

## ARCUS CORE 3D MEDIUM

Indoor · Dual Bending · Static White

## Features

- True 3D design, no curling or distortion, clean finish, delivering up to 268 lm/ft with stable output
- IP54 rated, ideal for indoor uses
- 5 years warranty

## Applications

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

Date

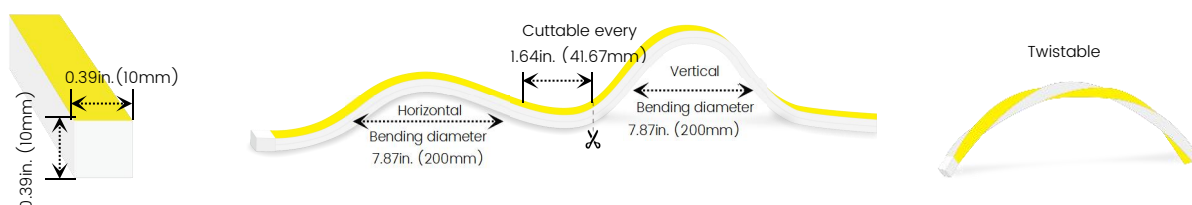
Fixture type

Project name

Project phase



## Dimensions



## Order Code

| Model | Environment   | Voltage  | CCT                                                                  | Power        | End Cap                                                                | Left Feed Entry                                                                                                                                                                          |
|-------|---------------|----------|----------------------------------------------------------------------|--------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC3DM | D4-Dry (IP54) | 24-DC24V | 22-2200K<br>27-2700K<br>30-3000K<br>35-3500K<br>40-4000K<br>53-5300K | 305-3.05W/ft | IJ Injected (IP54)<br>IJC Clear injected (IP54)<br>SEC Silicone (IP54) | F Front OW Open wire 3.28ft (1m)<br>B Bottom MC Male connector with 0.98ft (30cm) cable<br>S Side FC Female connector with 0.98ft (30cm) cable<br>C Closed NA Only for Closed Feed Entry |

\*Injected and clear injected end cap are factory-made only.

## Assembly Builder

## Assembly Builder

| Right Feed Entry                                                                                                                                                                         | Length                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| F Front OW Open wire 3.28ft (1m)<br>B Bottom MC Male connector with 0.98ft (30cm) cable<br>S Side FC Female connector with 0.98ft (30cm) cable<br>C Closed NA Only for Closed Feed Entry | Max. nominal 16.4ft (5m)<br>Increment 1.64in. (41.67mm) |

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

## Mounting Order Code

| Product Code |
|--------------|
|--------------|

Please select on the Mounting Options page.

## Lumen Output (lm/ft)

| Temp./Color           | 3.05W/ft    |
|-----------------------|-------------|
| 2200K                 | 210         |
| 2700K                 | 244         |
| 3000K                 | 256         |
| 3500K                 | 268         |
| 4000K                 | 268         |
| 5300K                 | 268         |
| Max. Run for Class 2* | 16.4ft (5m) |

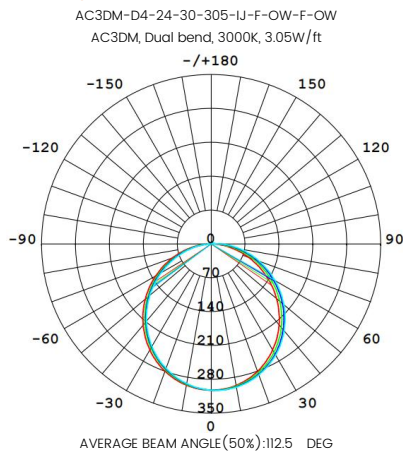
## Technical Details

|                       |                         |
|-----------------------|-------------------------|
| Efficacy              | 87.8lm/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) |

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## Photometry



Zonal Lumen Summary 3000K

| Zone  | Lumen | % Fixture |
|-------|-------|-----------|
| 0-30  | 234.1 | 26.1%     |
| 0-40  | 383.0 | 42.7%     |
| 0-60  | 677.6 | 75.5%     |
| 0-90  | 880.2 | 98.1%     |
| 0-180 | 897.2 | 100%      |

