optic arts by luminii



LLHE64



LLHE64 REEL

Features

The High Efficacy, LLHE64 series is a small form factor high performance constant voltage LED strip. Designed to deliver best in class efficacy while operating at low temperature, LLHE64 deliver constant light output, outstanding color consistency and dimming performance without the need of an additional heat sink.

Mounting
LLED strip is equipped with 3M™ adhesive tape.

Applications
Indoor only - millwork, cove, architectural reveals, undercabinet, display case, handrail, accent lighting.

Approvals
Class 2 damp listed. Approved for closet/storage space installation per NEC 410.16(A) (3) and 410.16(C)(5) on outputs 3.0 W/ft or less

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
7 years

Technical information

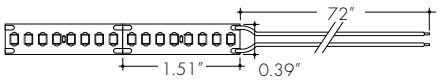
TYPE	LLHE64						
OUTPUT OPTIONS	**VLO**	**LO**	**SO**	**MO**	**HO**	**VHO**	**XHO**
Lumens Output (3000K)	142 lm/ft	308 lm/ft	441 lm/ft	586 lm/ft	833 lm/ft	1142 lm/ft	1375 lm/ft
Average Power Consumption (for a 4' section)	0.9 W/ft	1.9 W/ft	2.8 W/ft	3.7 W/ft	5.4 W/ft	7.1 W/ft	8.9 W/ft
Efficacy	156 lm/W	161 lm/W	158 lm/W	157 lm/W	155 lm/W	161 lm/W	155 lm/W
Cutting Increment (in)	1.51"						
Pitch Length	0.19"						
Max Run Length (in series)	90.0 ft	55.0 ft	34.9 ft	26.0 ft	17.0 ft	13.0 ft	10.3 ft
Dimensions	0.39" W x 0.06" H						
Ambient Operating Temperature Range*	-5°F - 125°F (- 20°C - 50°C)				-5°F - 113°F (- 20°C - 45°C)	-5°F - 95°F (- 20°C - 35°C)	-5°F - 85°F (- 20°C - 30°C)

*XHO output must be paired with an aluminum channel
*Ambient Operating Temperature Range to maintain L70 of 50K+ hours in normal conditions. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquires.

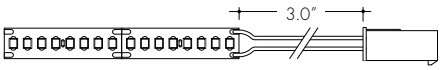
CCT	Multiplier (reference - 3000K)	TM-30 CRI	R_f	R_g	R_9
2200K	0.74	94	91	96	65
2400K	0.87	94	92	97	56
2700K	0.97	94	92	100	57
3000K	1.00	93	91	99	54
3500K	1.01	95	91	99	62
4000K	1.04	95	91	99	68

Section Start/End Options

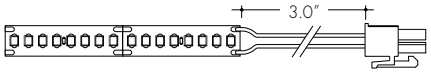
SL
Soldered lead wires (72")



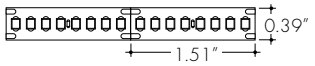
LF
Lead Female 3" cable



LM
Lead Male 3" cable



NC
No connector



Ordering code

MODEL	OUTPUT	CCT	SECTION START	SECTION END	LENGTH
LLHE64 - LineLED HE64	VLO - Very Low LO - Low SO - Standard MO - Medium HO - High VHO - Very High XHO - Extreme	22K - 2200K 24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	SL - Soldered lead wires (72") NC - No connector LM - Lead Male LF - Lead Female	SL - Soldered lead wires (72") NC - No connector LM - Lead Male LF - Lead Female	Lengths specified to the inch; ordering code rounded up to one-foot increments. See chart above for max run length
			(Leave blank for Reels)	(Leave blank for Reels)	R - Reel, 32.8ft[1]

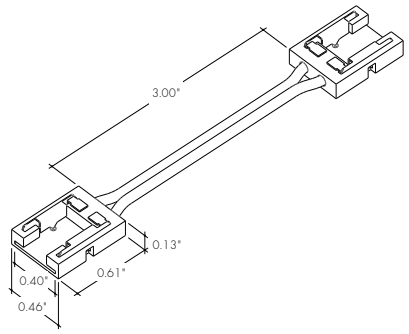
1 - Reels include 3 each of LL-PFC-10-72 and LL-PJC-10-03

*LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE

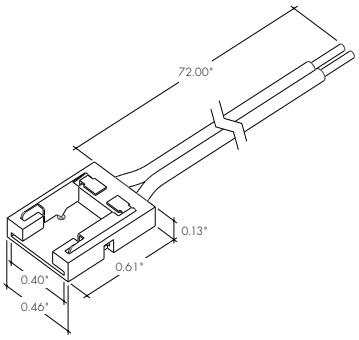
Minii Connectors

Minii connectors are easy, field-installable accessories that make joining LL strip simple! Their minimal width allows them to fit into extrusions, while their transparent frame eliminates dark spots.
Note: verify internal extrusion dimensions to confirm compatibility

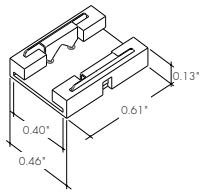
LL-PJC-10-03
Jumper minii connector with 3" wire for LLHE64 LED strip



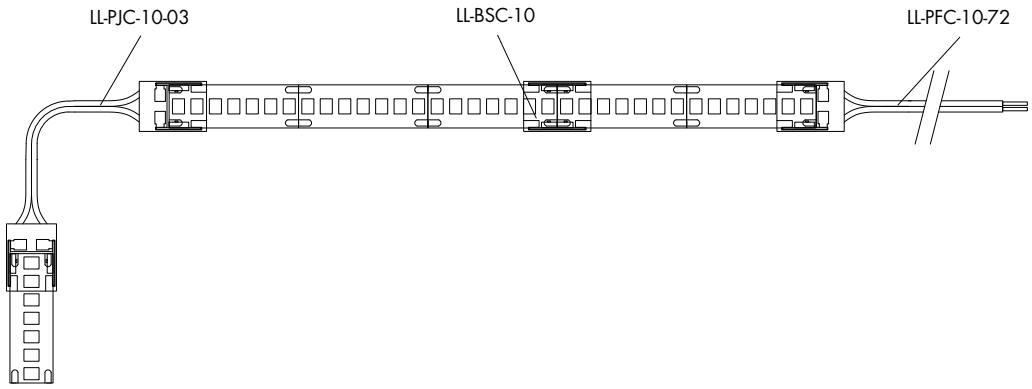
LL-PFC-10-72
Power feed minii connector with 72" wire for LLHE64 LED strip



