iLight Handrail | Handrail White



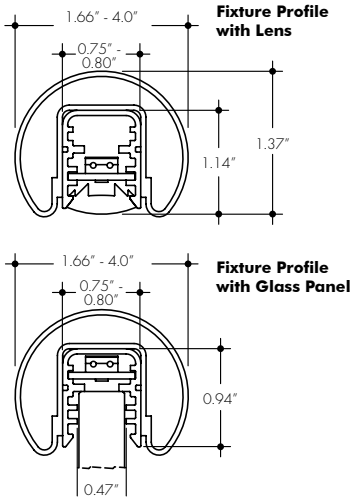
Features

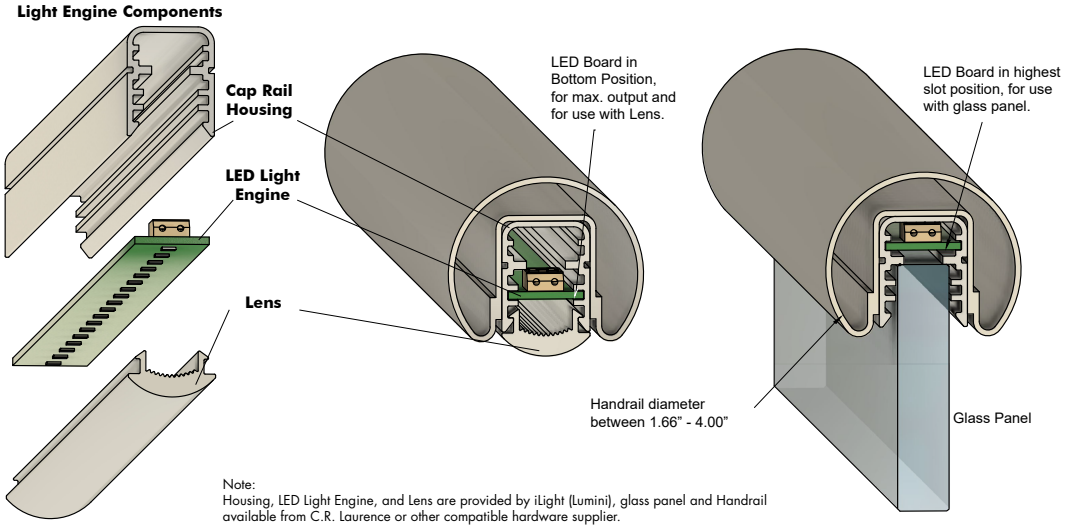
- For use with C.R. Laurence handrail or hardware designed and manufactured to appropriate specifications
- Installer is responsible for confirming field measurements.
- iLight provides LED light engine, housing, lens, and connection hardware. Handrail and additional hardware to be supplied by others (by C.R. Laurence when specified)
- Easy to assemble and install
- Multiple handrail diameter options
- Dimmable
- Meets A.D.A requirements for handrail diameters
- Cap Rail Housing available in 1' increments up to 6'. Cap Rail Housing, LED Light Engine, and Lens are field cuttable in 4" increments.
- Max run length in Series of 17'. Max total run length per power supply of 34'.
- 80 CRI+
- 50,000 hour LED life
- Low voltage 24VDC, Class 2
- Cool to the touch
- Suitable for wet locations
- Proven high quality
- 5 year warranty

WET

Profile Dimensions

Dimensions for reference only





Note:
Housing, LED Light Engine, and Lens are provided by iLight (Lumini), glass panel and Handrail available from C.R. Laurence or other compatible hardware supplier.

Technical information

	All CCT (with 110deg clear lens)
Lumen/ft	325 lum/ft
Watts/ft	3.1 W/ft
Efficacy	104 lum/W

*Light transmission through F112S Frosted Lens is 70%

Dotting Chart

Output Options	Lens/Accessory: Frosted Lens				Clear Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Top Position (3000K)	CD	CD	CD	CD	CD	CD	CD	CD
Middle Position (3000K)	CD	CD	CD	CD	CD	CD	CD	CD
Bottom Position (3000K)	SD	SD	CD	CD	CD	CD	CD	CD



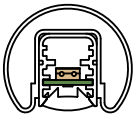
CD - Clear Dotting

SD - Slight Dotting

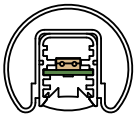
ND - No Dotting

Frosted lens Represents the **F112S** Lens
Clear lens represents the **C060A, C065S, C110S** lenses

