



PROJECT

CATALOG #

TYPE

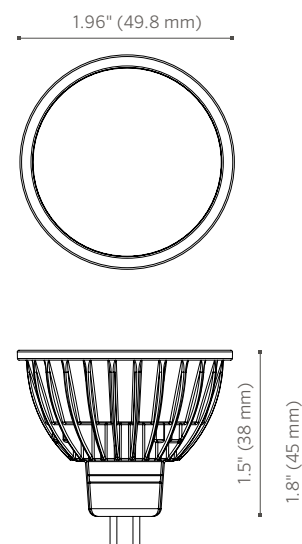
NOTES

MR-16 LED Lamp

The MR-16 is a convenient high-quality LED lamp. The MR-16 is available in three intensities, three beam angle options, and two color temperatures. Fully potted, it carries a five-year warranty

Quick Facts

- Converts MR-16 incandescent fixtures to LED
- Fully potted
- Warm color temperature: 2,700K
- Cool color temperature: 3,900K
- Three intensities: 4W, 5W, and 6W (20W, 35W and 50W halogen equivalents)
- Beam angle options: 10° (very narrow), 35° (flood), 60° (wide flood)
- Compatible with Luxor Low-Voltage Cube (LCM-LV)



MR-16 LED Lamp SPECIFICATIONS

| Output | 20W | 35W | 50W |
|------------------------------------|--------------|--------------|--------------|
| Total Lumens† | 250-315 | 200-370 | 447 |
| Input Voltage | 10-15V | 10-15V | 10-15V |
| Input Power (W) | 4.0 | 5.0 | 6.0 |
| VA | 4.3 | 5.4 | 6.5 |
| Efficacy (Lumens/Watt) | 64-79 | 39-75 | 95 |
| Color Rendering Index (CRI) | 79-84 | 82-84 | 82 |
| Center Beam Candlepower* | 290-1,980 | 450-3,260 | 960 |
| Spot (17-20) | -- | -- | -- |
| Dimming | PWM, Phase** | PWM, Phase** | PWM, Phase** |
| RGBW Available | No | No | No |
| Luxor Compatibility | | | |
| Default | -- | -- | -- |
| ZD Option | -- | -- | -- |
| ZDC Option | -- | -- | -- |
| Minimum Rated Life (L70) | 40,000 Hrs | 40,000 Hrs | 40,000 Hrs |

* Information not available for Flood or Wide Flood.

** For optimal performance, use a trailing-edge, phase-cut dimmer.

† Measured using the 3,900K CCT lens. Multipliers for other CCTs include 0.80 (2,700K), 0.65 (4,500K), and 0.65 (5,200K).

FX Luminaire

FX Luminaire is an industry-leading manufacturer of landscape and architectural lighting products with a focus on the advancement of LED technology and digital lighting control with zoning, dimming, and color adjustment capabilities. We offer a full spectrum of highly efficient lighting fixtures that can be utilized to create elegant, cutting-edge landscape lighting systems for commercial or residential applications. Our products are available exclusively via our extensive professional distributor network.

Material

Housing: Die-cast zinc
Potting: Silicone

Power

Input voltage: 10VAC-15VAC

Control

Compatible with Luxor controller.

Weight

0.01 lbs. (4.5 g)

Base

GU5.3

Color Temperature

2,700K, 3,900K

Ambient Operating Temperature

0°F to 140°F (-18°C to 60°C)

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Warranty

5-year limited warranty

Listings



MR-16 LED Lamp ORDERING INFORMATION

| Model | Halogen Equivalent | Color Temperature | Beam Angle |
|--------------|------------------------------------|-----------------------------|----------------------------------|
| MR-16 | ■ 20 20W; consumes 4.3VA | ■ W Warm (2,700K) | ■ VN Very narrow (10°) |
| | ■ 35 35W; consumes 5.4VA | ■ C Cool (3,900K) | ■ FL Flood (35°) |
| | ■ 50 50W; consumes 6.5VA | | ■ WF Wide flood (60°) |

