Kilo Graze - Static White | Linear Illumination System

luminii

Features

- 24VDC Class 2 fixtures made to order up to 116". Fixtures can be linked up to 90' depending on output
- Suitable for wall wash applications
- Approved for closet/storage space installation per NEC 410.16(A) (3) and 410.16(C)(5) on outputs 5.7 W/ft or less
- Class 2 listed for damp locations
- Dot free even illumination with wash lens
- Average Life (L70): 50,000hrs

- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- Vibrant Color options offer premium color quality with R9 values up to 98
- High Efficacy options offer best in class output and efficacy with over 480 lm/ft and up to 68 lm/W
- 7 year warranty

0.82"
0.93"
1.38"
1.38"
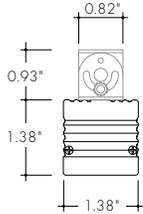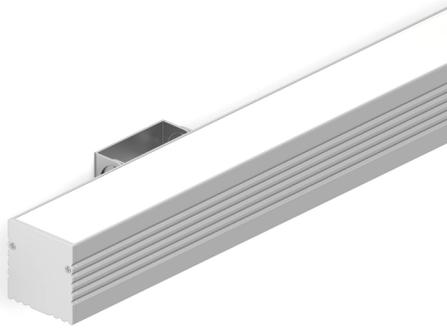
Finish Options (see page 3 for additional information)

Base	■ Silver Anodized

Powder Coat: ■ Black ■ Bronze □ White

Declare. CE Single Bin +/- 30 CCT
RoHS MADE IN U.S.A.
c(UL)us LISTED TITLE 24 JA8 COMPLIANT DIM

Technical Information

TYPE	Vibrant Color VC72					
OUTPUT OPTIONS	VC72VLO	VC72LO	VC72SO	VC72MO	VC72HO	VC72VHO
Lumens Output (3000K) (with a Wash Lens)	54 lm/ft	139 lm/ft	184 lm/ft	244 lm/ft	294 lm/ft	392 lm/ft
Average Power Consumption (for a 4' section)	1.1 W/ft	2.8 W/ft	3.7 W/ft	4.9 W/ft	5.9 W/ft	7.9 W/ft
Efficacy	49 lm/W	50 lm/W	50 lm/W	50 lm/W	50 lm/W	50 lm/W
Max Run Length (in series)	56.9 ft	32 ft	28 ft	24 ft	21 ft	18 ft
Ambient Operating Temperature Range*	-4°F – 122°F (-20°C – 50°C)				-4°F – 95°F (-20°C – 35°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.

Vibrant Color (VC72)

CCT	Multiplier (ref. - 30K)	TM-30		
		CRI	Rf	Rg	R9
1800K	0.50	95	94	99	86
2200K	0.66	96	94	101	95
2400K	0.90	98	96	101	91
2700K	0.93	98	96	102	93
3000K	1.00	97	94	104	99
3500K	1.04	96	94	105	97
4100K	1.05	97	95	104	96

TYPE	High Efficacy HE64					
OUTPUT OPTIONS	HE64VLO	HE64LO	HE64SO	HE64MO	HE64HO	HE64VHO
Lumens Output (3000K) (with a Wash Lens)	60 lm/ft	130 lm/ft	186 lm/ft	248 lm/ft	352 lm/ft	483 lm/ft
Average Power Consumption (for a 4' section)	1 W/ft	1.9 W/ft	2.9 W/ft	3.8 W/ft	5.6 W/ft	7.1 W/ft
Efficacy	60 lm/W	68 lm/W	64 lm/W	65 lm/W	63 lm/W	68 lm/W
Max Run Length (in series)	90 ft	55 ft	34.9 ft	26 ft	17 ft	13 ft
Ambient Operating Temperature Range*	-4°F – 122°F (-20°C – 50°C)				-4°F – 113°F (-20°C – 45°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 Efficacy (HE64)

CCT	Multiplier (ref. - 30K)	TM-30		
		CRI	Rf	Rg	R9
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

Ordering Code

MODEL	LENGTH[1]	OUTPUT[2]	CCT	LENS	MOUNTING[3]	FINISH[4]	FEED POSITION LEFT[5]	FEED POSITION RIGHT[5]

