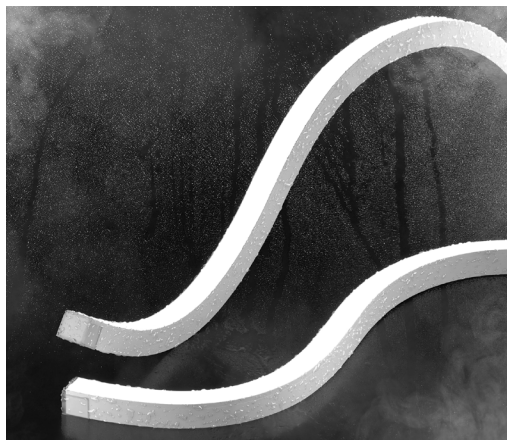




Features

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)

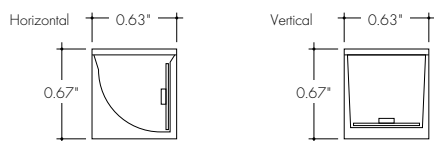
50,000 hours

Approvals

24VDC Class 2 wet listed, IP67

Warranty

5 years



Finish Options (see page 2 for additional information)

Base ☐ White

RoHS Declare.



Technical Information

Bending Direction	Horizontal	Vertical
Output	33LO	33LO
Light Output at 3000K, 80 CRI	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 (ref. -3000K)

Bending Direction	Horizontal	Vertical
CRI	80 CRI	80 CRI
2200K	0.83	0.83
2400K	0.97	0.97
2700K	0.97	0.97
3000K	1.00	1.00
3500K	1.00	1.00
4000K	1.01	1.01

Ordering Code

MODEL	BEND DIRECTION	LENGTH	OUTPUT	CCT	CRI	LENS	MOUNTING	FINISH	FEED POSITION LEFT	FEED POSITION RIGHT
KBL-SN - Kurba Large 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	R80 - 80 CRI	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 A Feed IMSB - Side B Feed ¹ NPF - No Power Feed ²	INJECTION MOLD IME - End Feed 1 IMB - Back Feed 1 IMSA - Side A Feed IMSB - Side B Feed ¹ NPF - No Power Feed ²

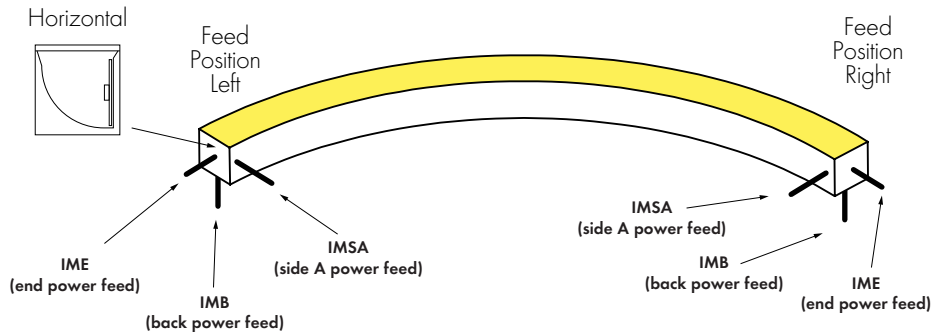
Feeds come with 118" wire leads

1 - IMSB - Side B Feed not available with HB - Horizontal Bending

2 - NPF-NPF for Feed Position 1&2 is not a valid configuration option

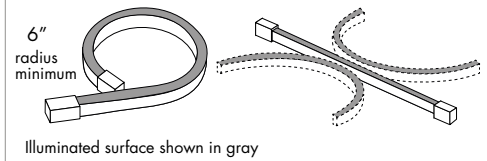
Powerfeeds and Connectors

Power Feed Position Options and Orientation



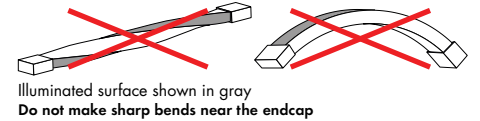
NOTE: IMSB - Side B Feed not available with HB - Horizontal Bending