UNIT: CD

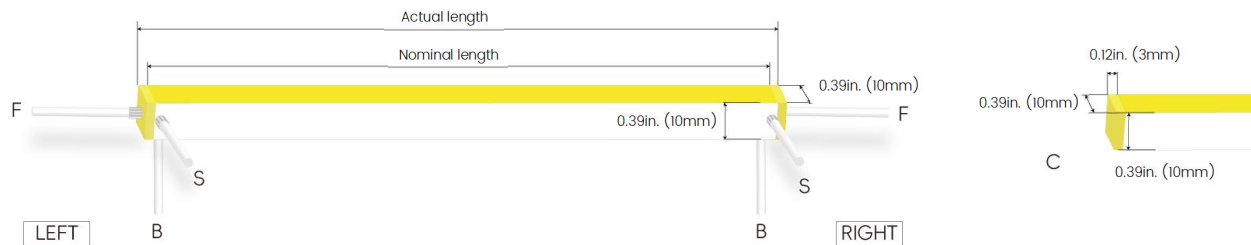
- C0/180, 111.5
- C30/210, 112.1
- C60/240, 113.0
- C90/270, 113.4

## Feed Entry / End Cap Options

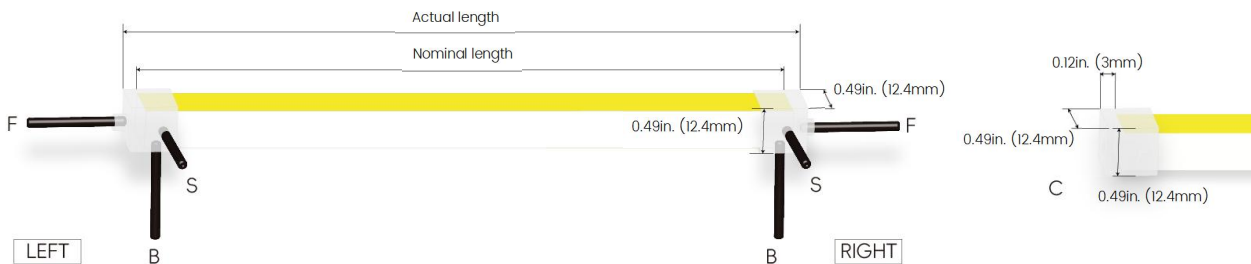
**IJ:** Injected end cap – IP54, factory-made only



**IJC:** Clear injected end cap – IP54, factory-made only



**SEC:** Silicone end cap – IP54



## Connector Wire Options



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



**MC:** Male connector, **Wet**  
Standard 0.98ft (30cm), 20 AWG

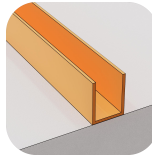
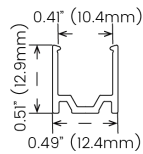


**FC:** Female connector, **Wet**  
Standard 0.98ft (30cm), 20 AWG

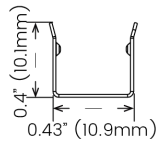
## ARCUS CORE 3D MEDIUM

Indoor · Dual Bending · Static White

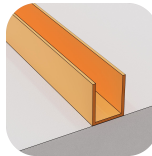
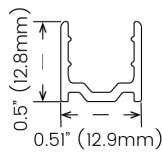
## Mounting Options

**ARCUS-M-SC**

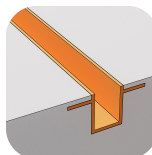
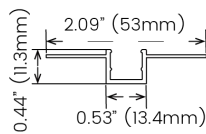
|                 |                          |
|-----------------|--------------------------|
| Name            | Straight surface channel |
| Material        | Aluminum                 |
| Standard Length | 3.28ft (1M)              |

**ARCUS-M-BC**

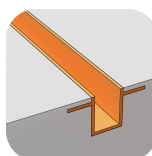
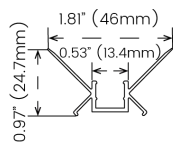
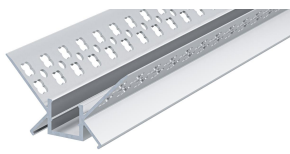
|                 |                          |
|-----------------|--------------------------|
| Name            | Bendable surface channel |
| Material        | Stainless Steel          |
| Standard Length | 3.28ft (1M)              |

