



Features

Kurba Large is a dot free direct view, highly versatile, energy efficient and flexible LED strip suitable for Sauna and Spa locations capable of horizontal/side bends and vertical/top bends with a 6" bending radius. The silicone material offers excellent heat, weather, UV, and solvent resistance and has a special coating to repel dust and dirt accumulation.

Applications

Sauna and Spa locations

Materials

Silicone for Red list approved, as well as heat, weather, UV, and solvent resistance

Dimming

Dimable down to 1%. Dot Free even illumination. Also available with Black Lens

Average Life (L70)

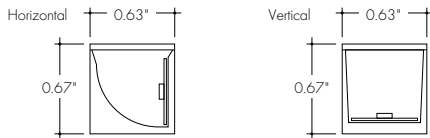
50,000 hours

Approvals

24VDC Class 2 wet listed, IP67

Warranty

3 years



Finish Options (see page 2 for additional information)

Base White



Technical Information

Bending Direction	Horizontal	Vertical
Output	33LO	33LO
Light Output at 3000K	89 lm/ft	98 lm/ft
Average Power Consumption at 4'	1.83 W/ft	1.83 W/ft
Efficacy	49 lm/W	54 lm/W
Ordering Increment	2.19"	2.19"
Maximum Run Length (In Series)	32'	32'
Operating Temperature Range	-40°F to 194°F	-40°F to 194°F

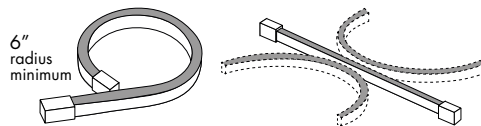
CCT INFO / LUMEN MULTIPLIER	
Color Temperature	Multiplier (ref. -3000K)
2200K	0.83
2400K	0.97
2700K	1.00
3000K	1.00
3500K	1.01
4000K	0.99

Note: 80 CRI

Constraints

Horizontal Bend Direction

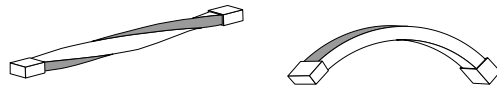
Bend LED in these positions only to avoid damage



Illuminated surface shown in gray

Horizontal Prohibited Bends

Twisting or bending LED in these positions will cause damage

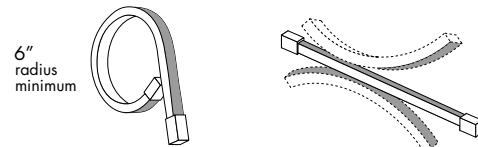


Illuminated surface shown in gray

Do not make sharp bends near the endcap

Vertical Bend Direction

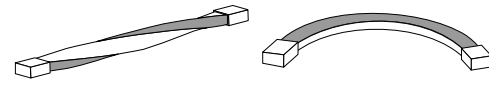
Bend LED in these positions only to avoid damage



Illuminated surface shown in gray

Vertical Prohibited Bends

Twisting or bending LED in these positions will cause damage



Illuminated surface shown in gray

Do not make sharp bends near the endcap

Ordering Code

MODEL	RATING	BEND DIRECTION	LENGTH	OUTPUT ¹	CCT	LENS	MOUNTING	FINISH	FEED POSITION LEFT	FEED POSITION RIGHT
KBL - Kurba Large	S - Sauna	HB - Horizontal Bending VB - Vertical Bending	SEE PCC CHART ON PAGE 6	33LO - Low	22K - 2200K 24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	SF - Silicone Frosted	NA - See Page 4 - 5 for orderable mounting accessories	WH - White	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side 1 Feed IMSB - Side 2 Feed ² NPF - No Power Feed ³	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side 1 Feed IMSB - Side 2 Feed ² NPF - No Power Feed ³