Horizontal Bend Direction



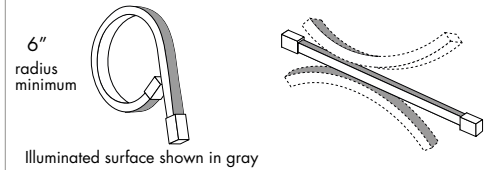
Horizontal Prohibited Bends

Twisting or bending LED in these positions will cause damage



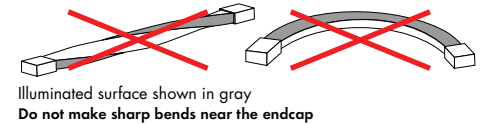
Vertical Bend Direction

Bend LED in these positions only to avoid damage



Vertical Prohibited Bends

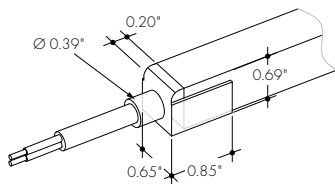
Twisting or bending LED in these positions will cause damage



Linking and Extension Cable Options

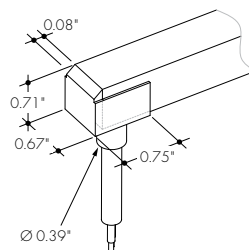
END CONNECTOR

Injection-molded End Connector
-IME



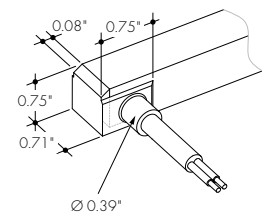
BACK CONNECTOR

Injection-molded Back Connector
-IMB



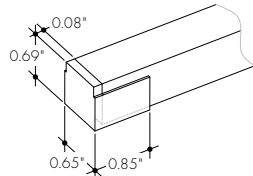
SIDE CONNECTOR

Injection-molded Side Connector
-IMSA and -IMSB



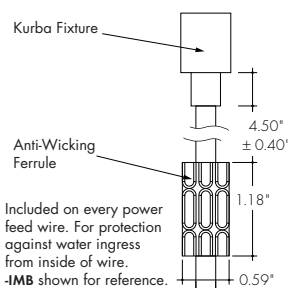
ENDCAP (NO CONNECTOR)