LL-BSC-10
Butt splice minii connector for LLHE64 LED strip

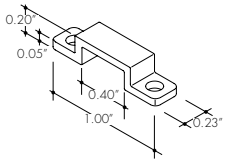


Sample Layout



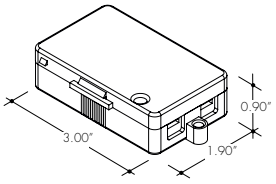
Accessories

CL1
Mounting clip

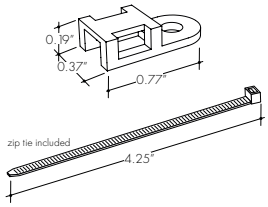


Recommended every 12" when LineLED strip is facing down

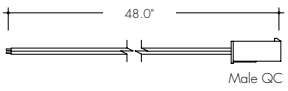
LVSP-4T-BK
Low Voltage, 4 Terminal Splice Box, Black, IP20



LL.ZIP
Cable/Wire Strain Relief Clip

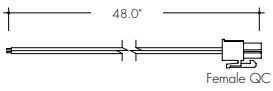


MOLEX-CON-LEAD-M-2-48
Molex Male Connector Cable, 2 pin, 48"



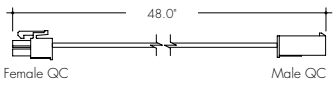
For power supply connection, not intended to be soldered to LED strip

MOLEX-CON-LEAD-F-2-48
Molex Female Connector Cable, 2 pin, 48"



For power supply connection, not intended to be soldered to LED strip

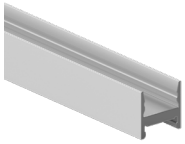
MOLEX-JC-F-M-2-48
Female/Male Jumper Cable, 2 pin, 48"

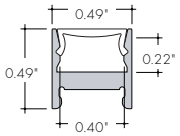


For connecting LED strips in series

Lens Options / Light Transmission

MK CHANNEL
-MKC
(Link to Web)



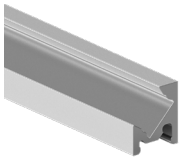


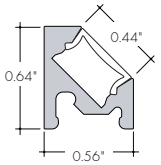
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	ND	ND	ND	ND	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

MK45V CHANNEL
-MK45VC
(Link to Web)





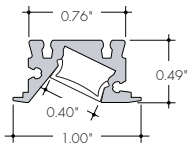
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	ND	ND	ND	ND	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

MKRA CHANNEL
-MKRAC
(Link to Web)





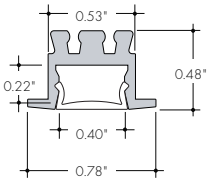
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	ND	ND	ND	ND	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

MKR CHANNEL
-MKRC
(Link to Web)





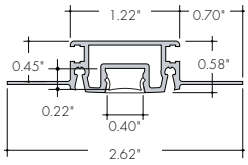
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	ND	ND	ND	ND	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

MKL CHANNEL
-MKLC
(Link to Web)





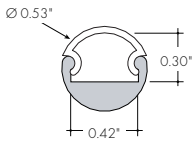
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	ND	ND	ND	ND	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

MKRO CHANNEL
-MKROC
(Link to Web)





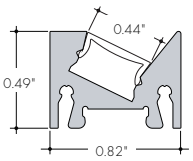
Lens	Round Frosted
Transmission %	64%
Dotting*	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

MKA CHANNEL
-MKAC
(Link to Web)



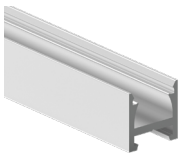


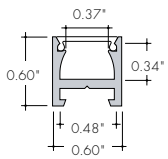
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	47%	24%	40%	60%
Dotting*	CD	ND	ND	ND	ND	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

BOS CHANNEL
-BOSC
(Link to Web)





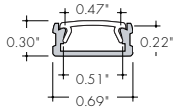
Lens	Frosted	Raised	Graze	Satin Ice
Transmission %	52%	57%	76%	71%
Dotting*	ND	ND	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

KS CHANNEL
-KSC
(Link to Web)





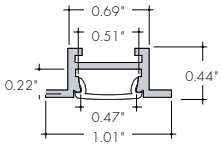
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Medium
Transmission %	90%	71%	56%	56%	64%	85%
Dotting*	CD	CD	ND	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

KRS CHANNEL
-KRSC
(Link to Web)





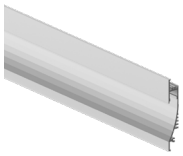
Lens	Clear	Half Frosted	Frosted	Flat Frosted
Transmission %	90%	71%	56%	56%
Dotting*	CD	CD	ND	ND

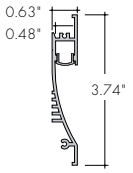
*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

Lens Options / Light Transmission

WALL+ CHANNEL -WPC
(Link to Web)





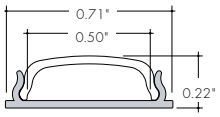
Lens	Round Frosted
Transmission %	65%
Dotting*	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

KLB CHANNEL -KLBC
(Link to Web)





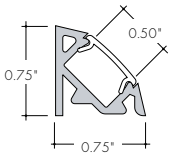
Lens	Round Frosted
Transmission %	57%
Dotting*	ND

*At 100% brightness

NOT Compatible with
- Minii connectors
- XHO output

K45V CHANNEL -K45VC
(Link to Web)



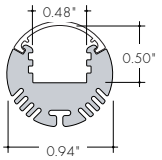


Lens	Clear	Half Frosted	Frosted	Flat Frosted	13° Semi-Frosted
Transmission %	82%	65%	51%	47%	76%
Dotting*	CD	ND	ND	ND	CD

*At 100% brightness

RO CHANNEL -ROC
(Link to Web)





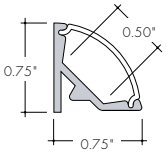
Lens	Clear	Frosted
Transmission %	86%	67%
Dotting*	CD	ND

*At 100% brightness

NOT Compatible with
- XHO output

K45R CHANNEL -K45RC
(Link to Web)





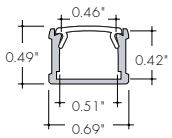
Lens	Round Frosted
Transmission %	65%
Dotting*	ND

