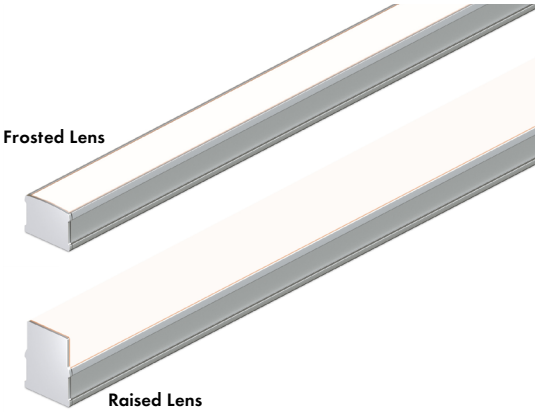
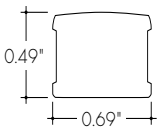
Kendo M Surface - Static White | Linear Illumination System

luminii



Features

- 24VDC Class 2 fixtures made to order up to 144". Fixtures can be linked up to 90' depending on output
- Suitable for undercabinet, millwork, direct view, grazer, cove, direct view, architectural reveals, accent lighting and surface mount applications
- Class 2 listed for damp locations
- Suitable for installation in the storage area of a clothes closet on outputs 5.7W/ft or less, NEC compliant for the USA only.
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- Dot free even illumination with frosted lens
- 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 930 lm/ft and up to 132 lm/W
- Average Life (L70): 50,000hrs
- 7 Year warranty



Finish Options (see page 3 for additional information)

Base	Silver Anodized				
Powder Coat	Black	Bronze	White		
Premium	Matte Black	Warm Nickel	Aged Brass	Polished Gold	Chrome

Technical Information

TYPE	Vibrant Color VC72					
OUTPUT OPTIONS	**VC72VLO**	**VC72LO**	**VC72SO**	**VC72MO**	**VC72HO**	**VC72VHO**
Lumens Output (3000K) (with a Clear Lens)	105 lm/ft	268 lm/ft	357 lm/ft	471 lm/ft	570 lm/ft	759 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	95 lm/W	96 lm/W	96 lm/W	96 lm/W	97 lm/W	96 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.

TYPE	High Efficacy HE64					
OUTPUT OPTIONS	**HE64VLO**	**HE64LO**	**HE64SO**	**HE64MO**	**HE64HO**	**HE64VHO**
Lumens Output (3000K) (with a Clear Lens)	116 lm/ft	251 lm/ft	360 lm/ft	479 lm/ft	681 lm/ft	934 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	116 lm/W	132 lm/W	124 lm/W	126 lm/W	122 lm/W	132 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.

Vibrant Color (VC72)

CCT	Multiplier (ref. - 30K)	TM-30 CRI	TM-30 R_f	TM-30 R_g	TM-30 R_9
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

High Efficacy (HE64)

CCT	Multiplier (ref. - 30K)	TM-30 CRI	TM-30 R_f	TM-30 R_g	TM-30 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

Ordering Code

MODEL - **LENGTH**[1] - **OUTPUT**[2] - **CCT** - **LENS** - **MOUNTING** - **FINISH**[4] - **FEED POSITION LEFT**[6] - **FEED POSITION RIGHT**[6] - **ACCESSORIES**

MODEL
- KM - Kendo M

LENGTH[1]
- 12"–144" 1" increments
- 12"–144" 2" increments

OUTPUT[2]
- VC72VLO - Very Low
- VC72LO - Low
- VC72SO - Standard
- VC72MO - Medium
- VC72HO - High
- VC72VHO - Very High
- HE64VLO - Very Low
- HE64LO - Low
- HE64SO - Standard
- HE64MO - Medium
- HE64HO - High
- HE64VHO - Very High

CCT
- 18K - 1800K
- 22K - 2200K
- 24K - 2400K
- 27K - 2700K
- 30K - 3000K
- 35K - 3500K
- 41K - 4100K
- 40K - 4000K

LENS
- C - Clear
- HF - Half Frosted
- F - Frosted
- FF - Flat Frosted
- GR - Narrow Beam Grazer
- R - Raised[3]

MOUNTING
- FC - Fixed Clip
- A - Adjustable Hinge Mounting
- FC45 - Fixed Clip, 45°
- MAG - Magnetic

