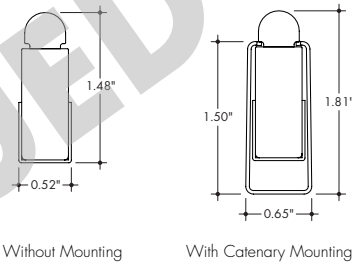
iLight Plexineon Catenary | Static White and Monochrome Colors

luminii

- For interior and exterior accent lighting
- Neon look providing a clear line of light visible for miles
- Includes Turnbuckles, Mounting Frame, Mounting Clips, and other hardware necessary to assemble to Catenary Cable
- Catenary Cable, Poles, Cable Eyes, and other Cable support hardware by others
- Operating Temperature: -40° F to 140° F (-40° C to 60° C)
- 24VDC Class 2
- IK10 and 3G rated
- IP67 rated
- 3 year warranty outdoor



Without Mounting | With Catenary Mounting

3G IP67 IK10 CE RoHS MADE IN U.S.A DIM BAA & BABA +/- 30 CCT Single Bin c UL us LISTED

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Technical Information

MODEL	Plexineon Static White (30K)	Plexineon Monochrome Colors					
		Red	Blue	Green	Magenta	Teal	Yellow
OUTPUT OPTIONS	SO	SO					
Lumens Output (3000K)	123 lm/ft	14 lm/ft	11 lm/ft	50 lm/ft	24 lm/ft	60 lm/ft	62 lm/ft
Average Power Consumption (for a 4' section)	3.2 W/ft	1.2 W/ft	1.4 W/ft	1.5 W/ft	2.6 W/ft	2.9 W/ft	2.7 W/ft
Wavelength	N/A	622 nm	468 nm	525 nm	567 nm	486 nm	563 nm
Efficacy	39 lm/W	12.1 lm/W	8.1 lm/W	33.8 lm/W	9.2 lm/W	20.9 lm/W	23.2 lm/W
Order Increment	1.97"	1.97"					
Max Run Length (in series)	30 ft	32ft	32ft	32ft	32ft	32ft	32ft

CCT	Multiplier (reference - 3000K)	CRI	TM-30 R_f	TM-30 R_g
2700K	0.94	90	88	97
3000k	1.00	90	87	97
3500k	1.02	90	87	97
4000k	1.02	90	84	92

Ordering Code

MODEL	RUN LENGTH[2]	BEND	CCT	OUTPUT	LENS	MOUNTING	FINISH	POWERFEED POSITION/TYPE
PX-Plexineon[1]	_____-Run length in inches, 3" min, no max run length	SR-Straight Run	27K-2700K 30K-3000K 35K-3500K 40K-4000K B-Blue G-Green T-Teal Y-Yellow R-Red M-Magenta	SO-Standard	F-Frosted	CD-Catenary Mount, Decorative Clips[3]	GG-Gloss Grey BK-Matte BLack GY-Matte Grey WH-Matte White	B-4-Plug Quick Connect one end, Receptacle Quick Connect other end

1. Standard lead time 8 weeks.
2. Static White and Monochrome colors are available in 2"(1.97") increments, +/- ½" tolerance. Run Lengths over 96" (8ft) will be made of equal sections no longer than 96".
3. Catenary Mount fixtures include a fixture mounting frame and all mounting components necessary to attach to Catenary Cable (by others). Decorative mounting clips included approximately every 18" of linear/arc length and match the fixture finish.

iLight Plexineon Catenary | Static White and Monochrome Colors

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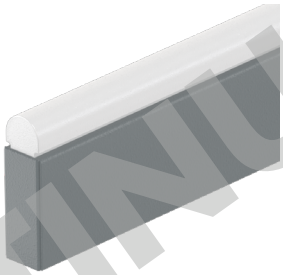
Finish Options