KGW - Kilo GW

12"–116" 1" increments

VC72VLO - Very Low
VC72LO - Low
VC72SO - Standard
VC72MO - Medium
VC72HO - High
VC72VHO - Very High

18K - 1800K
22K - 2200K
24K - 2400K
27K - 2700K
30K - 3000K
35K - 3500K
41K - 4100K

W - Wash

FC - Fixed Clip[3]
A - Adjustable Hinge Mounting, up to 90°
SMA - Side-Mount Adjustable Bracket

BASE
SA - Silver Anodized

POWDER COAT
BK - Black
BZ - Bronze
WH - White

WIRE LEADS (72")
LWE - Wire End Feed
LWB - Wire Back Feed
LNPF - No Power Feed

WIRE LEADS (72")
RWE - Wire End Feed
RWB - Wire Back Feed
RNPF - No Power Feed

12"–116" 2" increments

HE64VLO - Very Low
HE64LO - Low
HE64SO - Standard
HE64MO - Medium
HE64HO - High
HE64VHO - Very High

22K - 2200K
24K - 2400K
27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K

QUICK CONNECTS (4")
LFE - Female Q/C, End Feed
LFB - Female Q/C, Back Feed
LNPF - No Power Feed

QUICK CONNECTS (4")
RFE - Female Q/C, End Feed
RFB - Female Q/C, Back Feed
RNPF - No Power Feed

1 - Custom lengths and increments are available, please consult Inside Sales with specific request.
2 - Title 24 JA8 achievable depending on Output, CCT, and Lens selections. See multiplier charts to calculate specific efficacies.
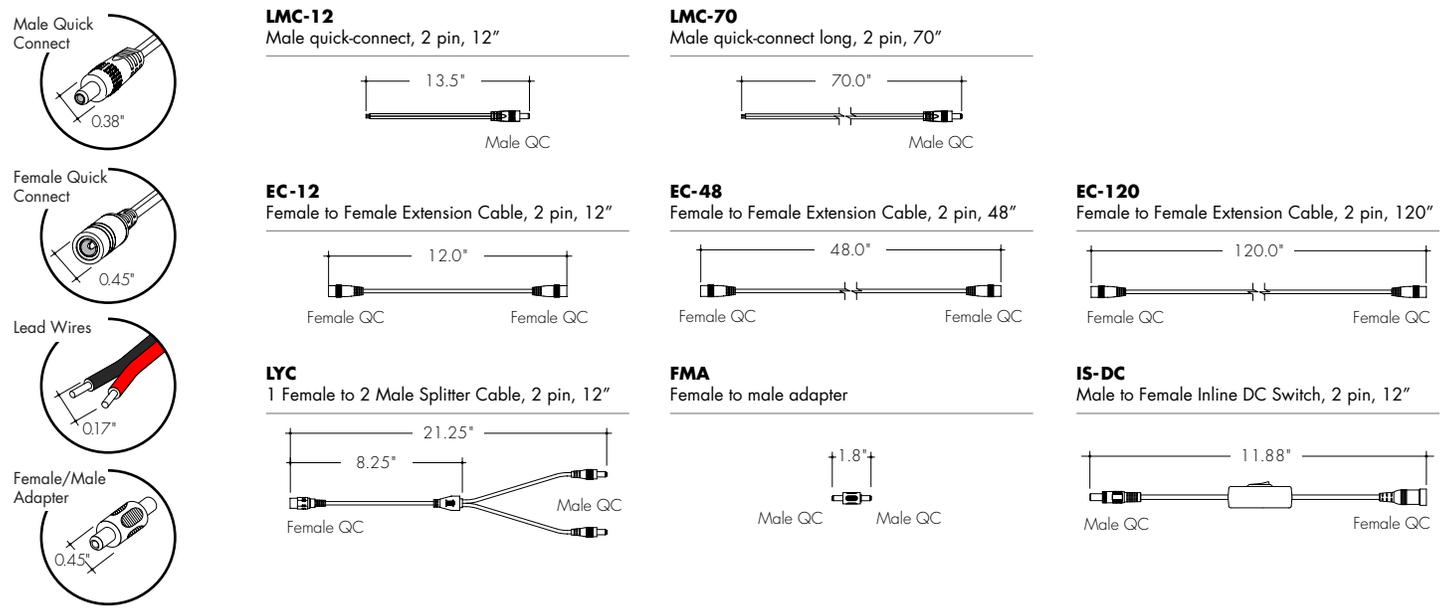3 - Fixed mounted systems have a maximum length of 76"
4 - Non Base finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.
5 - LNPF - RNPF is not a valid configuration option
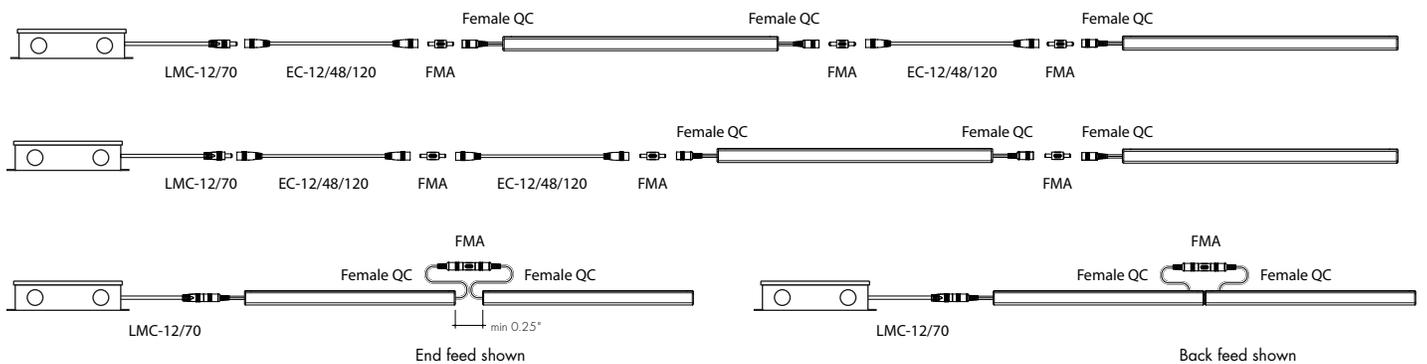
Powerfeeds and Connectors

