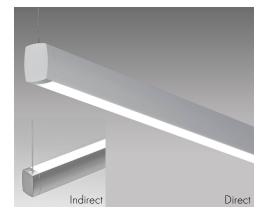
Linear Illumination System



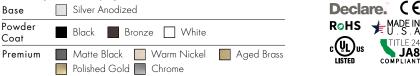


Features

- Extruded aluminum linear suspension system providing both direct and indirect light
- 24VDC Class 2 fixtures made to order up to 96"
- Suitable for suspended mount applications
- Class 2 listed for damp locations
- Dot free even illumination with frosted lens
- Direct lumens output is 42.5% of total lumens output from Technical Information.
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- High Color Quality options offer premium quality and vibrant colors with R9 values up to 97
- High Efficacy options offer best in class output and efficacy with over 780 lm/ft and up to 55 lm/W
- Average Life (LZO): 50,000hrs
- 7 Year warranty



Finish Options (see page 2 for additional information)



Technical Information

MODEL	H	igh Color Quali	ity		High Efficacy			
OUTPUT OPTIONS	72SO	72HO	72VHO	HE48LO	HE48SO	HE48MO	HE48HO	HE64VHO
Lumens Output (3000K) (with a Frosted Lens)	215 lm/ft	349 lm/ft	425 lm/ft	209 lm/ft	290 lm/ft	387 lm/ft	621 lm/ft	786 lm/ft
Average Power Consumption (for a 4' section)	5.6 W/ft	9.6 W/ft	12 W/ft	3.8 W/ft	5.6 W/ft	7 W/ft	13 W/ft	15 W/ft
Efficacy	38 lm/W	36 lm/W	35 lm/W	55 lm/W	52 lm/W	55 lm/W	48 lm/W	52 lm/W
Max Run Length (in series)	20 ft	16 ft	11 ft	24 ft	21 ft	17 ft	12 ft	8 ft
Ambient Operating Temperature Range*	-5°F – 125°F (-20°C – 50°C)	-5°F - 105°F (-20°C - 40°C)	-5°F - 90°F (-20°C - 30°C)	-	-5°F - 125°F (-20°C - 50°C)		-5°F - 90°F (-20°C - 30°C)	-5°F - 80°F (-20°C - 25°C)

*Ambient Operating Temperature Range to maintain L70 of 50k+ hours in normal mounting conditions for the fixture. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquiries.

	High Color Quality (72)										
сст	Multiplier		TM-30								
	(reference - 3000K)	CRI	Rf	Rg	R9						
1900K	0.55	96	94	97	90						
2200K	0.70	96	95	101	89						
2400K	0.72	98	97	101	91						
2700K	0.74	97	96	101	91						
3000K	1.00	97	95	104	97						
3500K	1.02	97	94	105	97						
4100K	1.07	97	90	99	97						

	High Efficacy (HE4	B/HE64	•)				
667	Multiplier	TM-30					
ССТ	(reference - 3000K)	CRI	Rf	Rg	Rg		
2200K	0.73	92	91	97	42		
2500K	0.81	93	96	96	62		
2700K	0.94	92	90	99	58		
3000К	1.00	92	89	99	57		
3500K	1.02	92	89	99	60		
4000K	1.02	92	86	94	71		

Ordering Code

MODEL	LENGTH ¹	OUTPUT ²	CCT	LENS	FINISH ^{3,4}	POWERFEED
	-		-	-]-[]-	
LUC - Luceo	24" - 96" 1" increments	72SO - Standard 72HO - High 72VHO - Very High	19K-1900K 22K-2200K 24K-2400K 27K-2700K 30K-3000K 35K-3500K 41K-4100K	F-Frosted	BASE SA-Silver Anodized POWDER COAT BK-Black BZ-Bronze WH-White	R -Remote
	24" - 96" 2" increments	HE48LO-Low HE48SO-Standard HE48MO-Medium HE48HO-High HE64VHO-Very High	22K - 2200K 25K - 2500K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K		PREMIUM MBK - Matte Black WN - Warm Nickel AB - Aged Brass PG - Polished Gold ⁵ CH - Chrome ⁵	