*At 100% brightness

NOT Compatible with
- XHO output

KM CHANNEL -KMC
(Link to Web)



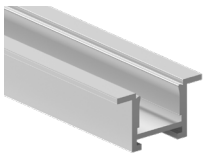


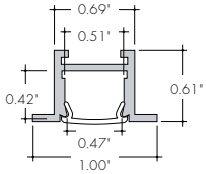
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	58%	56%
Dotting*	CD	ND	ND	ND	ND	CD

*At 100% brightness

NOT Compatible with
- XHO output

KRM CHANNEL -KRMC
(Link to Web)





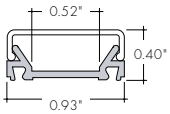
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	56%
Dotting*	CD	ND	ND	ND	CD

*At 100% brightness

NOT Compatible with
- XHO output

BAR CHANNEL -BARC
(Link to Web)

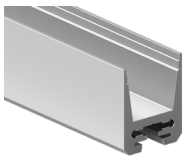


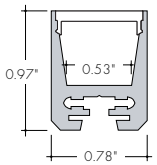


Lens	Frosted	Narrow Beam	Medium	Batwing	Asymmetric
Transmission %	65%	63%	56%	74%	56%
Dotting*	ND	CD	CD	CD	CD

*At 100% brightness

ALS20 CHANNEL -ALS20C
(Link to Web)





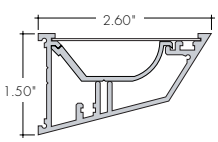
Lens	Clear	Frosted
Transmission %	54%	49%
Dotting*	CD	ND

*At 100% brightness

NOT Compatible with
- XHO output

MCAL CHANNEL -MCALC
(Link to Web)

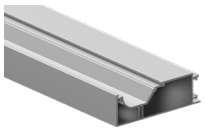


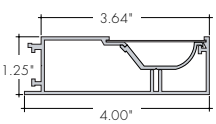


Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

*At 100% brightness

MREC CHANNEL -MRECC
(Link to Web)





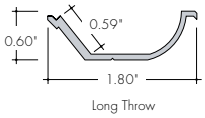
Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

*At 100% brightness

Lens Options / Light Transmission

CLT CHANNEL -CLTC
(Link to Web)



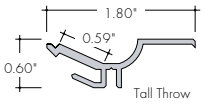


Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

CTT CHANNEL -CTTC
(Link to Web)



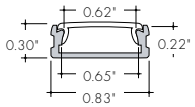


Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

KL CHANNEL -KLC
(Link to Web)

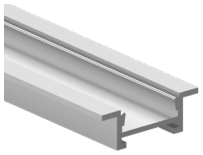


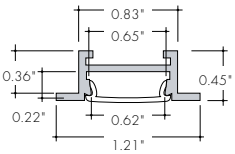


Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	ND

*At 100% brightness

KRL CHANNEL -KRLC
(Link to Web)



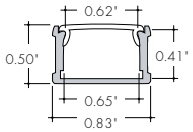


Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	ND

*At 100% brightness

KXL CHANNEL -KXLC
(Link to Web)

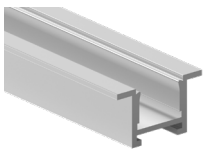


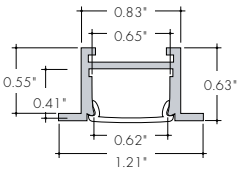


Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	ND	ND

*At 100% brightness

KRXL CHANNEL -KRXLC
(Link to Web)



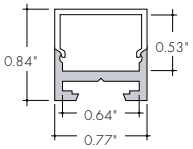


Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	ND	ND

*At 100% brightness

CLA CHANNEL -CLAC
(Link to Web)



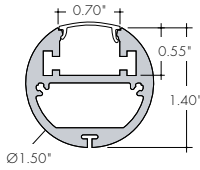


Lens	Rounded Square Frosted	Square Frosted
Transmission %	62%	65%
Dotting*	ND	ND

*At 100% brightness

RO15 CHANNEL -RO15C
(Link to Web)

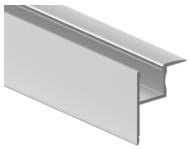


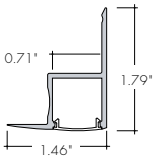


Lens	Clear	Frosted
Transmission %	76%	50%
Dotting*	CD	ND

*At 100% brightness

ALE CHANNEL -ALEC
(Link to Web)



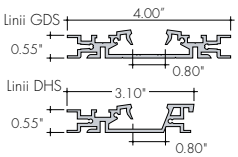


Lens	Clear	Frosted
Transmission %	58%	37%
Dotting*	CD	ND

*At 100% brightness

LIN CHANNEL -LINC
(Link to Web)



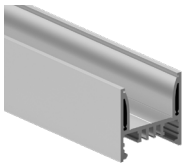


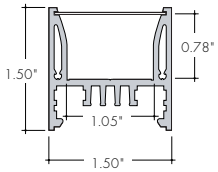
Lens	Frosted	Frosted Silicone	No Lens
Transmission %	48%	56%	82%
Dotting*	ND	ND	CD

*At 100% brightness

Lens Options / Light Transmission

KILO CHANNEL
-KILOC
(Link to Web)



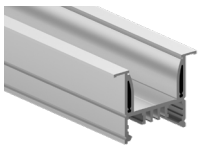


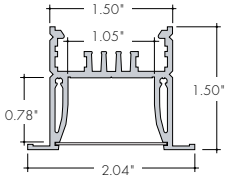
Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

NOT Compatible with
- XHO output

KILOR CHANNEL
-KILORC
(Link to Web)



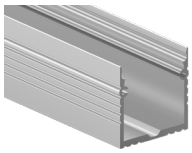


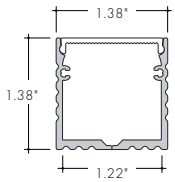
Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

NOT Compatible with
- XHO output

PLA CHANNEL
-PLAC
(Link to Web)





Lens	Clear	Frosted
Transmission %	56%	34%
Dotting*	CD	ND

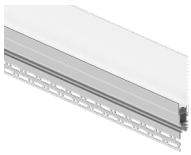
*At 100% brightness

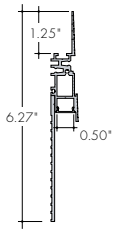
NOT Compatible with
- XHO output

Lens Options / Light Transmission

KREST EDGE CHANNEL -KRESTC-E

(Link to Web)