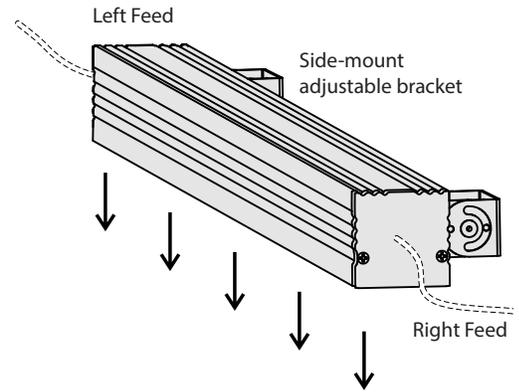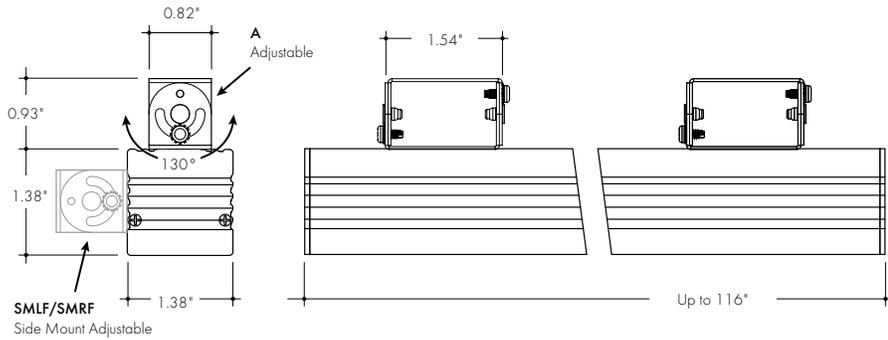**Power Feed Position Options and Orientation**

WIRE LEADS	QUICK CONNECTS
LWE - Left Wire End Feed	**LFE** - Left Female QC End Feed
LWB - Left Wire Back Feed	**LFB** - Left Female QC Back Feed
RWE - Right Wire End Feed	**RFE** - Right Female QC End Feed
RWB - Right Wire Back Feed	**RFB** - Right Female QC Back Feed

Arrows indicate light directions.
Diagram not representative of mounting options available.

