Kendo 45M Round with Sensor - Static White | Linear Illumination System

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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, closet/ storage space, cove, curtain pocket, toe kick, architectural reveals, banister/ handrail, accent lighting, and surface mount applications
- Class 2 listed for damp locations
- 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
- Dot free even illumination with frosted lens
- 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 740 lm/ft and up to 105 lm/W
- Average Life (L70): 50,000hrs
- 7 Year warranty

0.17"
0.75"
0.75"

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

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 Round Frosted Lens)	84 lm/ft	213 lm/ft	284 lm/ft	375 lm/ft	453 lm/ft	603 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	76 lm/W	76 lm/W	77 lm/W	77 lm/W	77 lm/W	76 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 – 86°F (-20°C – 30°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	R_f	R_g	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

TYPE	High Efficacy HE64					
OUTPUT OPTIONS	HE64VLO	HE64LO	HE64SO	HE64MO	HE64HO	HE64VHO
Lumens Output (3000K) (with a Round Frosted Lens)	93 lm/ft	200 lm/ft	287 lm/ft	381 lm/ft	542 lm/ft	742 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	93 lm/W	105 lm/W	99 lm/W	100 lm/W	97 lm/W	105 lm/W
Max Run Length (in series)	90 ft	54 ft	34.9 ft	26 ft	17 ft	13 ft
Ambient Operating Temperature Range*	-4°F – 122°F (-20°C – 50°C)					-4°F – 104°F (-20°C – 40°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	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

Ordering Code

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

K45M - Kendo 45M with Sensor

12"–144" 1" increments
VC72VLO - Very Low
VC72LO - Low
VC72SO - Standard
VC72MO - Medium
VC72HO - High
VC72VHO - Very High

12"–144" 2" increments
HE64VLO - Very Low
HE64LO - Low
HE64SO - Standard
HE64MO - Medium
HE64HO - High
HE64VHO - Very High

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

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

RF - Round Frosted

CB - Concealed Bracket

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[4]
CH - Chrome[4]

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

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

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

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

L - Left
R - Right
L - Left
R - Right

MN010 - PIR Integral Motion Sensor; 10 seconds delay
MN020 - PIR Integral Motion Sensor; 20 seconds delay
MN030 - PIR Integral Motion Sensor; 30 seconds delay
MN045 - PIR Integral Motion Sensor; 45 seconds delay
MN090 - PIR Integral Motion Sensor; 90 seconds delay
MN0120 - PIR Integral Motion Sensor; 120 seconds delay
IR1 - Near IR Remote Door Sensor; 1 Sensor
IR3 - Near IR Remote Door Sensor; 2 or 3 Sensor