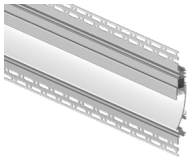
Lens	Frosted
Transmission %	45%
Dotting*	ND

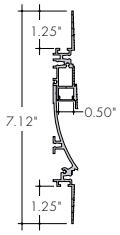
*At 100% brightness

NOT Compatible with
- XHO output

KREST REVEAL CHANNEL -KRESTC-R

(Link to Web)





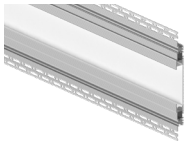
Lens	Frosted
Transmission %	45%
Dotting*	ND

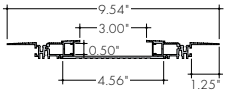
*At 100% brightness

NOT Compatible with
- XHO output

KREST DUO CHANNEL -KRESTC-D

(Link to Web)





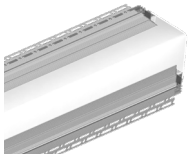
Lens	Frosted
Transmission %	41%
Dotting*	ND

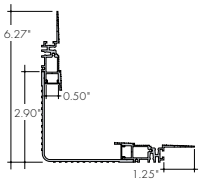
*At 100% brightness

NOT Compatible with
- XHO output

KREST CORNER CHANNEL -KRESTC-C

(Link to Web)





Lens	Frosted
Transmission %	31%
Dotting*	ND

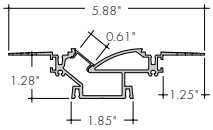
*At 100% brightness

NOT Compatible with
- XHO output

KREST WASH CHANNEL -KRESTC-W

(Link to Web)