EXAMPLE FIXTURE CONFIGURATION: MR-16-20-W-VN

MR16LED - - -

| Model Number | Description | Watts | VA | Equivalent Wattage | CCT | Beam Spread | Max Lumens | CBCP | CRI | Efficacy |
|----------------------|-------------------|-------|-----|--------------------|--------|-------------|------------|-------|-----|----------|
| MR16LED20WVN | Very Narrow Flood | 4.0 | 4.3 | 20W | 2,700K | 10 | 270 | 4,610 | 80+ | 67 |
| MR16LED20WFL | Flood | 4.0 | 4.3 | 20W | 2,700K | 35 | 260 | 750 | 80+ | 65 |
| MR16LED20WFF | Wide Flood | 4.0 | 4.3 | 20W | 2,700K | 60 | 250 | 290 | 80+ | 64 |
| MR16LED20CVN | Very Narrow Flood | 4.0 | 4.3 | 20W | 3,900K | 10 | 300 | 4,590 | 80+ | 74 |
| MR16LED20CFL | Flood | 4.0 | 4.3 | 20W | 3,900K | 35 | 290 | 800 | 80+ | 71 |
| MR16LED20CWF | Wide Flood | 4.0 | 4.3 | 20W | 3,900K | 60 | 290 | 490 | 80+ | 70 |
| MR16LED35WVN | Very Narrow Flood | 5.0 | 5.4 | 35W | 2,700K | 10 | 365 | 3,260 | 80+ | 74 |
| MR16LED35WFL | Flood | 5.0 | 5.4 | 35W | 2,700K | 35 | 335 | 840 | 80+ | 65 |
| MR16LED35WFF | Wide Flood | 5.0 | 5.4 | 35W | 2,700K | 60 | 340 | 450 | 80+ | 71 |
| MR16LED35CVN | Very Narrow Flood | 5.0 | 5.4 | 35W | 3,900K | 10 | 200 | 1,920 | 80+ | 39 |
| MR16LEDD35CFL | Flood | 5.0 | 5.4 | 35W | 3,900K | 35 | 340 | 800 | 80+ | 67 |
| MR16LED35CWF | Wide Flood | 5.0 | 5.4 | 35W | 3,900K | 60 | 350 | 520 | 80+ | 69 |
| MR16LED50WFL | Flood | 6.0 | 6.5 | 50W | 2,700K | 35 | 447 | -- | 80+ | 95 |

MR-16 LED Lamp ORDERING INFORMATION


Accessory: Specify Separately

| Item | Code |
|--|--------------|
| ■ HEX BAFFLE <i>MR-16 Size</i> | 250015260000 |
| ■ RECESSOR RING <i>MR-16 Size</i> | RRMR16 |
| ■ FROSTED LENS <i>MR-16 Size</i> | 250015170000 |
| ■ SPREAD LENS <i>MR-16 Size</i> | 250013550000 |
| ■ SOLITE SPREAD LENS <i>MR-16 Size</i> | 250015240000 |

MR-16 LED Lamp PHOTOMETRICS

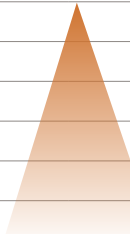
MR16LED20WvN Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|--------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 513 fc (5,522 lx) | 0.5' (0.2 m) |
| 6' (1.8 m) | 128 fc (1,378 lx) | 1.0' (0.3 m) |
| 9' (2.7 m) | 57 fc (614 lx) | 1.5' (0.5 m) |
| 12' (3.7 m) | 32 fc (345 lx) | 2.0' (0.6 m) |
| 15' (4.6 m) | 21 fc (226 lx) | 2.5' (0.8 m) |
| 18' (5.5 m) | 14 fc (151 lx) | 3.0' (0.9 m) |



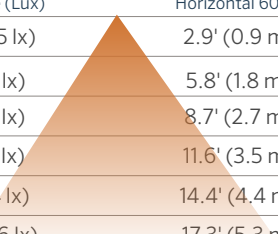
MR16LED20WFL Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|--------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 84 fc (904 lx) | 1.6' (0.5 m) |
| 6' (1.8 m) | 21 fc (226 lx) | 3.2' (1.0 m) |
| 9' (2.7 m) | 9 fc (97 lx) | 4.7' (1.4 m) |
| 12' (3.7 m) | 5 fc (54 lx) | 6.3' (1.9 m) |
| 15' (4.6 m) | 3.4 fc (37 lx) | 7.9' (2.4 m) |
| 18' (5.5 m) | 2.3 fc (25 lx) | 9.5' (2.9 m) |




MR16LED20WwF Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|---------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 33 fc (355 lx) | 2.9' (0.9 m) |
| 6' (1.8 m) | 8 fc (86 lx) | 5.8' (1.8 m) |
| 9' (2.7 m) | 4 fc (43 lx) | 8.7' (2.7 m) |
| 12' (3.7 m) | 2 fc (22 lx) | 11.6' (3.5 m) |
| 15' (4.6 m) | 1.3 fc (14 lx) | 14.4' (4.4 m) |
| 18' (5.5 m) | 0.9 fc (9.6 lx) | 17.3' (5.3 m) |