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.
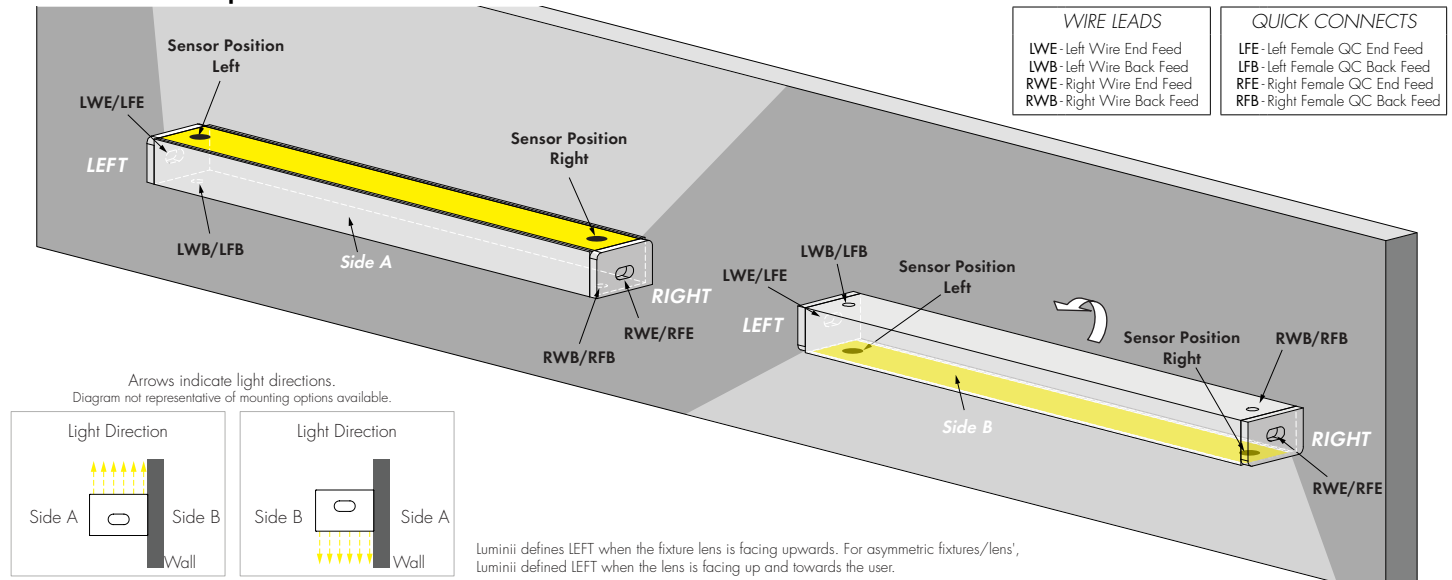3 - Non Base finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.
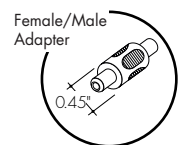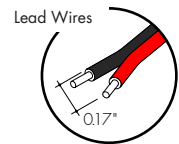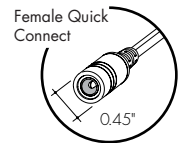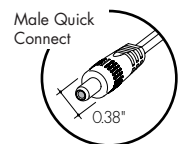4 - Polished Gold finishes and Chrome finishes have a maximum fixture length of 96".
5 - IR1, IR3 only available with Quick Connect Feed options.

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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

Sensor Position Left
LWE/LFE
LEFT
LWB/LFB
Side A
Sensor Position Right
RIGHT
RWB/RFB
RWE/RFE

LWB/LFB
LWE/LFE
Sensor Position Left
LEFT
Side B
Sensor Position Right
RWB/RFB
RIGHT
RWE/RFE

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
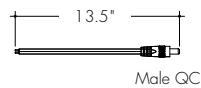
LMC-70
Male quick-connect long, 2 pin, 70"
70.0"
Male QC
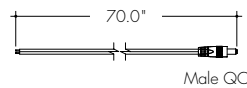
EC-12
Female to Female Extension Cable, 2 pin, 12"
12.0"
Female QC — Female QC
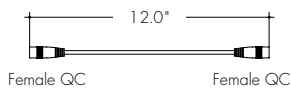
EC-48
Female to Female Extension Cable, 2 pin, 48"
48.0"
Female QC — Female QC
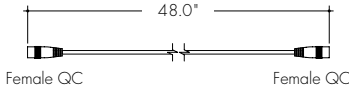
EC-120
Female to Female Extension Cable, 2 pin, 120"
120.0"
Female QC — Female QC
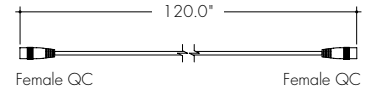
LYC
1 Female to 2 Male Splitter Cable, 2 pin, 12"
21.25"
8.25"
Female QC
Male QC
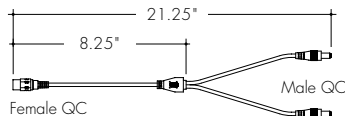
FMA
Female to male adapter
1.8"
Male QC   Male QC
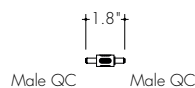
IS-DC
Male to Female Inline DC Switch, 2 pin, 12"
Male QC   Female QC

Sample Layout

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

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

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

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

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Product Dimensions

0.17"

0.75"

0.75"

Ø 0.5"

1.50"

Left Side

UP TO 144"

