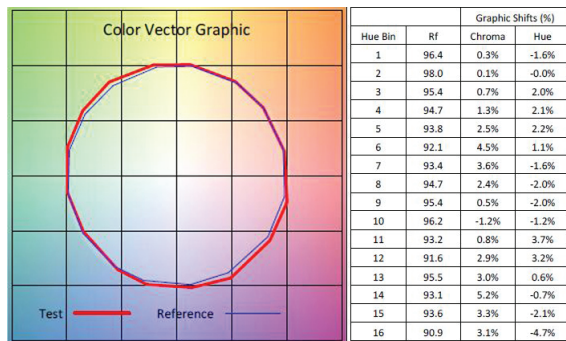
29K CCT



30K CCT



35K CCT



41K CCT