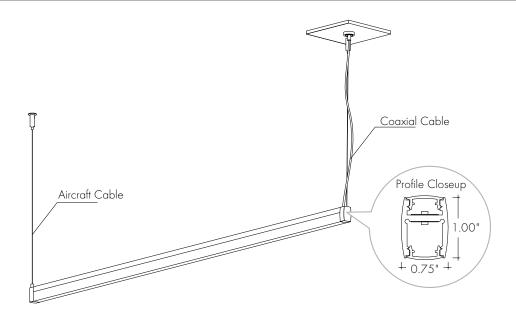
Custam lengths and increments are available, please consult inside Sales with specific reguest.
All High Efficacy options can be used to comply with Title 24 JA8. High Color Quality options can be used to comply with Title 24 JA8. High Color Audity options can be used to comply with Title 24 JA8 depending on Output, CCT, and lens selections. See multiplier charts to calculate specific efficacies

Non Base finishes may have extended lead times. Custom RAIs are available, please consult Inside Sales with specific request.
White canopy included with all finishes except Black and Matte Black, which include a Black canopy.
Polished Gold finishes and Chrome finishes have a maximum fixture length of 96".

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T: 224-333-6033

Product Dimensions



Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic. •
- Non Base finishes may have extended lead times. •
- Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72". Custom RALs are available, please consult Inside Sales with specific request. •
- ٠
- White canopy included with all finishes except Black and Matte Black, which include a Black canopy



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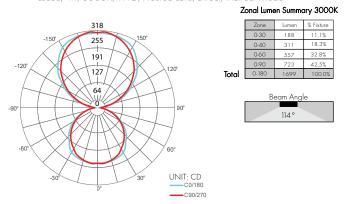
Light Transmission and Dotting

		Lens/Accessory							
Output Options	Frosted								
Dimming Level	100%	50%	10%	1%					
72SO	ND	ND	ND	ND					
72HO	ND	ND	ND	ND					
72VHO	ND	ND	ND	ND					
HE48LO	ND	ND	ND	ND					
HE48SO	ND	ND	ND	ND					
HE48MO	ND	ND	ND	ND					
HE48HO	ND	ND	ND	ND					
HE64VHO	ND	ND	ND	ND					
Transmission Percentage		10	0%						



Photometry

LUC-48-72VHO-30KF Luceo, 4ft, 3000K, VHO, Frosted Lens, Direct/Indirect Mode



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.

High Color Quality (72)