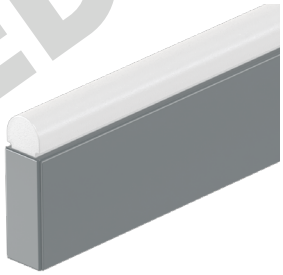
BK
Matte Black Finish

WH
Matte White Finish

GY
Matte Grey Finish

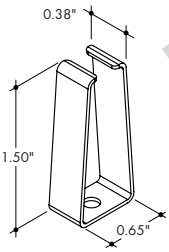


GG
Gloss Grey Finish



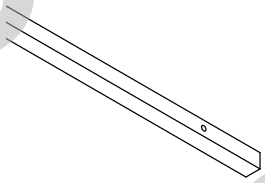
Mounting Components

CD
Catenary Mount, Decorative Clip



Thinner clip with finish options to match fixtures

Mounting Frame

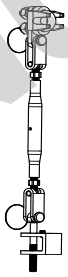


Mounting clips are riveted at the factory to the Mounting Frame. Finish matches Ordering Code Finish selected

Mounting Frame Joiner

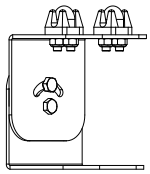
Assembles Mounting Frame together for runs over 96" (8ft)

80-HSH01-000-XX
Horizontal Catenary Strut Hanger



Able to adjust up to 2.5" vertically

35-CVC-003-XX
Vertical Catenary Collar Assembly



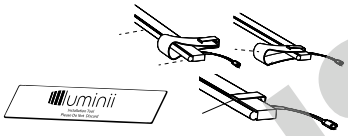
Able to adjust up to 2.5" vertically

0X	Clip Finish
01	Matte Black
02	Matte Grey
03	Matte White

Additional Material

- Ordered separately.

70-TOL02-001-01
Mounting Clip
Installation Tool

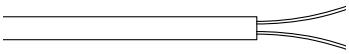


Use for installation of Plexineon into Mounting Clips

60-12-22AWGSBWN
Weatherproof Wire Nut
Silicone Filled

Order 2 per Power Supply

55-STW02-050-00
50 ft of 14 gauge wire Black jacket, 2 conductors



Sunlight, moisture resistant, and flame retardant PVC jacket per UL 1277

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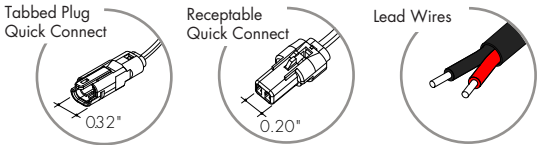
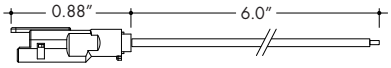
Powerfeed and Connectors

- Quick Connectors with 6" flying leads are included in the Plexineon runs per CCT option selected. Order extras as desired.

Connectors for use with Static White and Mono - Sold Separately



60-SJ-0001-08
iLight TABBED PLUG Quick Connect with 6" flying leads, 2-conductor



Also available with longer Flying Leads

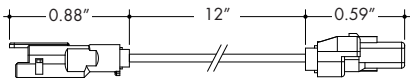
60-SJ-C2-0001-01	120" flying leads

60-SJ-0002-08
iLight RECEPTABLE Quick Connect with 6" flying leads, 2-conductor

Also available with longer Flying Leads

60-SJ-C2-0002-01	120" flying leads

60-SJ-C2-JMP-12-01
iLight Plug-Receptacle Quick Connect 12" Jumper, 2-conductor, Black silicone jacket