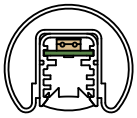
Top Position



Middle Position



Bottom Position



Ordering code

MODEL	-	LENGTH[1]	-	CCT	-	LENS	-	VERSION
	-		-		-		-	

HS - Handrail Lighting System

1 - 6 in 1' increments

W27 - 2700K
W30 - 3000K
W35 - 3500K
W40 - 4000K
W50 - 5000K
W65 - 6500K

C060A - Clear, 60 Asymmetrical
C065S - Clear, 65 Symmetrical
C110S - Clear, 110 Symmetrical
F112S - Frosted, 120 Symmetrical

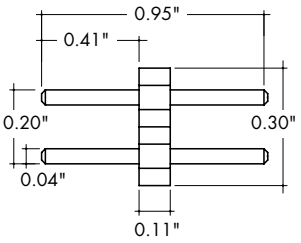
01 - Version 1

1 - Cap Rail Housing, LED Light Engine, and Lens are field cuttable in 4" increments.

Accessories

HS-JMP02-01-01

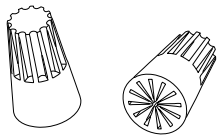
LED Jumper Pins



Used to connect LED Light Engines.

HS-KIT03-01-00

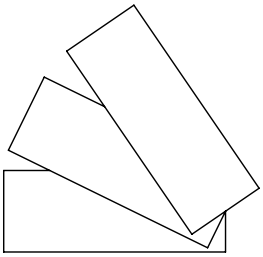
Weatherproof wirenuts



Weatherproof wire nuts, silicon filled. Pack of 10.

HS-SPC01-01-00

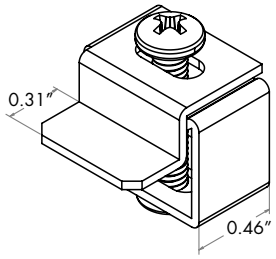
Mounting Shims



Use to shim and secure Cap Rail Housing to Handrail.

HS-KIT02-01-00

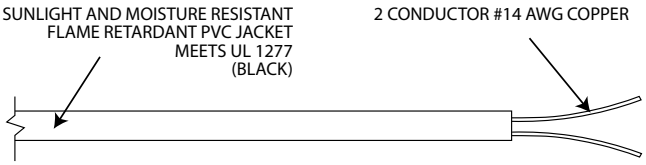
Cap Rail Housing Mounting Clip

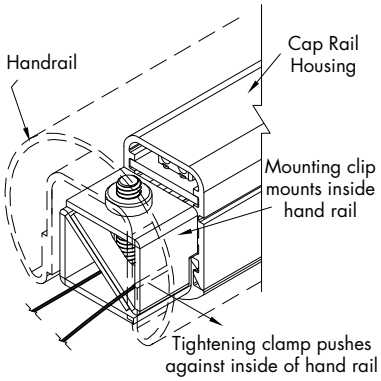


Used to secure the Cap Rail Housing to the Handrail.

HS-STW01-050-00

50' of 14 Guage, 2 conductor wire for 24VDC





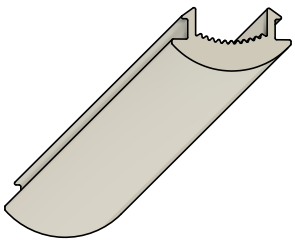
Note:

- **All accessories to be ordered separately.**

REPLACEMENT COMPONENTS

HS-LNS01-XXXX

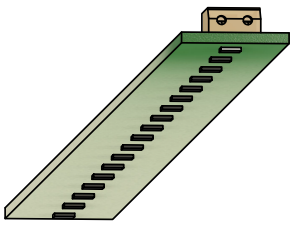
6' Lens Extrusion



-SUFFIX	LENS
-C060A	60° Asymmetric
-C110S	110° Symmetric
-C065S	65° Symmetric
-F112S	Frosted 120° Symmetric