**ARCUS-M-PC**

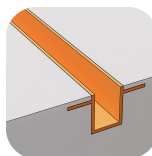
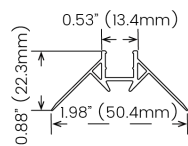
|                 |             |
|-----------------|-------------|
| Name            | PC channel  |
| Material        | PC          |
| Standard Length | 3.28ft (1M) |

**ARCUS-M-MC**

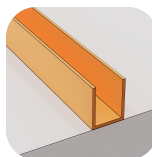
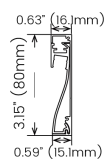
|                 |                |
|-----------------|----------------|
| Name            | Mud-in channel |
| Material        | Aluminum       |
| Standard Length | 3.28ft (1M)    |

**ARCUS-M-IC**

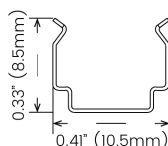
|                 |                       |
|-----------------|-----------------------|
| Name            | Inside corner channel |
| Material        | Aluminum              |
| Standard Length | 3.28ft (1M)           |

**ARCUS-M-OC**

|                 |                        |
|-----------------|------------------------|
| Name            | Outside corner channel |
| Material        | Aluminum               |
| Standard Length | 3.28ft (1M)            |

**ARCUS-M-SBC**

|                 |                        |
|-----------------|------------------------|
| Name            | Skirting board channel |
| Material        | Aluminum               |
| Standard Length | 3.28ft (1M)            |

**ARCUS-M-CL**

|                 |               |
|-----------------|---------------|
| Name            | Mounting clip |
| Material        | Aluminum      |
| Standard Length | 0.28in. (7mm) |

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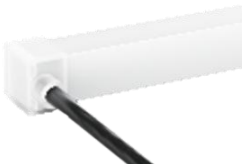
End Caps (Optional, purchase for extra)



**ARCUS-M-SEC-C**  
Silicone closed end cap



**ARCUS-M-SEC-F-2P**  
Silicone end cap front entry with 0.98ft (30cm) cable, 2 pin



**ARCUS-M-SEC-S-2P**  
Silicone end cap side entry with 0.98ft (30cm) cable, 2 pin



**ARCUS-M-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, 20 AWG



**FCW-2P-67**  
Female connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 20 AWG



**MCB-2P-67**  
Male connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 20 AWG



**FCB-2P-67**  
Female connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 20 AWG

## ARCUS CORE 3D MEDIUM

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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)

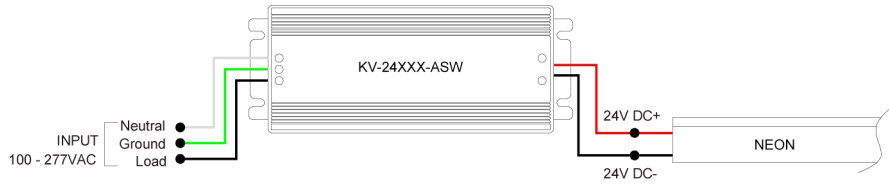
| Code           | Max Load     | Input      | Output | Class 2 | With Junction Box | Environment  | Size (L x W x H)                        |
|----------------|--------------|------------|--------|---------|-------------------|--------------|-----------------------------------------|
| KVG-24030-DW   | 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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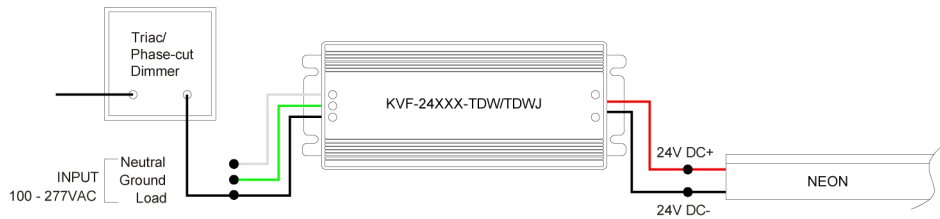
Indoor · Dual Bending · Static White

## 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)    |