FORTE 3D LARGE RGBW

Outdoor · 3D Bending · RGBW

Features

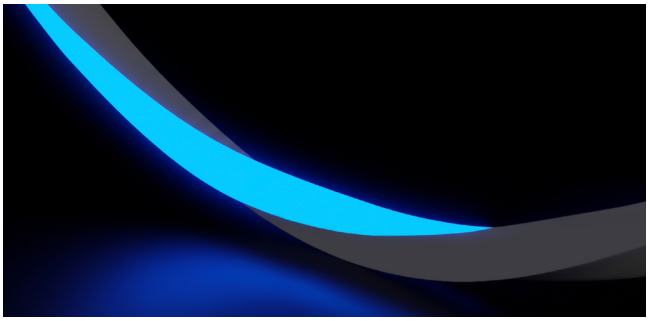
- Robust & uniform silicone body with changeable RGBW colors
- Multi-directional bending design for flexible installations
- IP68 rated, ideal for outdoor uses, not for underwater project
- 3 years warranty

Date | Fixture type

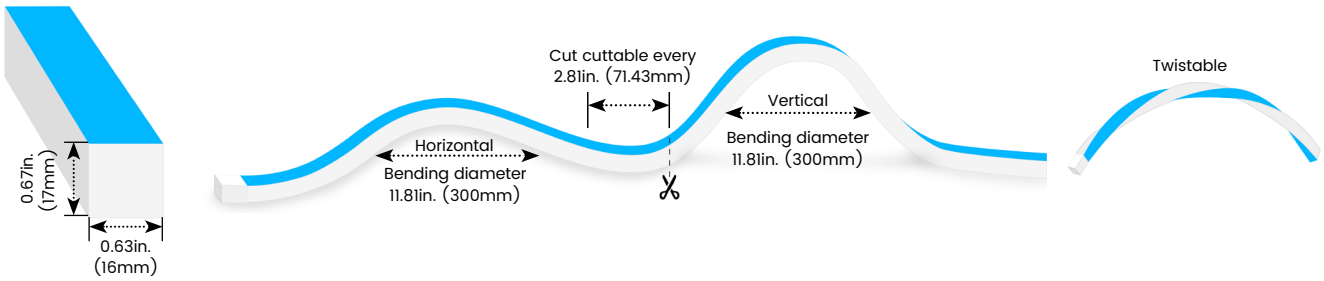
Project name | Project phase

Applications

Architectural facades, building contours, landscape accents, bridges, walkways, transit hubs, staircases, and outdoor feature walls, etc.



Bending Directions & Diameters



Order Code

Model	Environment	Voltage	CCT	Power	End Cap
F3DL	**W8**-Wet (IP68)	**24V**-DC24V	**RGBW27K**-RGBW2700K **RGBW30K**-RGBW3000K **RGBW35K**-RGBW3500K **RGBW40K**-RGBW4000K	**4.1**-4.12W/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**	26.2ft (8m)
B	Bottom	**OA** Open Wire with Anti-Wicking Ferrule	**Increment**	2.81in. (71.43mm)
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		

*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

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Lumen Output (lm/ft)

CCT	4.12W/ft
R	9
G	33
B	6
W27K	29
W30K	30
W35K	30
W40K	30
RGBW27K	75
RGBW30K	77
RGBW35K	79
RGBW40K	79
Max. Run for Class 2*	19.4ft (5.9m)
Max. Run Supported Length	26.2ft (8m)

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

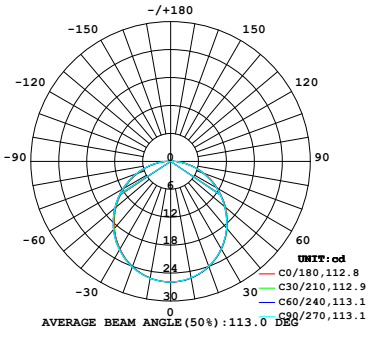
Techinical Details

Efficacy	19lm/W @RGBW30K 4.12W
CRI	Ra≥80
Beam Angle	110°
Average Life (L70B10)	>32,000 hours
Storage Temperature	-40°F~149°F (-40°C~ 65°C)
Operating Temperature	-40°F~149°F (-40°C~ 65°C)