Light Direction — Side A / Side B / Wall

Light Direction — Side B / Side A / Wall

Luminii defines LEFT when the fixture lens is facing upwards. For asymmetric fixtures/lens', Luminii defined LEFT when the lens is facing up and towards the user.

Linking and Extension Cable Options

Male Quick Connect — 0.38"

Female Quick Connect — 0.45"

Lead Wires — 0.17"

Female/Male Adapter — 0.45"

LMC-12
Male quick-connect, 2 pin, 12"
13.5" — Male QC

LMC-70
Male quick-connect long, 2 pin, 70"
70.0" — Male QC

EC-12
Female to Female Extension Cable, 2 pin, 12"
12.0" — Female QC / Female QC

EC-48
Female to Female Extension Cable, 2 pin, 48"
48.0" — Female QC / Female QC

EC-120
Female to Female Extension Cable, 2 pin, 120"
120.0" — Female QC / Female QC

LYC
1 Female to 2 Male Splitter Cable, 2 pin, 12"
21.25" / 8.25" — Female QC / Male QC

FMA
Female to male adapter
1.8" — Male QC / Male QC

IS-DC
Male to Female Inline DC Switch, 2 pin, 12"
11.88" — Male QC / Female QC

Sample Layout

LMC-12/70 — EC-12/48/120 — FMA — Female QC — FMA — EC-12/48/120 — FMA — Female QC — Female QC

LMC-12/70 — EC-12/48/120 — FMA — EC-12/48/120 — FMA — Female QC — FMA — Female QC — Female QC

LMC-12/70 — Female QC — FMA — Female QC — min 0.25"
End feed shown

LMC-12/70 — Female QC — FMA — Female QC
Back feed shown

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Product Dimensions

Adjustable and Side Mount Adjustable Mounting

0.82"

A
Adjustable

1.54"

0.93"

130°

1.38"

SMLF/SMRF
Side Mount Adjustable

1.38"

Up to 116"

Left Feed

Side-mount
adjustable bracket

Right Feed

Fixed Clip Mounting

Fixed Clip
0.09"

0.5"

1.38"

1.38"

0.4"

Up to 76"
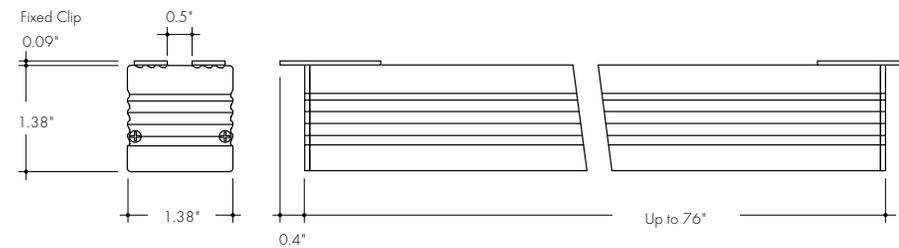
Mounting and Powerfeed options.

KGW-XX-SMA-LNPF-RWE
KGW-XX-SMA-LNPF-RWB

KGW-XX-SMA-LWB-RWE
KGW-XX-SMA-LWB-RWB

KGW-XX-SMA-LFE-RWE
KGW-XX-SMA-LFB-RWB

KGW-XX-SMA-LNPF-RFE
KGW-XX-SMA-LNPF-RFB

KGW-XX-SMA-LFE-RFE
KGW-XX-SMA-LFB-RFB

Left Feed | Side-mount adjustable bracket | Right Feed

Left Feed | Side-mount adjustable bracket | Right Feed

Left Feed | Side-mount adjustable bracket | Right Feed

Left Feed | Side-mount adjustable bracket | Right Feed

Left Feed | Side-mount adjustable bracket | Right Feed

Top view. End Feed is Solid Line. Back Feed is Dashed Line.

Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Powder Coat finishes may have extended lead times.
- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized
Base

Black
Powder Coat

Bronze
Powder Coat
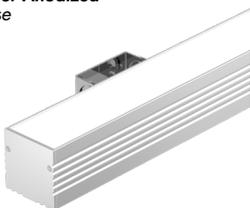
White
Powder Coat

Silver Anodized is a soft silver with a clear finish.