MR16LED20cvN Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|--------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 214 fc (2,304 lx) | 0.5' (0.2 m) |
| 6' (1.8 m) | 53 fc (571 lx) | 0.9' (0.3 m) |
| 9' (2.7 m) | 24 fc (258 lx) | 1.4' (0.4 m) |
| 12' (3.7 m) | 13 fc (140 lx) | 1.9' (0.6 m) |
| 15' (4.6 m) | 9 fc (97 lx) | 2.3' (0.7 m) |
| 18' (5.5 m) | 6 fc (65 lx) | 2.8' (0.9 m) |



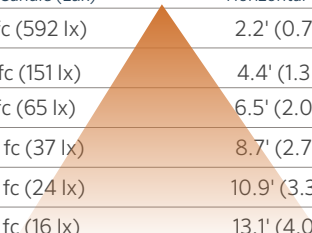
MR16LED20cFL Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|--------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 89 fc (958 lx) | 1.5' (0.5 m) |
| 6' (1.8 m) | 22 fc (237 lx) | 3.1' (1.0 m) |
| 9' (2.7 m) | 10 fc (108 lx) | 4.6' (1.4 m) |
| 12' (3.7 m) | 6 fc (65 lx) | 6.2' (1.9 m) |
| 15' (4.6 m) | 3.6 fc (39 lx) | 7.7' (2.4 m) |
| 18' (5.5 m) | 2.5 fc (27 lx) | 9.2' (2.8 m) |



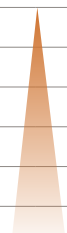
MR16LED20cwF Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|---------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 55 fc (592 lx) | 2.2' (0.7 m) |
| 6' (1.8 m) | 14 fc (151 lx) | 4.4' (1.3 m) |
| 9' (2.7 m) | 6 fc (65 lx) | 6.5' (2.0 m) |
| 12' (3.7 m) | 3.4 fc (37 lx) | 8.7' (2.7 m) |
| 15' (4.6 m) | 2.2 fc (24 lx) | 10.9' (3.3 m) |
| 18' (5.5 m) | 1.5 fc (16 lx) | 13.1' (4.0 m) |




MR16ZD35WvN Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|--------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 362 fc (3,897 lx) | 0.7' (0.2 m) |
| 6' (1.8 m) | 91 fc (980 lx) | 1.4' (0.4 m) |
| 9' (2.7 m) | 40 fc (431 lx) | 2.1' (0.6 m) |
| 12' (3.7 m) | 23 fc (248 lx) | 2.9' (0.9 m) |
| 15' (4.6 m) | 15 fc (162 lx) | 3.6' (1.1 m) |
| 18' (5.5 m) | 10 fc (108 lx) | 4.3' (1.3 m) |



MR16ZD35WFL Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|---------------|
| | Foot-Candle (Lux) | |
| 3' (0.9 m) | 94 fc (1,012 lx) | 1.7' (0.5 m) |
| 6' (1.8 m) | 24 fc (258 lx) | 3.4' (1.0 m) |
| 9' (2.7 m) | 10 fc (108 lx) | 5.1' (1.6 m) |
| 12' (3.7 m) | 6 fc (65 lx) | 6.8' (2.1 m) |
| 15' (4.6 m) | 3.8 fc (41 lx) | 8.4' (2.6 m) |
| 18' (5.5 m) | 2.6 fc (28 lx) | 10.1' (3.1 m) |

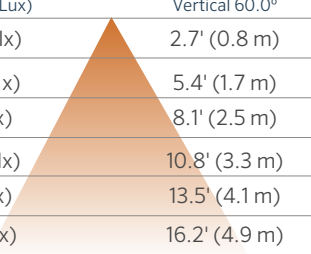


Beam angle is defined as two times the vertical angle at which the intensity is 50% of the maximum. It is calculated using LM-79 method for SSL Luminaires.