Photometry

F3DL-W8-24V-RGBW30K-4.1-FT-F-OW-F-OW

FORTE 3D LARGE RGBW, 3D Bend, RGBW30K, 4.1W/ft



Zonal Lumen Summary

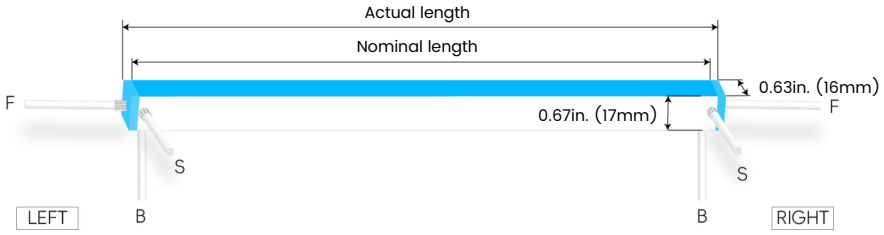
Zone	Lumen	% Fixture
0-30	20.1	25.9%
0-40	32.9	42.5%
0-60	58.2	75.2%
0-90	76.1	98.4%
0-180	77.4	100.0%

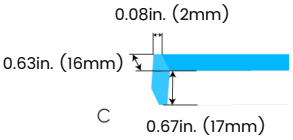
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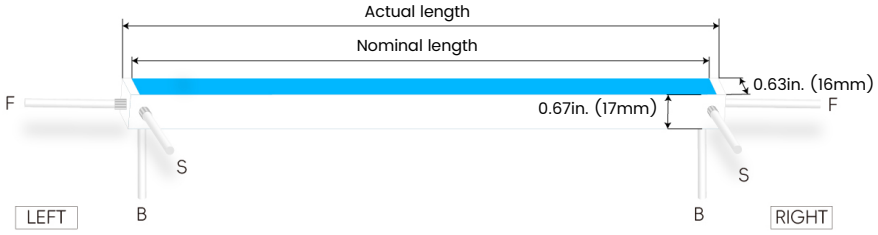
Feed Entry / End Cap Options

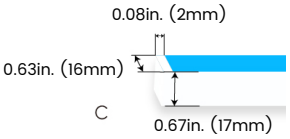
FT: Flush Translucent – IP68, factory-made only



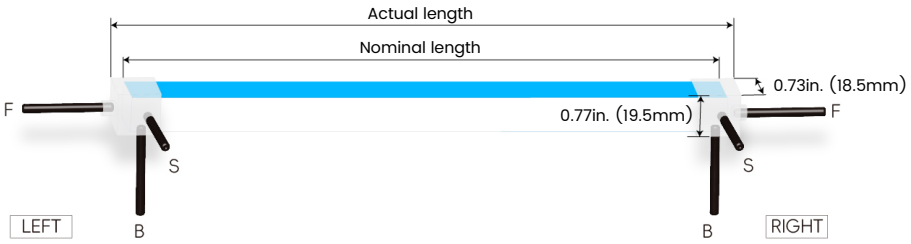


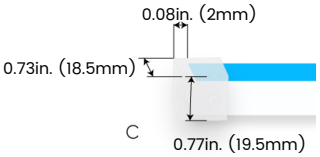
FO: Flush Opaque – IP68, factory-made only



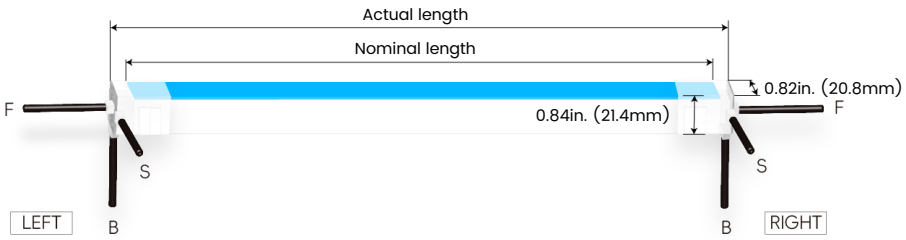


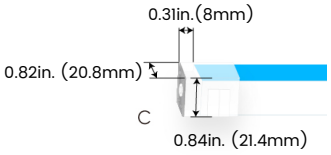
Silicone end cap – IP67, for field cuttable only





Mechanical end cap with screws – IP67, for field cuttable only

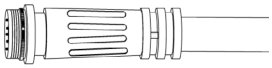




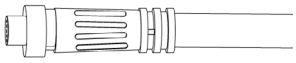
Connector Wire Options



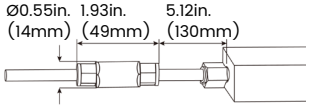
OW: Open wire, **Dry only**
Standard 3.28ft (1m),20 AWG,
wire length customizable



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

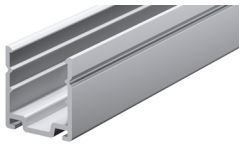
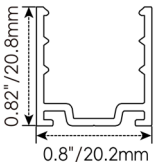