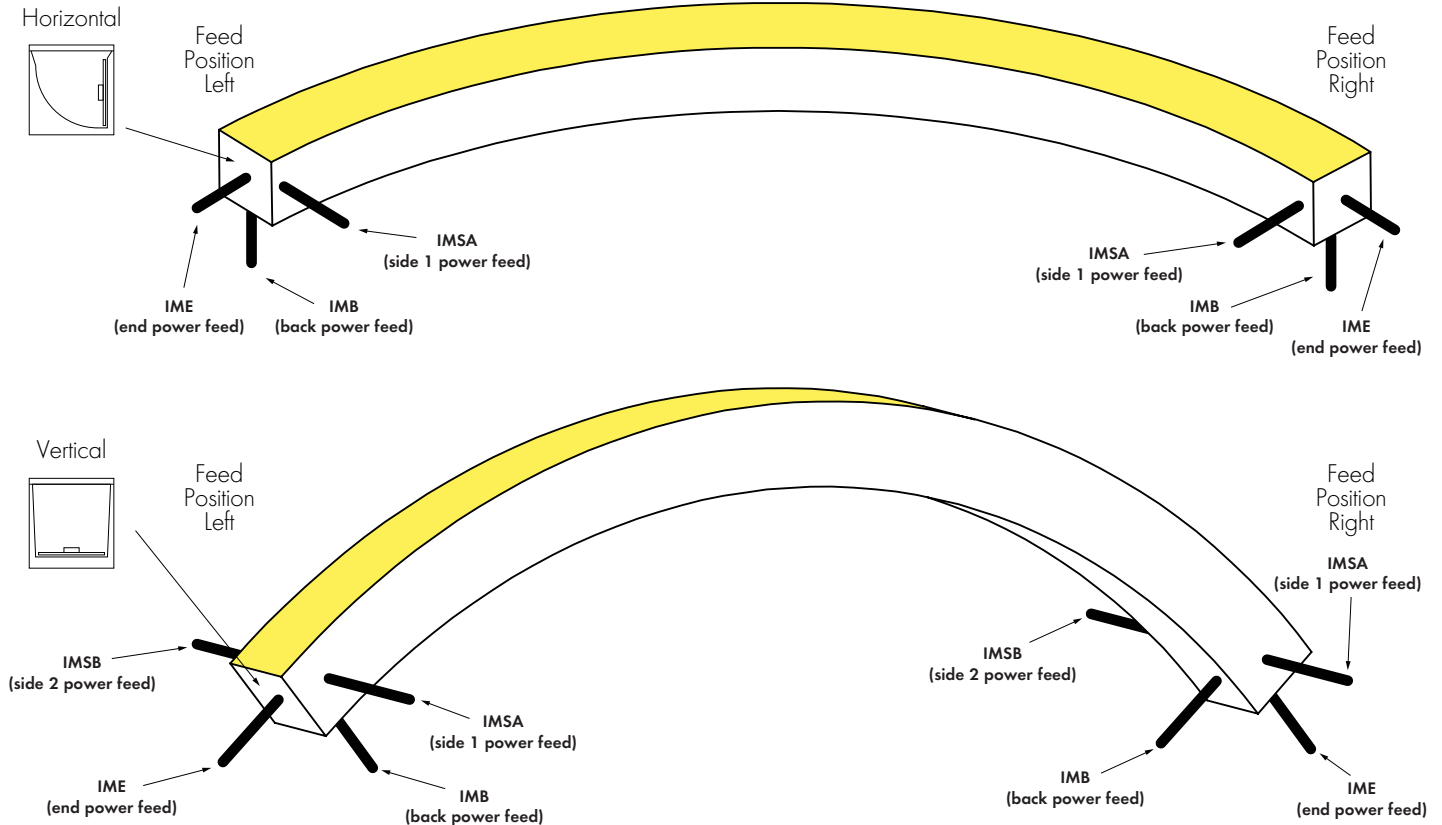
Feeds come with 90" wire leads

¹ - Title 24 JAB compliant depending on Output, CCT, and lens selections. See Technical Information and Lens Transmission charts to calculate specific efficacies.

² - IMSB - Side 2 Feed not available with HB - Horizontal Bending
³ - NPF-NPF for Feed Position 1&2 is not a valid configuration option

Powerfeeds and Connectors

Power Feed Position Options and Orientation

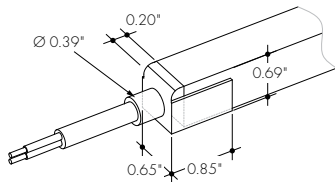


NOTE: IMSB - Side 2 Feed not available with HB - Horizontal Bending

Linking and Extension Cable Options

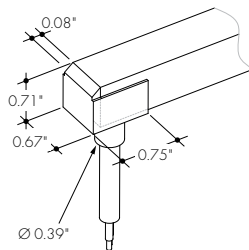
END CONNECTOR

Injection-molded End Connector
-IME



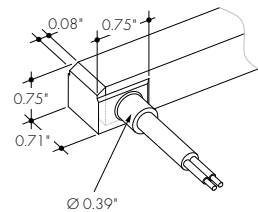
BACK CONNECTOR

Injection-molded Back Connector
-IMB



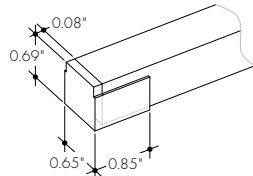
SIDE CONNECTOR

Injection-molded Side Connector
-IMSA and -IMSB



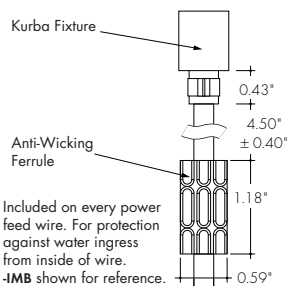
ENDCAP (NO CONNECTOR)