MR-16 LED Lamp PHOTOMETRICS

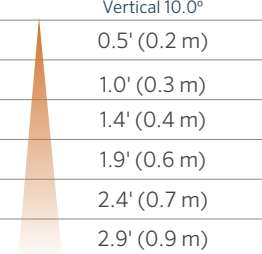
MR16ZD35Wwf Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|----------------|
| | Foot-Candle (Lux) | Vertical 60.0° |
| 3' (0.9 m) | 51 fc (549 lx) | 2.7' (0.8 m) |
| 6' (1.8 m) | 13 fc (140 lx) | 5.4' (1.7 m) |
| 9' (2.7 m) | 6 fc (65 lx) | 8.1' (2.5 m) |
| 12' (3.7 m) | 3.2 fc (35 lx) | 10.8' (3.3 m) |
| 15' (4.6 m) | 2 fc (22 lx) | 13.5' (4.1 m) |
| 18' (5.5 m) | 1.4 fc (15 lx) | 16.2' (4.9 m) |



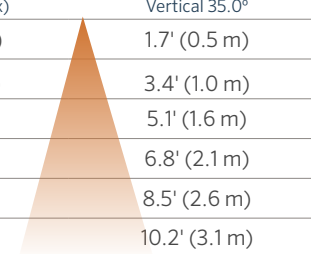
MR16ZD35Wcvn Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|----------------|
| | Foot-Candle (Lux) | Vertical 10.0° |
| 3' (0.9 m) | 510 fc (5,490 lx) | 0.5' (0.2 m) |
| 6' (1.8 m) | 128 fc (1,378 lx) | 1.0' (0.3 m) |
| 9' (2.7 m) | 57 fc (614 lx) | 1.4' (0.4 m) |
| 12' (3.7 m) | 32 fc (345 lx) | 1.9' (0.6 m) |
| 15' (4.6 m) | 20 fc (215 lx) | 2.4' (0.7 m) |
| 18' (5.5 m) | 14 fc (151 lx) | 2.9' (0.9 m) |



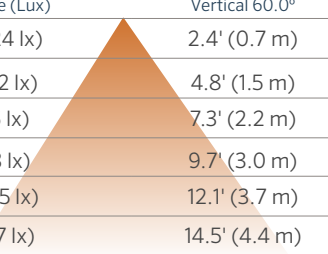
MR16ZD35CFL Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|----------------|
| | Foot-Candle (Lux) | Vertical 35.0° |
| 3' (0.9 m) | 90 fc (969 lx) | 1.7' (0.5 m) |
| 6' (1.8 m) | 22 fc (237 lx) | 3.4' (1.0 m) |
| 9' (2.7 m) | 10 fc (108 lx) | 5.1' (1.6 m) |
| 12' (3.7 m) | 6 fc (65 lx) | 6.8' (2.1 m) |
| 15' (4.6 m) | 3.6 fc (39 lx) | 8.5' (2.6 m) |
| 18' (5.5 m) | 2.5 fc (27 lx) | 10.2' (3.1 m) |



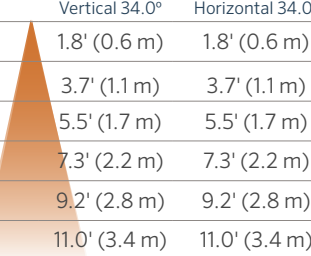
MR16ZD35cwf Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width |
|---------------|-------------------|----------------|
| | Foot-Candle (Lux) | Vertical 60.0° |
| 3' (0.9 m) | 58 fc (624 lx) | 2.4' (0.7 m) |
| 6' (1.8 m) | 15 fc (162 lx) | 4.8' (1.5 m) |
| 9' (2.7 m) | 7 fc (75 lx) | 7.3' (2.2 m) |
| 12' (3.7 m) | 4 fc (43 lx) | 9.7' (3.0 m) |
| 15' (4.6 m) | 2.3 fc (25 lx) | 12.1' (3.7 m) |
| 18' (5.5 m) | 1.6 fc (17 lx) | 14.5' (4.4 m) |



MR16LED50WFL Illuminance at a Distance

| Feet (Meters) | Center Beam | Beam Width | |
|---------------|-------------------|----------------|------------------|
| | | Vertical 34.0° | Horizontal 34.0° |
| 3' (0.9 m) | 107 fc (1,152 lx) | 1.8' (0.6 m) | 1.8' (0.6 m) |
| 6' (1.8 m) | 27 fc (291 lx) | 3.7' (1.1 m) | 3.7' (1.1 m) |
| 9' (2.7 m) | 12 fc (129 lx) | 5.5' (1.7 m) | 5.5' (1.7 m) |
| 12' (3.7 m) | 6.7 fc (72 lx) | 7.3' (2.2 m) | 7.3' (2.2 m) |
| 15' (4.6 m) | 4.3 fc (46 lx) | 9.2' (2.8 m) | 9.2' (2.8 m) |
| 18' (5.5 m) | 3.0 fc (32 lx) | 11.0' (3.4 m) | 11.0' (3.4 m) |



Beam angle is defined as two times the vertical angle at which the intensity is 50% of the maximum. It is calculated using LM-79 method for SSL Luminaires.