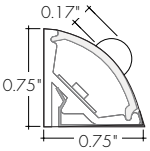
Kendo 45M Round with Sensor - Static White | Linear Illumination System

luminii

Features

- 24VDC Class 2 fixtures made to order up to 144". Fixtures can be linked up to 48' 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
- 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 frosted lens
- 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 600 lm/ft and up to 85 lm/W
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- 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

MODEL	High Color Quality			High Efficacy				High Efficacy
OUTPUT OPTIONS	**72SO**	**72HO**	**72VHO**	**HE48LO**	**HE48SO**	**HE48MO**	**HE48HO**	**HE64VHO**
Lumens Output (3000K) (with a Frosted Lens)	165 lm/ft	268 lm/ft	325 lm/ft	161 lm/ft	222 lm/ft	297 lm/ft	476 lm/ft	603 lm/ft
Average Power Consumption (for a 4' section)	2.8 W/ft	4.8 W/ft	6 W/ft	1.9 W/ft	2.8 W/ft	3.5 W/ft	6.5 W/ft	7.5 W/ft
Efficacy	59 lm/W	56 lm/W	54 lm/W	85 lm/W	79 lm/W	85 lm/W	73 lm/W	80 lm/W
Max Run Length (in series)	40 ft	31 ft	22 ft	48 ft	42 ft	33 ft	21 ft	15 ft
Ambient Operating Temperature Range*	-5°F – 125°F (-20°C – 50°C)			-5°F – 125°F (-20°C – 50°C)				-5°F – 115°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 Color Quality (72)

CCT	Multiplier (reference - 3000K)	TM-30 CRI	R_f	R_g	R_9
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 (HE48/HE64)

CCT	Multiplier (reference - 3000K)	TM-30 CRI	R_f	R_g	R_9
2200K	0.73	92	91	97	42
2500K	0.81	93	96	96	62
2700K	0.94	92	90	99	58
3000K	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	MOUNTING	FINISH[3]	FEED POSITION LEFT	FEED POSITION RIGHT	SENSOR LOCATION	SENSORS[5]

MODEL
- K45M - Kendo 45M with Sensor

LENGTH[1]
- 12" - 144" (1" increments)
- 12" - 144" (2" increments)

OUTPUT[2]
- 72SO - Standard
- 72HO - High
- 72VHO - Very High
- HE48LO - Low
- HE48SO - Standard
- HE48MO - Medium
- HE48HO - High
- HE64VHO - Very High

CCT
- 19K - 1900K
- 22K - 2200K
- 24K - 2400K
- 27K - 2700K
- 30K - 3000K
- 35K - 3500K
- 41K - 4100K
- 22K - 2200K
- 25K - 2500K
- 27K - 2700K
- 30K - 3000K
- 35K - 3500K
- 40K - 4000K

LENS
- RF - Round Frosted

MOUNTING
- CB - Concealed Bracket

FINISH[3]

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]