		I				-	I		•	1	I	1		
Nominal Length	Actual		Watts		Nominal Length	Actual		Watts		Nominal Length	Actual		Watts	
(in)	Length	so	НО	νно	(in)	Length	SO	НО	VHO	(in)	Length	SO	но	VHO
12	-	-	-	-	47	46 5/16	20.6	32.9	42.3	82	81 1/16	34.3	53.1	67.5
13		-	-	-	48	47 8/16	21.3	33.9	43.4	83	82 4/16	34.7	53.6	68.8
14	-	-	-	-	49	48 10/16	21.8	34.6	44.2	84	83 6/16	35.2	54.4	70.7
15		-	-	-	50	49 13/16	22.2	35.2	45.0	85	84 9/16	35.5	54.9	72.0
16	-	-	-	-	51	50 15/16	22.7	36.2	46.3	86	85 11/16	35.9	55.4	72.4
17	-	-	-	-	52	-				87	86 14/16	36.5	56.1	73.1
18	-	-	-	-	53	52 2/16	23.1	36.8	47.1	88	-		-	-
19	-	-	-	-	54	53 4/16	23.5	37.4	48.0	89	88	36.9	56.6	73.5
20	-	-	-	-	55	54 7/16	24.1	38.4	49.2	90	89 3/16	37.3	57.1	74.0
21	-	-		-	56	55 10/16	24.5	39.0	50.0	91	90 5/16	37.7	57.6	74.4
22	-	-	-	-	57	56 12/16	25.0	39.6	50.8	92	91 8/16	38.3	58.4	75.3
23	-	-	-	-	58	57 15/16	25.6	40.5	52.0	93	92 10/16	38.7	59.0	76.0
24	23 3/16	10.2	17.1	22.6	59	-	-	-	-	94	93 13/16	39.1	59.7	76.7
25	24 5/16	10.7	17.8	23.5	60	59 1/16	26.1	41.1	52.8	95	94 15/16	39.8	60.6	77.7
26	25 8/16	11.4	18.9	24.9	61	60 4/16	26.5	41.7	53.6	96	-	-	-	-
27	26 10/16	11.9	19.7	25.7	62	61 6/16	27.1	42.6	54.7		I			I
28	27 13/16	12.3	20.5	26.6	63	62 9/16	27.5	43.1	55.4					
29	28 15/16	13.1	21.6	27.8	64	63 11/16	27.9	43.7	56.1					
30	_	-	-	-	65	64 14/16	28.5	44.5	57.1					
31	30 2/16	13.6	22.4	28.7	66	_	-	-	-					
32	31 4/16	14.0	23.1	29.6	67	66	28.9	45.0	57.8					
33	32 7/16	14.7	24.1	31.0	68	67 3/16	29.3	45.5	58.4					
34	33 10/16	15.1	24.7	31.9	69	68 5/16	29.6	45.9	59.1					
35	34 12/16	15.5	25.4	32.8	70	69 8/16	30.2	46.5	60.0					
36	35 15/16	16.2	26.3	34.2	71	70 10/16	30.5	47.0	60.6					
37		_	-	-	72	71 13/16	30.8	47.4	61.3					
38	37 1/16	16.6	26.9	35.1	73	72 15/16	31.4	48.1	62.1					
39	38 4/16	17.1	27.6	35.9	74	_	-	-						
40	39 6/16	17.7	28.5	37.2	75	74 2/16	31.8	48.8	62.5					
41	40 9/16	18.1	29.2	38.0	76	75 5/16	32.1	49.4	62.9					
42	41 11/16	18.5	29.8	38.8	77	76 7/16	32.7	50.4	63.5					
43	42 14/16	19.2	30.8	40.0	78	77 10/16	33.1	51.1	63.9					
44		_	-	_	79	78 12/16	33.5	51.7	64.3					
45	44	19.6	31.5	40.8	80	79 15/16	34.0	52.5	66.2					
46	45 3/16	20.1	32.2	41.5	81	-			_					
		I	I	I			I	I	I					

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.

High Efficacy (HE48)