FINISH[4]

BASE
- SA - Silver Anodized

POWDER COAT
- BK - Black
- BZ - Bronze
- WH - White

PREMIUM
- MBK - Matte Black
- WN - Warm Nickel
- AB - Aged Brass
- PG - Polished Gold[5]
- CH - Chrome[5]

FEED POSITION LEFT[6]

WIRE LEADS (72")
- LWE - Wire End Feed
- LWB - Wire Back Feed
- LWSA - Wire Side A Feed
- LWSB - Wire Side B Feed
- LNPF - No Power Feed

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

FEED POSITION RIGHT[6]

WIRE LEADS (72")
- RWE - Wire End Feed
- RWB - Wire Back Feed
- RWSA - Wire Side A Feed
- RWSB - Wire Side B Feed
- RNPF - No Power Feed

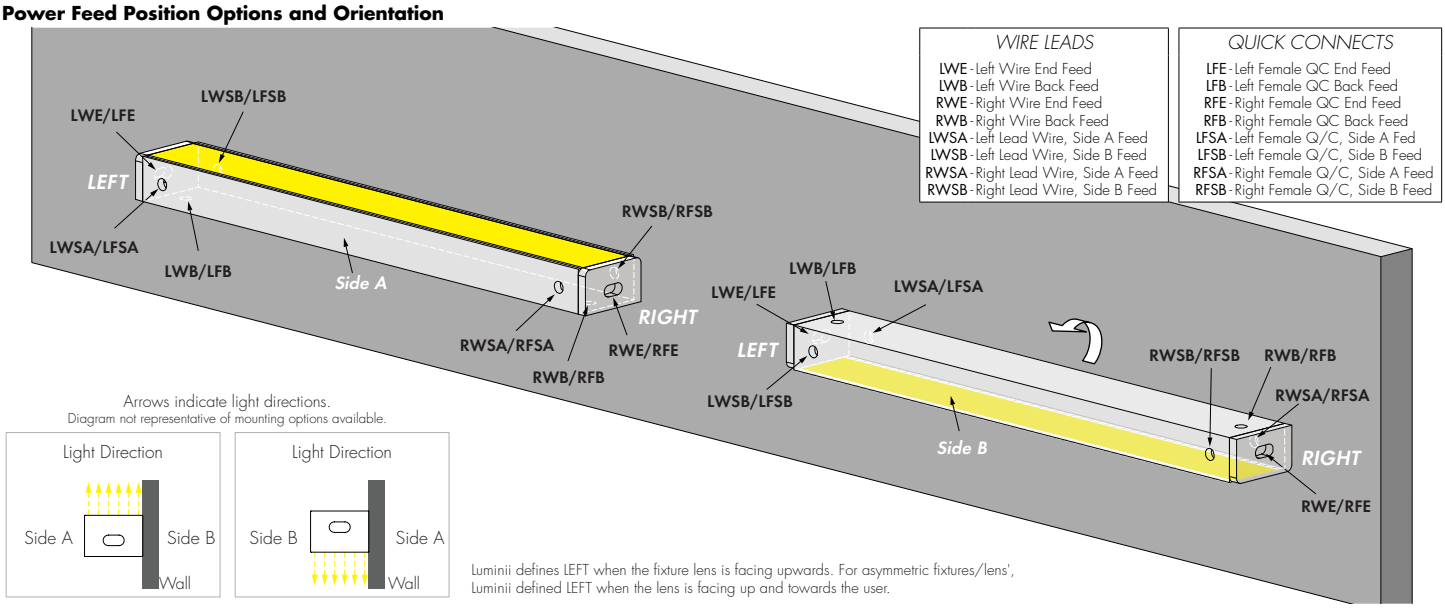
QUICK CONNECTS (4")
- RFE - Female Q/C, End Feed
- RFB - Female Q/C, Back Feed
- RFSA - Female Q/C, Side A Feed
- RFSB - Female Q/C, Side B Feed
- RNPF - No Power Feed

ACCESSORIES
- ___ - N/A, leave blank
- BLS - Blade louver, Silver
- BLBK - Blade louver, Black
- BLWH - Blade louver, White
- GSS - Glare shield, Silver
- GSBK - Glare shield, Black
- GSWH - Glare shield, White