FEED POSITION LEFT

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

FEED POSITION RIGHT

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

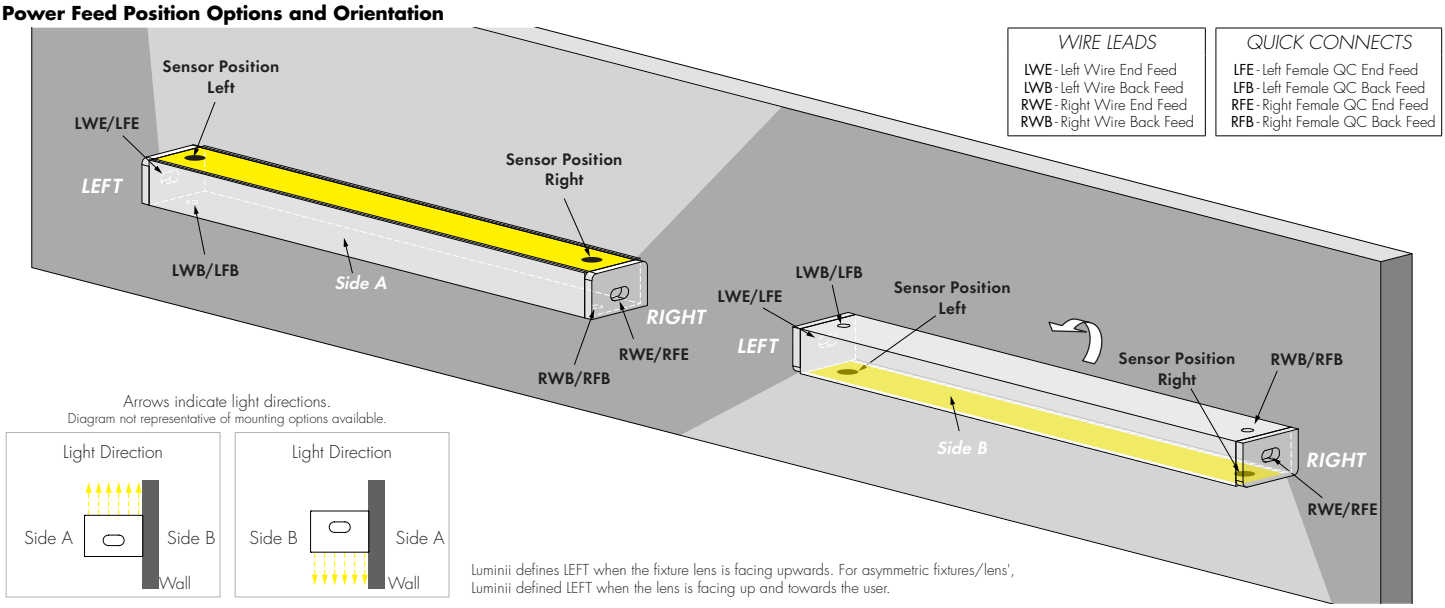
SENSOR LOCATION
- L - Left
- R - Right

SENSORS[5]
- 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 - 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 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.

Powerfeeds and Connectors

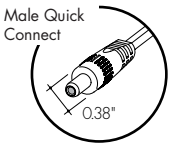
Power Feed Position Options and Orientation



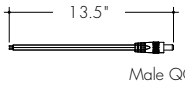
Arrows indicate light directions.
Diagram not representative of mounting options available.

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.

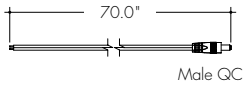
Linking and Extension Cable Options

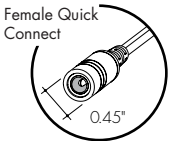


LMC-12
Male quick-connect, 2 pin, 12"

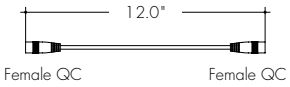


LMC-70
Male quick-connect long, 2 pin, 70"

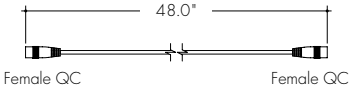




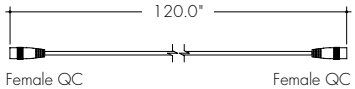
EC-12
Female to Female Extension Cable, 2 pin, 12"

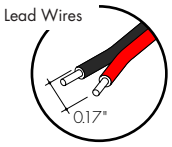


EC-48
Female to Female Extension Cable, 2 pin, 48"

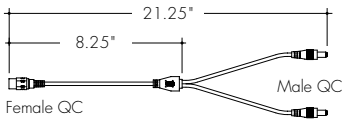


EC-120
Female to Female Extension Cable, 2 pin, 120"

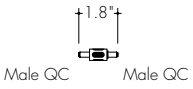




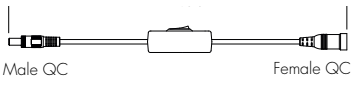
LYC
1 Female to 2 Male Splitter Cable, 2 pin, 12"

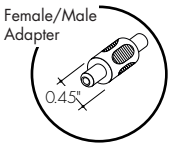


FMA
Female to male adapter

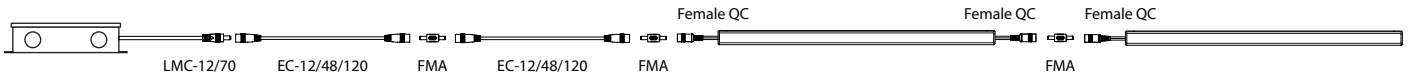


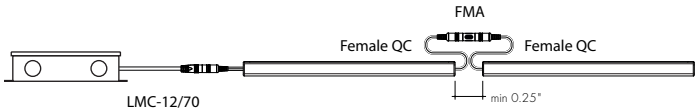
IS-DC
Male to Female Inline DC Switch, 2 pin, 12"