Right Side
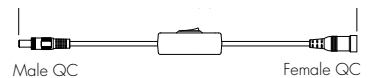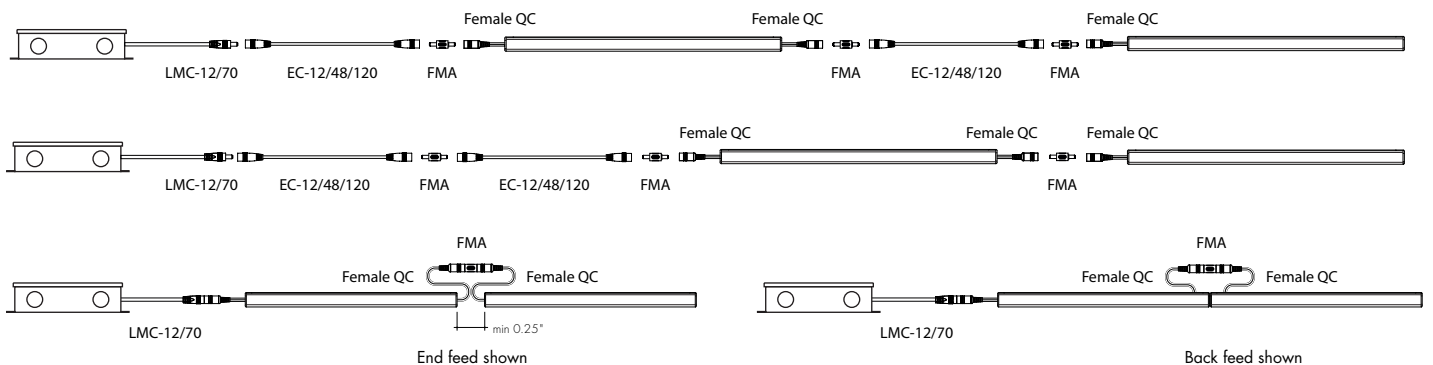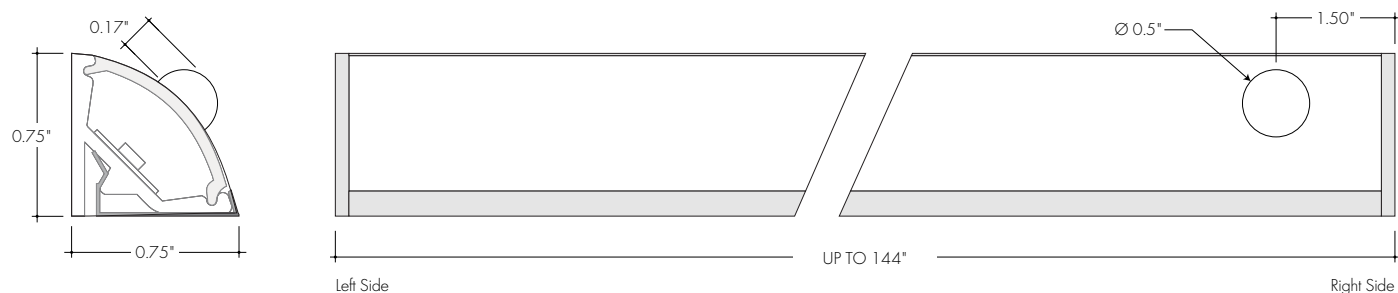
Finish Options

- 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".
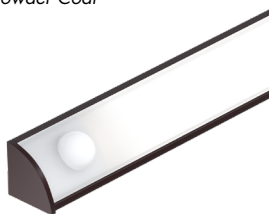- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized
Base
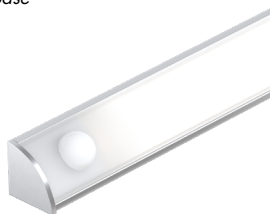
Silver Anodized is a soft silver with a clear finish.

Black
Powder Coat
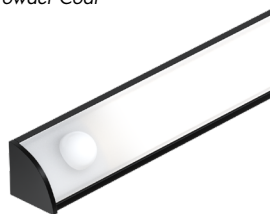
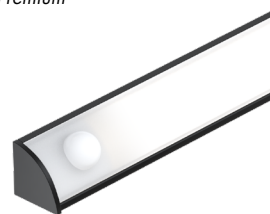Black is a true deep black with a glossy finish.

