

ARCUS CORE 3D LARGE - COMBO SYSTEM

(Standard Cut + Free Cut Finishing Piece)

3D Bending · Static White

Features

The Arcus Combo System combines standard cut and free cut capabilities to provide precise, made-to-order lengths, utilizing Standard Cuts for the majority of the runs, with Free Cuts reserved only for the finishing segments. This combo usage achieves cost savings of 20 - 40% versus using Free Cuts for the entire length. Both Arcus Standard Cut and Free Cut maintain consistent binning and brightness.

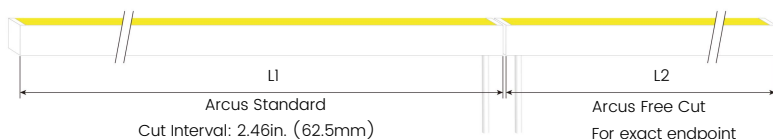
The system is suitable for indoor and outdoor applications, and delivers exceptional performance with a CRI over 90, brightness of up to 310 lm/ft, ensuring robustness and design flexibility.

Applications

Living rooms, TV walls, feature walls, under-cabinet areas, staircases, ceiling coves, hallways, etc.



Combo System



Date

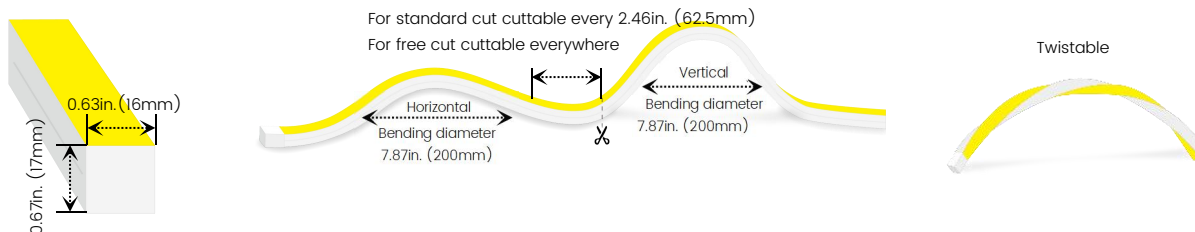
Fixture type

Project name

Project phase



Dimensions



*FT/FO end caps are flush-finished with the strip body.

Order Code

Model	Environment	Voltage	CCT	Power	End Cap	Left Feed Entry
AC3DL	D4-Dry (IP54)	24V-DC24V	22K-2200K	3.0-3.05W/ft	FT Flush translucent	F Front OW Open wire 3.28ft (1m)
AC3DLFC	W7-Wet (IP67)		27K-2700K		FO Flush opaque	B Bottom MC Male connector with 0.98ft (30cm) cable
			30K-3000K			S Side FC Female connector with 0.98ft (30cm) cable
			35K-3500K			C Closed NA Only for Closed Feed Entry
			40K-4000K			

*AC3DLFC: Free Cut delivers precise field-cut lengths for the last segment while keeping in line with standard cut in dimensions, binning, output, and mounting for a uniform appearance.

*Flush translucent and opaque are factory-made only.

Assembly Builder

Assembly Builder

	Right Feed Entry	Length
F Front	OW Open wire 3.28ft (1m)	Max nominal 16.4ft (5m)
B Bottom	MC Male connector with 0.98ft (30cm) cable	Increment 2.46in. (62.5mm)
S Side	FC Female connector with 0.98ft (30cm) cable	* For ARCUS CORE 3D LARGE
C Closed	NA Only for Closed Feed Entry	

*We will manufacture to the requested length considering the increment length.

Mounting Order Code

Product Code
Please select on the Mounting Options page.

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Lumen Output (lm/ft)

Temp./Color	3.05W/ft
■ 2200K	240
■ 2700K	274
■ 3000K	293
■ 3500K	310
■ 4000K	310
Max. Run for Class 2*	16.4ft (5m) ¹ 13.1ft (4m) ²
Max. Run Supported Length	16.4ft (5m) ¹ 13.1ft (4m) ²

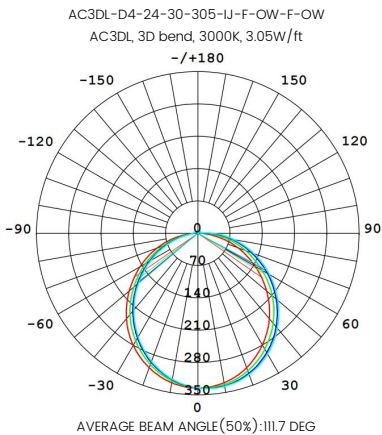
1. Max run for standard cut.