FC: Female connector, **Wet**
Standard 11.81in. (300mm), 20 AWG



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

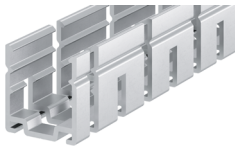
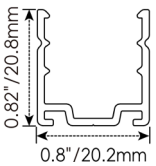
Mounting Options



NF1617-SC

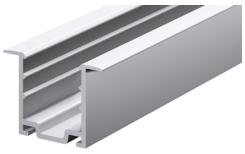
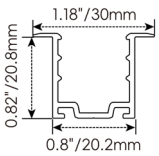
Name	Straight surface channel
Material	Aluminum
Standard Length	3.28ft (1m)




NF1617-BC

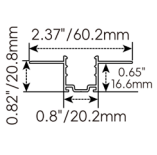
Name	Bendable surface channel
Material	Aluminum
Standard Length	3.28ft (1m)
Min. Bending Radius	11.8in.(300mm)



NF1617-RC

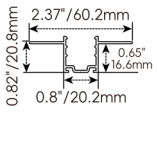
Name	Straight recessed channel
Material	Aluminum
Standard Length	3.28ft (1m)



NF1617-MC

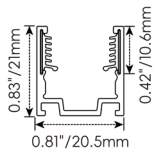
Name	Mud-in channel
Material	Aluminum
Standard Length	3.28ft (1m)




NF1617-BMC

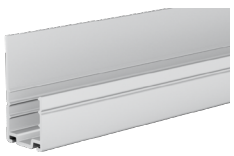
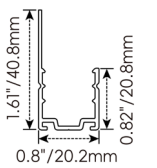
Name	Bendable mud-in channel
Material	Aluminum
Standard Length	3.28ft (1m)
Min. Top Bending Radius	11.8in.(300mm)
Min. Side Bending Radius	31.50in.(800mm)



NF1617-SCS

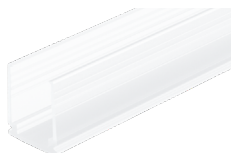
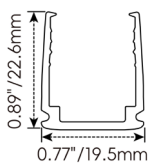
Name	Straight surface channel
Material	Aluminum with silicone groove
Standard Length	3.28ft (1m)



NF1617-LBC

Name	Light-block channel
Material	Aluminum
Standard Length	3.28ft (1m)



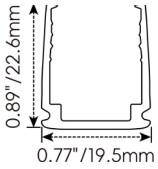
NF1617-PC

Name	PC channel
Material	Polycarbonate
Standard Length	3.28ft (1m)

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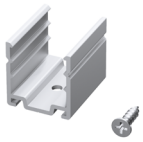
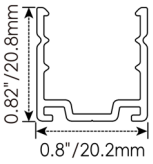
Mounting Options



NF1617-BPC

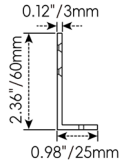
Name	Bendable surface channel
Material	Polycarbonate
Standard Length	3.28ft (1m)
Min. Bending Radius	5.91in. (150mm)



NF1617-CL

Name	Mounting clip
Material	Aluminum
Standard Length	0.98in. (25mm)

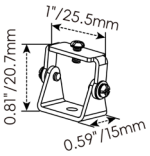






NF1617-LS

Name	L-shaped mounting bracket
Material	Aluminum
Standard Length	0.79in.(20mm)

* NF1617-LS must be installed with NF1617-SC

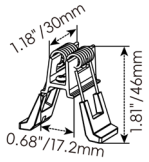



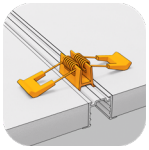



NF1617-AC

Name	Adjustable mounting clip
Material	Stainless steel
Standard Length	1 in. (25.5mm)

* NF1617-AC must be installed with NF1617-SC




NF1617-RC-SPC

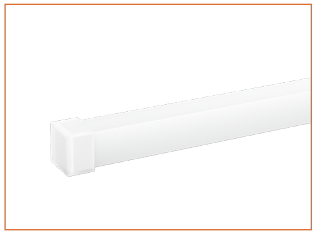
Name	Spring clip
Standard Pkg	1pcs

* NF1617-RC-SPC must be installed with NF1617-RC

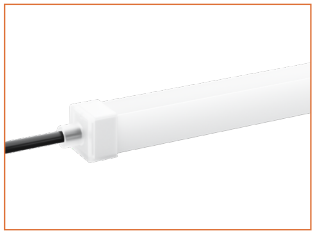
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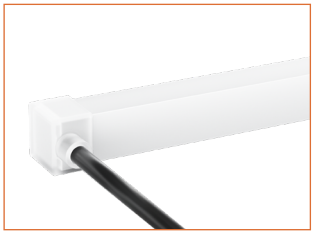
Silicone End Caps (Optional, purchase for extra)