Injection-molded Cap (No Connector)
-NPF



ANTI-WICKING FERRULE

Included on every power feed wire



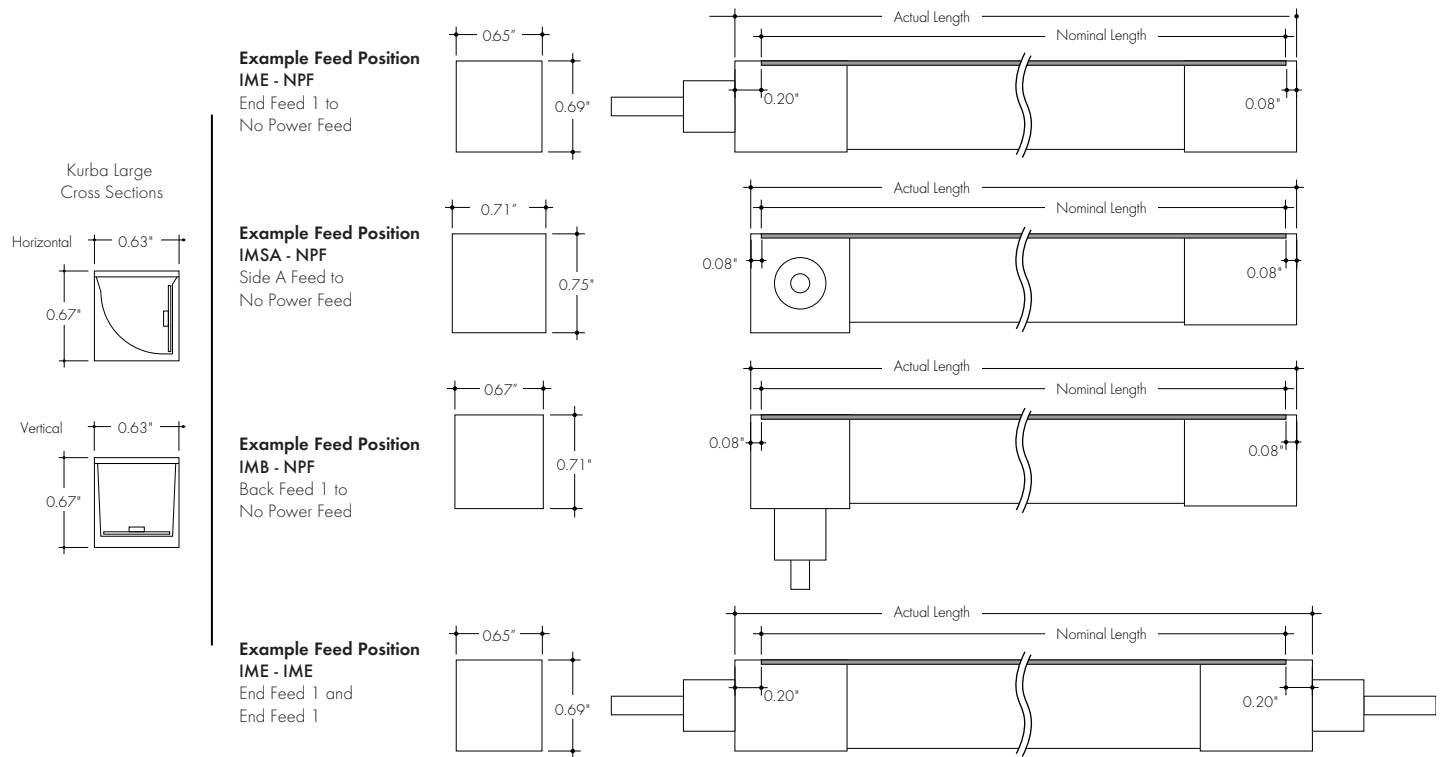
POWER FEED OPTIONS

Feeds come with 118" wire leads



2 Conductor, 18 AWG

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

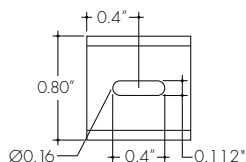
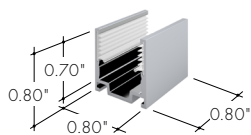
Output Options	Lens/Finish
	Silicone Frosted/ White Finish
38LO	ND
Transmission Percentage	100%



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

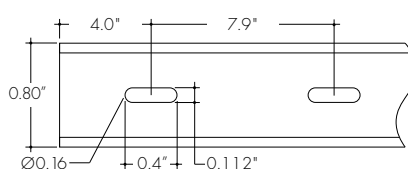
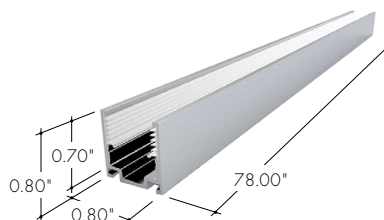
Mounting Accessories

MC-KBL-SAP-SM-0.8-SA
 KBL Mounting Channel, Serrated Aluminum Profile, Surface Mount, 0.8in, Silver Anodized



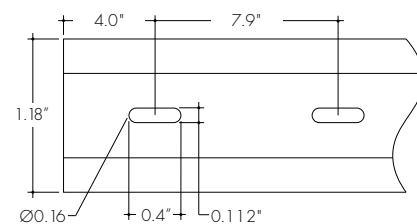
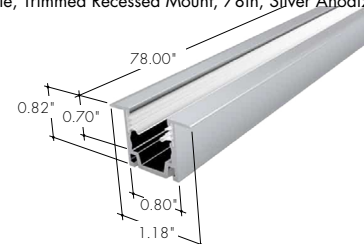
For use with light strip mounted to the ceiling. 1 recommended every 8 in. Includes 1 mounting screw

MC-KBL-SAP-SM-78-SA
 KBL Mounting Channel, Serrated Aluminum Profile, Surface Mount, 78in, Silver Anodized



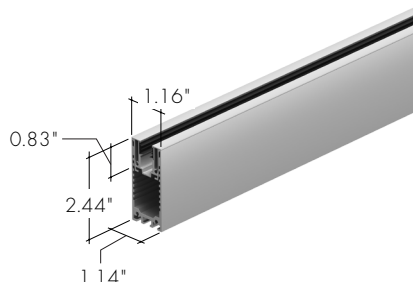
For use with light strip mounted to the ceiling. Includes 10 mounting screws

MC-KBL-FSAP-TR-78-SA
 KBL Mounting Channel, Flanged Serrated Aluminum Profile, Trimmed Recessed Mount, 78in, Silver Anodized



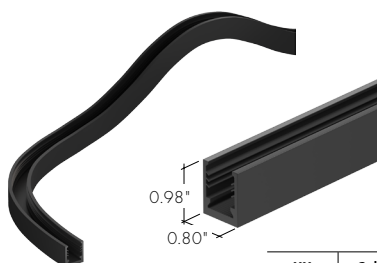
Flanged aluminum mounting channel providing grip. For use with light strip recessed into the ceiling. Includes 10 mounting screws