2. Max run for Free cut.

Technical Details

Efficacy	102lm/W @4000K 3.05W
CRI	Ra≥90
Beam Angle	120°
LED MacAdam	3 steps
Average Life(L70)	> 44,000 hours
Storage Temperature	-40~140°F (-40°C~ 60°C)
Operating Temperature	-40~113°F (-40°C~ 45°C)

Photometry



Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0~30	258.7	25.7%
0~40	422.6	42%
0~60	746.2	74.2%
0~90	976.3	97.1%
0~180	1005	100%

UNIT: CD

- C0/180, 110.9
- C30/210, 111.6
- C60/240, 112.1
- C90/270, 112.1

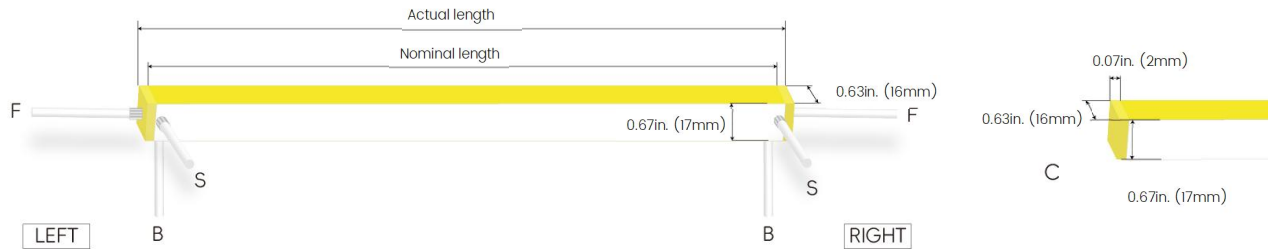
ARCUS CORE 3D LARGE - COMBO SYSTEM

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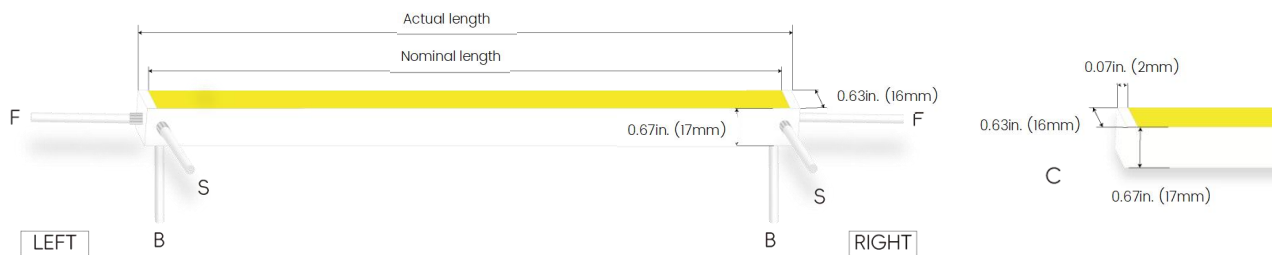
3D Bending · Static White

Feed Entry / End Cap Options

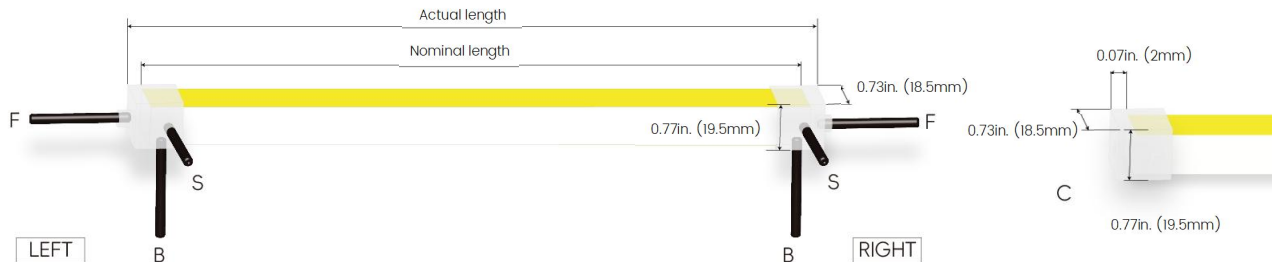
FT: Flush translucent end cap – IP54/IP67, factory-made only



FO: Flush opaque end cap – IP54/IP67, factory-made only



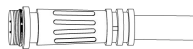
SEC: Silicone end cap – IP54/IP67, order separately



Connector Wire Options



OW: Open wire, **Dry only**
Standard 3.28ft (1m), 18 AWG (wire length customizable)



