LINIO NEON 1228X SV

Horizontal Bending · Static White

Features

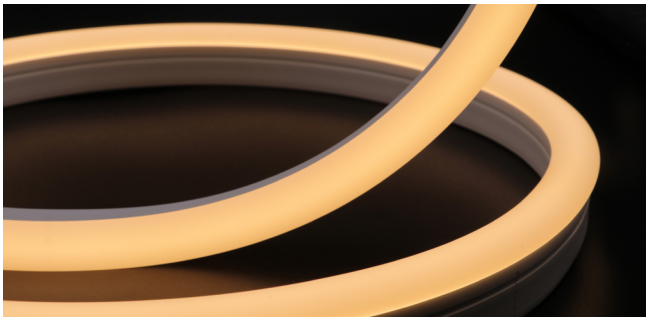
- Dome top design, eye-catching from three viewing angles
- IP68 rated, ideal for outdoor uses, not for underwater project
- 5 years warranty

Date | Fixture type

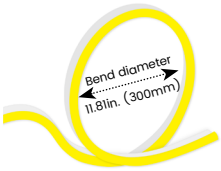
Project name | Project phase

Applications

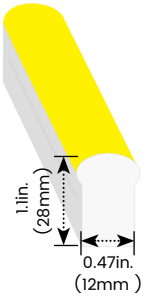
Museums, malls, amusement parks, restaurants, resorts, etc.

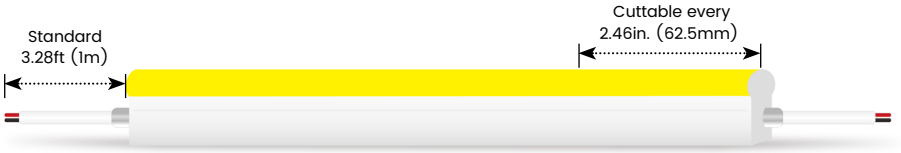


Bending Directions & Diameters



Dimensions





Order Code

Model	Environment	Voltage	CCT	Power	End Cap
LN1228XSV	**W8**-Wet (IP68)	**24V**-DC24V	**22K**-2200K **27K**-2700K **30K**-3000K **35K**-3500K **40K**-4000K **53K**-5300K	**2.9**-2.93W/ft **4.6**-4.57W/ft	**FT** Flush Translucent **FO** Flush Opaque

Assembly Builder

Left Feed Entry			
F	Front	**OW**	Open wire 3.28ft (1m)
B	Bottom	**OA**	Open Wire with Anti-Wicking Ferrule
S	Side	**MC**	Male connector with 11.81in. (300mm) cable
C	Closed	**FC**	Female connector with 11.81in. (300mm)cable
		NA	Only for Closed Feed Entry

Assembly Builder

Right Feed Entry				Length	
F	Front	**OW**	Open wire 3.28ft (1m)	**Max. nominal**	32.8ft (10m)
B	Bottom	**OA**	Open Wire with Anti-Wicking Ferrule	*For 2.93W/ft	
S	Side	**MC**	Male connector with 11.81in. (300mm) cable	**Max. nominal**	16.4ft (5m)
C	Closed	**FC**	Female connector with 11.81in. (300mm)cable	*For 4.57W/ft	
		NA	Only for Closed Feed Entry	**Increment**	2.46in. (62.5mm)

*We will list the nearest actual manufacturing length on the quotation, based on your requested length.

Mounting Order Code

Product Code
Please select on the Mounting Options page

LINIO NEON 1228X SV

Horizontal Bending · Static White

Lumen Output (lm/ft)

CCT	2.93W/ft	4.57W/ft
2200K	114	168
2700K	133	195
3000K	142	208
3500K	144	211
4000K	146	215
5300K	143	210
Max. Run for Class 2	27.3ft (8.3m)	16.4ft (5m)
Max. Run Supported Length	32.8ft (10m)	16.4ft (5m)

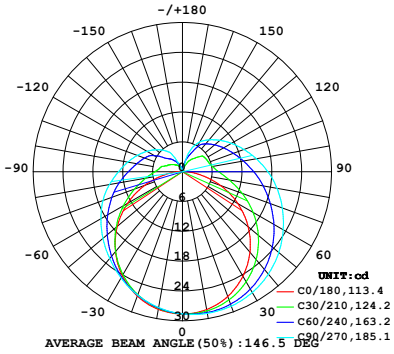
*Typically installations in USA and Canada comply with Class 2 requirements