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-39-XX
 KBL Mounting Channel, Bendable Silicone Profile, 3D Bending, Surface Mount, 39", 6" bending radius

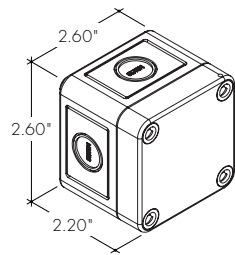


Includes 12 mounting screws

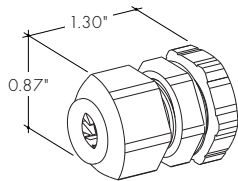
XX	Color
WH	White
BK	Black

Optional Connectors

LVSP-WET
Splice box: wet rated, low voltage, gray, IP66



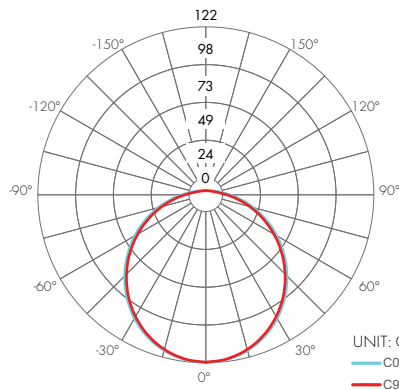
LVSP-WET-CM
Connector for splice box, low voltage for cable management, gray



Photometry

KBL-SN-HB-48-33LO-30K-R80-SF-NA-WH

Kurba Large Sauna, Horizontal Bend, 4ft, 33LO output, 3000K, 80 CRI, Silicone Frosted Lens

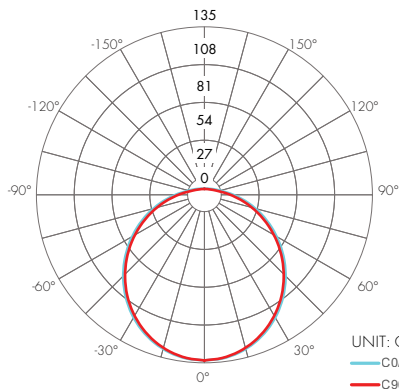


Zonal Lumen Summary 3000K		
Zone	Lumen	% Fixture
0-30	94	26.4%
0-40	129	36.2%
0-60	273	76.6%
0-90	355	99.7%
0-180	356	100.0%
Total		
Beam Angle		
113 °		

UNIT: CD
C0/180
C90/270

KBL-SN-VB-48-33LO-30K-R80-SF-NA-WH

Kurba Large Sauna, Vertical Bend, 4ft, 33LO output, 3000K, 80 CRI, Silicone Frosted Lens



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%
0-180	392	100.0%
Total		
Beam Angle		
112 °		

UNIT: CD
C0/180
C90/270

33LO | Power Consumption Per Fixture Length

Based on operation with PS-UNI series of power supplies. Use Actual Length for Order Code Entry.

Tolerance for Actual Lengths less than 6 ft is $\pm 0.2"$, Actual Lengths between 6 ft and 16 ft is $\pm 0.3"$, and Actual Lengths greater than 16 ft is $\pm 0.6"$

A - End Connector at both ends of Kurba (0.20" + 0.20" added to overall length)

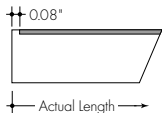
B - End Connector at one end of Kurba and No Connector or Back Connector or Side Connector at other end of Kurba (0.20" + 0.08" added to overall length)

C - Any combination of No Connector, Back Connector, or Side Connector on each end of Kurba (0.08" + 0.08" added to overall length)

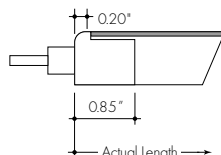
Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)				Nominal Length (in)	Actual Length (in)			
	W	A	B	C		W	A	B	C		W	A	B	C		W	A	B	C		W	A	B	C
7	1.1	7.0	6.8	6.7	86	13.1	85.7	85.6	85.5	165	25.1	164.5	164.3	164.2	243	37.1	243.2	243.1	243.0	322	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	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	329	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	331	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	333	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	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	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	342	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	344	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	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	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	353	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	355	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	357	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	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	364	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	366	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	368	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	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	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	377	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	379	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	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	385	47.1	308.8	308.7	308.6
(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	309	47.1	308.8	308.7	308.6	387	47.4	311.0	310.9	310.8
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	390	47.7	313.2	313.1	313.0
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	47.7	313.2	313.1	313.0	392	48.1	315.4	315.3	315.1
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	48.1	315.4	315.3	315.1	394	48.4	317.6	317.5	317.3
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	318	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	320	48.7	319.8	319.6	319.5					

Note: all values are rounded to the nearest 0.1 inch

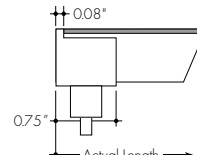
Endcap (No Connector) -NPF



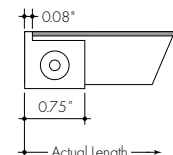
End Connector -IME



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.