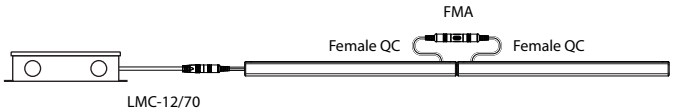


Sample Layout



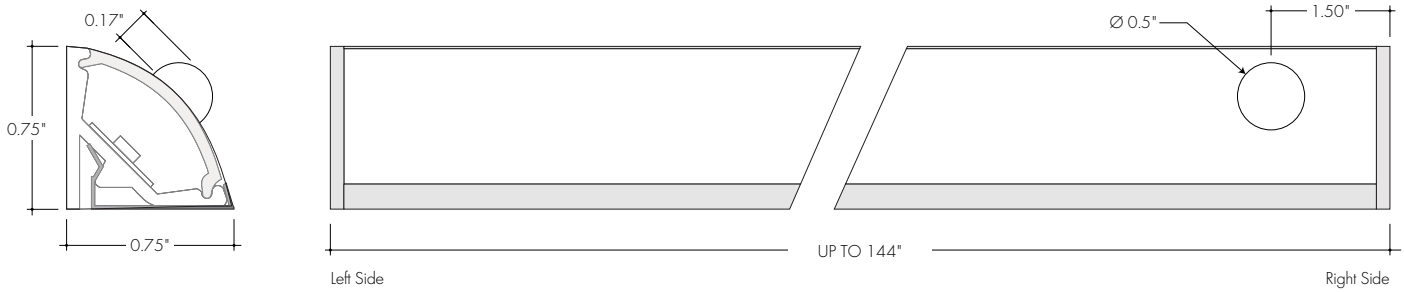


End feed shown



Back feed shown

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 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.

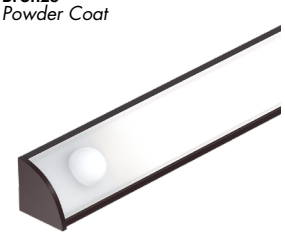
Silver Anodized
Base

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

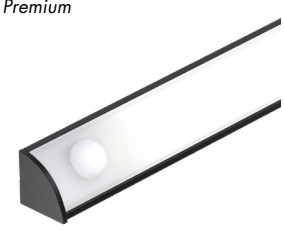


Bronze is a rich, dark brown with a satin finish.

White
Powder Coat

White is a polar bright white and field paintable.

Matte Black
Premium

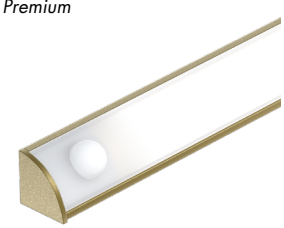


Matte Black is a dark, pitch-black with a soft flat finish.

Warm Nickel
Premium

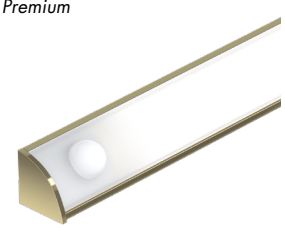
Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.

Aged Brass
Premium



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

Polished Gold
Premium

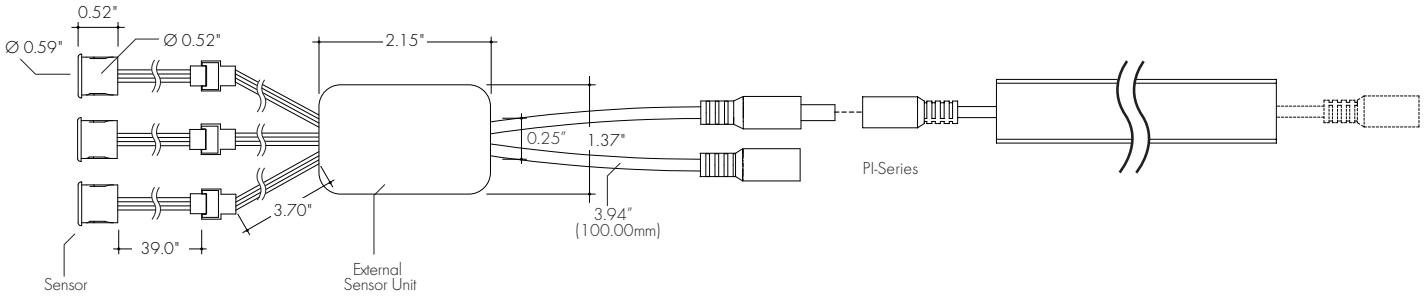


Polished Gold is bright and radiant for a brilliant finish.

