



PROJECT

CATALOG #

TYPE

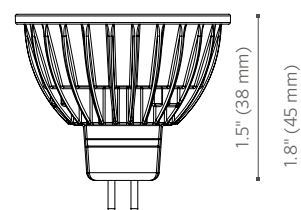
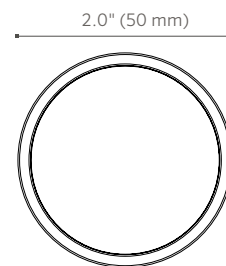
NOTES

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 three color temperatures. Fully potted, it carries a five-year warranty.

Quick Facts

- Converts MR-16 incandescent fixtures to LED
- Warm, soft, and cool color temperature: 2,700K, 3,000K, and 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 specification-driven 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: 10 -15VAC

Control
Compatible with Luxor controller.

Weight
0.01 lbs. (4.5 g)

Base
GU5.3

Color Temperature
2,700K, 3,000K, and 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



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	■ S Soft (3,000K)	■ FL Flood (35°)
	■ 50 50W; consumes 6.5VA	■ C Cool (3,900K)	■ WF Wide flood (60°)

EXAMPLE LAMP 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
MR16LED20WWF	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
MR16LED35WWF	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
MR16LED20SVN	Very Narrow Flood	4.0	4.2	20W	3,000K	10	287	4,359	80+	74
MR16LED20SFL	Flood	4.0	4.2	20W	3,000K	35	238	591	80+	59
MR16LED20SWF	Wide Flood	4.0	4.2	20W	3,000K	60	242	413	80+	64
MR16LED35SVN	Very Narrow Flood	5.0	5.4	35W	3,000K	10	458	2587	80+	101
MR16LED35SFL	Flood	5.0	5.4	35W	3,000K	35	380	848	80+	89
MR16LED35SWF	Wide Flood	5.0	5.4	35W	3,000K	60	394	570	80+	91
MR16LED50SFL	Flood	6.0	6.5	50W	3,000K	35	505	1,082	80+	104

MR-16 LED Lamp ORDERING INFORMATION

Accessory: Specify Separately

Item	Code
■ HEX BAFFLE <i>MR-16 Size</i>	250015260000
■ RECESSORRING® <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

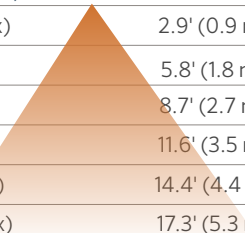
MR16LED20wvN Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 10.0°
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)



MR16LED20wWFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Horizontal 60.0°
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)



MR16LED20cFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 35.0°
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)



MR16ZD35wvN Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 10.0°
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)



MR16LED20wFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 35.0°
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)



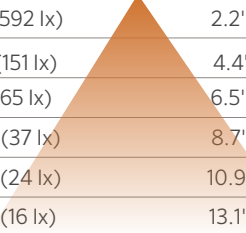
MR16LED20cvN Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 10.0°
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)



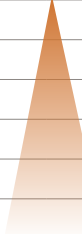
MR16LED20cWFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Horizontal 60.0°
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)



MR16ZD35wFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 35.0°
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)

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)

MR16LED50wFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	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)

MR16LED20swf Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 42.6°	Horizontal 42.7°
3' (0.9 m)	45.9 fc (494 lx)	2.3' (0.7 m)	2.3' (0.7 m)
6' (1.8 m)	11.5 fc (124 lx)	4.7' (1.4 m)	4.7' (1.4 m)
9' (2.7 m)	5.1 fc (55 lx)	7.0' (2.1 m)	7.0' (2.1 m)
12' (3.7 m)	2.9 fc (31 lx)	9.4' (2.9 m)	9.4' (2.9 m)
15' (4.6 m)	1.8 fc (19 lx)	11.7' (3.6 m)	11.7' (3.6 m)
18' (5.5 m)	1.3 fc (14 lx)	14.1' (4.3 m)	14.1' (4.3 m)

MR16ZD35cvn 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)

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)