Lens	Frosted
Transmission %	45%
Dotting*	ND

*At 100% brightness

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 Reference

Use complete Dotting Chart Tool online for more dotting information

Dotting Chart Tool

I'm also click-able

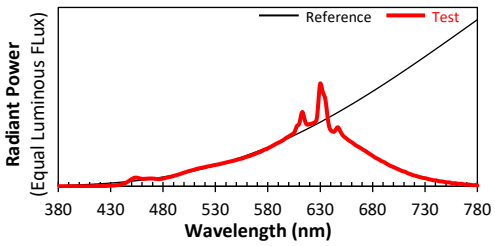
CD - Clear Dotting

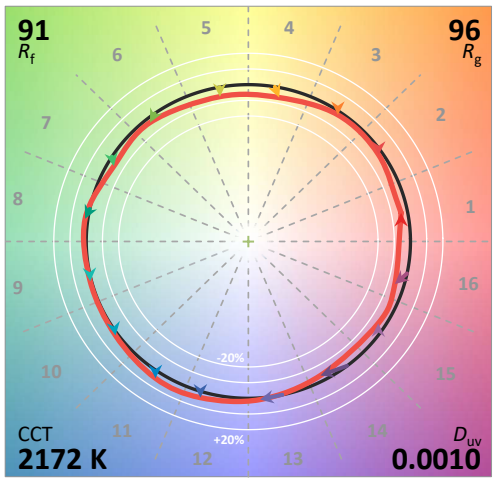
SD - Slight Dotting

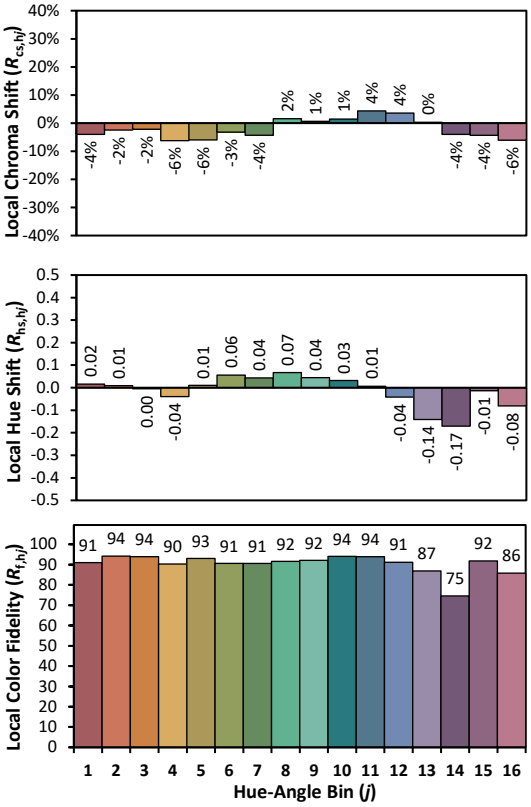
ND - No Dotting

TM-30-15: Data

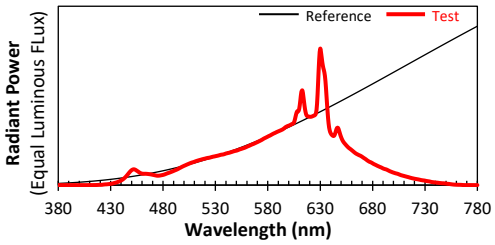
2200K

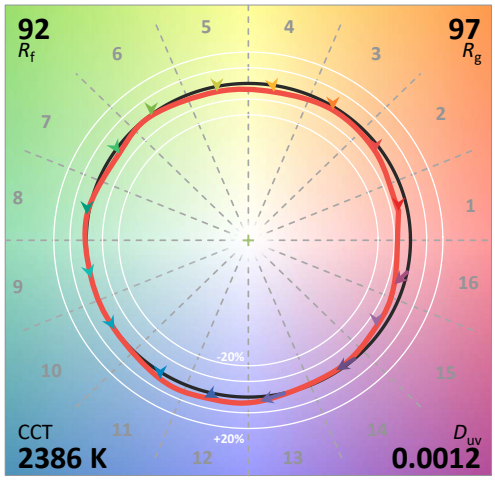


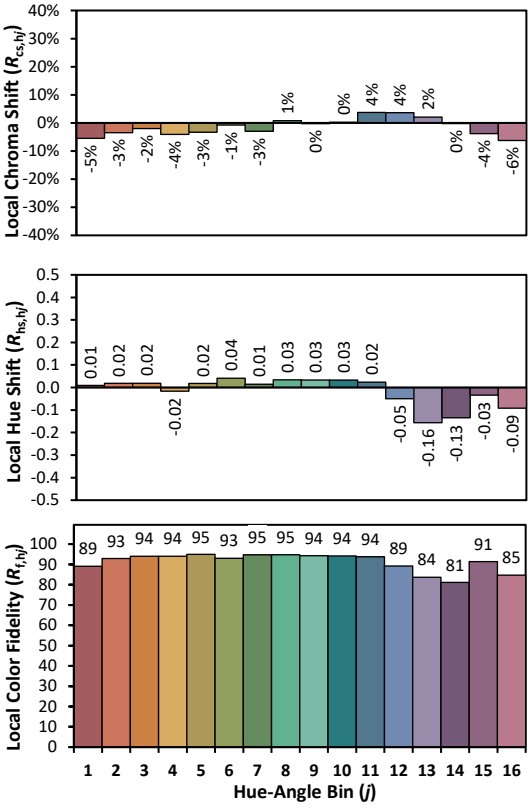




2400K



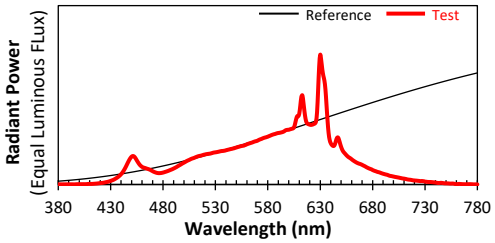


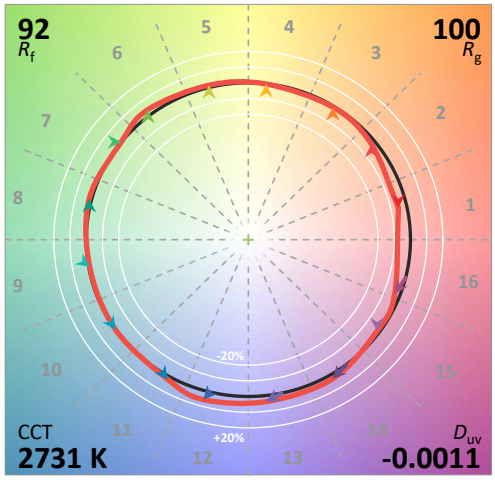


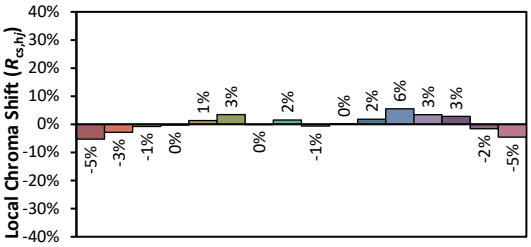
 *LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE

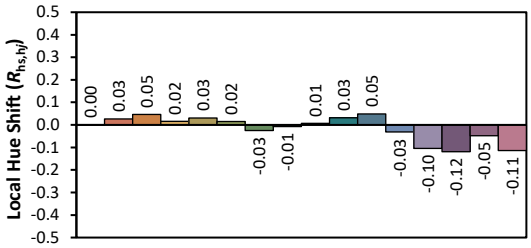
TM-30-15: Data

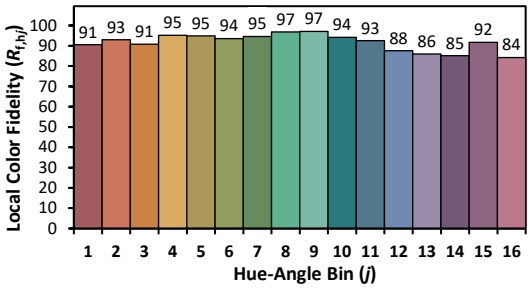
2700K



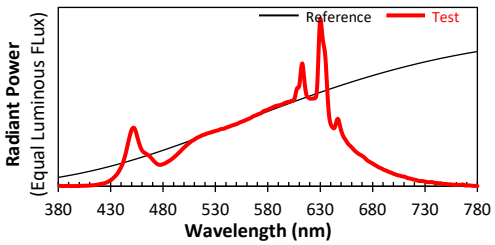


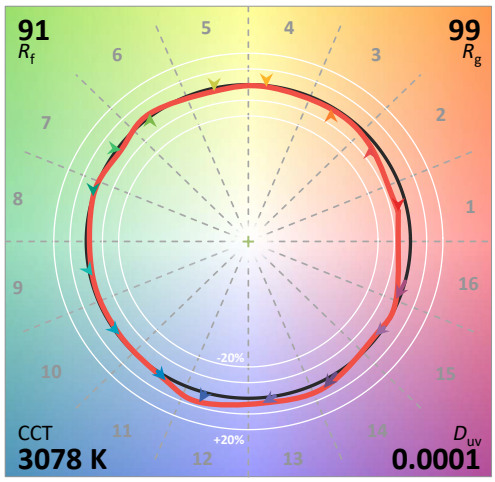


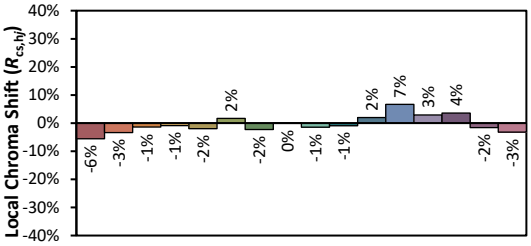


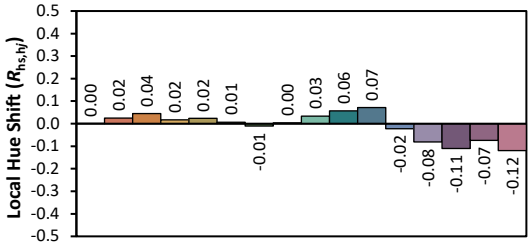


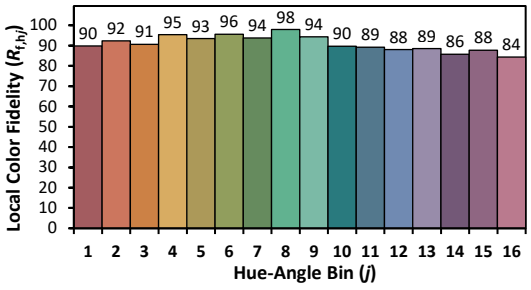
3000K





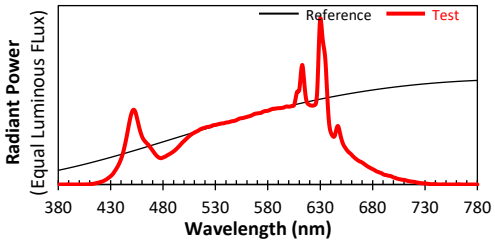


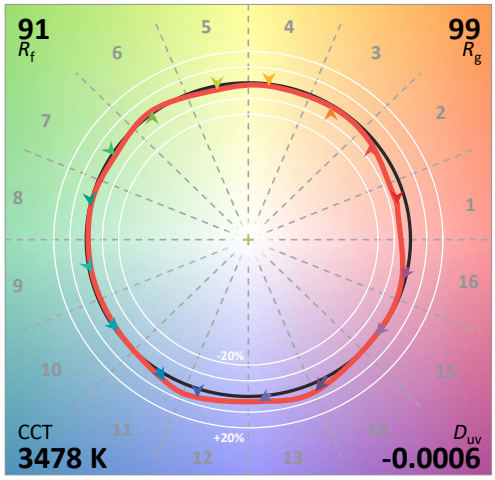


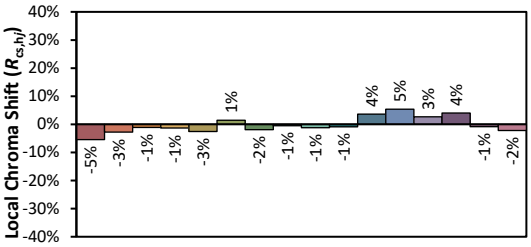


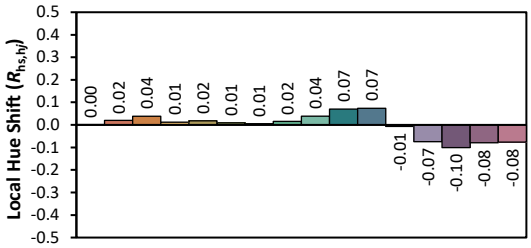
TM-30-15: Data

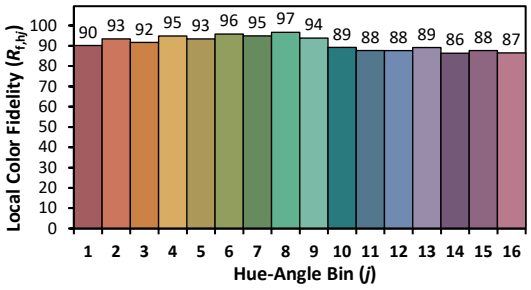
3500K



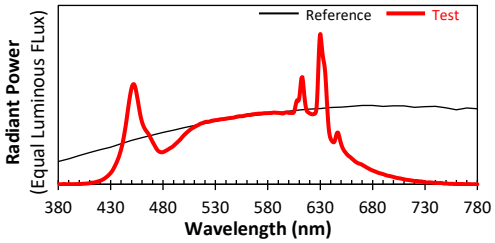


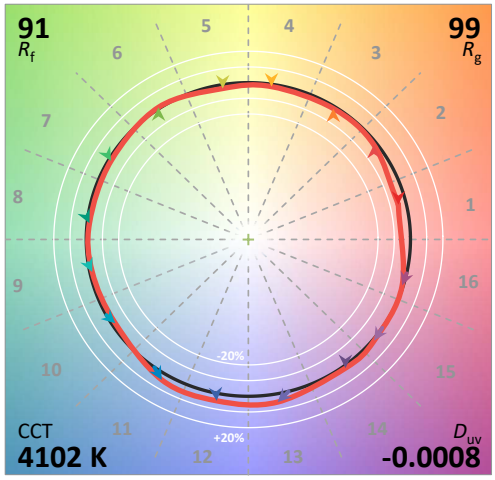


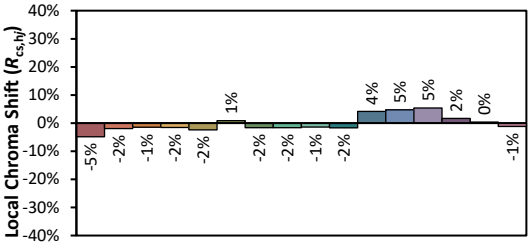


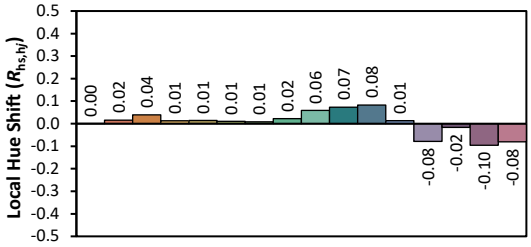


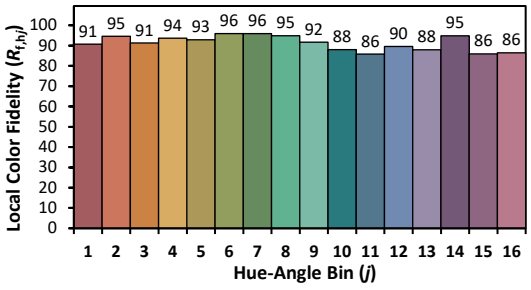
4000K











Power Consumption

Tested at full power with PS-UNI Series power supplies.

LLHE64

Nominal Length	VLO		Nominal Length	VLO		Nominal Length	VLO	
	W/ft	Total Wattage		W/ft	Total Wattage		W/ft	Total Wattage
1	1.0	1.0	**31**	0.9	29.3	**61**	0.9	55.0
2	1.0	2.0	**32**	0.9	30.2	**62**	0.9	55.8
3	1.0	3.0	**33**	0.9	31.1	**63**	0.9	56.6
4	1.0	3.9	**34**	0.9	32.0	**64**	0.9	57.4
5	1.0	4.9	**34.9**	0.9	32.8	**65**	0.9	58.2
6	1.0	5.9	**35**	0.9	32.8	**66**	0.9	59.0
7	1.0	6.9	**36**	0.9	33.7	**67**	0.9	59.8
8	1.0	7.8	**37**	0.9	34.6	**68**	0.9	60.6
9	1.0	8.8	**38**	0.9	35.5	**69**	0.9	61.4
10	1.0	9.7	**39**	0.9	36.4	**70**	0.9	62.2
10.3	1.0	10.1	**40**	0.9	37.2	**71**	0.9	62.9
11	1.0	10.7	**41**	0.9	38.1	**72**	0.9	63.7
12	1.0	11.7	**42**	0.9	39.0	**73**	0.9	64.5
13	1.0	12.6	**43**	0.9	39.9	**74**	0.9	65.3
14	1.0	13.6	**44**	0.9	40.7	**75**	0.9	66.1
15	1.0	14.5	**45**	0.9	41.6	**76**	0.9	66.8
16	1.0	15.5	**46**	0.9	42.4	**77**	0.9	67.6
17	1.0	16.4	**47**	0.9	43.3	**78**	0.9	68.4
18	1.0	17.3	**48**	0.9	44.1	**79**	0.9	69.1
19	1.0	18.3	**49**	0.9	45.0	**80**	0.9	69.9
20	1.0	19.2	**50**	0.9	45.8	**81**	0.9	70.6
21	1.0	20.1	**51**	0.9	46.7	**82**	0.9	71.4
22	1.0	21.1	**52**	0.9	47.5	**83**	0.9	72.2
23	1.0	22.0	**53**	0.9	48.4	**84**	0.9	72.9
24	1.0	22.9	**54**	0.9	49.2	**85**	0.9	73.6
25	1.0	23.8	**55**	0.9	50.0	**86**	0.9	74.4
26	1.0	24.7	**56**	0.9	50.9	**87**	0.9	75.1
27	0.9	25.6	**57**	0.9	51.7	**88**	0.9	75.9
28	0.9	26.6	**58**	0.9	52.5	**89**	0.9	76.6
29	0.9	27.5	**59**	0.9	53.3	**90**	0.9	77.3
30	0.9	28.4	**60**	0.9	54.1			