Also available with longer wires

60-SJ-C2-JMP-48-01	48" jumper
60-SJ-C2-JMP-120-01	120" jumper

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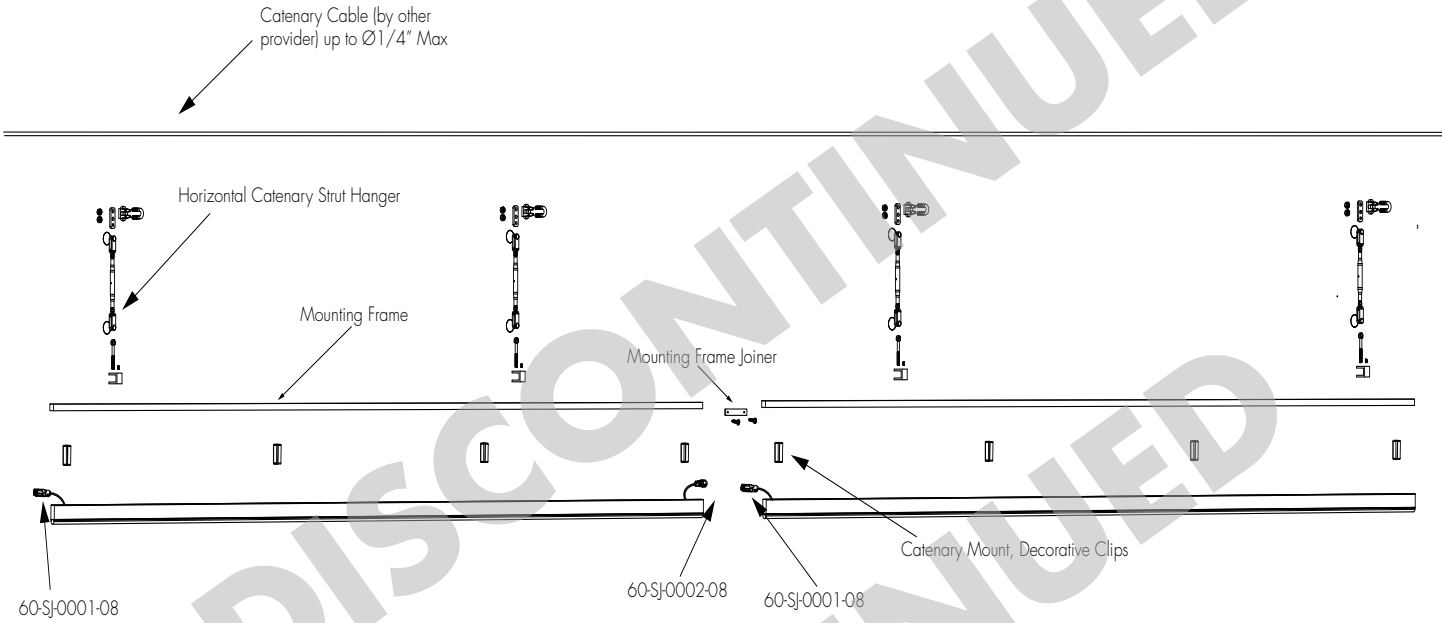
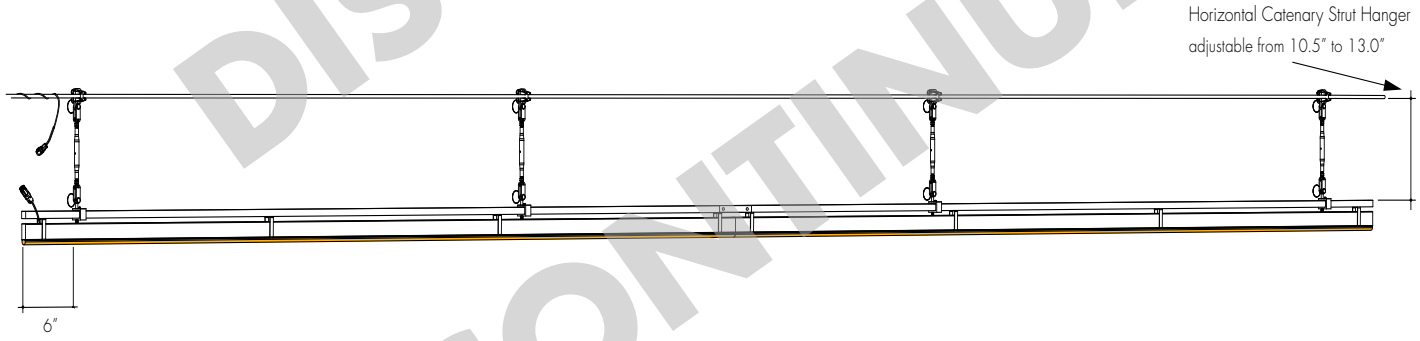
Sample Layout