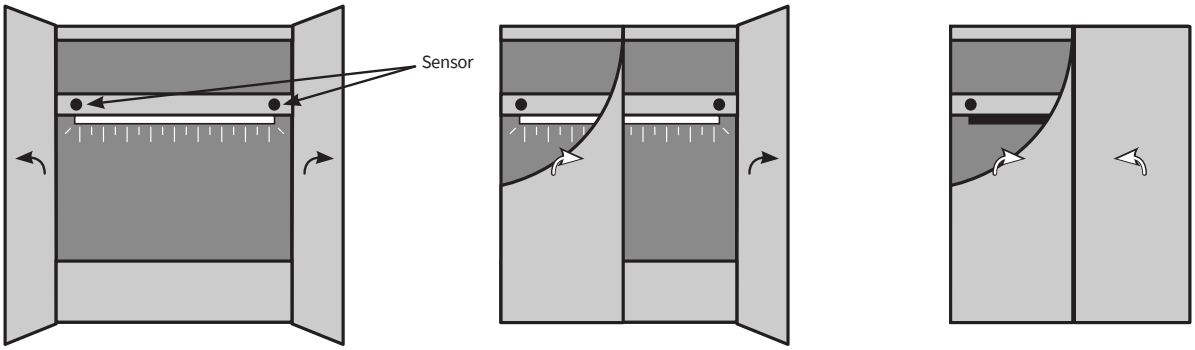
Chrome
Premium

Chrome is a highly reflective silver polish.

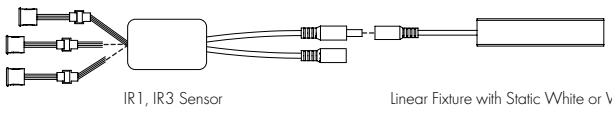
Dimensions (Near IR Remote Sensor)



Functionality (External Door Sensor)

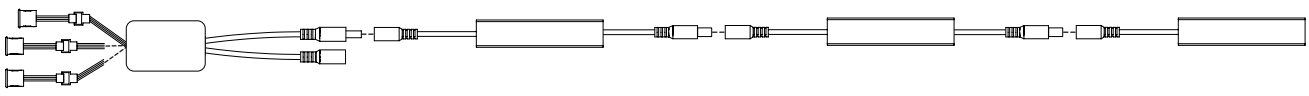


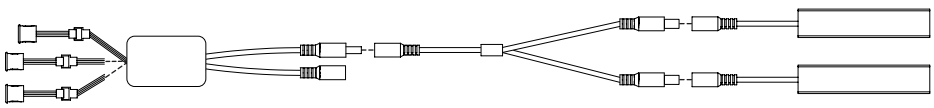
Wiring Diagrams (Near IR Remote Door Sensor)



IR1, IR3 Sensor

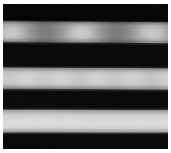
Linear Fixture with Static White or Warm Dim





Light Transmission and Dotting

	Lens/Accessory			
Output Options	**Round 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	100%			



CD - Clear Dotting

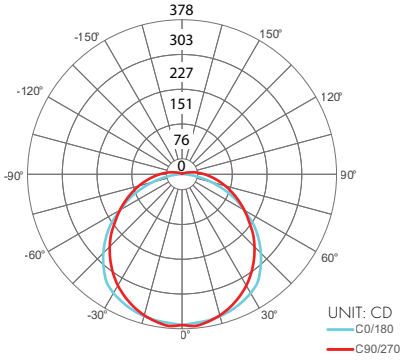
SD - Slight Dotting

ND - No Dotting

Photometry

K45MRS-48-72VHO-30K-RF

Kendo 45MR with Sensor, 4ft, VHO, 3000K, Round Frosted Lens



Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	298	22.9%
0-40	496	38.1%
0-60	907	69.7%
0-90	1243	95.4%
Total 0-180	1302	100%

Beam Angle

121 °

Power Consumption

Tested at Full Power with PS-UNI Series power supplies.
*For Back Feed add 4/16" (1/4") to Actual Length. Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

High Color Quality (72)