NF1617-SEC-C
Silicone closed end cap



NF1617-SEC-F-5P
Silicone end cap front entry with 11.81in. (300mm) cable, 5 pin



NF1617-SEC-S-5P
Silicone end cap side entry with 11.81in. (300mm) cable, 5 pin



NF1617-SEC-B-5P
Silicone end cap bottom entry with 11.81in. (300mm) cable, 5 pin

Additional Accessories (Optional, purchase for extra)



MCW-5P-67
Male connector,
11.81in. (300mm) white cable,
5 pin, IP67, Wet, 20 AWG



FCW-5P-67
Female connector,
11.81in. (300mm) white cable,
5 pin, IP67, Wet, 20 AWG



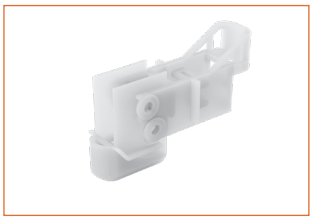
MCB-5P-67
Male connector,
11.81in. (300mm) black cable,
5 pin, IP67, Wet, 20 AWG



FCB-5P-67
Female connector,
11.81in. (300mm) black cable,
5 pin, IP67, Wet, 20 AWG



ADJS
1 Adjustable Angle Scissors Set,
with 4 Spare Blades



NF1617-IT
Installation tool for NF1617-BPC

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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)

DMX-dimmable

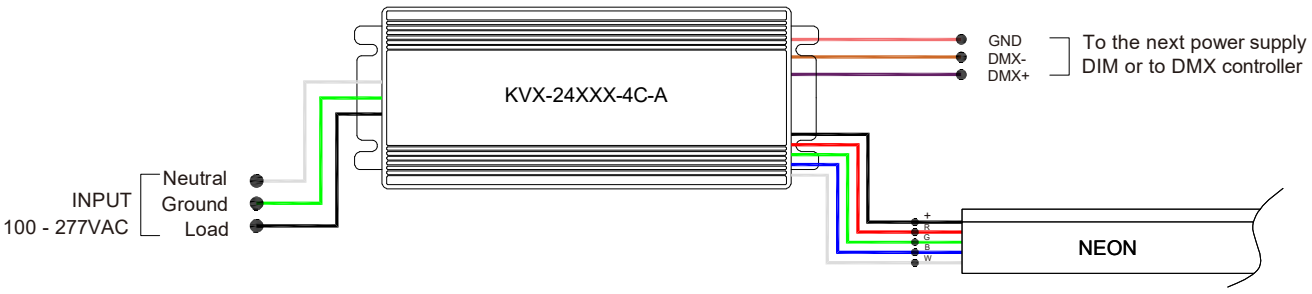
Code	Max Load	Input	Output	Class 2	Environment	Size (L x W x H)
KVX-24100-4C-A	100W	100-277VAC	24V	Yes	Dry/Damp/Wet	9.05 × 3.07 × 0.98 in. (230 × 78 × 25 mm)
KVX-24150-4C-A	150W	100-277VAC	24V	No	Dry/Damp/Wet	10.90 × 3.07 × 0.98 in. (277 × 78 × 25 mm)
KVX-24200-4C-A	200W	100-277VAC	24V	No	Dry/Damp/Wet	10.90 × 3.07 × 0.98 in. (277 × 78 × 25 mm)
KVX-24300-4C-A	300W	100-277VAC	24V	No	Dry/Damp/Wet	11.85 × 3.07 × 0.98 in. (301 × 78 × 25 mm)

DMX-Decoders & Controllers Options

Type	Code	Description	Size (L x W x H)
DMX-Decoders	LT-904	4 channels output, up to 576W output power	4.80 × 4.33 × 1.46 in. (122 × 110 × 37 mm)
DMX-Decoders	LT-916	16 channels output, up to 1152W output power	7.09 × 4.80 × 1.54 in. (180 × 122 × 39 mm)
DMX-Decoders	LT-932	32 channels output, up to 1728W output power	11.81 × 4.80 × 1.54 in. (300 × 122 × 39 mm)
Controllers	DINA-DR micro	DMX 60 channels stand-alone controller with 10 scenes and USB programming	2.05 × 1.14 × 0.94 in. (52 × 29 × 24 mm)
Controllers	SLESA-U9	DMX 256 channels, USB connection, standalone mode with 1 area and 20 scenes	3.03 × 3.43 × 1.57 in. (77 × 87 × 40 mm)
Controllers	STICK-CW4	DMX 1024 channels controller with 36 scenes and 6 touch buttons	4.17 × 5.75 × 0.39 in. (106 × 146 × 10 mm)

Wiring Diagram





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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)