HS-WHT24-XX-01

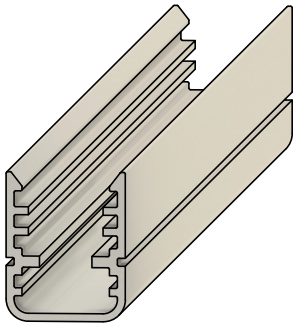
1' LED Light Board



-XX	CCT
-27	2700K
-30	3000K
-35	3500K
-40	4000K
-50	5000K
-65	6500K

HS-HSG01-00

6' piece of Cap Rail Housing

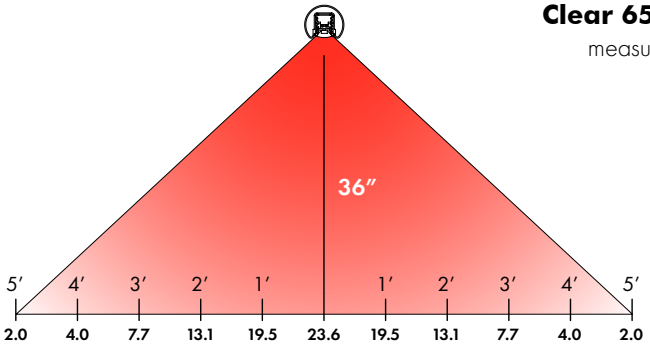


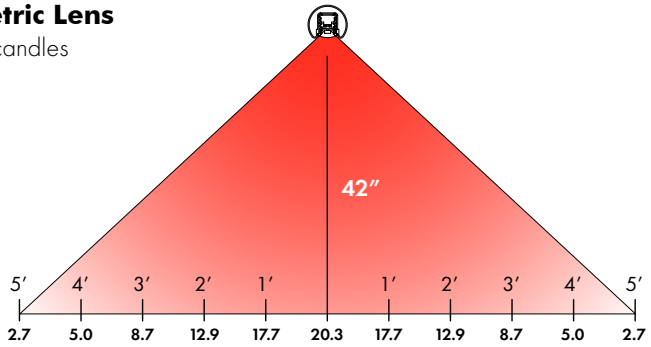
C.R. Laurence Handrail Sizes (for reference)	GR16	GR20	GR25	GR30	GR35	GR40
Diameter " (mm)	1.66" (42.2mm)	2.0" (50.8mm)	2.5" (63.5mm)	3.0" (76.2mm)	3.5" (88.9mm)	4.0" (101.6mm)

*Contact C.R. Laurence for Handrails

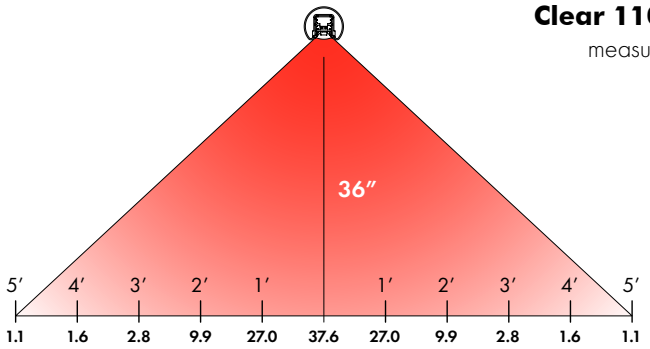
Performance and Beam Spread

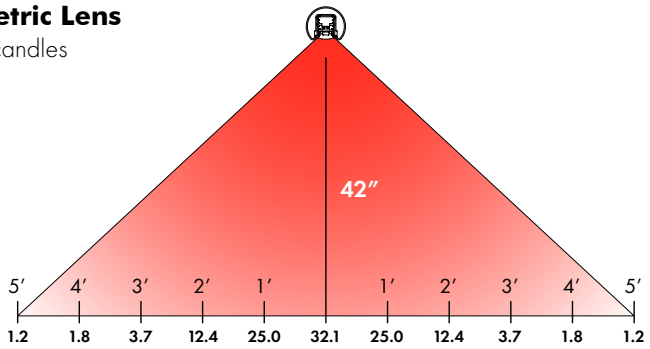
Clear 65° Symmetric Lens
measured in foot candles