							••••	gn Eff		···- ·	•,							
Nominal	Actual		W	atts		Nominal		ctual		W	atts		Nominal	Actual		W	atts	
Length (in)	Length	LO	so	мо	но	Length (in)		ength	LO	so	мо	но	Length (in)	Length	LO	so	мо	но
12			-	-	-	47	46	7/16	14.3	22.6	27.5	47.9	82	81 14/16	22.6	38.4	47.6	78.5
13		-	-	-	-	48		-	-	-		-	83	-		-	-	-
14	-	-	-	-	-	49	48	7/16	14.7	23.3	28.5	49.4	84	83 14/16	22.8	39.3	48.8	79.4
15	-	-	-	-	-	50		-	-	-	-		85	-			-	-
16	-	-	-	-	-	51	50	6/16	15.3	24.1	29.6	51.3	86	85 13/16	23.1	40.1	49.9	80.3
17	-	-	-	-	-	52		-	-	-	-	-	87	-	-	-	-	-
18	-	-	-	-	-	53	52	6/16	15.8	25.0	30.7	53.2	88	87 13/16	23.3	41.0	51.0	81.2
19	-	-	-	-	-	54		-	-	-	-	-	89	-	-	-	-	-
20	-	-	-	-	-	55	54	5/16	16.4	25.9	31.9	55.2	90	89 12/16	23.5	41.9	52.1	82.0
21	-	-	-	-	-	56		-	-	-	-	-	91	-	-	-	-	-
22			-	-	-	57	56	5/16	17.0	26.8	33.1	57.0	92	91 12/16	24.0	42.9	53.4	82.7
23	-	-	-	-	-	58		-	-	-		-	93	-	-	-		-
24	-	-	-	-	-	59	58	4/16	17.5	27.7	34.3	58.7	94	93 11/16	24.6	43.8	54.7	83.3
25	24 13/16	7.4	11.7	14.5	26.3	60		-	-	-	-	-	95	-	-	-	-	-
26	-	-	-	-	-	61	60	4/16	18.1	28.6	35.5	60.5	96	95 11/16	25.2	44.8	56.0	84.0
27	26 12/16	8.0	12.9	15.7	28.5	62			-	-		-						
28	-	-	-	-	-	63	62	3/16	18.4	29.5	36.6	63.8	-					
29	28 12/16	8.7	14.0	17.0	30.6	64		-	-	-	-	-						
30	-	-	-	-	-	65	64	3/16	18.8	30.4	37.7	67.0						
31	30 11/16	9.4	15.2	18.2	32.6	66		-	-	-	-	-	-					
32	-	-	-	-	-	67	66	2/16	19.1	31.2	38.9	70.2	-					
33	32 11/16	10.0	16.1	19.2	34.7	68		-	-	-		-	_					
34	-	-	-	-	-	69	68	2/16	19.5	32.3	40.0	71.2						
35	34 10/16	10.7	17.0	20.3	36.7	70		-	-	-	-	-						
36	-	-	-	-	-	71	70	1/16	20.0	33.3	41.1	72.3						
37	36 10/16	11.3	17.9	21.4	38.7	72		-	-	-		-						
38	-	-	-	-	-	73	72	1/16	20.4	34.4	42.3	73.4						
39	38 9/16	11.9	18.9	22.7	40.5	74		-	-	-	-	-						
40			-	-	-	75		74	21.0	35.2	43.4	74.6						
41	40 9/16	12.5	19.9	23.9	42.2	76		76	21.5	36.0	44.5	75.7						
42			-	-	-	77		-	-	-								
43	42 8/16	13.1	20.8	25.1	44.1	78	77	15/16	22.1	36.8	45.7	76.9						
44			-	-	-	79			-		-	-						
45	44 8/16	13.7	21.7	26.3	46.0	80	79	15/16	22.3	37.5	46.5	77.6						
46		-	-	-	-	81			-	-		-	-					



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.

High Efficacy (HE64)										
Nominal Length (in)	Actual Length	Watts VHO	Nominal Length (in)	Actual Length	Watts VHO	Nominal Length (in)	Actual Length	Watts VHO		
12	-	-	47	46 10/16	58.2	82	81 7/16	91.5		
13	-	-	48	-	-	83	82 15/16	92.1		
14	-	_	49	48 2/16	60.1	84	-	-		
15	-	-	50	49 10/16	62.0	85	84 7/16	92.7		
16	-	-	51	-	-	86	86	93.3		
17	-	-	52	51 2/16	63.8	87	-	-		
18	-	-	53	52 11/16	65.6	88	87 8/16	94.0		
19	-	_	54	-		89	89	94.6		
20	-	-	55	54 3/16	67.4	90	-	-		
21	-	-	56	55 11/16	69.6	91	90 8/16	95.2		
22	-	_	57	-	-	92	-	-		
23	-	_	58	57 3/16	71.2	93	92	95.8		
24	23 14/16	29.5	59	58 11/16	72.8	94	93 9/16	-		
25		-	60	-	-	95	-	-		
26	25 6/16	31.4	61	60 4/16	74.4	96	95 1/16	-		
27	26 15/16	33.3	62	61 12/16	75.6					
28	-	-	63	-	-	-				
29	28 7/16	35.2	64	63 4/16	76.8	-				
30	29 15/16	37.2	65	64 12/16	78.0	-				
31	-	-	66	-	-	-				
32	31 7/16	39.1	67	66 5/16	79.2	-				
33	33	41.0	68	67 13/16	80.3	-				
34	-	_	69	-	-	-				
35	34 8/16	42.9	70	69 5/16	81.3	-				
36		-	71	70 13/16	82.4	-				
37	36	44.9	72	-	-	-				
38	37 8/16	46.7	73	72 5/16	83.4	-				
39	-	-	74	73 14/16	85.1					
40	39	48.6	75	-	-	-				
41	40 9/16	50.4	76	75 6/16	86.8	-				
42	_	-	77	76 14/16	88.5	_				
43	42 1/16	52.3	78	-	-	-				
44	43 9/16	54.2	79	78 6/16	90.2	-				
45		-	80	79 15/16	90.8	-				
46	45 1/16	56.2	81	-	-					