Black is a true deep black with a glossy finish.

Bronze is a rich, dark brown with a satin finish.

White is a polar bright white and field paintable.
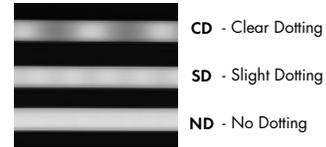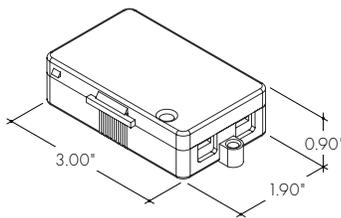
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Light Transmission and Dotting

Output Options	Lens/Accessory			
	Wash Lens			
Dimming Level	100%	50%	10%	1%
VC72VLO	CD	CD	CD	CD
VC72LO	CD	CD	CD	CD
VC72SO	CD	CD	CD	CD
VC72MO	CD	CD	CD	CD
VC72HO	CD	CD	CD	CD
VC72VHO	CD	CD	CD	CD
HE64VLO	CD	CD	CD	CD
HE64LO	CD	CD	CD	CD
HE64SO	CD	CD	CD	CD
HE64MO	CD	CD	CD	CD
HE64HO	CD	CD	CD	CD
HE64VHO	CD	CD	CD	CD
Transmission Percentage	100%			

CD - Clear Dotting

SD - Slight Dotting

ND - No Dotting

Use complete Dotting Chart Tool online for more dotting information

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Accessory Options

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

3.00"
0.90"
1.90"

OS-DC-F4-BK
Occupancy Sensor

0.25"
0.68"
1.13"
3.35"
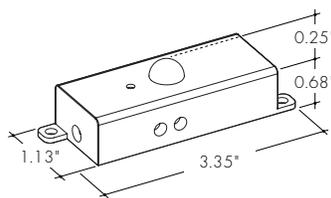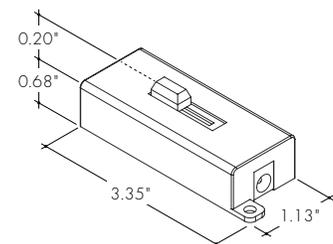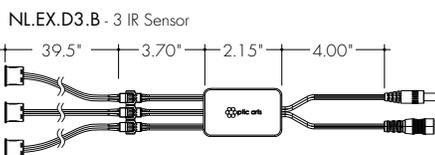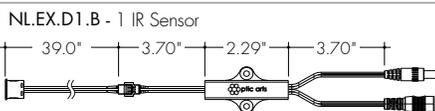
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

DIM-DC-F4-BK
24VDC Low Voltage In-line Dimmer Module

0.20"
0.68"
3.35"
1.13"

Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

NL.EX.D1.B & **NL.EX.D3.B**
Near Infrared Remote Door Sensor

NL.EX.D1.B - 1 IR Sensor

39.0"   3.70"   2.29"   3.70"

NL.EX.D3.B - 3 IR Sensor

39.5"   3.70"   2.15"   4.00"

Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output. For more information visit Sensor Spec Sheet   (Link)

Photometry

KGW-48-VC72VHO-30K-W
Kilo GW, 4ft, VHO, 3000K, Wash Lens
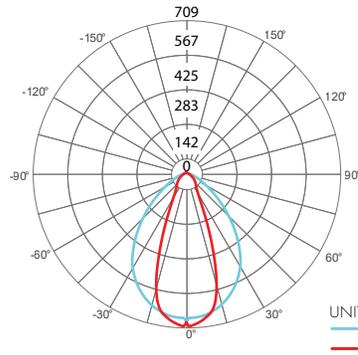
Zonal Lumen Summary 3000K

	Zone	Lumen	% Fixture
	0-30	190	49%
	0-40	263	67%
	0-60	358	91%
	0-90	390	100%
Total	0-180	392	100%

Beam Angle
42°

UNIT: CD
— C0/180
— C90/270

Power Consumption

Please visit the link/QR code below to access the Luminii Power Consumption Chart tool on our website.

There you will be able to select your fixture, ouput, and desired power feed to get a full power consumption table.