For use with Static White

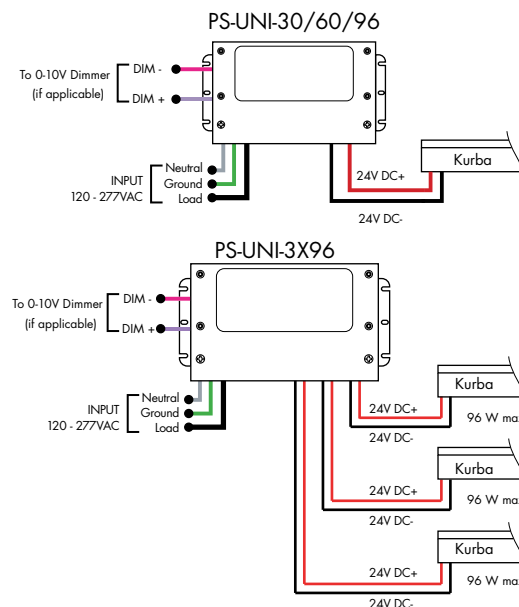
Ordering Code - Universal Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)	30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

Compatibility: View a complete list of compatible dimmers on the PS-UNI product page.

0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

MODELS	PS-UNI-30W	PS-UNI-60W	PS-UNI-96W	PS-UNI-3X96W
Length	6.50"	7.40"	8.66"	11.85"
Width	3.73"	3.73"	3.73"	4.32"
Depth	1.61"	1.61"	1.61"	1.81"

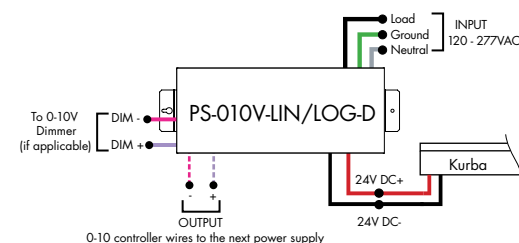


For use with Static White

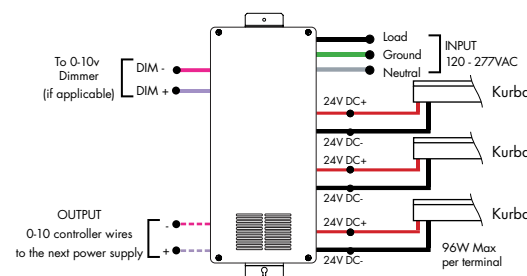
Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	010V-LIN - 0-10V Dimming (0.1%), Linear 010V-LOG - 0-10V Dimming (0.1%), Logarithmic	D - Dry	96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.45"



PS-010V-LIN/LOG-D-3X96



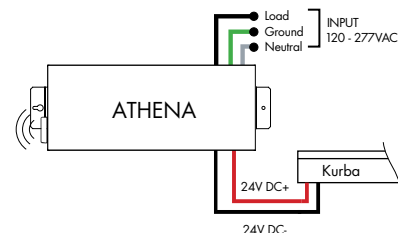
Power Supplies

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.

For use with Static White

Ordering Code - Athena 0-10V LED Driver

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT	FEATURE
PS - Power Supply, 120-277VAC	010V-LIN - 0-10V Dimming (0.1%), Linear 010V-LOG - 0-10V Dimming (0.1%), Logarithmic	D-Dry	96-96 Watts	24 - 24 VDC	AWNDR - Athena

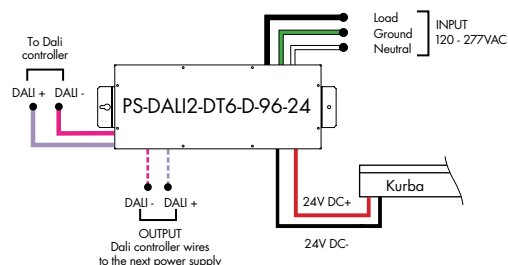


MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

For use with Static White

Ordering Code - DALI 2 Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DALI2-DT6 - DALI2 DT6 (0.1%)	D-Dry	96-96 Watts	24 - 24 VDC