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.
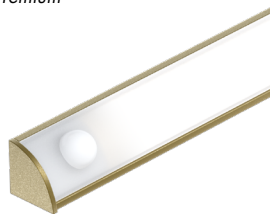
Matte Black
Premium

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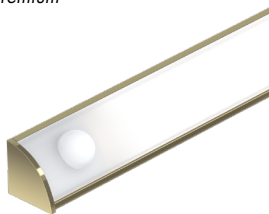
Warm Nickel
Premium

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.
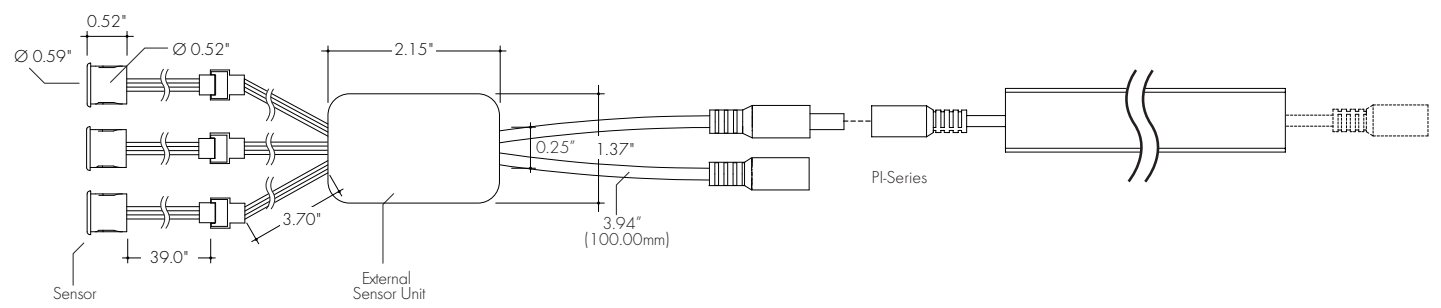
Polished Gold
Premium

Polished Gold is bright and radiant for a brilliant finish.

Chrome
Premium

Chrome is a highly reflective silver polish.

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Dimensions (Near IR Remote Sensor)

0.52"
Ø 0.59"
Ø 0.52"
2.15"
0.25" 1.37"
3.70"
39.0"
3.94"
(100.00mm)
PI-Series
Sensor
External
Sensor Unit

Functionality (External Door Sensor)
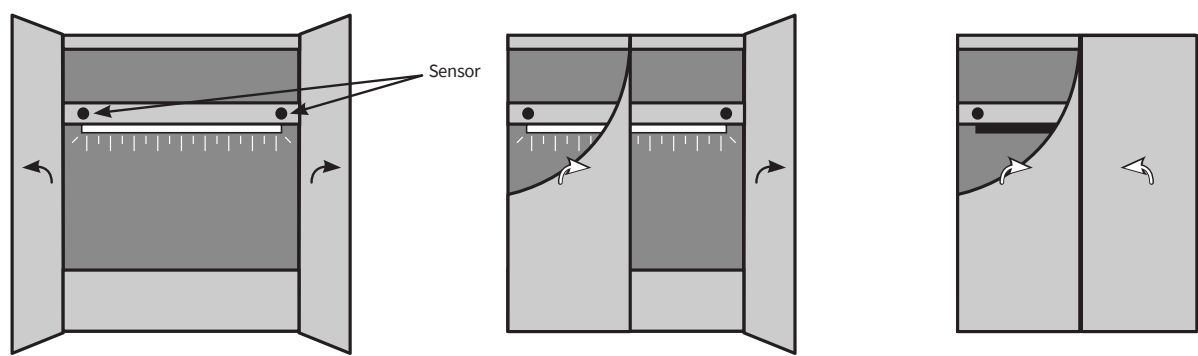
Sensor

Wiring Diagrams (Near IR Remote Door Sensor)