PX-144-SR-30K-SO-F-CD-GG-B-4
Plexineon Straight, Catenary Mount, Decorative Clips





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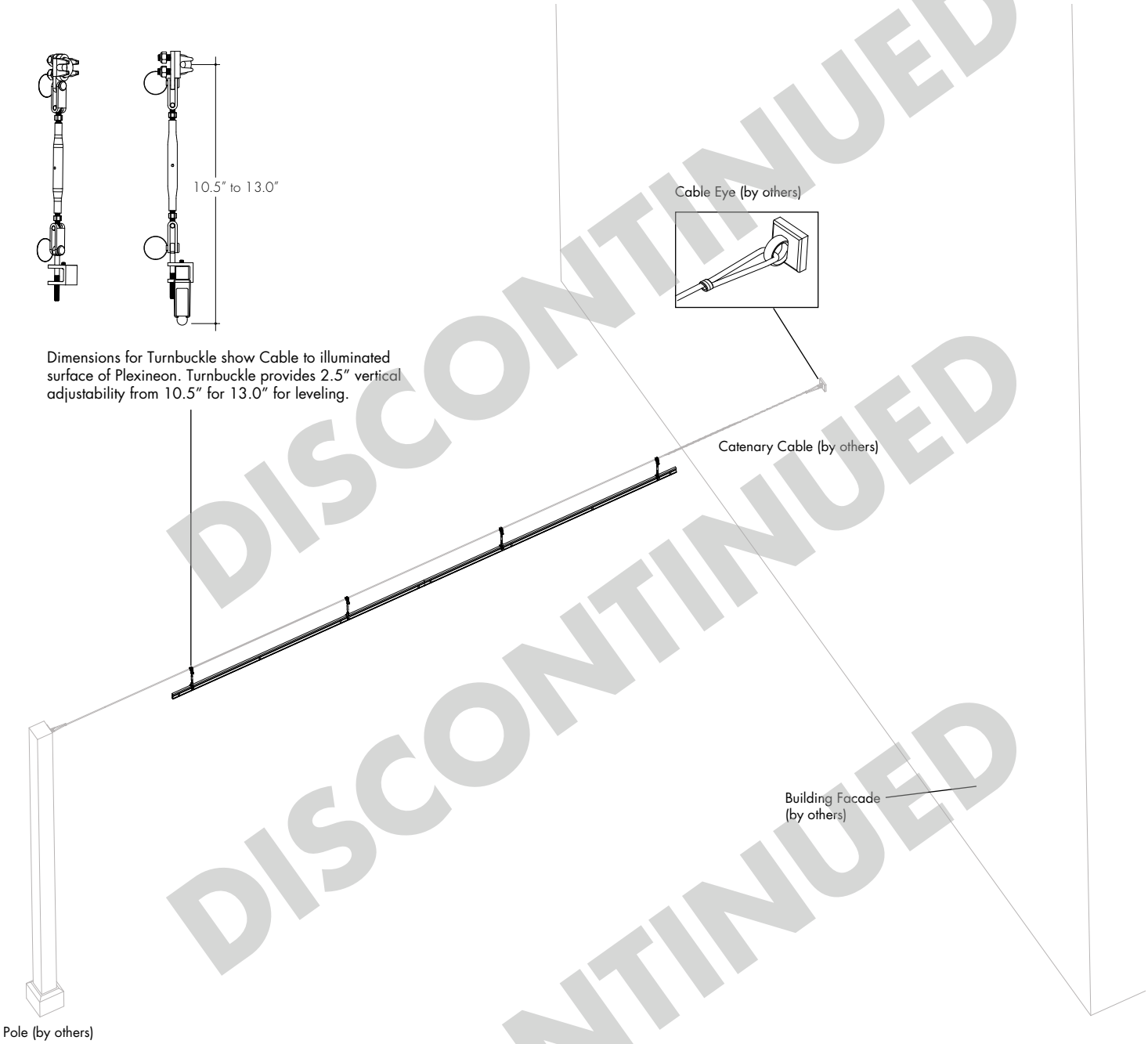
Sample Layout