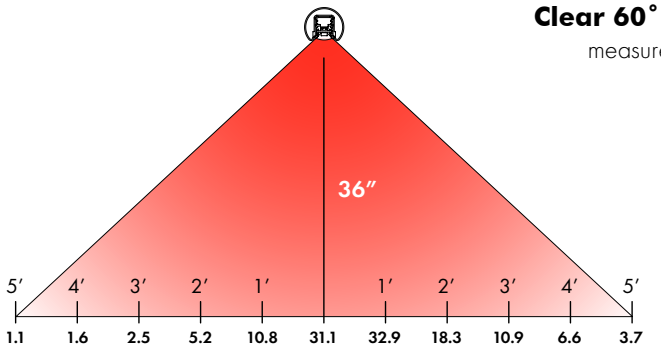


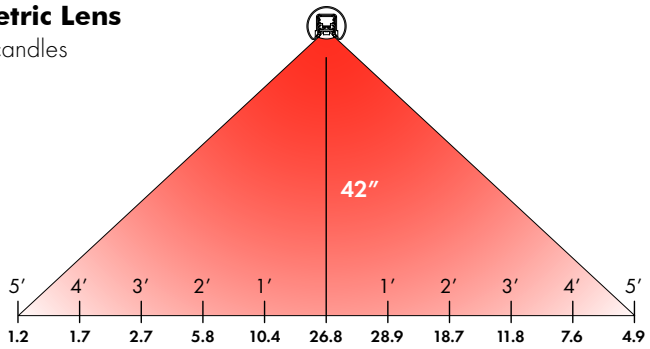
Clear 110° Symmetric Lens
measured in foot candles



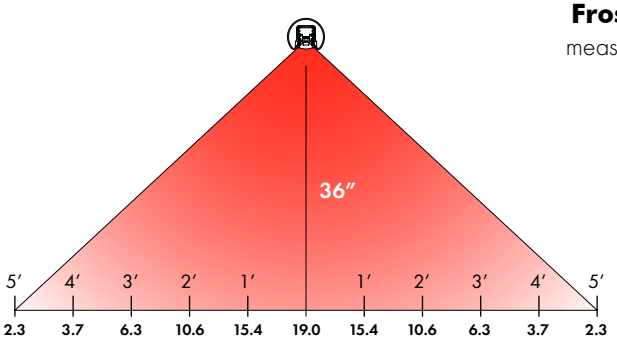


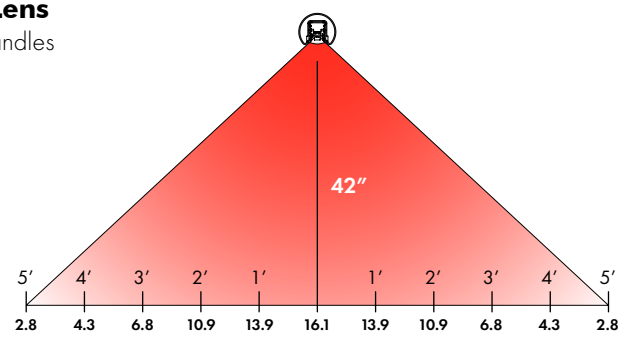
Clear 60° Asymmetric Lens
measured in foot candles





Frosted 120° Lens
measured in foot candles





Handrail | Power Consumption Per Fixture Length

Nominal Length (feet)	W/ft	Watts (single run in series)
1	2.88	2.9
2	2.87	5.7
3	2.86	8.6
4	2.86	11.4
5	2.85	14.3
6	2.85	17.1
7	2.84	19.9
8	2.82	22.6
9	2.81	25.3
10	2.79	27.9
11	2.78	30.6
12	2.76	33.1
13	2.74	35.6
14	2.72	38.1
15	2.71	40.7
16	2.70	43.1
17	2.69	45.7

Specification / Bidding / Field Measurements / Installation

For a smooth, predictable process and a high quality outcome, you need:

a) a high quality light source (iLight)
b) a high quality hardware system (C.R. Laurence)
c) an experienced electrical contractor, and
d) an experienced handrail installer (e.g. ornamental ironworker, metal shop, glazing company).

A bundled illuminated handrail system (lighting and hardware together) conflicts with how the trades like to do business. If an EC does not provide the lighting, they won't warrant it. And if a handrail installer does not provide the hardware, they won't warrant that. And neither trade wants to purchase material for the other trade.
That's why many general contractors demand that the handrail installer provides the hardware and the electrical contractor provides the lighting. This makes iLight the ideal solution: electrical contractors and handrail installers have been working together for over 10 years to successfully install the iLight Handrail Lighting System on compatible C.R. Laurence handrails.