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 - Glare Shield and Blade Louvers not available with Raised Lens.
4 - Non Base finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.
5 - Polished Gold and Chrome finishes have a maximum fixture length of 96".
6 - LNPF - RNPF is not a valid configuration option

Powerfeeds and Connectors

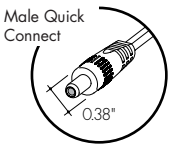
Power Feed Position Options and Orientation



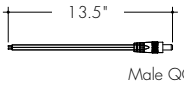
Arrows indicate light directions.
Diagram not representative of mounting options available.

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.

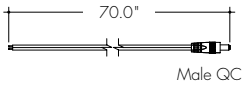
Linking and Extension Cable Options

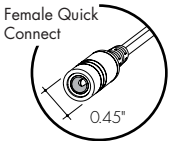


LMC-12
Male quick-connect, 2 pin, 12"

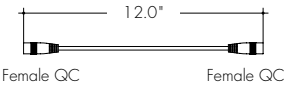


LMC-70
Male quick-connect long, 2 pin, 70"

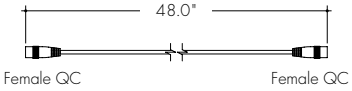




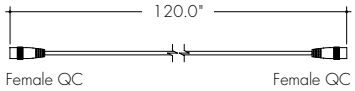
EC-12
Female to Female Extension Cable, 2 pin, 12"

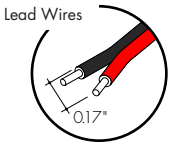


EC-48
Female to Female Extension Cable, 2 pin, 48"

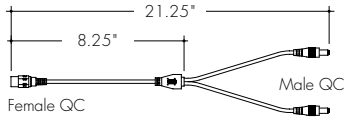


EC-120
Female to Female Extension Cable, 2 pin, 120"

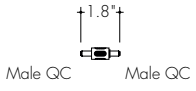




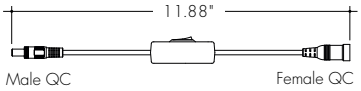
LYC
1 Female to 2 Male Splitter Cable, 2 pin, 12"

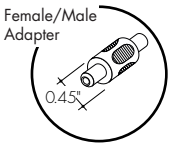


FMA
Female to male adapter

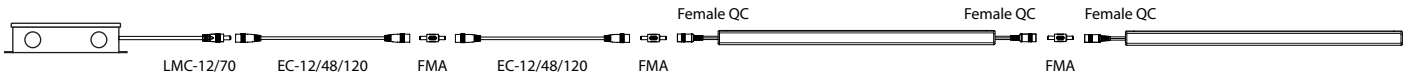


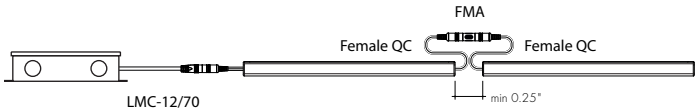
IS-DC
Male to Female Inline DC Switch, 2 pin, 12"



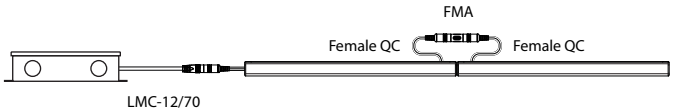


Sample Layout



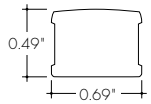


End feed shown

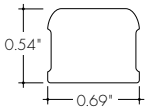


Side and Back feed shown

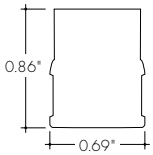
Product Dimensions



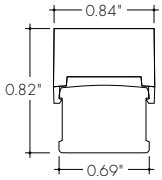
Clear, Half-frosted, Frosted, & Flat Frosted Lens



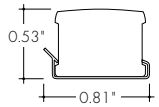
Narrow Beam Grazer Lens



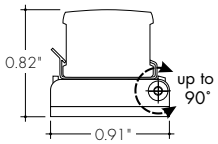
Raised Lens



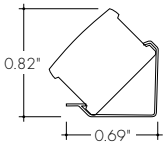
Clear, Half-frosted, Frosted, & Flat Frosted, & Narrow Beam Grazer Lens with Blade Louver or Glare Shield Accesory