Dimensions for Turnbuckle show Cable to illuminated surface of Plexineon. Turnbuckle provides 2.5" vertical adjustability from 10.5" for 13.0" for leveling.



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Power Consumption

Tested at Full Power with PS-UNI Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

Static White

Nominal Length (in)	Actual Length	Watts	Nominal Length (in)	Actual Length	Watts
3	2 8/16	2.5	**54**	53 11/16	14.5
5	4 8/16	4.5	**56**	55 11/16	15.2
7	6 7/16	1.5	**58**	57 10/16	15.7
9	8 7/16	2.1	**60**	59 10/16	16.2
11	10 6/16	2.6	**62**	61 9/16	16.6
13	12 6/16	3.1	**64**	63 9/16	17.4
15	14 5/16	3.6	**66**	65 8/16	17.6
17	16 5/16	4.1	**68**	67 8/16	18.1
19	18 4/16	4.8	**70**	69 7/16	18.5
21	20 4/16	5.3	**72**	71 7/16	19.3
23	22 3/16	5.8	**74**	73 6/16	19
25	24 3/16	6.5	**76**	75 6/16	19.5
27	26 2/16	7	**78**	77 5/16	20
29	28 2/16	7.5	**80**	79 5/16	20.7
31	30 1/16	8.2	**82**	81 4/16	21.2
33	32 1/16	8.7	**84**	83 4/16	21.7
35	34	9.2	**86**	85 3/16	22.4
36	36	9.9	**88**	87 3/16	22.9
38	37 15/16	10.4	**90**	89 2/16	23.4
40	39 15/16	10.8	**92**	91 2/16	23.9
42	41 14/16	11.6	**94**	93 1/16	24.3
44	43 14/16	11.9	**96**	95 1/16	24.8
46	45 13/16	12.5			
48	47 13/16	12.8			
50	49 12/16	13.5			
52	51 12/16	14			

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Power Consumption

Tested at Full Power with PS-UNI Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