MC: Male connector, **Wet**
Standard 0.98ft (30cm), 18 AWG



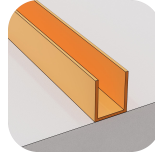
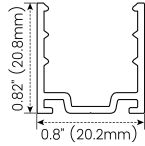
FC: Female connector, **Wet**
Standard 0.98ft (30cm), 18 AWG

ARCUS CORE 3D LARGE - COMBO SYSTEM

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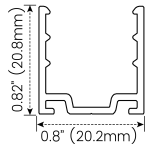
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Mounting Options



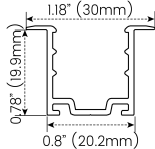
ARCUS-L-SC

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



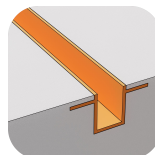
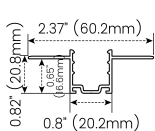
ARCUS-L-BC

Name	Bendable surface channel
Material	Aluminum
Standard Length	3.28ft (1M)
Min. bending radius	23.6in. (600mm)



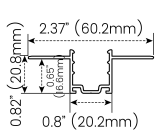
ARCUS-L-RC

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



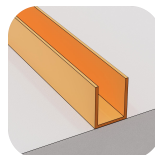
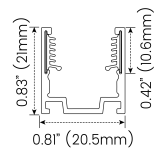
ARCUS-L-MC

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



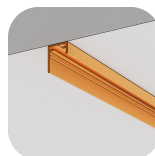
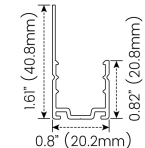
ARCUS-L-BMC

Name	Bendable mud-in channel
Material	Aluminum
Standard Length	3.28ft (1M)
Min. bending radius	23.6in. (600mm)



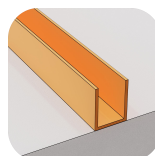
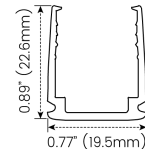
ARCUS-L-SCS

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



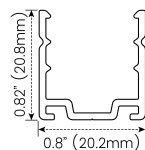
ARCUS-L-LBC

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



ARCUS-L-PC

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



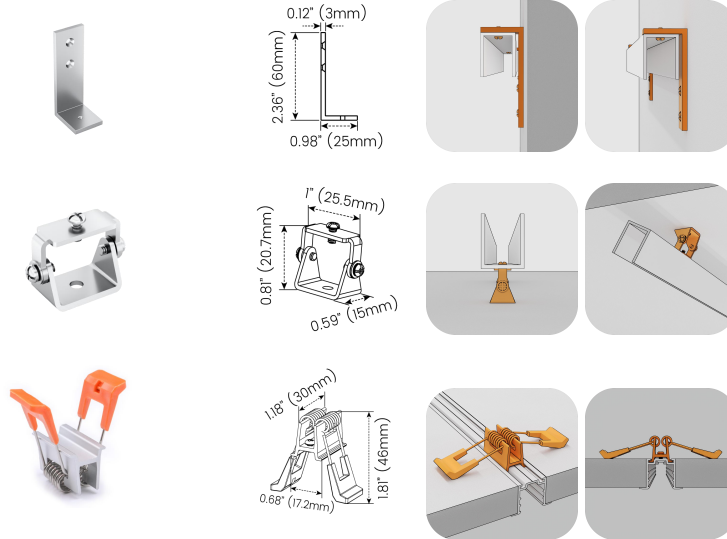
ARCUS-L-CL

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

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ARCUS-L-LS

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

* ARCUS-L-LS can be installed with aluminum channel ARCUS-L-SC.

ARCUS-L-AC

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

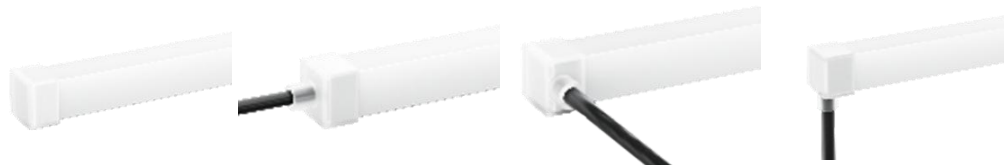
* ARCUS-L-LS can be installed with aluminum channel ARCUS-L-SC.

ARCUS-L-RC-SPC

Name	Spring clip
Standard Pkg	1pcs

* ARCUS-L-RC-SPC must be installed with aluminum channel ARCUS-L-RC.