Injection-molded Cap (No Connector)
-NPF

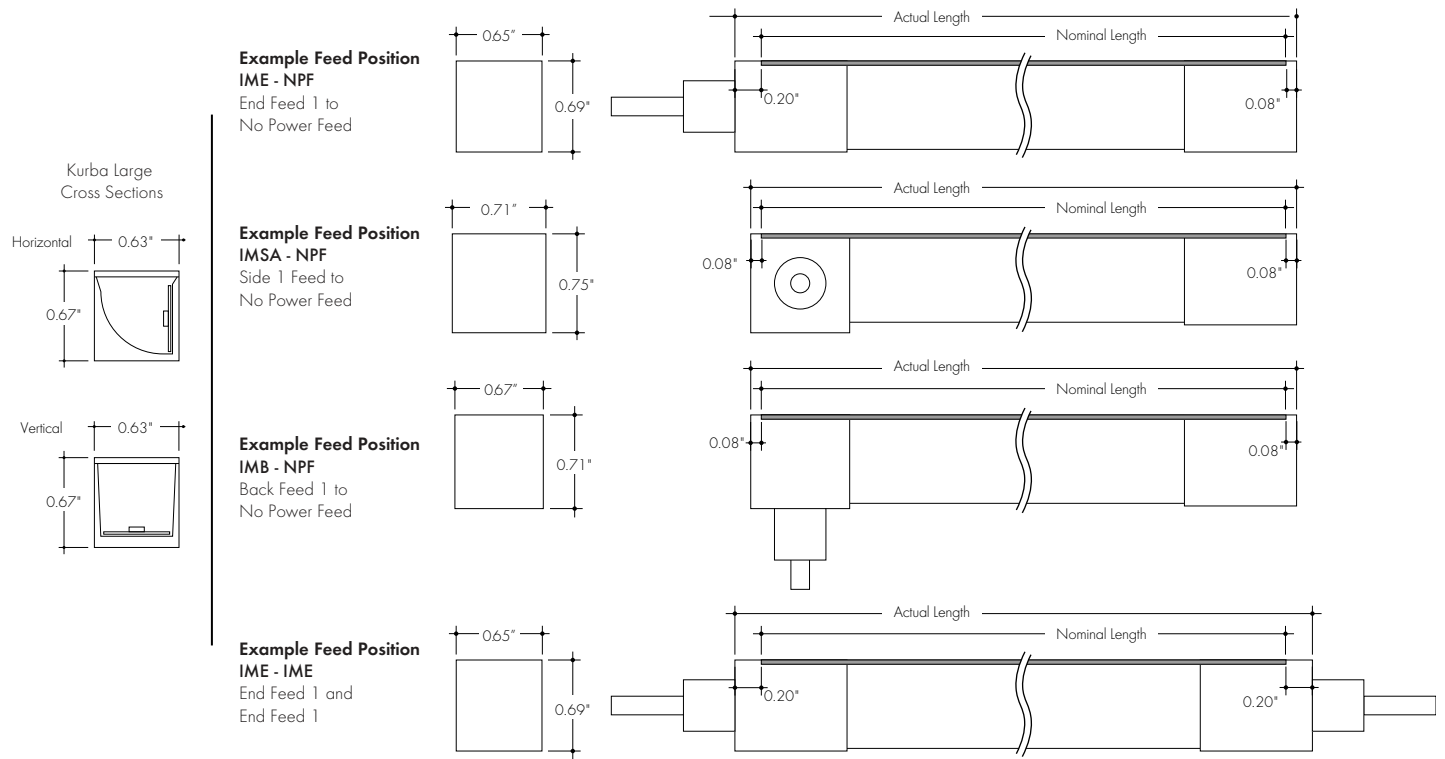


ANTI-WICKING FERRULE

Included on every power feed wire



Product Dimensions



Finish Options

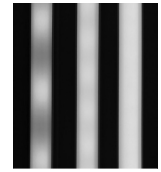
White Base



Kurba's base finish is a crisp white which brings a timeless, clean aesthetic that brightens and enhances any space