Monochrome

Nominal Length (in)	Actual Length	Watts						Nominal Length (in)	Actual Length	Watts					
		Red	Yellow	Green	Teal	Blue	Magenta			Red	Yellow	Green	Teal	Blue	Magenta
3	2 8/16	0.2	0.4	0.3	0.5	0.2	0.4	**54**	53 11/16	5.3	12.5	7.0	13.7	6.5	12.1
5	4 8/16	0.4	0.9	0.5	1.0	0.5	0.8	**56**	55 11/16	5.5	12.8	7.2	14.2	6.8	12.5
7	6 7/16	0.6	1.4	0.8	1.4	0.7	1.4	**58**	57 10/16	5.8	13.5	7.5	14.7	7.0	23.8
9	8 7/16	0.8	1.6	1.0	1.9	1.0	1.6	**60**	59 10/16	5.8	14.0	7.7	15.2	7.2	12.8
11	10 6/16	1.0	2.1	1.2	2.6	1.2	2.1	**62**	61 9/16	6.3	14.2	8.2	15.7	7.5	13.7
13	12 6/16	1.2	2.9	1.4	3.1	1.4	2.6	**64**	63 9/16	6.5	14.7	8.4	16.2	7.7	14.2
15	14 5/16	1.3	3.1	1.6	3.3	1.6	3.1	**66**	65 8/16	6.7	15.2	8.7	16.5	8.2	14.7
17	16 5/16	1.4	3.6	1.9	3.8	1.9	3.6	**68**	67 8/16	6.7	15.7	8.9	17.1	8.4	15.2
19	18 4/16	1.6	4.1	2.1	4.6	2.1	3.8	**70**	69 7/16	7.0	16.2	9.2	17.6	8.4	15.7
21	20 4/16	1.9	4.6	2.6	5.0	2.1	4.6	**72**	71 7/16	7.0	16.6	9.2	17.8	8.7	15.9
23	22 3/16	1.9	5.0	2.9	5.5	2.6	5.0	**74**	73 6/16	7.2	17.1	9.4	18.3	8.9	16.3
25	24 3/16	2.1	5.5	3.1	6.3	2.9	5.3	**76**	75 6/16	7.5	17.4	9.9	18.8	9.2	16.6
27	26 2/16	2.6	6.3	3.3	6.7	3.1	5.8	**78**	77 5/16	7.7	17.8	10.1	19.3	9.4	17.1
29	28 2/16	2.9	6.5	3.6	7.0	3.3	6.3	**80**	79 5/16	7.7	18.1	10.4	19.8	9.6	17.6
31	30 1/16	3.1	7.0	3.8	7.5	3.6	6.7	**82**	81 4/16	8.2	18.3	10.6	20.2	9.9	18.1
33	32 1/16	3.1	7.2	4.1	8.2	3.8	7.0	**84**	83 4/16	8.4	19.1	10.8	21.0	10.1	18.3
35	34	3.3	7.7	4.6	8.7	4.1	7.5	**86**	85 3/16	8.4	19.3	10.8	21.2	10.4	18.8
36	36	3.6	8.4	4.8	9.1	4.6	8.2	**88**	87 3/16	8.7	19.8	11.1	21.7	10.6	19.0
38	37 15/16	3.8	8.9	5.0	9.7	4.8	8.4	**90**	89 2/16	8.9	20.0	11.6	21.9	10.8	19.5
40	39 15/16	3.8	9.2	5.3	10.1	4.8	8.9	**92**	91 2/16	9.2	21.0	11.8	22.9	11.1	20.0
42	41 14/16	4.1	9.9	5.3	10.6	5.0	9.4	**94**	93 1/16	9.2	21.0	11.8	23.1	11.1	20.3
44	43 14/16	4.6	10.1	5.5	11.1	5.3	9.9	**96**	95 1/16	9.2	21.0	11.8	23.2	11.6	20.7
46	45 13/16	4.6	10.6	6.1	11.8	5.5	10.4								
48	47 13/16	4.8	11.1	6.3	12.3	5.8	10.6								
50	49 12/16	5.0	11.6	6.5	12.5	6.3	11.1								
52	51 12/16	5.3	12.1	6.7	13.0	6.5	11.6								

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Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

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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.

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

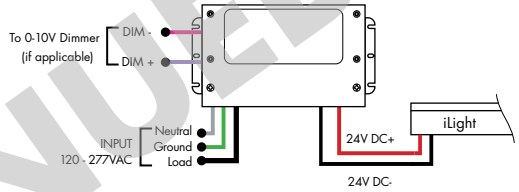
MODEL		INPUT CONTROL		WATTAGE		OUTPUT
	–		–		–	
PS - Power Supply, 120-277VAC		UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)		30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC

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

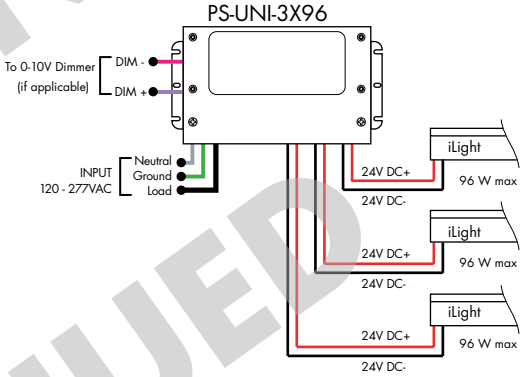
0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