MR16LED20sFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 31.3°	Horizontal 31.4°
3' (0.9 m)	65.6 fc (706 lx)	1.7' (0.5 m)	1.7' (0.5 m)
6' (1.8 m)	16.4 fc (177 lx)	3.4' (1.0 m)	3.4' (1.0 m)
9' (2.7 m)	7.3 fc (79 lx)	5.0' (1.5 m)	5.1' (1.6 m)
12' (3.7 m)	4.1 fc (44 lx)	6.7' (2.0 m)	6.7' (2.0 m)
15' (4.6 m)	2.6 fc (28 lx)	8.4' (2.6 m)	8.4' (2.6 m)
18' (5.5 m)	1.8 fc (19 lx)	10.1' (3.1 m)	10.1' (3.1 m)

MR16LED35sFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 33.4°	Horizontal 33.5°
3' (0.9 m)	94.0 fc (1,012 lx)	1.8' (0.6 m)	1.8' (0.6 m)
6' (1.8 m)	23.5 fc (253 lx)	3.6' (1.1 m)	3.6' (1.1 m)
9' (2.7 m)	10.4 fc (112 lx)	5.4' (1.7 m)	5.4' (1.7 m)
12' (3.7 m)	5.9 fc (64 lx)	7.2' (2.2 m)	7.2' (2.2 m)
15' (4.6 m)	3.8 fc (41 lx)	9.0' (2.7 m)	9.0' (2.7 m)
18' (5.5 m)	2.6 fc (28 lx)	10.8' (3.3 m)	10.8' (3.3 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

MR16LED20svn Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 11.1°
3' (0.9 m)	484.0 fc (5,210 lx)	0.6' (0.2 m)
6' (1.8 m)	121.0 fc (1,302 lx)	1.2' (0.4 m)
9' (2.7 m)	53.8 fc (79 lx)	1.7' (0.5 m)
12' (3.7 m)	30.3 fc (579 lx)	2.3' (0.7 m)
15' (4.6 m)	19.4 fc (209 lx)	2.9' (0.9 m)
18' (5.5 m)	13.5 fc (145 lx)	3.5' (1.1 m)

MR16LED50sFL Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 35.1°	Horizontal 35.2°
3' (0.9 m)	119.0 fc (1,281 lx)	1.9' (0.6 m)	1.9' (0.6 m)
6' (1.8 m)	29.7 fc (320 lx)	3.8' (1.2 m)	3.8' (1.2 m)
9' (2.7 m)	13.2 fc (142 lx)	5.7' (1.7 m)	5.7' (1.7 m)
12' (3.7 m)	7.4 fc (80 lx)	7.6' (2.3 m)	7.6' (2.3 m)
15' (4.6 m)	4.8 fc (52 lx)	9.5' (2.9 m)	9.5' (2.9 m)
18' (5.5 m)	3.3 fc (36 lx)	11.4' (3.5 m)	11.4' (3.5 m)

MR16LED35swf Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 46.6°	Horizontal 46.7°
3' (0.9 m)	63.4 fc (682 lx)	2.6' (0.8 m)	2.6' (0.8 m)
6' (1.8 m)	15.8 fc (170 lx)	5.2' (1.6 m)	5.2' (1.6 m)
9' (2.7 m)	7.0 fc (75 lx)	7.8' (2.4 m)	7.8' (2.4 m)
12' (3.7 m)	4.0 fc (43 lx)	10.3' (3.1 m)	10.4' (3.2 m)
15' (4.6 m)	2.5 fc (27 lx)	12.9' (3.9 m)	12.9' (3.9 m)
18' (5.5 m)	1.8 fc (19 lx)	15.5' (4.7 m)	15.5' (4.7 m)

MR16LED35svn Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candle (Lux)	Vertical 17.8°
3' (0.9 m)	287.0 fc (3,089 lx)	0.9' (0.3 m)
6' (1.8 m)	71.9 fc (774 lx)	1.9' (0.6 m)
9' (2.7 m)	31.9 fc (343 lx)	2.8' (0.9 m)
12' (3.7 m)	18.0 fc (194 lx)	3.8' (1.2 m)
15' (4.6 m)	11.5 fc (124 lx)	4.7' (1.4 m)
18' (5.5 m)	8.0 fc (86 lx)	5.6' (1.7 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.

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