Light Transmission and Dotting

Output Options	Lens/Accessory					
	Silicone Frosted/ White Finish	Silicone Frosted/ Red Finish	Silicone Frosted/ Green Finish	Silicone Frosted/ Blue Finish	Silicone Frosted/ Black Finish	Black Lens/ Black Finish
HE38LO	ND	ND	ND	ND	ND	ND
Transmission Percentage	100%	80%	80%	80%	80%	17%

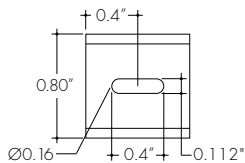
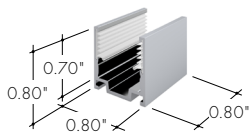


CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Mounting Accessories

MC-KBL-SAP-SM-0.8-SA

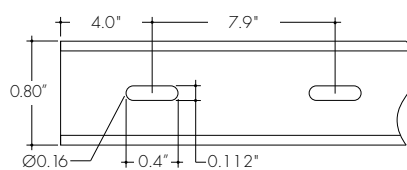
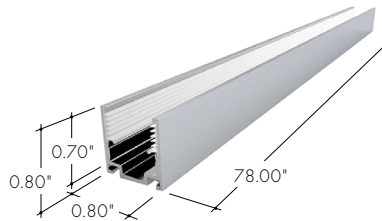
KBL Mounting Channel, Serrated Aluminum Profile, Surface Mount, 0.8in, Silver Anodized



For use with light strip mounted to the ceiling. 1 recommended every 8 in.

MC-KBL-SAP-SM-78-SA

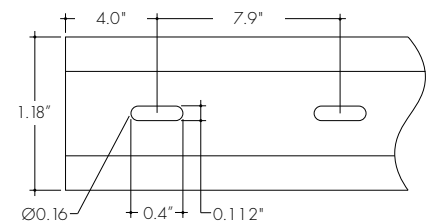
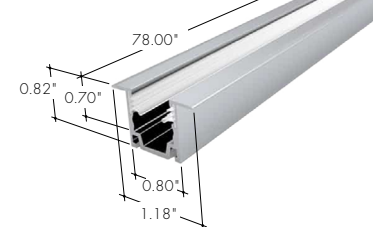
KBL Mounting Channel, Serrated Aluminum Profile, Surface Mount, 78in, Silver Anodized



For use with light strip mounted to the ceiling.

MC-KBL-FSAP-TR-78-SA

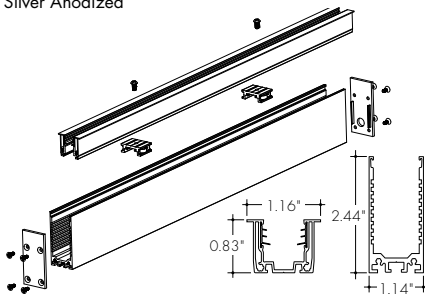
KBL Mounting Channel, Flanged Serrated Aluminum Profile, Trimmed Recessed Mount, 78in, Silver Anodized



Flanged aluminum mounting channel providing grip. For use with light strip recessed into the ceiling.

MC-KBL-RCWY-SM-78-SA

KBL Mounting Channel, Raceway, Surface Mount, 78in, Silver Anodized

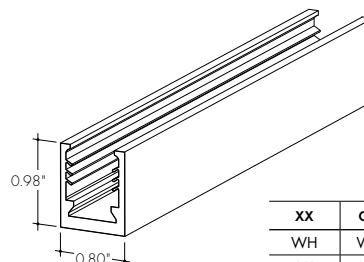


Raceway channel allows for hidden cable management and is a superb option where tidiness is required.

NOTE: Compatible with **IMB** - Back Feed only

MC-KBL-BANP-3D-SM-78-XX

KBL Mounting Channel, Bendable Anole Profile, 3D Bending, Surface Mount, 78in, 6" inch bending radius