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"

PS-UNI-30/60/96



PS-UNI-3X96

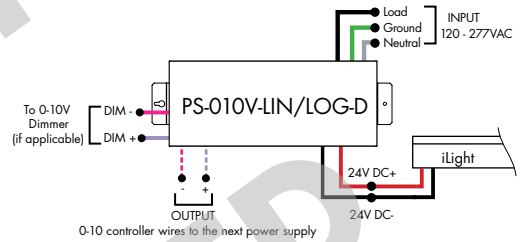


Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

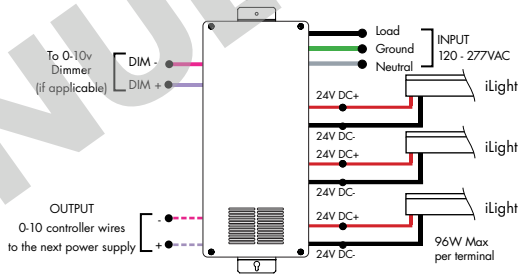
MODEL		INPUT CONTROL		ENVIRONMENT		WATTAGE		OUTPUT
	-		-		-		-	
PS - Power Supply, 120-277VAC		010V-LIN - 0-10V Dimming (0.1%), Linear 010V-LOG - 0-10V Dimming (0.1%), Logarithmic		D - Dry		96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC

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

PS-010V-LIN/LOG-D



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



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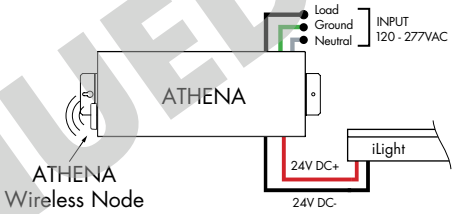
Power Supplies

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.

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	AWNR - Athena Wireless Node

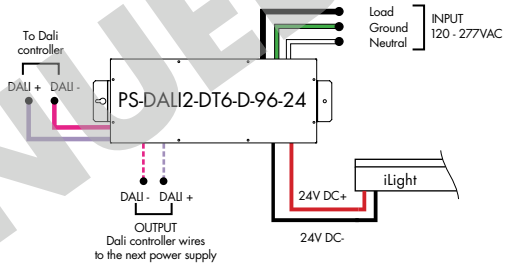
PS-010V-LIN/LOG-D-96-ANWR



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

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

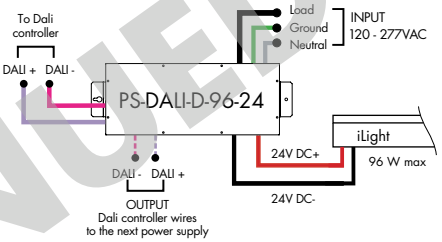
MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DALI2-DT6 - DALI2 DT6 (0.1%)	D - Dry	96 - 96 Watts	24 - 24 VDC



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

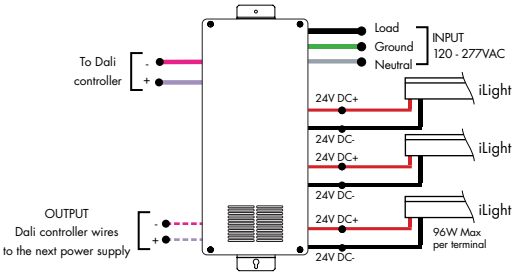
Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

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"

PS-DALI-D-3X96-24



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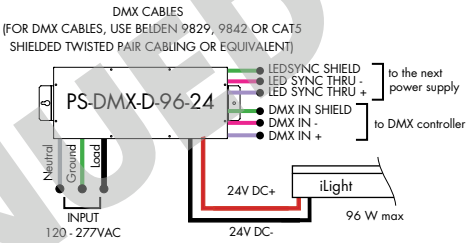
Power Supplies

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.