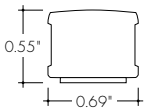
Clear, Half-frosted, Frosted, & Flat Frosted Lens with Fixed Mounting Bracket



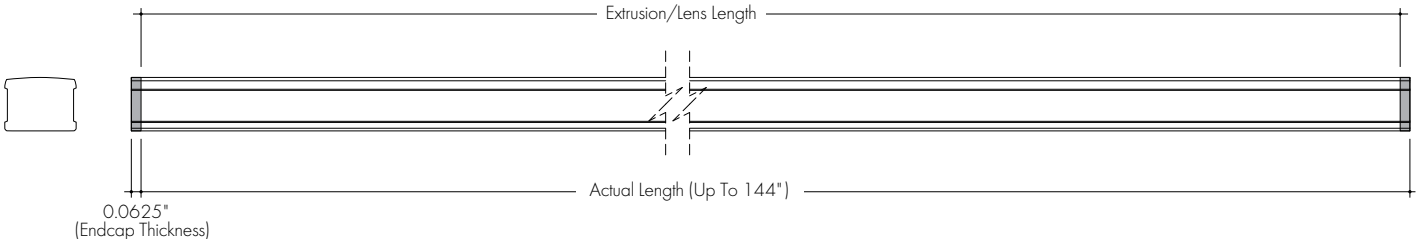
Clear, Half-frosted, Frosted, & Flat Frosted Lens with Adjustable Hinged Bracket



Clear, Half-frosted, Frosted, & Flat Frosted Lens with 45° Mounting Bracket



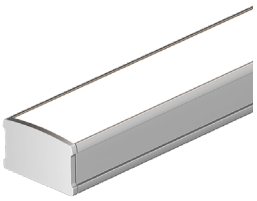
Clear, Half-frosted, Frosted, & Flat Frosted Lens with Magnetic Fixed Mounting Bracket



Finish Options

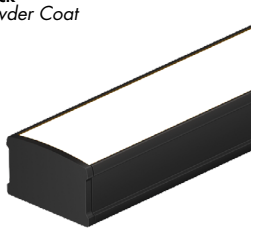
- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Base finishes may have extended lead times and price adder.
- Polished Gold and Chrome finishes have a maximum fixture length of 96".
- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized
Base



Silver Anodized is a soft silver with a clear finish.

Black
Powder Coat

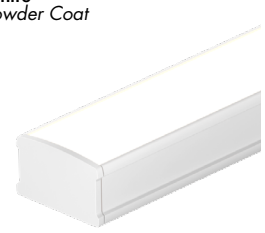


Black is a true deep black with a glossy finish.

Bronze
Powder Coat

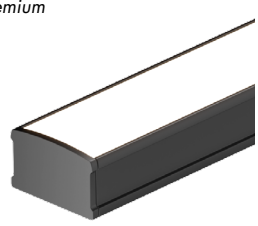
Bronze is a rich, dark brown with a satin finish.

White
Powder Coat



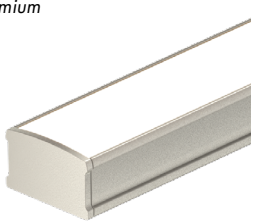
White is a polar bright white and field paintable.

Matte Black
Premium



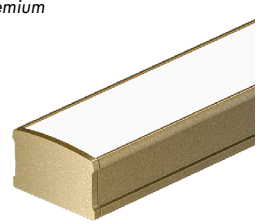
Matte Black is a dark, pitch-black with a soft flat finish.

Warm Nickel
Premium



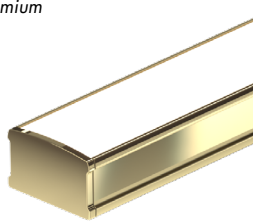
Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.

Aged Brass
Premium



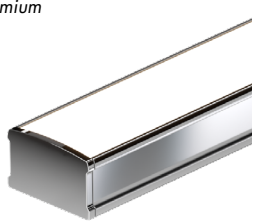
Aged Brass is a deep brown shade with slightly golden undertones.

Polished Gold
Premium



Polished Gold is bright and radiant for a brilliant finish.