LLHE64

Nominal Length	LO		SO		MO		HO		VHO		XHO	
	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage
1	1.9	1.9	2.9	2.9	4.0	4.0	5.8	5.8	7.3	7.3	9.4	9.4
2	1.9	3.8	2.9	5.9	4.0	8.0	5.8	11.5	7.3	14.6	9.3	18.7
3	1.9	5.7	2.9	8.8	4.0	12.0	5.7	17.2	7.3	21.8	9.3	27.9
4	1.9	7.6	2.9	11.7	4.0	15.9	5.7	22.9	7.3	29.0	9.3	37.0
5	1.9	9.5	2.9	14.6	4.0	19.8	5.7	28.4	7.2	36.2	9.2	46.1
6	1.9	11.4	2.9	17.5	4.0	23.7	5.7	33.9	7.2	43.4	9.2	55.0
7	1.9	13.3	2.9	20.3	3.9	27.6	5.6	39.4	7.2	50.5	9.1	63.9
8	1.9	15.1	2.9	23.2	3.9	31.4	5.6	44.8	7.2	57.6	9.1	72.7
9	1.9	17.0	2.9	26.1	3.9	35.2	5.6	50.1	7.2	64.7	9.0	81.4
10	1.9	18.9	2.9	28.9	3.9	39.0	5.5	55.4	7.2	71.7	9.0	90.0
10.3	1.9	19.4	2.9	29.8	3.9	40.2	5.5	57.2	7.2	74.1	9.0	92.8
11	1.9	20.7	2.9	31.7	3.9	42.7	5.5	60.6	7.2	78.8		
12	1.9	22.6	2.9	34.5	3.9	46.4	5.5	65.8	7.1	85.8		
13	1.9	24.4	2.9	37.3	3.9	50.1	5.5	70.9	7.1	92.7		
14	1.9	26.2	2.9	40.1	3.8	53.7	5.4	76.0				
15	1.9	28.0	2.9	42.9	3.8	57.4	5.4	81.0				
16	1.9	29.9	2.9	45.7	3.8	61.0	5.4	85.9				
17	1.9	31.7	2.8	48.4	3.8	64.5	5.3	90.8				
18	1.9	33.5	2.8	51.2	3.8	68.1						
19	1.9	35.3	2.8	53.9	3.8	71.6						
20	1.9	37.1	2.8	56.6	3.8	75.0						
21	1.9	38.9	2.8	59.4	3.7	78.5						
22	1.9	40.7	2.8	62.1	3.7	81.9						
23	1.9	42.4	2.8	64.7	3.7	85.3						
24	1.9	44.2	2.8	67.4	3.7	88.7						
25	1.9	46.0	2.8	70.1	3.7	92.0						
26	1.9	47.7	2.8	72.7	3.7	95.3						
27	1.9	49.5	2.8	75.4								
28	1.9	51.2	2.8	78.0								
29	1.8	53.0	2.8	80.6								
30	1.8	54.7	2.8	83.2								
31	1.8	56.4	2.8	85.8								
32	1.8	58.1	2.8	88.4								
33	1.8	59.9	2.8	91.0								
34	1.8	61.6	2.8	93.5								
34.9	1.8	63.1	2.7	95.9								
35	1.8	63.3										
36	1.8	65.0										
37	1.8	66.7										
38	1.8	68.3										
39	1.8	70.0										
40	1.8	71.7										
41	1.8	73.4										
42	1.8	75.0										
43	1.8	76.7										
44	1.8	78.3										
45	1.8	79.9										
46	1.8	81.6										
47	1.8	83.2										
48	1.8	84.8										
49	1.8	86.4										
50	1.8	88.1										
51	1.8	89.7										
52	1.8	91.3										
53	1.8	92.8										
54	1.8	94.4										
55	1.8	96.0										

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

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

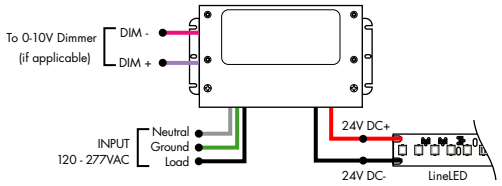
MODEL		INPUT CONTROL		WATTAGE		OUTPUT
	–		–		–	
PS - Power Supply, 120-277VAC		UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)		30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC

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

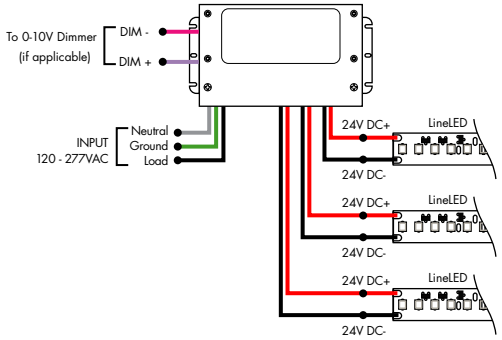
0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

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"