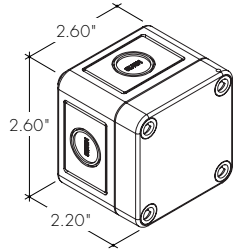


XX	Color
WH	White
BK	Black

Optional Connectors

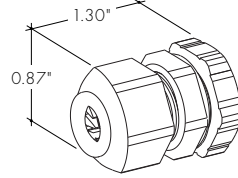
LVSP-WET

Splice box: wet rated, low voltage, gray



LVSP-WET-CM

Connector for splice box, low voltage for cable management, gray



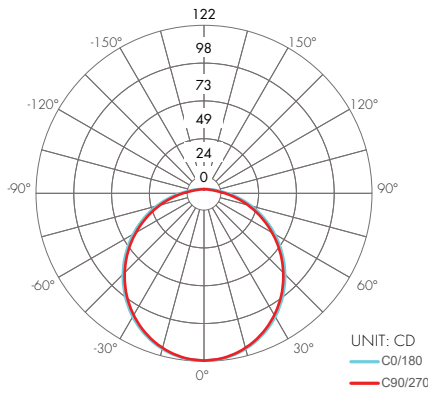
Photometry

KBL-SN-HB-48-33LO-30K-SF-NA-WH

Kurba Large Sauna, Horizontal Bend, 4ft, 33LO output, 3000K, Silicone Frosted Lens

KBL-SN-VB-48-33LO-30K-SF-NA-WH

Kurba Large Sauna, Vertical Bend, 4ft, 33LO output, 3000K, Silicone Frosted Lens



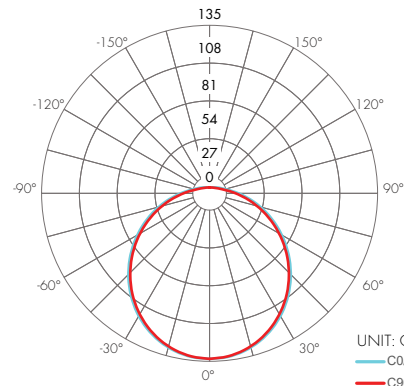
Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	94	26.4%
0-40	129	36.2%
0-60	273	76.6%
0-90	355	99.7%
Total	356	100.0%

Beam Angle

113°

UNIT: CD
— C0/180
— C90/270



Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	103	26.3%
0-40	142	36.2%
0-60	300	76.4%
0-90	391	99.5%
Total	392	100.0%

Beam Angle

112°

UNIT: CD
— C0/180
— C90/270

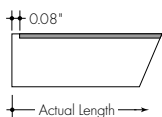
33LO | Power Consumption Per Fixture Length

Based on operation with PDCU series of power supplies. Use Actual Length for Order Code Entry.
 Tolerance for Actual Lengths less than 6 ft is +/- 0.2", Actual Lengths between 6 ft and 16 ft is +/- 0.3", and Actual Lengths greater than 16 ft is +/- 0.6"
 A - End Connector at both ends of Kurba (0.20" + 0.20" added to overall length)
 B - End Connector at one end of Kurba and No Connector or Back Connector or Side Connector at other end of Kurba (0.20" + 0.08" added to overall length)
 C - Any combination of No Connector, Back Connector, or Side Connector on each end of Kurba (0.08" + 0.08" added to overall length)