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Desired Nominal Length: _____

Desired Output: _____

Desired CCT: _____

Voltage Drop Calculator

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

Wattage [W]	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.
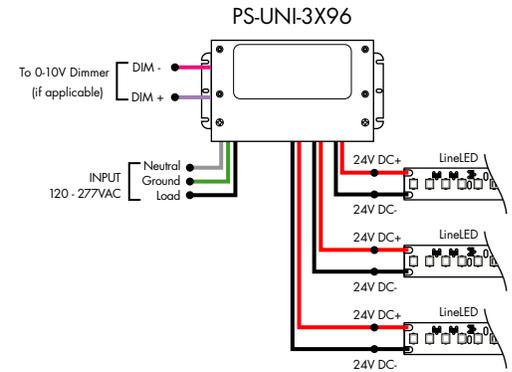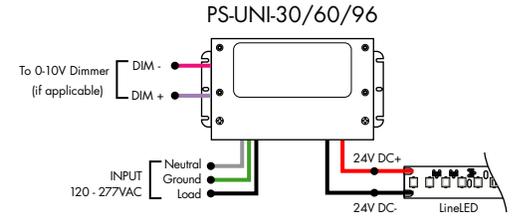
For use with Static White

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

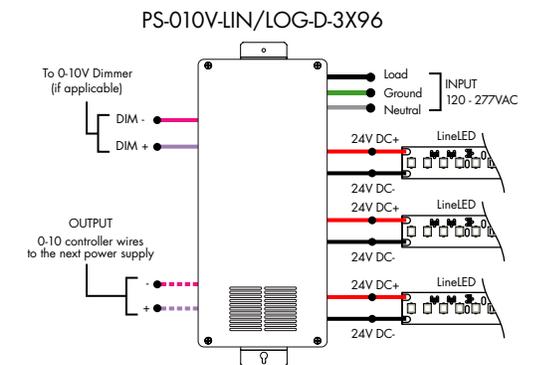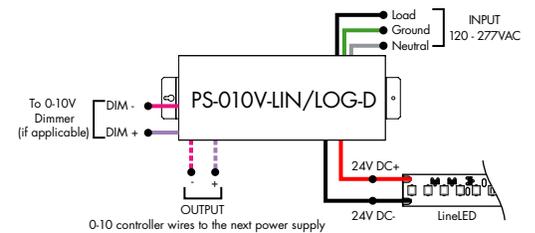| MODELS	PS-UNI-30W	PS-UNI-60W	PS-UNI-96W	PS-UNI-3X96W
Length	6.50″	7.40″	8.66"	11.85"
Width	3.73″	3.73″	3.73"	4.32"
Depth	1.61″	1.61″	1.61"	1.81"

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

0-10 controller wires to the next power supply


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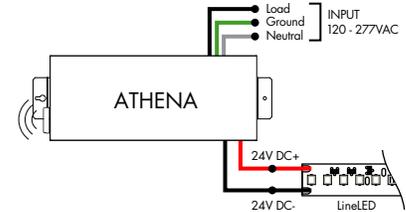
MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

For use with Static White

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

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS-Power Supply, 120-277VAC	**DALI2-DT6**-DALI2 DT6 (0.1%)	**D**-Dry	**96**-96 Watts	**24**-24 VDC
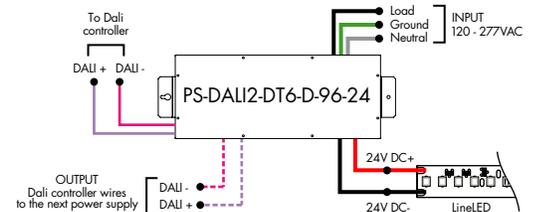
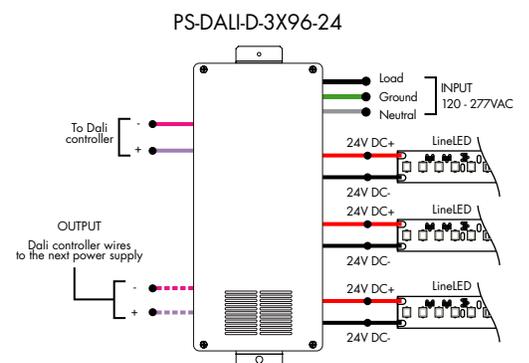| Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"