Techinical Details

Efficacy	48lm/W @3000K 2.93W
CRI	Ra≥90
LED MacAdam	2 steps
IK Rating	IK10 (with aluminium profile)
Average Life (L80B10)	>54,000 hours
Storage Temperature	-40°F ~ 149°F(-40°C~ 65°C)
Operating Temperature	-40°F ~ 149°F(-40°C~ 65°C)

Photometry

LN1228XSV-W8-24V-30K-2.9-FT-F-OW-F-OW
LINIO NEON 1228X SV, Horizontal bend, 3000K, 2.93W/ft

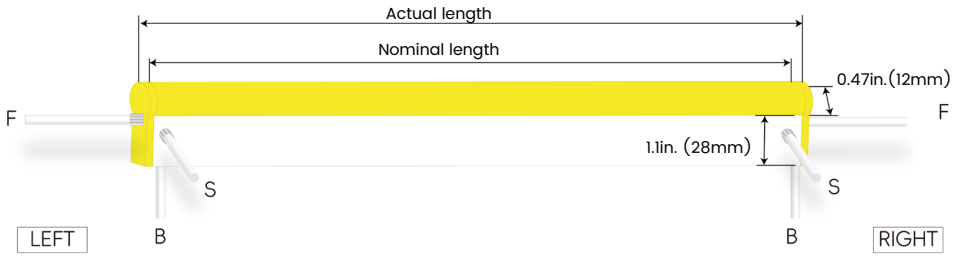


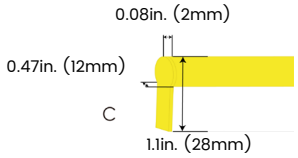
Zonal Lumen Summary

Zone	Lumen	% Fixture
0-30	22.7	15.7%
0-40	37.9	26.1%
0-60	71.3	49.3%
0-90	111.3	76.8%
0-180	144.8	100.0%

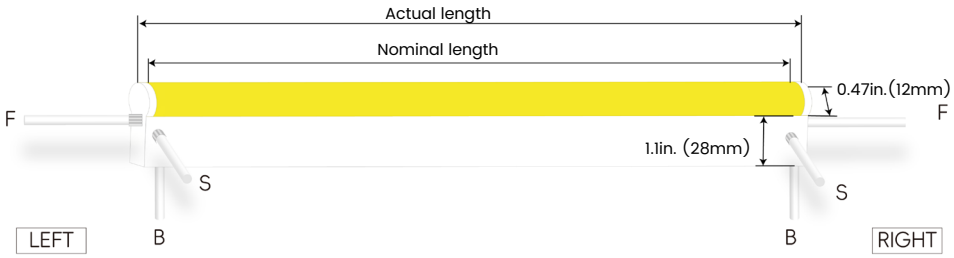
Feed Entry / End Cap Options

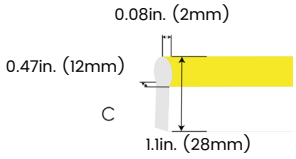
FT: Flush Translucent – IP68, factory-made only



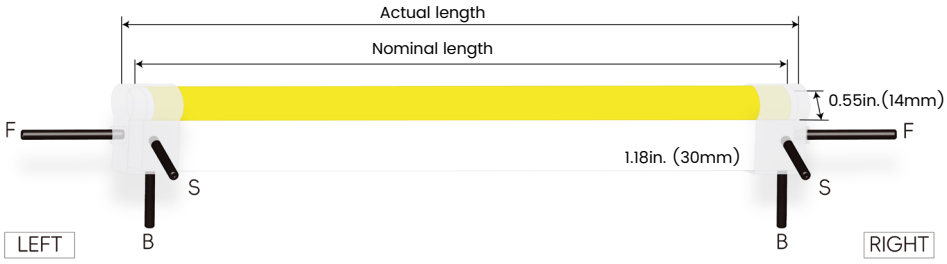


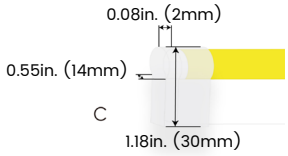
FO: Flush Opaque – IP68, factory-made only