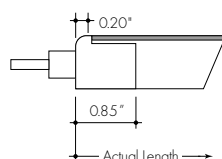
Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)			
	W	A	B	C		W	A	B	C		W	A	B	C		W	A	B	C		W	A	B	C
7	1.1	7.0	6.8	6.7	86	13.1	85.7	85.6	85.5	165	25.1	164.5	164.3	164.2	243	37.1	243.2	243.1	243.0	321.9	49.1	321.9	321.8	321.7
9	1.4	9.1	9.0	8.9	88	13.4	87.9	87.8	87.7	167	25.4	166.6	166.5	166.4	246	37.4	245.4	245.3	245.1	(27 ft) 324	49.4	324.1	324.0	323.9
(1 ft) 11	1.7	11.3	11.2	11.1	90	13.7	90.1	90.0	89.8	(14 ft) 169	25.7	168.8	168.7	168.6	248	37.7	247.6	247.5	247.3	326.3	49.7	326.3	326.2	326.1
14	2.1	13.5	13.4	13.3	92	14.1	92.3	92.2	92.0	171	26.1	171.0	170.9	170.8	250	38.1	249.8	249.6	249.5	328.5	50.1	328.5	328.4	328.3
16	2.4	15.7	15.6	15.5	95	14.4	94.5	94.3	94.2	173	26.4	173.2	173.1	173.0	(21 ft) 252	38.4	252.0	251.8	251.7	330.7	50.4	330.7	330.6	330.5
18	2.7	17.9	17.8	17.7	(8 ft) 97	14.7	96.6	96.5	96.4	176	26.7	175.4	175.3	175.2	254	38.7	254.1	254.0	253.9	332.9	50.7	332.9	332.8	332.6
20	3.1	20.1	20.0	19.8	99	15.1	98.8	98.7	98.6	178	27.1	177.6	177.5	177.3	257	39.1	256.3	256.2	256.1	(28 ft) 335	51.1	335.1	335.0	334.8
22	3.4	22.3	22.2	22.0	101	15.4	101.0	100.9	100.8	(15 ft) 180	27.4	179.8	179.6	179.5	259	39.4	258.5	258.4	258.3	337.3	51.4	337.3	337.1	337.0
(2 ft) 24	3.7	24.5	24.3	24.2	103	15.7	103.2	103.1	103.0	182	27.7	182.0	181.8	181.7	261	39.7	260.7	260.6	260.5	339.4	51.7	339.4	339.3	339.2
27	4.1	26.6	26.5	26.4	106	16.1	105.4	105.3	105.2	184	28.1	184.1	184.0	183.9	(22 ft) 263	40.1	262.9	262.8	262.6	341.6	52.1	341.6	341.5	341.4
29	4.4	28.8	28.7	28.6	(9 ft) 108	16.4	107.6	107.5	107.3	187	28.4	186.3	186.2	186.1	265	40.4	265.1	265.0	264.8	343.8	52.4	343.8	343.7	343.6
31	4.7	31.0	30.9	30.8	110	16.7	109.8	109.7	109.5	189	28.7	188.5	188.4	188.3	268	40.7	267.3	267.1	267.0	346.0	52.7	346.0	345.9	345.8
33	5.1	33.2	33.1	33.0	112	17.1	112.0	111.8	111.7	(16 ft) 191	29.1	190.7	190.6	190.5	270	41.1	269.5	269.3	269.2	(29 ft) 348	53.1	348.2	348.1	348.0
(3 ft) 35	5.4	35.4	35.3	35.2	114	17.4	114.1	114.0	113.9	193	29.4	192.9	192.8	192.7	272	41.4	271.6	271.5	271.4	350.4	53.4	350.4	350.3	350.1
38	5.7	37.6	37.5	37.3	116	17.7	116.3	116.2	116.1	195	29.7	195.1	195.0	194.8	274	41.7	273.8	273.7	273.6	352.6	53.7	352.6	352.5	352.3
40	6.1	39.8	39.7	39.5	119	18.1	118.5	118.4	118.3	198	30.1	197.3	197.1	197.0	(23 ft) 276	42.1	276.0	275.9	275.8	354.8	54.1	354.8	354.6	354.5
42	6.4	42.0	41.8	41.7	(10 ft) 121	18.4	120.7	120.6	120.5	200	30.4	199.5	199.3	199.2	279	42.4	278.2	278.1	278.0	356.9	54.4	356.9	356.8	356.7
44	6.7	44.1	44.0	43.9	123	18.7	122.9	122.8	122.7	202	30.7	201.6	201.5	201.4	281	42.7	280.4	280.3	280.1	(30 ft) 359	54.7	359.1	359.0	358.9
46	7.1	46.3	46.2	46.1	125	19.1	125.1	125.0	124.8	(17 ft) 204	31.1	203.8	203.7	203.6	283	43.1	282.6	282.5	282.3	361.3	55.1	361.3	361.2	361.1
(4 ft) 49	7.4	48.5	48.4	48.3	127	19.4	127.3	127.1	127.0	206	31.4	206.0	205.9	205.8	285	43.4	284.8	284.6	284.5	363.5	55.4	363.5	363.4	363.3
51	7.7	50.7	50.6	50.5	130	19.7	129.5	129.3	129.2	208	31.7	208.2	208.1	208.0	(24 ft) 287	43.7	286.9	286.8	286.7	365.7	55.7	365.7	365.6	365.5
53	8.1	52.9	52.8	52.7	(11 ft) 132	20.1	131.6	131.5	131.4	211	32.1	210.4	210.3	210.2	289	44.1	289.1	289.0	288.9	367.9	56.1	367.9	367.8	367.6
55	8.4	55.1	55.0	54.8	134	20.4	133.8	133.7	133.6	213	32.4	212.6	212.5	212.3	292	44.4	291.3	291.2	291.1	370.1	56.4	370.1	370.0	369.8
57	8.7	57.3	57.2	57.0	136	20.7	136.0	135.9	135.8	(18 ft) 215	32.7	214.8	214.6	214.5	294	44.7	293.5	293.4	293.3	(31 ft) 372	56.7	372.3	372.1	372.0
(5 ft) 60	9.1	59.5	59.3	59.2	138	21.1	138.2	138.1	138.0	217	33.1	217.0	216.8	216.7	296	45.1	295.7	295.6	295.5	374.4	57.1	374.4	374.3	374.2
62	9.4	61.6	61.5	61.4	141	21.4	140.4	140.3	140.2	219	33.4	219.1	219.0	218.9	298	45.4	297.9	297.8	297.6	376.6	57.4	376.6	376.5	376.4
64	9.7	63.8	63.7	63.6	143	21.7	142.6	142.5	142.3	222	33.7	221.3	221.2	221.1	(25 ft) 300	45.7	300.1	300.0	299.8	378.8	57.7	378.8	378.7	378.6
66	10.1	66.0	65.9	65.8	(12 ft) 145	22.1	144.8	144.6	144.5	224	34.1	223.5	223.4	223.3	302	46.1	302.3	302.1	302.0	381.0	58.1	381.0	380.9	380.8
68	10.4	68.2	68.1	68.0	147	22.4	147.0	146.8	146.7	226	34.4	225.7	225.6	225.5	304	46.4	304.4	304.3	304.2	(32 ft) 383	58.4	383.2	383.1	383.0
70	10.7	70.4	70.3	70.2	149	22.7	149.1	149.0	148.9	(19 ft) 228	34.7	227.9	227.8	227.6	307	46.7	306.6	306.5	306.4					
(6 ft) 73	11.1	72.6	72.5	72.3	152	23.1	151.3	151.2	151.1	230	35.1	230.1	230.0	229.8	308.8	47.1	308.8	308.7	308.6					
75	11.4	74.8	74.7	74.5	154	23.4	153.5	153.4	153.3	233	35.4	232.3	232.1	232.0	(26 ft) 311	47.4	311.0	310.9	310.8					
77	11.7	77.0	76.8	76.7	(13 ft) 156	23.7	155.7	155.6	155.5	235	35.7	234.5	234.3	234.2	313.2	47.7	313.2	313.1	313.0					
80	12.1	79.1	79.0	78.9	158	24.1	157.9	157.8	157.7	237	36.1	236.6	236.5	236.4	315.4	48.1	315.4	315.3	315.1					
81	12.4	81.3	81.2	81.1	160	24.4	160.1	160.0	159.8	(20 ft) 239	36.4	238.8	238.7	238.6	317.6	48.4	317.6	317.5	317.3					
(7 ft) 84	12.7	83.5	83.4	83.3	162	24.7	162.3	162.1	162.0	241	36.7	241.0	240.9	240.8	319.8	48.7	319.8	319.6	319.5					