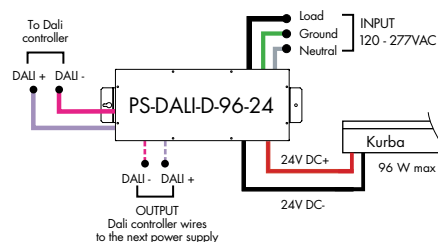


Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"

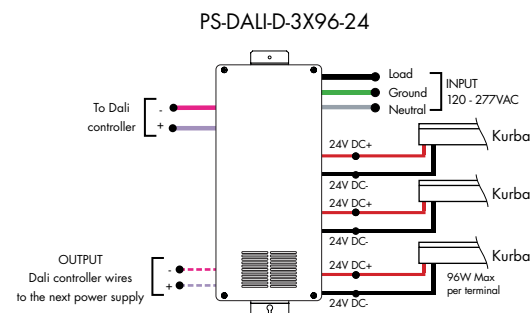
For use with Static White

Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DALI - DALI (0.1%)	D-Dry	96-96 Watts 3x96 - 3x96 Watts	24 - 24 VDC



Model	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"



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.

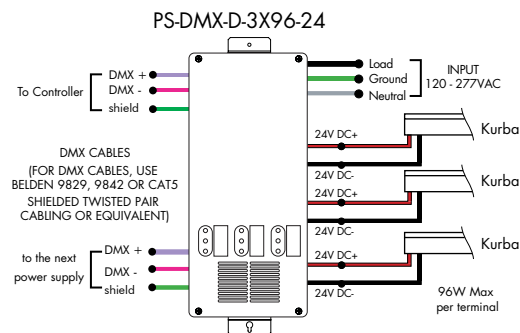
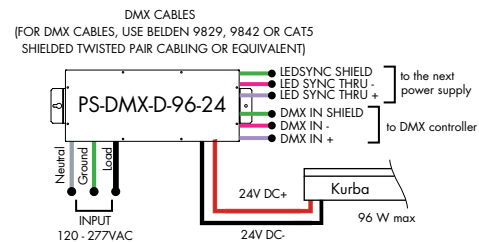
For use with Static White

Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DMX - DMX (0.1%)	D - Dry	96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

ZONAL CONTROL POWER SUPPLIES.
CONTROL MULTIPLE TAPES/ZONES USING DMX CHANNELS.

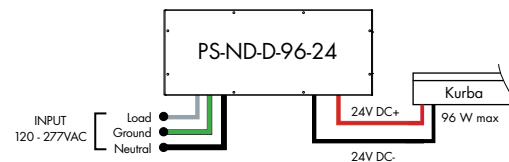


For use with Static White

Ordering Code - Non-Dimming Power Supply, 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	ND - Non Dimming	D - Dry	96 - 96 Watts	24 - 24 VDC

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

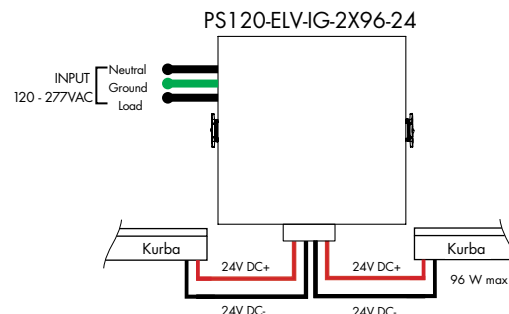


For use with Static White

Ordering Code - In-Ground Power Supplies

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS120 - Power Supply, 120VAC PS240 - Power Supply, 240VAC PS277 - Power Supply, 277VAC	ELV - ELV Dimming (1%)	IG - In Ground	2X96 - 2X96 Watts	24 - 24 VDC

MODELS	2X96W
Length	8.40"
Width	8.30"
Depth	8.10"



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.



Luminii is a Lutron OEM Advantage Partner

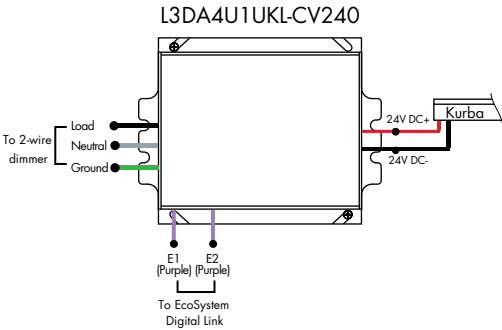
Lutron Power Supplies 1%

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"