Voltage Drop Calculator

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

Wattage			Wire Length Fror	n Power Supply	to Start of Run [ft]	
[W]	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

PS-UNI-W-3X96W

11.85"

4.32"

1.81"

PS-UNI-D-3X96W

9.94"

7.61"

2.02"

Power Supplies

MODELS

Length

Width

Depth

MODELS

Length

Width

Depth

PS-UNI-W-30W

6.50"

3.73″

1.61″

PS-UNI-D-30W

8.77″

4.27"

1.83"

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 1% 120VAC - 277VAC

PS-UNI-W-60W

7.40"

3.73″

1.61″

PS-UNI-D-60W

8.77″

4.27"

1.83"

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
	-			-
PS- Power Supply, 120-277VAC	UNI-0-10V Dimming, Phase Dimming	D-Dry W-Wet	30-30 Watts 60-60 Watts 96-96 Watts 3x96-3x96 Watts	24-24 VDC
Compatibility: View a complet	te list of compatible dimmers on product	0-10V - 1% dimming MLV/ELV/TRIAC - 1%	dimmina, consult dimmina co	ompatibility chart

PS-UNI-W-96W

8.66"

3.73"

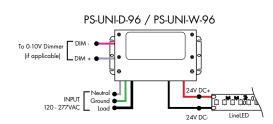
1.61"

PS-UNI-D-96W

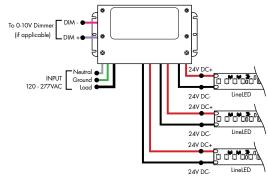
8.11″

5.60"

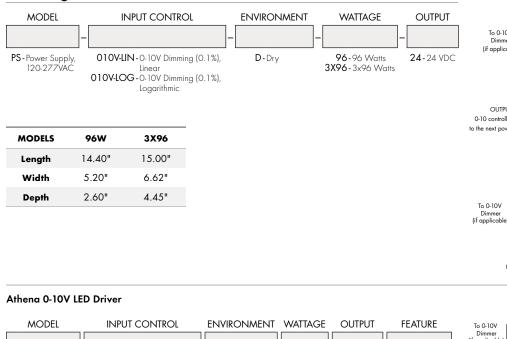
1.83"



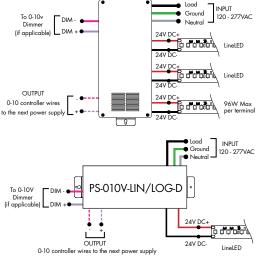
PS-UNI-D-3X96 / PS-UNI-W-3X96



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



ps-010v-lin/log-d-3x96



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MODEL	INPU	t control	ENVIRONMENT	WATTAGE	OUTPUT	FEATURE	To 0-10V DIM -		111
	-		-	-	-	-	(if applicable) DIM +	ATHENA	•
PS- Power Supply, 120-277VAC		N-0-10V Dimming, Linear G-0-10V Dimming, Logarithmic	D-Dry	96- 96 W	24-24 VDC	AWNR-Athena	0-10 controller wires to		24V DC+ 24V DC- 24V DC- LineLED
MODELS	96W								
Length	14.40"								
Width	5.20"								
Depth	2.60"								