Nominal Length (in)	End Feed Actual Length*	Watts			Nominal Length (in)	End Feed Actual Length*	Watts			Nominal Length (in)	End Feed Actual Length*	Watts			Nominal Length (in)	End Feed Actual Length*	Watts		
		SO	HO	VHO			SO	HO	VHO			SO	HO	VHO			SO	HO	VHO
12	11 14/16	2.7	4.4	6.2	**47**	46 10/16	10.0	16.7	22.1	**82**	81 5/16	17.9	28.9	37.6	**117**	116 1/16	25.2	39.9	51.2
13	–	–	–	–	**48**	47 12/16	10.2	17.1	22.6	**83**	82 8/16	18.1	29.2	38.0	**118**	117 4/16	25.6	40.5	52.0
14	13	2.7	4.4	6.2	**49**	48 15/16	10.5	17.4	23.1	**84**	83 10/16	18.3	29.5	38.4	**119**	118 6/16	25.9	40.8	52.4
15	14 3/16	2.7	4.4	6.2	**50**	–	–	–	–	**85**	84 13/16	18.5	29.8	38.8	**120**	119 9/16	26.1	41.1	52.8
16	15 5/16	2.9	4.8	6.7	**51**	50 1/16	10.7	17.8	23.5	**86**	85 15/16	18.7	30.1	39.2	**121**	120 11/16	26.3	41.4	53.2
17	16 8/16	3.1	5.2	7.3	**52**	51 4/16	11.1	18.6	24.4	**87**	–	–	–	–	**122**	121 14/16	26.5	41.7	53.6
18	17 10/16	3.4	5.6	7.8	**53**	52 6/16	11.4	18.9	24.9	**88**	87 2/16	19.2	30.8	40.0	**123**	–	–	–	–
19	18 13/16	3.6	6.0	8.3	**54**	53 9/16	11.6	19.3	25.3	**89**	88 5/16	19.4	31.1	40.4	**124**	123	26.7	42.0	54.0
20	19 15/16	3.9	6.5	8.9	**55**	54 11/16	11.9	19.7	25.7	**90**	89 7/16	19.6	31.5	40.8	**125**	124 3/16	27.1	42.6	54.7
21	–	–	–	–	**56**	55 14/16	12.1	20.1	26.1	**91**	90 10/16	19.9	31.8	41.1	**126**	125 5/16	27.3	42.9	55.0
22	21 2/16	4.4	7.3	9.9	**57**	–	–	–	–	**92**	91 12/16	20.1	32.2	41.5	**127**	126 8/16	27.5	43.1	55.4
23	22 4/16	4.6	7.7	10.5	**58**	57	12.3	20.5	26.6	**93**	92 15/16	20.4	32.5	41.9	**128**	127 10/16	27.7	43.4	55.7
24	23 7/16	4.8	8.1	11.0	**59**	58 3/16	12.8	21.3	27.4	**94**	–	–	–	–	**129**	128 13/16	27.9	43.7	56.1
25	24 10/16	5.1	8.6	11.5	**60**	59 5/16	13.1	21.6	27.8	**95**	94 1/16	20.6	32.9	42.3	**130**	130	28.1	43.9	56.4
26	25 12/16	5.3	9.0	12.1	**61**	60 8/16	13.3	22.0	28.3	**96**	95 4/16	21.1	33.6	43.1	**131**	–	–	–	–
27	26 15/16	5.6	9.4	12.6	**62**	61 10/16	13.6	22.4	28.7	**97**	96 6/16	21.3	33.9	43.4	**132**	131 2/16	28.5	44.5	57.1
28	–	–	–	–	**63**	62 13/16	13.8	22.8	29.1	**98**	97 9/16	21.5	34.2	43.8	**133**	132 5/16	28.7	44.7	57.4
29	28 1/16	5.8	9.8	13.1	**64**	63 15/16	14.0	23.1	29.6	**99**	98 11/16	21.8	34.6	44.2	**134**	133 7/16	28.9	45.0	57.8
30	29 4/16	6.2	10.5	14.1	**65**	–	–	–	–	**100**	99 14/16	22.0	34.9	44.6	**135**	134 10/16	29.1	45.3	58.1
31	30 6/16	6.5	10.9	14.5	**66**	65 2/16	14.5	23.8	30.5	**101**	–	–	–	–	**136**	135 12/16	29.3	45.5	58.4
32	31 9/16	6.7	11.2	15.0	**67**	66 5/16	14.7	24.1	31.0	**102**	101	22.2	35.2	45.0	**137**	136 15/16	29.5	45.7	58.7
33	32 11/16	6.9	11.6	15.5	**68**	67 7/16	14.9	24.4	31.4	**103**	102 3/16	22.5	35.9	45.9	**138**	–	–	–	–
34	33 14/16	7.1	12.0	16.0	**69**	68 10/16	15.1	24.7	31.9	**104**	103 5/16	22.7	36.2	46.3	**139**	138 1/16	29.6	45.9	59.1
35	–	–	–	–	**70**	69 12/16	15.3	25.0	32.4	**105**	104 8/16	22.9	36.5	46.7	**140**	139 4/16	30.0	46.3	59.7
36	35	7.3	12.3	16.5	**71**	70 15/16	15.5	25.4	32.8	**106**	105 10/16	23.1	36.8	47.1	**141**	140 6/16	30.2	46.5	60.0
37	36 3/16	7.8	13.1	17.4	**72**	–	–	–	–	**107**	106 13/16	23.3	37.1	47.5	**142**	141 9/16	30.3	46.8	60.3
38	37 5/16	8.0	13.4	17.9	**73**	72 1/16	15.8	25.7	33.3	**108**	108	23.5	37.4	48.0	**143**	142 11/16	30.5	47.0	60.6
39	38 8/16	8.2	13.8	18.4	**74**	73 4/16	16.2	26.3	34.2	**109**	–	–	–	–	**144**	143 14/16	30.7	47.2	61.0
40	39 10/16	8.4	14.2	18.9	**75**	74 6/16	16.4	26.6	34.7	**110**	109 2/16	23.9	38.1	48.8					
41	40 13/16	8.7	14.5	19.3	**76**	75 9/16	16.6	26.9	35.1	**111**	110 5/16	24.1	38.4	49.2					
42	41 15/16	8.9	14.9	19.8	**77**	76 11/16	16.8	27.3	35.5	**112**	111 7/16	24.3	38.7	49.6					
43	–	–	–	–	**78**	77 14/16	17.1	27.6	35.9	**113**	112 10/16	24.5	39.0	50.0					
44	43 2/16	9.3	15.6	20.7	**79**	–	–	–	–	**114**	113 12/16	24.8	39.3	50.4					
45	44 5/16	9.6	16.0	21.2	**80**	79	17.3	27.9	36.3	**115**	114 15/16	25.0	39.6	50.8					
46	45 7/16	9.8	16.4	21.7	**81**	80 3/16	17.7	28.5	37.2	**116**	–	–	–	–					