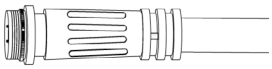
Silicone end cap – IP67, for field cuttable only



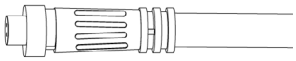


Connector Wire Options

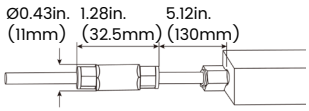
OW: Open wire, **Dry only**
Standard 3.28ft (1m),20 AWG,
wire length customizable



MC: Male connector, **Wet**
Standard 11.81in. (300mm), 20 AWG

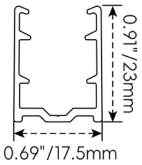


FC: Female connector, **Wet**
Standard 11.81in. (300mm), 20 AWG



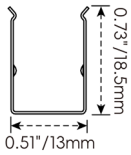
OA: Open Wire with **Anti-Wicking Ferrule, Wet**
Standard 3.28ft (1m),20 AWG,
Protects against water ingress through the power cable

Mounting Options



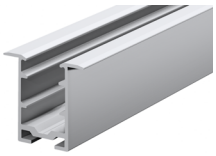
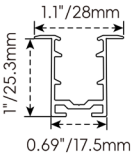
NF1228-SC

Name	Straight surface channel
Material	Aluminum
Standard Length	3.28ft (1m)



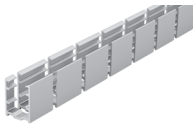
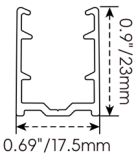
NF1228-BC

Name	Bendable surface channel
Material	Stainless Steel
Standard Length	3.28ft (1m)
Min. Bending Radius	5.91in. (150mm)
*Not suitable for upside-down installation	

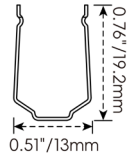
NF1228-RC

Name	Straight recessed channel
Material	Aluminum
Standard Length	3.28ft (1m)

NF1228-BCA

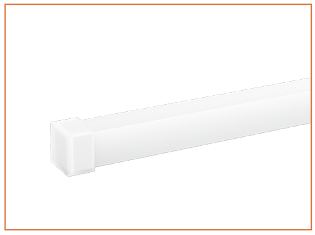
Name	Bendable surface channel
Material	Aluminum
Standard Length	3.28ft (1m)
Min. Bending Radius	5.91in. (150mm)



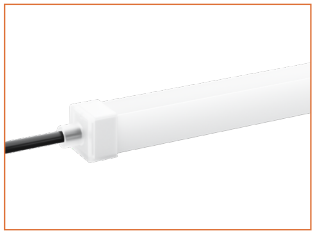
NF1228-CL

Name	Mounting clip
Material	Stainless Steel
Standard Length	0.79in. (20mm)
*Not suitable for upside-down installation	

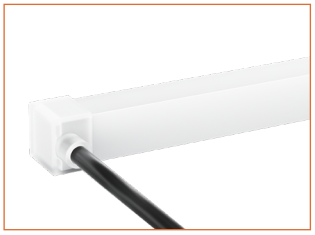
Silicone End Caps (Optional, purchase for extra)



NF1228-SEC-C
Silicone closed end cap



NF1228-SEC-F-2P
Silicone end cap front entry with 11.81in. (300mm) cable, 2 pin



NF1228-SEC-S-2P
Silicone end cap side entry with 11.81in. (300mm) cable, 2 pin

NF1228-SEC-B-2P
Silicone end cap bottom entry with 11.81in. (300mm) cable, 2 pin

Additional Accessories (Optional, purchase for extra)

MCW-2P-67
Male connector,
11.81in. (300mm) white cable,
2 pin, IP67, Wet, 20 AWG

FCW-2P-67
Female connector,
11.81in. (300mm) white cable,
2 pin, IP67, Wet, 20 AWG

MCB-2P-67
Male connector,
11.81in. (300mm) black cable,
2 pin, IP67, Wet, 20 AWG

FCB-2P-67
Female connector,
11.81in. (300mm) black cable,
2 pin, IP67, Wet, 20 AWG

ADJS
1 Adjustable Angle Scissors Set,
with 4 Spare Blades

LINIO NEON 1228X SV

Horizontal Bending · Static White

Drivers

Non-dimmable

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KV-24030-ASW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (155 x 54 x 20mm)
KV-24060-ASW	60W	100-277VAC	24V	Yes	No	Dry/Damp	7 x 2.4 x 0.9in. (178 x 61 x 24mm)
KV-24096-ASW	96W	100-277VAC	24V	Yes	No	Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (230 x 70 x 43mm)