Chrome
Premium



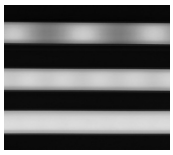
Chrome is a highly reflective silver polish.

Light Transmission and Dotting

	Lens/Accessory																							
Output Options	**Clear Lens**				**Half Frosted Lens**				**Raised Lens**				**Narrow Beam Grazer**				**Frosted Lens**				**Flat Frosted Lens**			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%	100%	50%	10%	1%	100%	50%	10%	1%	100%	50%	10%	1%	100%	50%	10%	1%
VC72VLO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72LO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72SO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72MO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72HO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
VC72VHO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64VLO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64LO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64SO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64MO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64HO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
HE64VHO	CD	CD	CD	CD	ND	ND	SD	CD	ND	ND	ND	ND	CD	CD	CD	CD	ND	ND	ND	ND	ND	ND	ND	ND
Transmission Percentage	100%				80%				70%				69%				62%				57%			

Use complete Dotting Chart Tool online for more dotting information

I'm also click-able



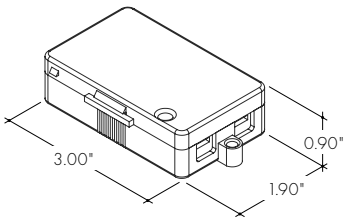
CD - Clear Dotting

SD - Slight Dotting

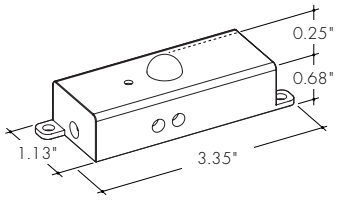
ND - No Dotting

Accessory Options

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

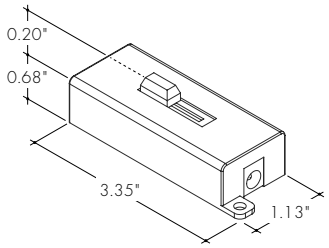


OS-DC-F4-BK
Occupancy Sensor



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

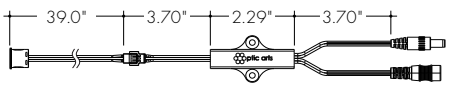
DIM-DC-F4-BK
24VDC Low Voltage In-line Dimmer Module



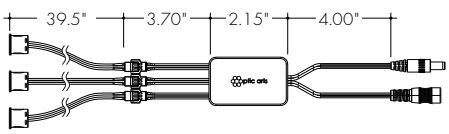
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

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

NL.EX.D1.B - 1 IR Sensor

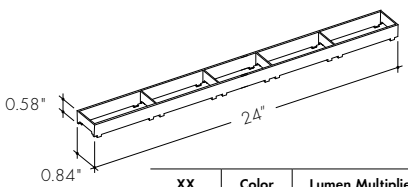


NL.EX.D3.B - 3 IR Sensor



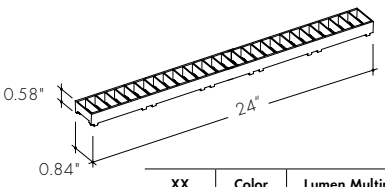
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output. For more information visit Sensor Spec Sheet (Link)

LV-GS-KMSC-24-XX
Glare Shield reduces glare at high angle, field cuttable. Also available with complete fixture, use ordering code **-GSXX**



XX	Color	Lumen Multiplier
WH	White	0.78
BK	Black	0.54
SL	Sllver	0.68

LV-BL-KMSC-24-XX
Blade Louver reduces glare at high angle in two directions Also available with complete fixture, use ordering code **-BLXX**