End Caps (Optional, purchase for extra)



ARCUS-L-SEC-C

Silicone closed end cap

ARCUS-L-SEC-F-2P

Silicone end cap front entry with 0.98ft (30cm) cable, 2 pin

ARCUS-L-SEC-S-2P

Silicone end cap side entry with 0.98ft (30cm) cable, 2 pin

ARCUS-L-SEC-B-2P

Silicone end cap bottom entry with 0.98ft (30cm) cable, 2 pin

Additional Accessories (Optional, purchase for extra)



MCW-2P-67

Male connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 18 AWG

FCW-2P-67

Female connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 18 AWG

MCB-2P-67

Male connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 18 AWG

FCB-2P-67

Female connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 18 AWG

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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. (15.5 x 5.4 x 2cm)
KV-24060-ASW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KV-24096-ASW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)

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. (15.5 x 5.4 x 2cm)
KVF-24060-TDW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KVF-24096-TDW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)
KVF-24030-TDWJ	30W				Yes	Dry/Damp	6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)
KVF-24060-TDWJ	60W						7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)
KVF-24096-TDWJ	96W						8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)
KVF-24192-TDWJ	192W (96Wx2)						10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVF-24288-TDWJ	288W (96Wx3)						11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVF-24384-TDWJ	384W (96Wx4)						12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm)

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. (15.5 x 5.4 x 2cm)
KVD-24060-DIM	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KVD-24096-DIM	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)
KVD-24030-DIMJ	30W				Yes	Dry/Damp	6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)
KVD-24060-DIMJ	60W						7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)
KVD-24096-DIMJ	96W						8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)
KVD-24192-DIMJ	192W (96Wx2)						10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVD-24288-DIMJ	288W (96Wx3)						11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVD-24384-DIMJ	384W (96Wx4)						12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm)

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. (15.5 x 5.4 x 2cm)
KVG-24060-DW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KVG-24096-DW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)
KVG-24030-DWJ	30W				Yes	Dry/Damp	6.5 x 3.7 x 1.6in. (16.5 x 9.5 x 4cm)
KVG-24060-DWJ	60W						7.4 x 3.7 x 1.6in. (18.8 x 9.5 x 4cm)
KVG-24096-DWJ	96W						8.7 x 3.7 x 1.6in. (22 x 9.5 x 4cm)
KVG-C24192-DWJ	192W (96Wx2)						10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVG-C24288-DWJ	288W (96Wx3)						11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVG-C24384-DWJ	384W (96Wx4)						12.8 x 5.5 x 1.9in. (32.5 x 14 x 4.8cm)

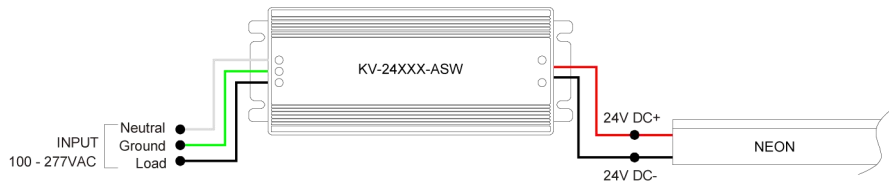
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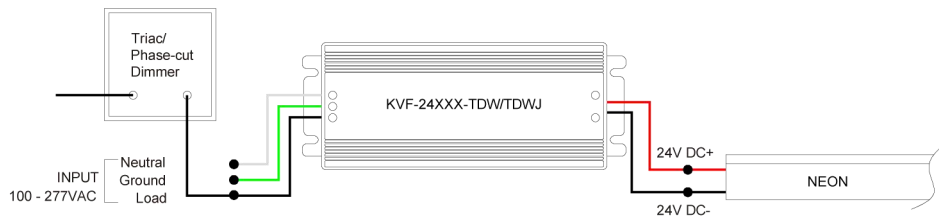
(Standard Cut + Free Cut Finishing Piece)