IR1, IR3 Sensor   Linear Fixture with Static White or Warm DIm
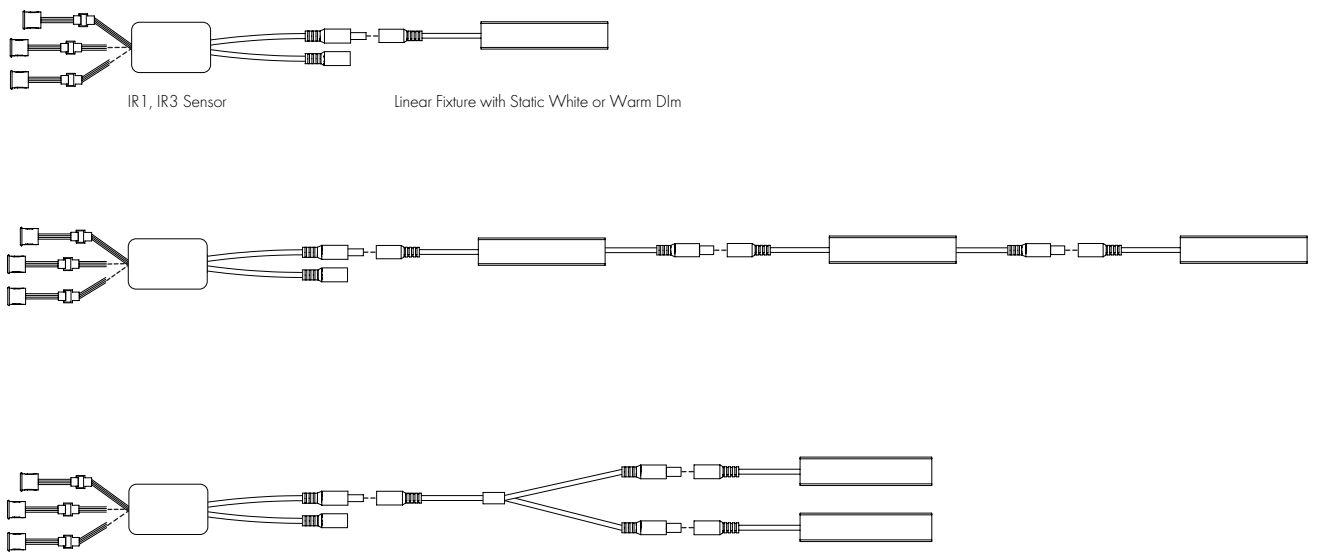
Light Transmission and Dotting

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

CD - Clear Dotting

SD - Slight Dotting

ND - No Dotting
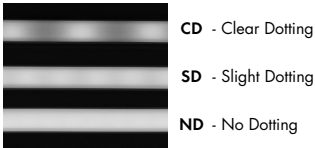
Use complete Dotting Chart Tool online for more dotting information

I'm also click-able

Photometry

K45MRS-48-VC72VHO-30K-RF
Kendo 45MR with Sensor, 4ft, VHO, 3000K, Round Frosted Lens
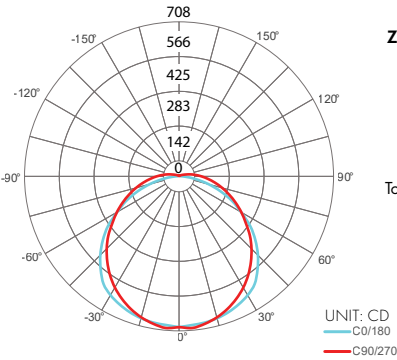
Zonal Lumen Summary 3000K

	Zone	Lumen	% Fixture
	0-30	138	23%
	0-40	230	38%
	0-60	420	70%
	0-90	576	95%
Total	0-180	603	100%

Beam Angle

121 °

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.

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]	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.

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

PS-ND-D-96-24

INPUT
120 - 277VAC

Load
Ground
Neutral

24V DC+
24V DC-

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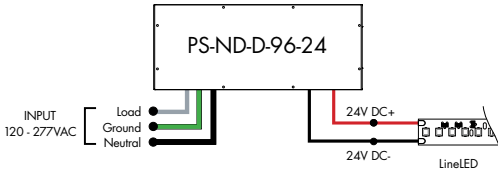
MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

Plug In Power Supply

MODEL	POWER	OUTPUT
PI - Plug In Series	130 - 130 Watt 160 - 160 Watt 196 - 196 Watt	24 - 24 VDC

Input
to wall outlet

To fixture

MODELS	130	160	196
Length	3.73"	4.48"	6.00"
Width	1.83"	2.00"	2.35"
Depth	1.25"	1.22"	1.46"