For use with Static White

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

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS-Power Supply, 120-277VAC	**DALI**-DALI (0.1%)	**D**-Dry	**96**-96 Watts **3x96**-3x96 Watts	**24**-24 VDC
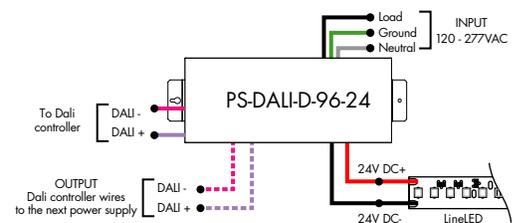
Model	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

Power Supplies

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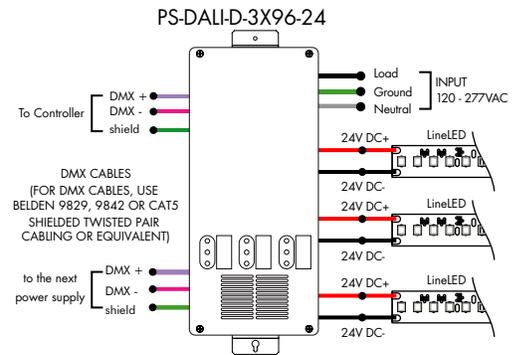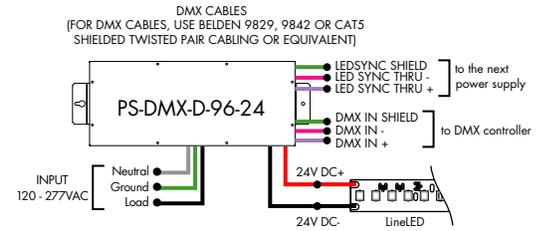
For use with Static White

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

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

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

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

DMX CABLES
(FOR DMX CABLES, USE BELDEN 9829, 9842 OR CAT5 SHIELDED TWISTED PAIR CABLING OR EQUIVALENT)
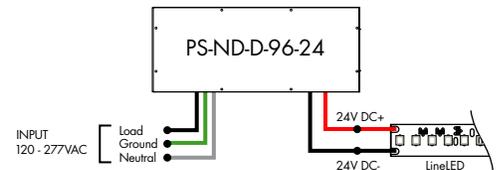
PS-DMX-D-96-24

PS-DALI-D-3X96-24

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"

PS-ND-D-96-24

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"
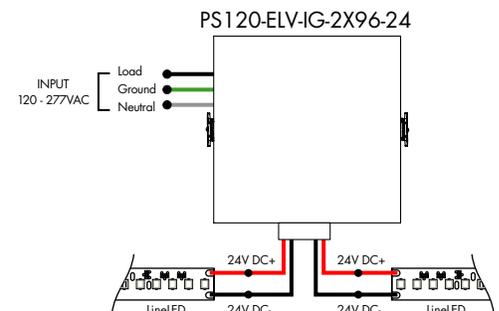
PS120-ELV-IG-2X96-24

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.
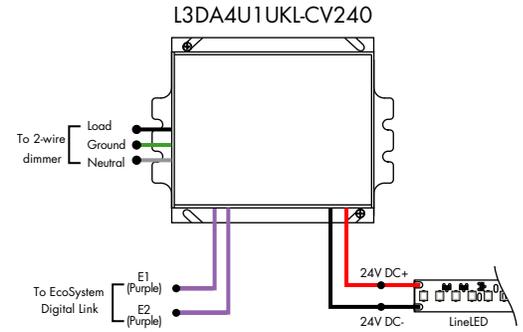
LUTRON®

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"

L3DA4U1UKL-CV240

To 2-wire dimmer — Load / Ground / Neutral

To EcoSystem Digital Link — E1 (Purple) / E2 (Purple)

24V DC+ / 24V DC- — LineLED

LUTRON®

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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"

To EcoSystem Digital Link — E1 (Purple) / E2 (Purple)

Load / Ground / Neutral — INPUT 120 - 277VAC

L3D0-96W24V-U

24V DC+ / 24V DC- — LineLED