Phase cut/Triac-dimmable

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KVF-24030-TDW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (155 x 54 x 20mm)
KVF-24060-TDW	60W	100-277VAC	24V	Yes	No	Dry/Damp	7 x 2.4 x 0.9in. (178 x 61 x 24mm)
KVF-24096-TDW	96W	100-277VAC	24V	Yes	No	Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (230 x 70 x 43mm)
KVF-24030-TDWJ	30W	100-277VAC	24V	Yes	Yes	Dry/Damp	6.5 x 3.6 x 1in. (165 x 92 x 26mm)
KVF-24060-TDWJ	60W	100-277VAC	24V	Yes	Yes	Dry/Damp	7.4 x 3.6 x 1in. (188 x 92 x 26mm)
KVF-24096-TDWJ	96W	100-277VAC	24V	Yes	Yes	Dry/Damp	8.7 x 3.7 x 1.6in. (220 x 93 x 41mm)
KVF-24192-TDWJ	192W (96Wx2)	100-277VAC	24V	Yes	Yes	Dry/Damp	10.9 x 4.3 x 1.8in. (278 x 110 x 45mm)
KVF-24288-TDWJ	288W (96Wx3)	100-277VAC	24V	Yes	Yes	Dry/Damp	11.9 x 4.3 x 1.8in. (301 x 110 x 45mm)
KVF-24384-TDWJ	384W (96Wx4)	100-277VAC	24V	Yes	Yes	Dry/Damp	12.7 x 5.5 x 1.9in. (323 x 140 x 48mm)

4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)

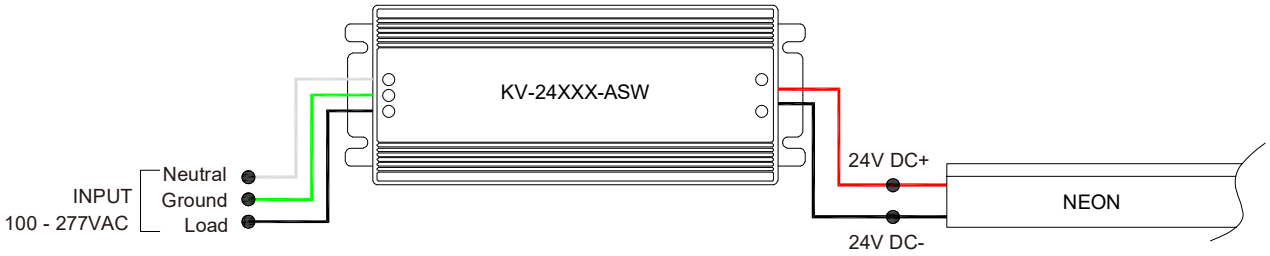
Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KVD-24030-DIM	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (155 x 54 x 20mm)
KVD-24060-DIM	60W	100-277VAC	24V	Yes	No	Dry/Damp	7 x 2.4 x 0.9in. (178 x 61 x 24mm)
KVD-24096-DIM	96W	100-277VAC	24V	Yes	No	Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (230 x 70 x 43mm)
KVD-24030-DIMJ	30W	100-277VAC	24V	Yes	Yes	Dry/Damp	6.5 x 3.6 x 1in. (165 x 92 x 26mm)
KVD-24060-DIMJ	60W	100-277VAC	24V	Yes	Yes	Dry/Damp	7.4 x 3.6 x 1in. (188 x 92 x 26mm)
KVD-24096-DIMJ	96W	100-277VAC	24V	Yes	Yes	Dry/Damp	8.7 x 3.7 x 1.6in. (220 x 93 x 41mm)
KVD-24192-DIMJ	192W (96Wx2)	100-277VAC	24V	Yes	Yes	Dry/Damp	10.9 x 4.3 x 1.8in. (278 x 110 x 45mm)
KVD-24288-DIMJ	288W (96Wx3)	100-277VAC	24V	Yes	Yes	Dry/Damp	11.9 x 4.3 x 1.8in. (301 x 110 x 45mm)
KVD-24384-DIMJ	384W (96Wx4)	100-277VAC	24V	Yes	Yes	Dry/Damp	12.7 x 5.5 x 1.9in. (323 x 140 x 48mm)