Note: all values are rounded to the nearest 0.1 inch

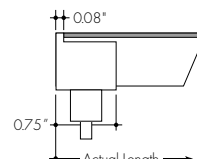
Endcap (No Connector) -NPF



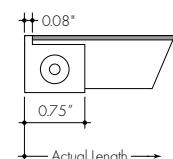
End Connector -IME



Back Connector -IMB



Side Connector -IMSA -IMSB

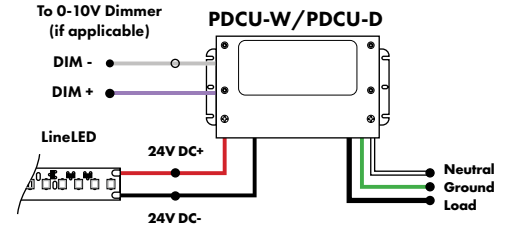


Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W 3X96 - 3X96 W	



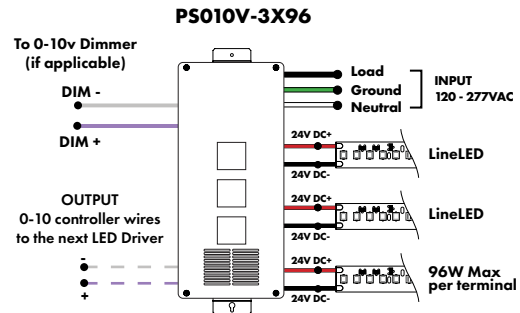
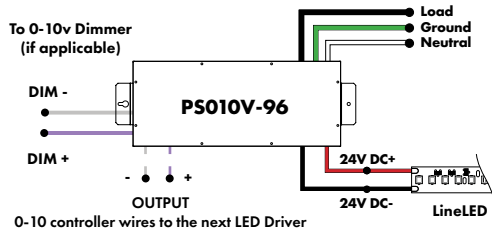
0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.

MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC	LIN - Linear LOG - Logarithmic

MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Power Supplies

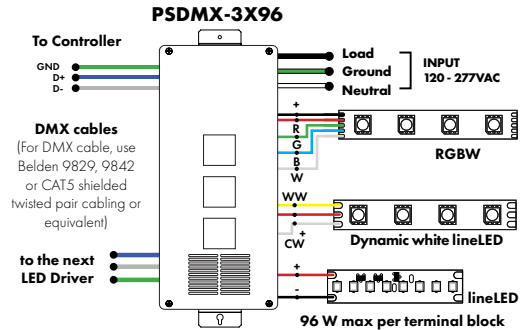
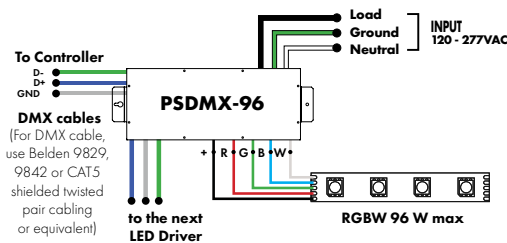
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX - DMX 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	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

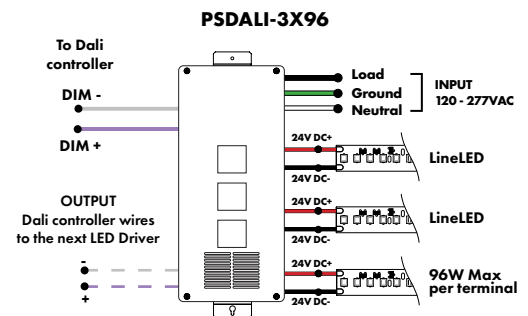
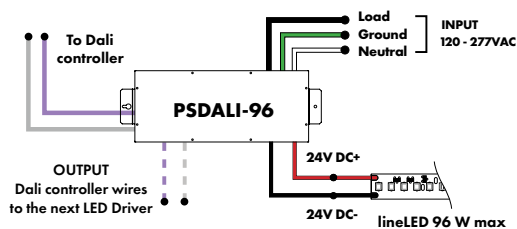


DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
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

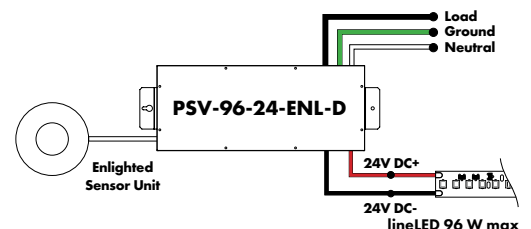
Model	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



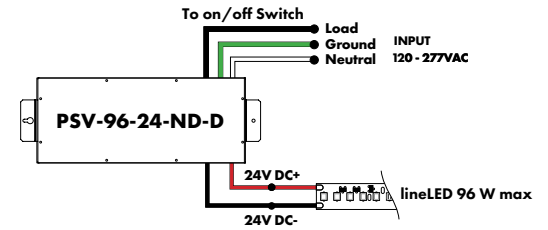
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



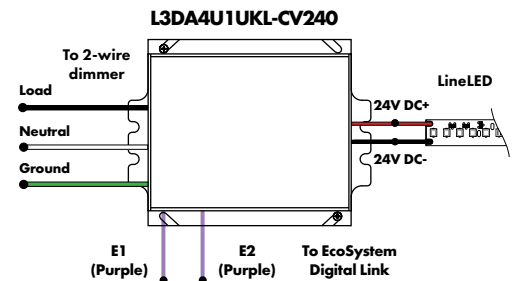
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

MODEL
L3DA4U1UKL-CV240

HiLume™ 1% EcoSystem Voltage LED driver
40W max

MODELS	L3DA4U1UKL-CV240
Length	4.98"
Width	4.00"
Depth	2.62"



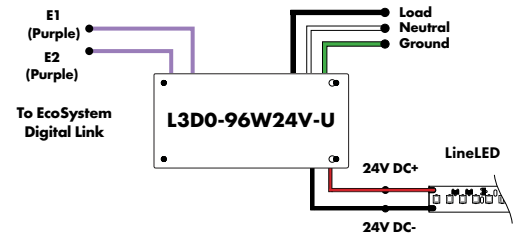
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL
L3D0-96W24V-U

HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™
96W max

MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"



In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt	24 - 24 VDC	Blank - 120 V 277 - 240/277 V

MODELS	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"