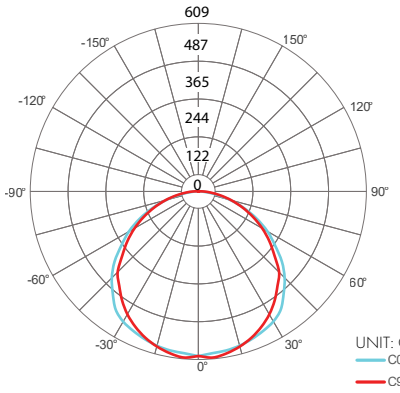


XX	Color	Lumen Multiplier
WH	White	0.59
BK	Black	0.29
SL	Sllver	0.40

Photometry

KM-48-VC72VHO-30K-F

Kendo M, 4ft, VHO, 3000K, Frosted Lens



Zonal Lumen Summary 3000K

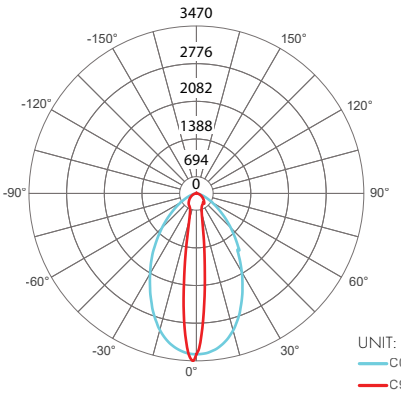
	Zone	Lumen	% Fixture
	0-30	119	25%
	0-40	198	42%
	0-60	359	76%
	0-90	467	99%
Total	0-180	473	100%

Beam Angle

117°

KM-48-VC72VHO-30K-GR

Kendo M, 4ft, VHO, 3000K, Narrow BeamGrazer Lens



Zonal Lumen Summary 3000K

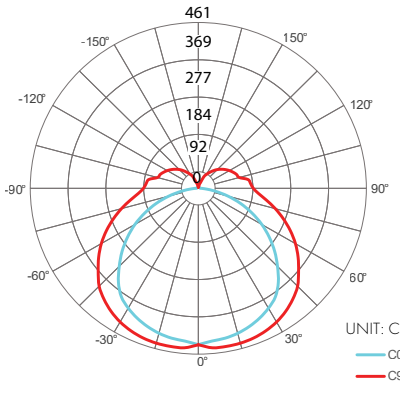
	Zone	Lumen	% Fixture
	0-30	243	46%
	0-40	329	63%
	0-60	458	88%
	0-90	517	99%
Total	0-180	523	100%

Beam Angle

14°

KM-48-VC72VHO-30K-R

Kendo M, 4ft, VHO, 3000K, Raised Lens



Zonal Lumen Summary 3000K

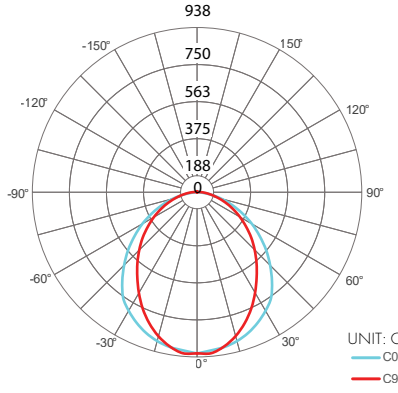
	Zone	Lumen	% Fixture
	0-30	91	17%
	0-40	154	29%
	0-60	297	56%
	0-90	442	83%
Total	0-180	534	100%

Beam Angle

135°

KM-48-VC72VHO-30K-HF

Kendo M, 4ft, VHO, 3000K, Half Frosted Lens



Zonal Lumen Summary 3000K

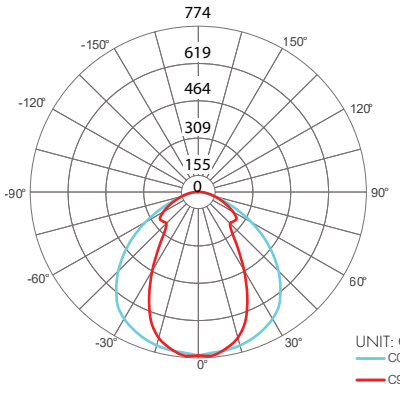
	Zone	Lumen	% Fixture
	0-30	174	29%
	0-40	279	46%
	0-60	475	79%
	0-90	595	99%
Total	0-180	603	100%