5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KVG-24030-DW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (155 x 54 x 20mm)
KVG-24060-DW	60W	100-277VAC	24V	Yes	No	Dry/Damp	7 x 2.4 x 0.9in. (178 x 61 x 24mm)
KVG-24096-DW	96W	100-277VAC	24V	Yes	No	Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (230 x 70 x 43mm)
KVG-24030-DWJ	30W	100-277VAC	24V	Yes	Yes	Dry/Damp	6.5 x 3.7 x 1.6in. (165 x 95 x 40mm)
KVG-24060-DWJ	60W	100-277VAC	24V	Yes	Yes	Dry/Damp	7.4 x 3.7 x 1.6in. (188 x 95 x 40mm)
KVG-24096-DWJ	96W	100-277VAC	24V	Yes	Yes	Dry/Damp	8.7 x 3.7 x 1.6in. (220 x 95 x 40mm)
KVG-C24192-DWJ	192W (96Wx2)	100-277VAC	24V	Yes	Yes	Dry/Damp	10.9 x 4.3 x 1.8in. (278 x 110 x 45mm)
KVG-C24288-DWJ	288W (96Wx3)	100-277VAC	24V	Yes	Yes	Dry/Damp	11.9 x 4.3 x 1.8in. (301 x 110 x 45mm)
KVG-C24384-DWJ	384W (96Wx4)	100-277VAC	24V	Yes	Yes	Dry/Damp	12.8 x 5.5 x 1.9in. (325 x 140 x 48mm)

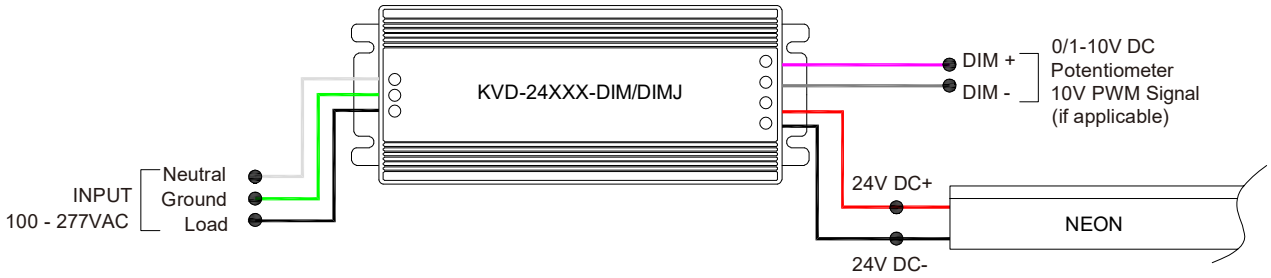
Wiring Diagram

Non-dimmable



Phase cut/Triac-dimmable

4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)



5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)