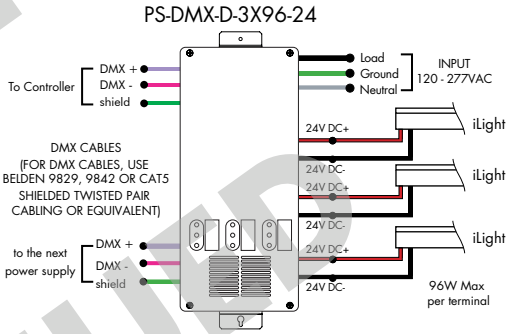
Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

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



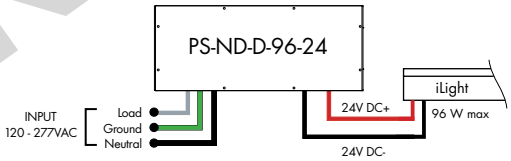
MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

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



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

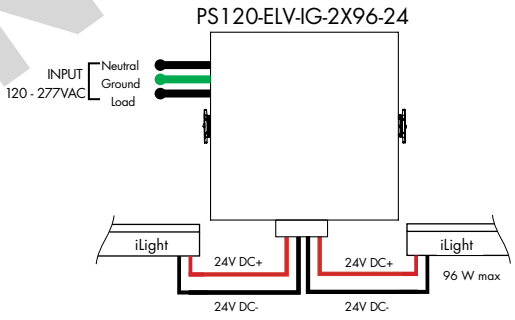
MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS-Power Supply, 120-277VAC	ND-Non Dimming	D-Dry	96-96 Watts	24-24 VDC



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

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"

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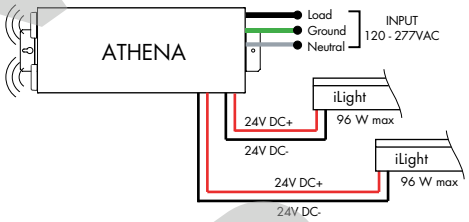
Power Supplies

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.

Ordering Code - Athena VintageDim® 0-10V Two Channel LED Driver, 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT	FEATURE
PS-Power Supply, 120-277VAC	010V-2CH-0-10V Dimming Two Channel Control, LED1 Brightness and LED2 Brightness	D-Dry	96-96 W	24-24 VDC	AWNR-Athena

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



LUTRON®

Luminii is a Lutron OEM Advantage Partner

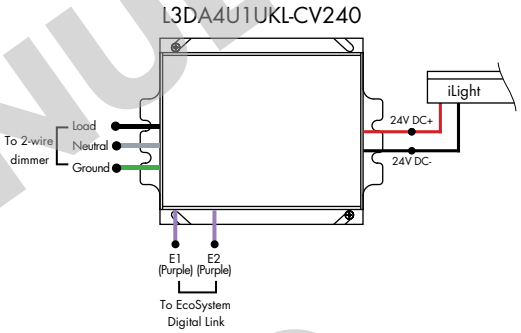
Lutron Power Supplies 1%

MODEL

L3DA4U1UKL-CV240

Hi-lume™ 1% EcoSystem Voltage LED driver
40W max

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



LUTRON®

Luminii is a Lutron OEM Advantage Partner

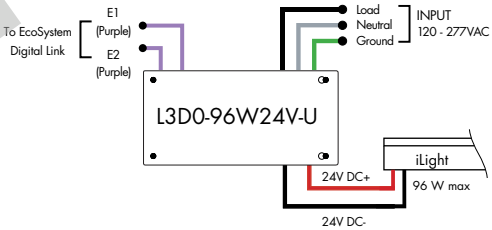
Lutron Power Supplies 0.1%

MODEL

L3D0-96W24V-U

Hi-lume™ 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"



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