Wiring Diagram

Non-dimmable



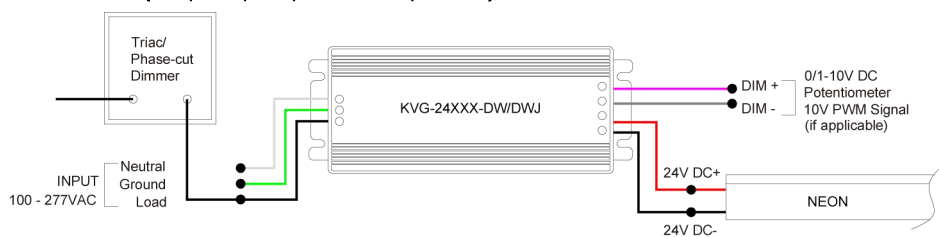
Phase cut/Triac-dimmable



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



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



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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	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG
5W / 0.2A	1730 ft (527.3 m)	784 ft (238.9 m)	397 ft (121.0 m)	263 ft (80.2 m)	175 ft (53.3 m)	131 ft (39.9 m)	107 ft (32.6 m)
10W / 0.4A	865 ft (263.6 m)	392 ft (119.4 m)	199 ft (60.7 m)	132 ft (40.2 m)	88 ft (26.8 m)	66 ft (20.1 m)	54 ft (16.5 m)
15W / 0.6A	577 ft (175.9 m)	261 ft (79.6 m)	132 ft (40.2 m)	88 ft (26.8 m)	58 ft (17.7 m)	44 ft (13.4 m)	36 ft (11.0 m)
20W / 0.8A	433 ft (132.0 m)	196 ft (59.7 m)	99 ft (30.2 m)	66 ft (20.1 m)	44 ft (13.4 m)	33 ft (10.1 m)	27 ft (8.2 m)
25W / 1.0A	346 ft (105.5 m)	157 ft (47.9 m)	79 ft (24.1 m)	53 ft (16.2 m)	35 ft (10.7 m)	26 ft (7.9 m)	22 ft (6.7 m)
30W / 1.3A	289 ft (88.1 m)	131 ft (39.9 m)	66 ft (20.1 m)	44 ft (13.4 m)	29 ft (8.8 m)	22 ft (6.7 m)	18 ft (5.5 m)
35W / 1.5A	248 ft (75.6 m)	112 ft (34.1 m)	57 ft (17.4 m)	38 ft (11.6 m)	25 ft (7.6 m)	19 ft (5.8 m)	15 ft (4.6 m)
40W / 1.7A	217 ft (66.1 m)	98 ft (29.9 m)	50 ft (15.2 m)	33 ft (10.1 m)	22 ft (6.7 m)	16 ft (4.9 m)	13 ft (4.0 m)
45W / 1.9A	192 ft (58.5 m)	87 ft (26.5 m)	44 ft (13.4 m)	29 ft (8.8 m)	19 ft (5.8 m)	14 ft (4.3 m)	12 ft (3.7 m)
50W / 2.1A	173 ft (52.7 m)	78 ft (23.8 m)	40 ft (12.2 m)	26 ft (7.9 m)	18 ft (5.5 m)	13 ft (4.0 m)	11 ft (3.4 m)
55W / 2.3A	157 ft (47.9 m)	71 ft (21.6 m)	36 ft (11.0 m)	24 ft (7.3 m)	16 ft (4.9 m)	12 ft (3.7 m)	10 ft (3.0 m)
60W / 2.5A	144 ft (43.9 m)	65 ft (19.8 m)	33 ft (10.1 m)	22 ft (6.7 m)	15 ft (4.6 m)	11 ft (3.4 m)	9 ft (2.7 m)
65W / 2.7A	133 ft (40.5 m)	60 ft (18.3 m)	30 ft (9.1 m)	20 ft (6.1 m)	14 ft (4.3 m)	10 ft (3.0 m)	8 ft (2.4 m)
70W / 2.9A	124 ft (37.8 m)	56 ft (17.1 m)	28 ft (8.5 m)	19 ft (5.8 m)	13 ft (4.0 m)	10 ft (3.0 m)	8 ft (2.4 m)
75W / 3.1A	116 ft (35.4 m)	52 ft (15.9 m)	26 ft (7.9 m)	17 ft (5.2 m)	12 ft (3.7 m)	9 ft (2.7 m)	7 ft (2.1 m)
80W / 3.3A	109 ft (33.2 m)	49 ft (14.9 m)	25 ft (7.6 m)	16 ft (4.9 m)	11 ft (3.4 m)	8 ft (2.4 m)	7 ft (2.1 m)
85W / 3.5A	103 ft (31.4 m)	46 ft (14.0 m)	23 ft (7.0 m)	15 ft (4.6 m)	10 ft (3.0 m)	8 ft (2.4 m)	6 ft (1.8 m)
90W / 3.8A	97 ft (29.6 m)	44 ft (13.4 m)	22 ft (6.7 m)	15 ft (4.6 m)	10 ft (3.0 m)	7 ft (2.1 m)	6 ft (1.8 m)
96W / 4.0A	91 ft (27.7 m)	41 ft (12.5 m)	21 ft (6.4 m)	14 ft (4.3 m)	9 ft (2.7 m)	7 ft (2.1 m)	6 ft (1.8 m)