PS-UNI-30/60/96



PS-UNI-3X96

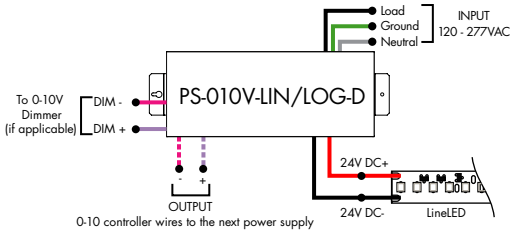


For use with Static White

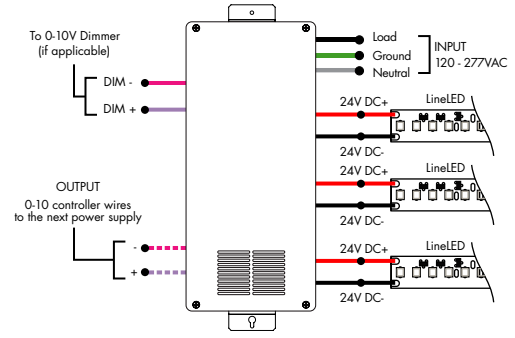
Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

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.

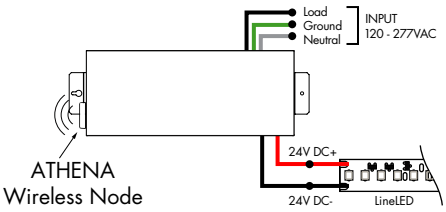
For use with Static White

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	AWNR - Athena Wireless Node

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

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

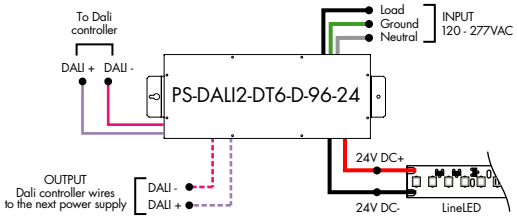


For use with Static White

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"

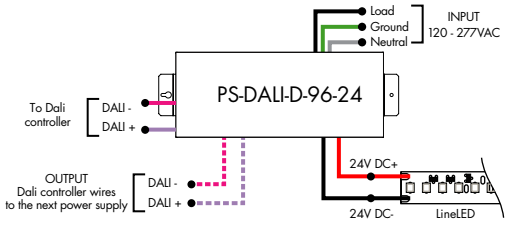


For use with Static White

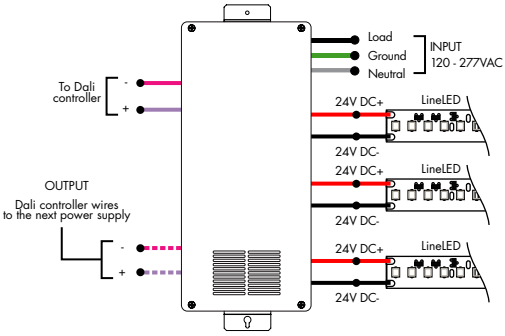
Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

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"



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.

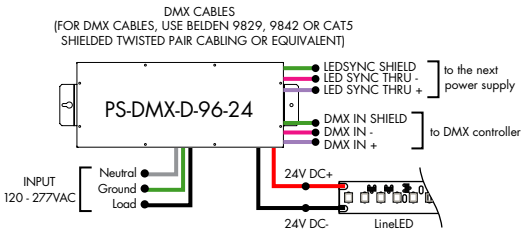
For use with Static White

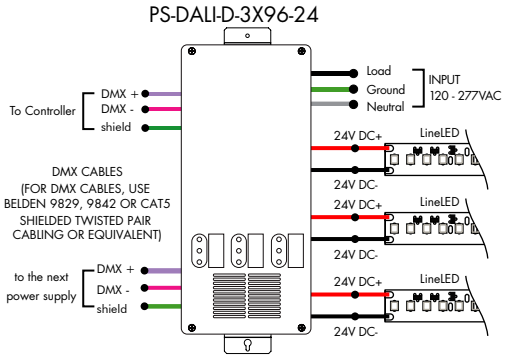
Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

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.



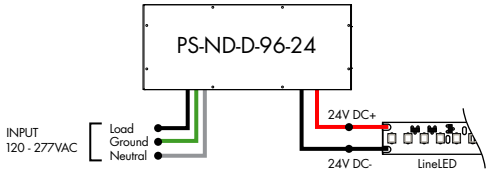


For use with Static White

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"

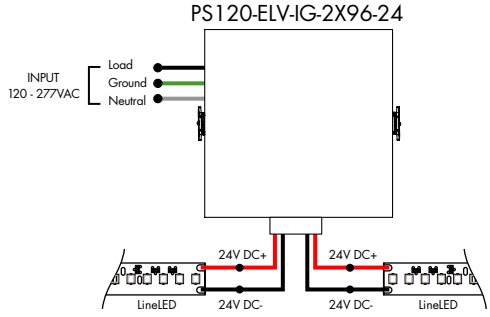


For use with Static White

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"



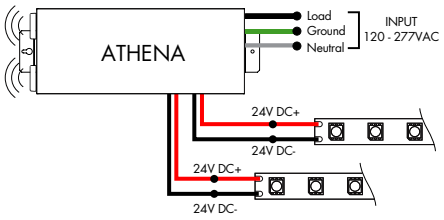
Power Supplies

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.

For use with Static White

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®

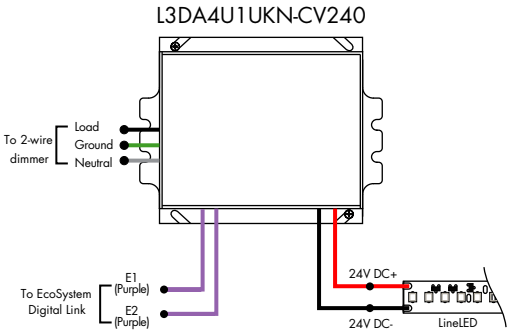
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

MODEL

L3DA4U1UKL-CV240

HiLume™ 1% EcoSystem Voltage LED driver 40W max



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

LUTRON®

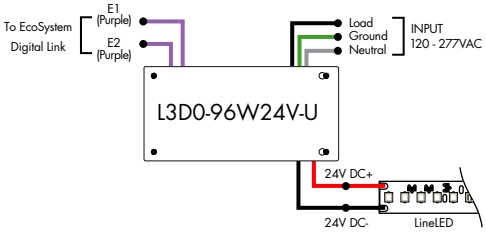
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL

L3D0-96W24V-U

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"