Power Consumption

Tested at Full Power with PS-UNI Series power supplies.
*For Back Feed add 4/16" (1/4") to Actual Length. Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

High Efficacy (HE48)

Nominal Length (in)	End Feed Actual Length*	Watts				Nominal Length (in)	End Feed Actual Length*	Watts				Nominal Length (in)	End Feed Actual Length*	Watts				Nominal Length (in)	End Feed Actual Length*	Watts			
		LO	SO	MO	HO			LO	SO	MO	HO			LO	SO	MO	HO			LO	SO	MO	HO
12	10 8/16	1.7	2.5	3.5	5.7	**47**	–	–	–	–	–	**82**	81 5/16	12.2	19.4	23.3	41.4	**ttttttt**	116 12/16	17.3	27.3	33.7	57.9
13	12 7/16	1.7	2.5	3.5	5.7	**48**	47 14/16	6.9	10.7	13.3	24.7	**83**	–	–	–	–	–	**118**	–	–	–	–	–
14	–	–	–	–	–	**49**	–	–	–	–	–	**84**	83 5/16	12.5	19.9	23.9	42.2	**119**	118 12/16	17.5	27.7	34.3	58.7
15	14 7/16	1.7	2.5	3.5	5.7	**50**	49 13/16	7.1	11.2	13.9	25.4	**85**	–	–	–	–	–	**120**	–	–	–	–	–
16	–	–	–	–	–	**51**	–	–	–	–	–	**86**	85 4/16	12.8	20.3	24.5	43.1	**121**	120 11/16	17.8	28.1	34.9	59.6
17	16 6/16	2.0	3.0	4.0	7.2	**52**	51 13/16	7.4	11.7	14.5	26.3	**87**	–	–	–	–	–	**122**	–	–	–	–	–
18	–	–	–	–	–	**53**	–	–	–	–	–	**88**	87 4/16	13.1	20.8	25.1	44.1	**123**	122 11/16	18.1	28.6	35.5	60.5
19	18 6/16	2.4	3.5	4.6	8.7	**54**	53 12/16	7.7	12.3	15.1	27.4	**89**	–	–	–	–	–	**124**	–	–	–	–	–
20	–	–	–	–	–	**55**	–	–	–	–	–	**90**	89 3/16	13.4	21.3	25.7	45.0	**125**	124 10/16	18.3	29.0	36.0	62.1
21	20 5/16	2.7	3.9	5.2	10.2	**56**	55 12/16	8.0	12.9	15.7	28.5	**91**	–	–	–	–	–	**126**	–	–	–	–	–
22	–	–	–	–	–	**57**	–	–	–	–	–	**92**	91 3/16	13.7	21.7	26.3	46.0	**127**	126 10/16	18.4	29.5	36.6	63.8
23	22 4/16	3.0	4.4	5.8	11.7	**58**	57 11/16	8.4	13.5	16.4	29.5	**93**	–	–	–	–	–	**128**	–	–	–	–	–
24	–	–	–	–	–	**59**	–	–	–	–	–	**94**	93 2/16	14.0	22.1	26.9	47.0	**129**	128 9/16	18.6	29.9	37.2	65.4
25	24 4/16	3.4	4.9	6.4	13.2	**60**	59 11/16	8.7	14.0	17.0	30.6	**95**	–	–	–	–	–	**130**	–	–	–	–	–
26	–	–	–	–	–	**61**	–	–	–	–	–	**96**	95 2/16	14.3	22.6	27.5	47.9	**131**	130 9/16	18.8	30.4	37.7	67.0