Phase	Hardware for Handrail	Light Source for Handrail
Specification	**C.R. Laurence ("CRL") handrail hardware model compatible with iLight Handrail Lighting System, including CRL Cap Rail models:** •GR16 (diameter: 1.66", 42.2mm) •GR20 (diameter: 2.0", 50.8mm) •GR25 (diameter: 2.5", 63.5mm) •GR30 (diameter: 3.0", 76.2mm) •GR35 (diameter: 3.5", 88.9mm) •GR40 (diameter: 4.0", 101.6mm) or custom CRL hardware designed to meet the specifications of the iLight Handrail Lighting System. Specification in the "Metals" division. Please cross reference the iLight Handrail Lighting System specification.	**iLight Handrail Lighting System Specification in the lighting section of the "Electrical" division.** •2700K (325 lumens* / foot) •3000K (325 lumens* / foot) •3500K (325 lumens* / foot) •4000K (325 lumens* / foot) •6500K (325 lumens* / foot) (*Lumen data based on actual light output of luminaire, not the higher output of the "raw" LEDs. Measured with 60° asymmetrical lens.) Beam Spread Options •Clear 60º asymmetrical •Clear 65º symmetrical •Clear 110º symmetrical •Frosted120º symmetrical Please cross reference the handrail hardware specification.
Bidding	**Handrail Installer bids the hardware**	**Electrical Contractor bids the light source**
Field Measurements	**Handrail Installer**	**Not Required** Small variations from plan to actual would not significantly change costs for the iLight Handrail Lighting System. • iLight light engine comes in1-foot sections, cuttable every 4 inches • Housing & lens come in 6-foot sections and are field cuttable • Up to 34 feet per power supply; (two 17-foot runs)
Installation	**Handrail Installer**	**Electrical Contractor**

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

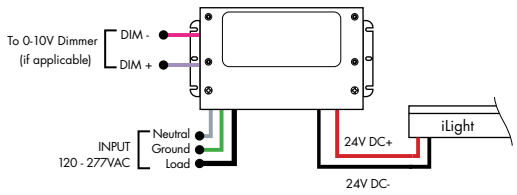
MODEL		INPUT CONTROL		WATTAGE		OUTPUT
	–		–		–	
PS - Power Supply, 120-277VAC		UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)		30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC

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

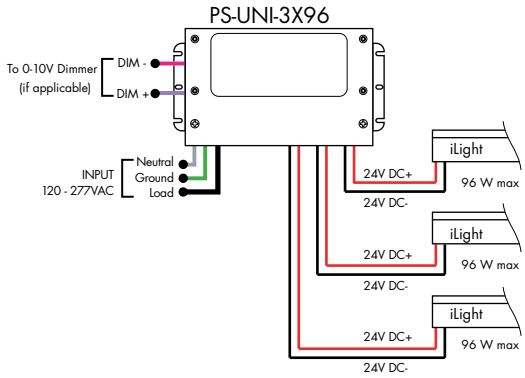
0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

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

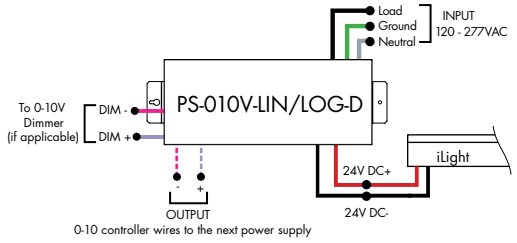


PS-UNI-3X96



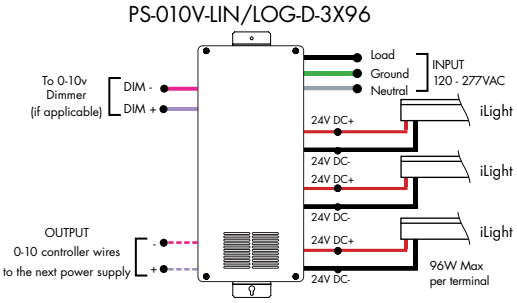
Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

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-3X96



Power Supplies

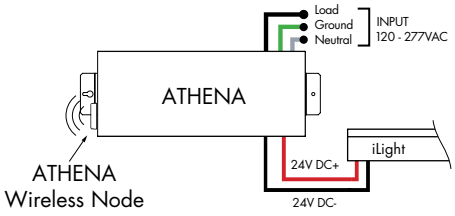
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