Beam Angle

101°

KM-48-VC72VHO-30K-C

Kendo M, 4ft, VHO, 3000K, Clear Lens



Zonal Lumen Summary 3000K

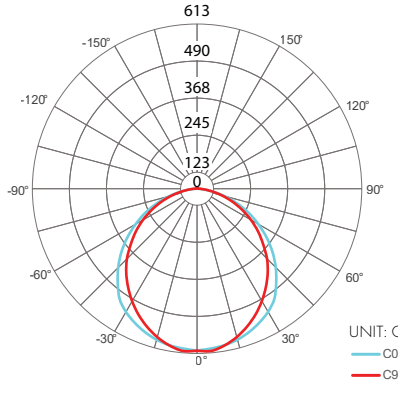
	Zone	Lumen	% Fixture
	0-30	253	33%
	0-40	394	52%
	0-60	619	82%
	0-90	749	99%
Total	0-180	759	100%

Beam Angle

89°

KM-48-VC72VHO-30K-FF

Kendo M, 4ft, VHO, 3000K, Flat Frosted Lens



Zonal Lumen Summary 3000K

	Zone	Lumen	% Fixture
	0-30	117	27%
	0-40	192	44%
	0-60	339	78%
	0-90	432	99%
Total	0-180	436	100%

Beam Angle

111°

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.

I'm also click-able

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

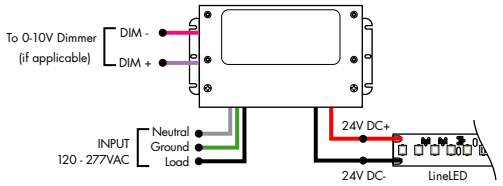
MODEL		INPUT CONTROL		WATTAGE		OUTPUT
	–		–		–	
PS - Power Supply, 120-277VAC		UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)		30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC

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

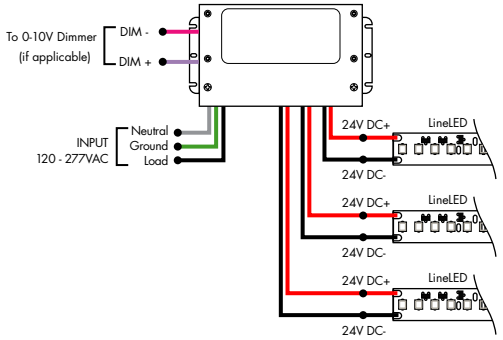
0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

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

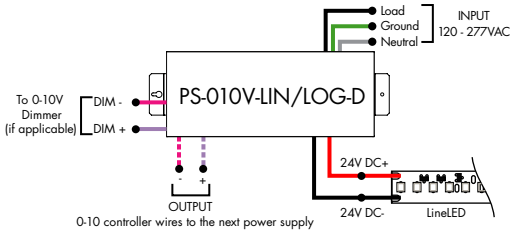


For use with Static White

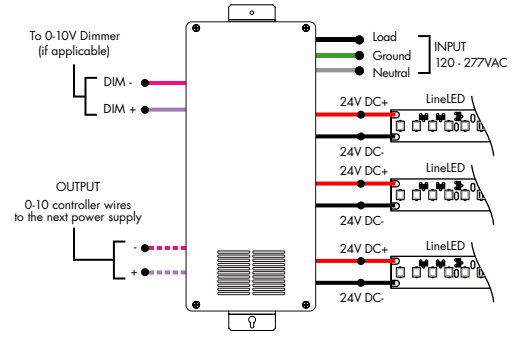
Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

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-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.

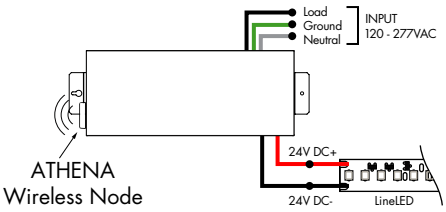
For use with Static White

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

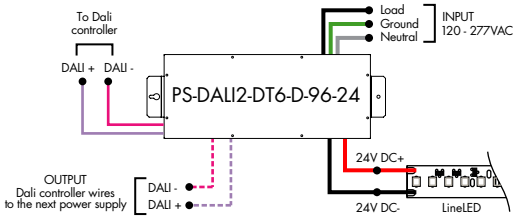


For use with Static White

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"