27	26 3/16	3.7	5.4	7.0	14.7	**62**	61 10/16	9.0	14.6	17.6	31.6	**97**	–	–	–	–	–	**132**	–	–	–	–	–
28	–	–	–	–	–	**63**	–	–	–	–	–	**98**	97 1/16	14.4	22.8	27.8	48.4	**133**	132 8/16	18.9	30.8	38.3	68.6
29	28 3/16	4.1	5.9	7.5	15.8	**64**	63 10/16	9.4	15.2	18.2	32.6	**99**	–	–	–	–	–	**134**	–	–	–	–	–
30	–	–	–	–	–	**65**	–	–	–	–	–	**100**	99 1/16	14.7	23.3	28.5	49.4	**135**	134 8/16	19.1	31.2	38.9	70.2
31	30 2/16	4.4	6.4	8.1	16.8	**66**	65 9/16	9.7	15.6	18.7	33.7	**101**	–	–	–	–	–	**136**	–	–	–	–	–
32	–	–	–	–	–	**67**	–	–	–	–	–	**102**	101	15.0	23.7	29.0	50.4	**137**	136 7/16	19.3	31.8	39.4	70.7
33	32 2/16	4.8	6.9	8.7	17.9	**68**	67 9/16	10.0	16.1	19.2	34.7	**103**	103	15.3	24.1	29.6	51.3	**138**	–	–	–	–	–
34	–	–	–	–	–	**69**	–	–	–	–	–	**104**	–	–	–	–	–	**139**	138 7/16	19.5	32.3	40.0	71.2
35	34 1/16	5.0	7.2	9.0	18.5	**70**	69 8/16	10.4	16.5	19.8	35.7	**105**	104 15/16	15.6	24.6	30.2	52.3	**140**	–	–	–	–	–
36	–	–	–	–	–	**71**	–	–	–	–	–	**106**	–	–	–	–	–	**141**	140 6/16	19.8	32.8	40.6	71.8
37	36 1/16	5.4	7.7	9.6	19.5	**72**	71 8/16	10.7	17.0	20.3	36.7	**107**	106 15/16	15.8	25.0	30.7	53.2	**142**	–	–	–	–	–
38	–	–	–	–	–	**73**	–	–	–	–	–	**108**	–	–	–	–	–	**143**	142 6/16	20.0	33.3	41.1	72.3
39	38	5.7	8.2	10.2	20.6	**74**	73 7/16	11.0	17.4	20.8	37.7	**109**	108 14/16	16.1	25.5	31.3	54.2	**144**	–	–	–	–	–
40	40	6.0	8.7	10.8	21.5	**75**	–	–	–	–	–	**110**	–	–	–	–	–						
41	–	–	–	–	–	**76**	75 7/16	11.3	17.9	21.4	38.7	**111**	110 14/16	16.4	25.9	31.9	55.2						
42	41 15/16	6.2	9.2	11.4	22.3	**77**	–	–	–	–	–	**112**	–	–	–	–	–						
43	–	–	–	–	–	**78**	77 6/16	11.6	18.4	22.0	39.6	**113**	112 13/16	16.7	26.4	32.5	56.1						
44	43 15/16	6.4	9.7	12.0	23.1	**79**	–	–	–	–	–	**114**	–	–	–	–	–						
45	–	–	–	–	–	**80**	79 6/16	11.9	18.9	22.7	40.5	**115**	114 13/16	17.0	26.8	33.1	57.0						
46	45 14/16	6.7	10.2	12.6	23.9	**81**	–	–	–	–	–	**116**	–	–	–	–	–						

Power Consumption

Tested at Full Power with PS-UNI Series power supplies.
*For Back Feed add 4/16" (1/4") to Actual Length. Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

High Efficacy (HE64)