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

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

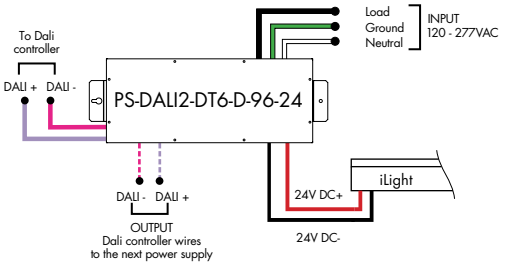
PS-010V-LIN/LOG-D-96-ANWR



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

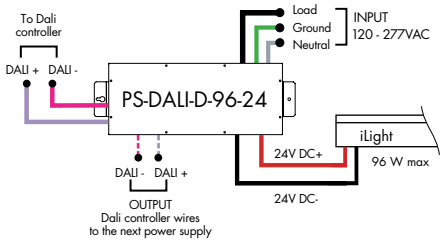
Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



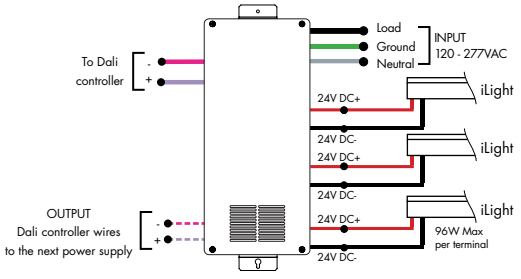
Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

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

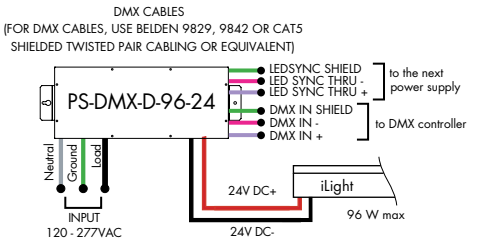


Power Supplies

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.

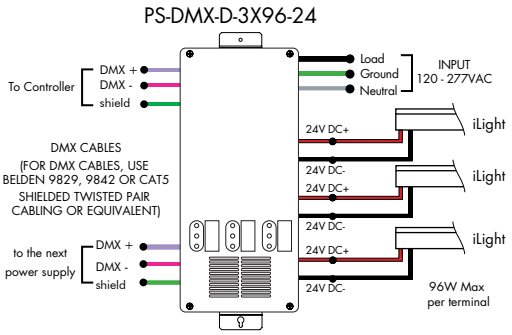
Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

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



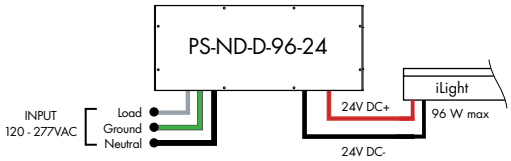
MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

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



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

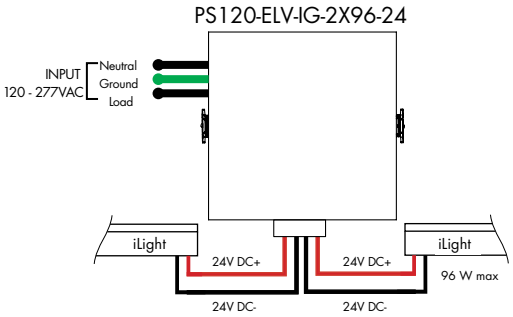
MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
	-	-	-	-
PS-Power Supply, 120-277VAC	ND-Non Dimming	D-Dry	96-96 Watts	24-24 VDC



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"

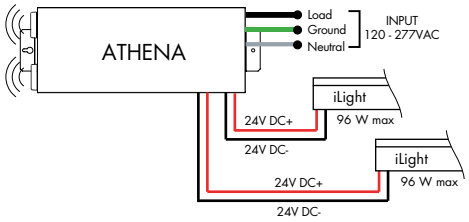
Power Supplies

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"



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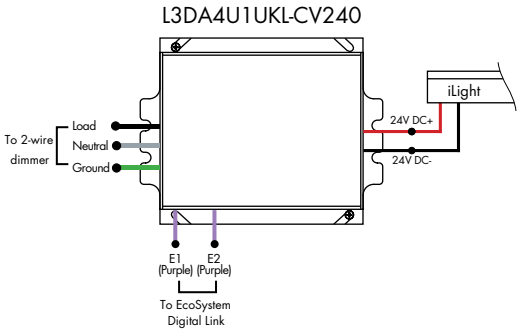
Lutron Power Supplies 1%

MODEL

L3DA4U1UKL-CV240

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

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



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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"