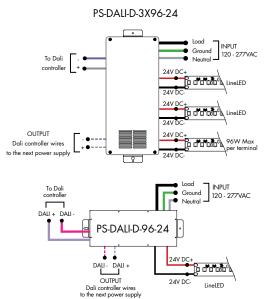
Load
Ground

INPUT 120 - 277VAC

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 DALI1 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 24-24 VDC 3X96-3X96 Watts 96W 3X96 Model 14.40" 15.00" Length Width 5.20" 6.62" Depth 2.60" 4.56"

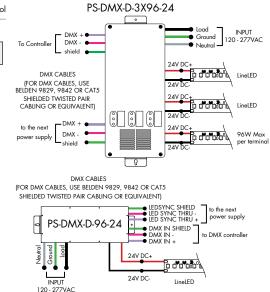


Ordering Code DMX Dimming Power Supplies 0.1% 120VAC - 277VAC Requires Zonal Control

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

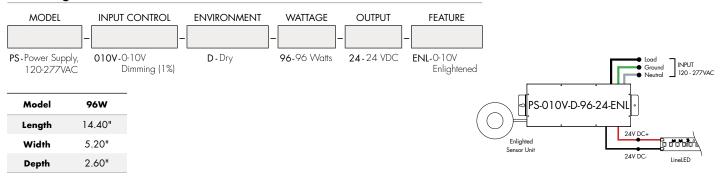
*Zonal control power supplies. Control multiple tapes/zones using DMX channels.

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



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Ordering Code Enlighted Enabled Dimming Power Supplies 1% 120VAC - 277VAC

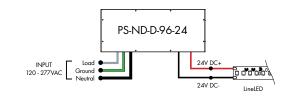


Power Supplies

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 Non-Dimming Power Supply 120VAC - 277VAC

MODEL	. IN	NPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
	-	-		-	-
PS- Power St 120-277		ID-Non Dimming	D - Dry	96-96 Watts	24-24 VDC
120-277	VAC				
		_			
MODELS	96W				
Length	14.40"				
Width	5.20"				
Depth	2.60"				



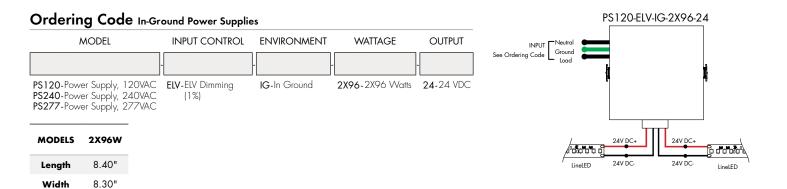
Ordering Code Phase Dimming Power Supply 1% 120VAC - 277VAC

e e e e e e e e e e e e e e e e e e e		ing i onci ooppi	, 1% 120 // (0	2// ///0				
MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT	OUTPUT CONTROL		PS-PH-D-96-24-DC	
	-	-	-	-	-]
PS -Power Supply, 120-277VAC	PH-Phase Dimming (Triac, ELV, MLV)	D-Dry	96 -96 Watts	24-24 VDC	DC-Direct Current	INPUT 120 - 277VAC		24V DC+ 24V DC- LineLED
MLV/ELV/TRIAC - 1	% dimming, consult dim	ming compatibility cl	nart (<u>Link</u>)			Load	NOT OVER THE WHITE, GREEI CONNECT TO ELV	N, AND BLACK WIRES,

MODELS	96W	
Length	8.25"	
Width	4.10"	
Depth	1.56"	

8.10"

Depth





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.

UTRON®

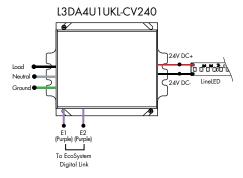
Luminii is a Lutron OEM Advantage Partner Lutron Power Supplies 1%

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 $^{\rm TM}$ 0.1 % EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black $^{\rm TM}$ 96W max

MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"