Nominal Length (in)	End Feed Actual Length*	Watts VHO	Nominal Length (in)	End Feed Actual Length*	Watts VHO	Nominal Length (in)	End Feed Actual Length*	Watts VHO	Nominal Length (in)	End Feed Actual Length*	Watts VHO
12	11 11/16	7.6	**47**	46 8/16	27.6	**82**	81 5/16	49.8	**117**	116 3/16	71.2
13	–	–	**48**	–	–	**83**	82 14/16	50.4	**118**	117 11/16	71.7
14	13 3/16	7.6	**49**	48	28.2	**84**	–	–	**119**	–	–
15	14 11/16	7.6	**50**	49 9/16	29.5	**85**	84 6/16	51.7	**120**	119 3/16	72.8
16	–	–	**51**	–	–	**86**	85 14/16	52.3	**121**	120 11/16	73.3
17	16 4/16	8.9	**52**	51 1/16	30.1	**87**	–	–	**122**	–	–
18	17 12/16	9.5	**53**	52 9/16	31.4	**88**	87 6/16	53.6	**123**	122 4/16	74.4
19	–	–	**54**	–	–	**89**	88 15/16	54.2	**124**	123 12/16	74.8
20	19 4/16	10.7	**55**	54 1/16	32.0	**90**	–	–	**125**	–	–
21	20 12/16	11.4	**56**	55 10/16	33.3	**91**	90 7/16	55.5	**126**	125 4/16	75.6
22	–	–	**57**	–	–	**92**	91 15/16	56.2	**127**	126 12/16	76.0
23	22 4/16	12.6	**58**	57 2/16	34.0	**93**	–	–	**128**	–	–
24	23 13/16	13.2	**59**	58 10/16	35.2	**94**	93 7/16	57.5	**129**	128 4/16	76.8
25	–	–	**60**	–	–	**95**	94 15/16	58.2	**130**	129 13/16	77.2
26	25 5/16	14.5	**61**	60 2/16	36.5	**96**	–	–	**131**	–	–
27	26 13/16	15.1	**62**	61 10/16	37.2	**97**	96 8/16	59.5	**132**	131 5/16	78.0
28	–	–	**63**	–	–	**98**	98	60.1	**133**	132 13/16	78.4
29	28 5/16	16.4	**64**	63 3/16	38.4	**99**	–	–	**134**	–	–
30	29 14/16	17.0	**65**	64 11/16	39.1	**100**	99 8/16	61.4	**135**	134 5/16	79.2
31	–	–	**66**	–	–	**101**	–	–	**136**	135 14/16	79.6
32	31 6/16	18.2	**67**	66 3/16	40.4	**102**	101	62.0	**137**	–	–
33	32 14/16	18.9	**68**	67 11/16	41.0	**103**	102 9/16	63.2	**138**	137 6/16	80.3
34	–	–	**69**	–	–	**104**	–	–	**139**	138 14/16	80.6
35	34 6/16	20.1	**70**	69 4/16	42.3	**105**	104 1/16	63.8	**140**	–	–
36	35 15/16	20.7	**71**	70 12/16	42.9	**106**	105 9/16	65.0	**141**	140 6/16	81.3
37	–	–	**72**	–	–	**107**	–	–	**142**	141 14/16	81.7
38	37 7/16	22.0	**73**	72 4/16	44.2	**108**	107 1/16	65.6	**143**	–	–
39	38 15/16	22.6	**74**	73 12/16	44.9	**109**	108 9/16	66.8	**144**	143 7/16	82.4
40	–	–	**75**	–	–	**110**	–	–			
41	40 7/16	23.9	**76**	75 4/16	46.1	**111**	110 2/16	67.4			
42	41 15/16	24.5	**77**	76 13/16	46.7	**112**	111 10/16	68.5			
43	–	–	**78**	–	–	**113**	–	–			
44	43 8/16	25.7	**79**	78 5/16	48.0	**114**	113 2/16	69.6			
45	45	26.4	**80**	79 13/16	48.6	**115**	114 10/16	70.1			
46	–	–	**81**	–	–	**116**	–	–			

Voltage Drop Calculator

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

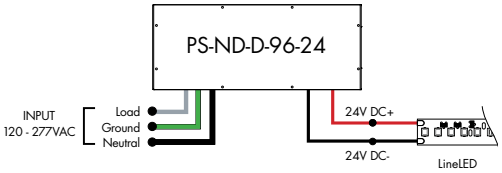
Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	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

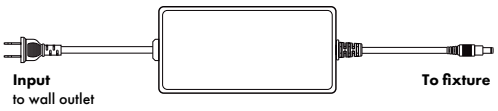
MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	ND - Non Dimming	D - Dry	96 - 96 Watts	24 - 24 VDC



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



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"