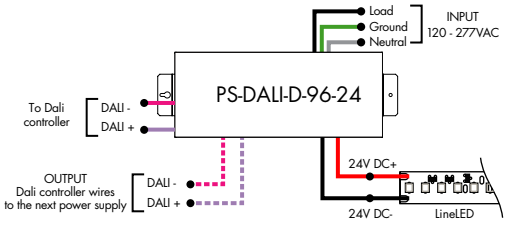


For use with Static White

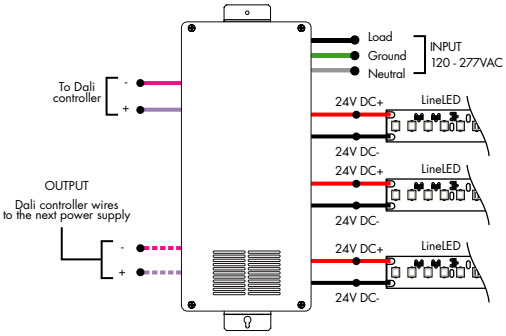
Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

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



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

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.

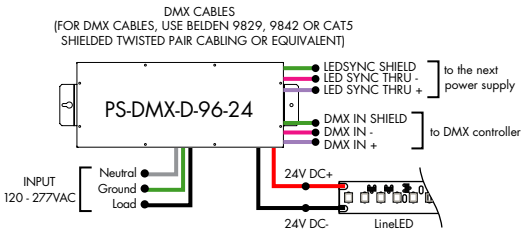
For use with Static White

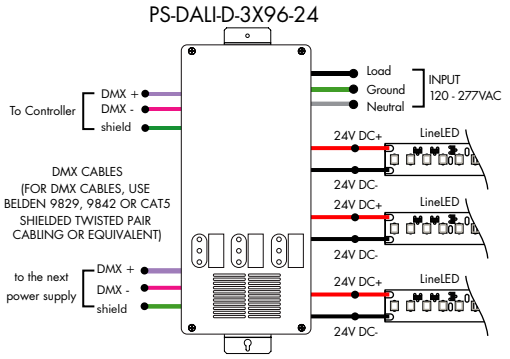
Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

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.



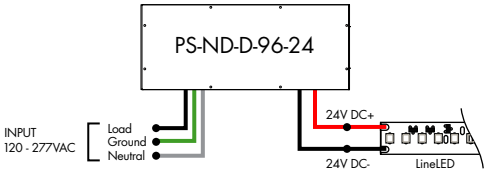


For use with Static White

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"

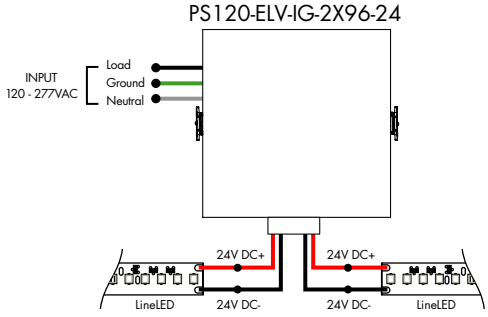


For use with Static White

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"



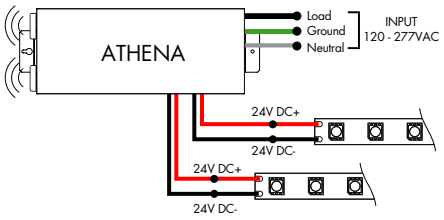
Power Supplies

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®

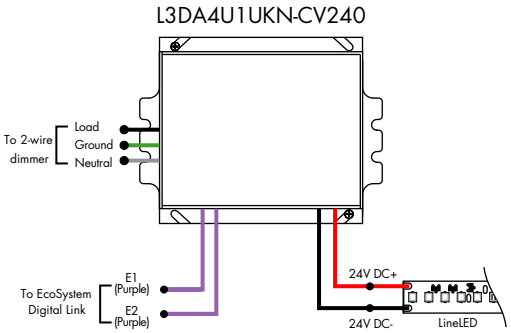
Luminii is a Lutron OEM Advantage Partner

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®

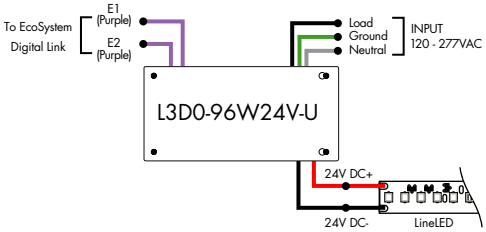
Luminii is a Lutron OEM Advantage Partner

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"