LINIO NEON 1228X SV

Horizontal Bending · Static White

24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	8AWG	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
10W / 0.4A	1588ft (484.0m)	999ft (304.5m)	628ft (191.4m)	395ft (120.4m)	248ft (75.5m)	156ft (47.5m)	98ft (29.8m)	61ft (18.5m)
20W / 0.8A	794ft (242.0m)	499ft (152.1m)	314ft (95.7m)	197ft (60.0m)	124ft (37.8m)	78ft (23.7m)	49ft (14.9m)	30ft (9.1m)
30W / 1.3A	529ft (161.2m)	333ft (101.5m)	209ft (63.7m)	131ft (39.9m)	82ft (24.9m)	52ft (15.8m)	32ft (9.7m)	20ft (6.1m)
40W / 1.7A	397ft (121.0m)	249ft (75.9m)	157ft (47.8m)	98ft (29.8m)	62ft (18.9m)	39ft (11.8m)	24ft (7.3m)	15ft (4.5m)
50W / 2.1A	317ft (96.6m)	199ft (60.6m)	125ft (38.1m)	79ft (24.0m)	49ft (14.9m)	31ft (9.4m)	19ft (5.7m)	12ft (3.6m)
60W / 2.5A	264ft (80.4m)	166ft (50.6m)	104ft (31.7m)	65ft (19.8m)	41ft (12.5m)	26ft (7.9m)	16ft (4.8m)	10ft (3.0m)
70W / 2.9A	226ft (68.8m)	142ft (43.2m)	89ft (27.1m)	56ft (17.0m)	35ft (10.6m)	22ft (6.7m)	14ft (4.2m)	8ft (2.4m)
80W / 3.3A	198ft (60.3m)	124ft (37.8m)	78ft (23.7m)	49ft (14.9m)	31ft (9.4m)	19ft (5.7m)	12ft (3.6m)	7ft (2.1m)
90W / 3.8A	176ft (53.6m)	111ft (33.8m)	69ft (21.0m)	43ft (13.1m)	27ft (8.2m)	17ft (5.1m)	10ft (3.0m)	6ft (1.8m)
100W / 4.2A	158ft (48.1m)	99ft (30.1m)	62ft (18.9m)	39ft (11.8m)	24ft (7.3m)	15ft (4.5m)	9ft (2.7m)	6ft (1.8m)
110W / 4.6A	144ft (43.8m)	90ft (27.4m)	57ft (17.3m)	35ft (10.6m)	22ft (6.7m)	14ft (4.2m)	9ft (2.7m)	5ft (1.5m)
120W / 5.0A	132ft (40.2m)	83ft (25.3m)	52ft (15.8m)	32ft (9.7m)	20ft (6.1m)	13ft (3.9m)	8ft (2.4m)	5ft (1.5m)
130W / 5.4A	122ft (37.1m)	76ft (23.1m)	48ft (14.6m)	30ft (9.1m)	19ft (5.7m)	12ft (3.6m)	7ft (2.1m)	4ft (1.2m)
140W / 5.8A	113ft (34.4m)	71ft (21.6m)	44ft (13.4m)	28ft (8.5m)	17ft (5.1m)	11ft (3.3m)	7ft (2.1m)	4ft (1.2m)
150W / 6.3A	105ft (32.0m)	66ft (20.1m)	41ft (12.5m)	26ft (7.9m)	16ft (4.8m)	10ft (3.0m)	6ft (1.8m)	4ft (1.2m)
160W / 6.7A	99ft (30.1m)	62ft (18.9m)	39ft (11.8m)	24ft (7.3m)	15ft (4.5m)	9ft (2.7m)	6ft (1.8m)	3ft (0.9m)
170W / 7.1A	93ft (28.3m)	58ft (17.6m)	36ft (10.9m)	23ft (7.0m)	14ft (4.2m)	9ft (2.7m)	5ft (1.5m)	3ft (0.9m)
180W / 7.5A	88ft (26.8m)	55ft (16.7m)	34ft (10.3m)	22ft (6.7m)	13ft (3.9m)	8ft (2.4m)	5ft (1.5m)	3ft (0.9m)
190W / 7.9A	83ft (25.3m)	52ft (15.8m)	33ft (10.0m)	20ft (6.0m)	13ft (3.9m)	8ft (2.4m)	5ft (1.5m)	3ft (0.9m)
200W / 8.3A	79ft (24.0m)	49ft (14.9m)	31ft (9.4m)	19ft (5.7m)	12ft (3.6m)	7ft (2.1m)	4ft (1.2m)	3ft (0.9m)
210W / 8.8A	75ft (22.8m)	47ft (14.3m)	29ft (8.8m)	18ft (5.4m)	11ft (3.3m)	7ft (2.1m)	4ft (1.2m)	2ft (0.6m)
220W / 9.2A	72ft (21.9m)	45ft (13.7m)	28ft (8.5m)	18ft (5.4m)	11ft (3.3m)	7ft (2.1m)	4ft (1.2m)	2ft (0.6m)
230W / 9.6A	69ft (21.0m)	43ft (13.1m)	27ft (8.2m)	17ft (5.1m)	10ft (3.0m)	6ft (1.8m)	4ft (1.2m)	2ft (0.6m)
240W / 10.0A	66ft (20.1m)	41ft (12.5m)	26ft (7.9m)	16ft (4.8m)	10ft (3.0m)	6ft (1.8m)	4ft (1.2m)	2ft (0.6m)
250W / 10.4A	63ft (19.2m)	40ft (12.1m)	25ft (7.6m)	15ft (4.5m)	9ft (2.7m)	6ft (1.8m)	3ft (0.9m)	2ft (0.6m)