



PROJECT

CATALOG #

TYPE

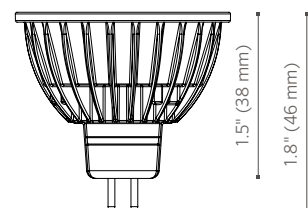
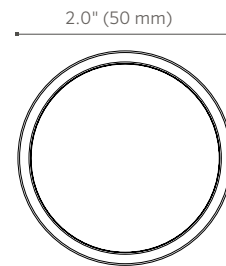
NOTES

## MR-16 ZD LED Lamp

The MR-16 ZD is a convenient, high-quality LED lamp. When connected to a Luxor controller, the MR-16 ZD adds zoning and dimming capabilities to any fixture. The MR-16 ZD is available in two 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
- Zoning and dimming capabilities with Luxor® technology
- Warm, soft, and cool color temperatures: 2,700K, 3,000K, and 3,900K
- Two intensities 5W and 6W (35W and 50W halogen equivalents)
- Beam angle options: 10° (very narrow), 35° (flood), 60° (wide flood)



# MR-16 ZD LED Lamp SPECIFICATIONS

Output	35W	50W
<b>Total Lumens†</b>	200-370	447
<b>Input Voltage</b>	10-15V	10-15V
<b>Input Power (W)</b>	5.0	6.0
<b>VA</b>	5.4	6.5
<b>Efficacy (Lumens/Watt)</b>	39-75	95
<b>Color Rendering Index (CRI)</b>	82-84	82
<b>Center Beam Candlepower*</b>	450-3,260	960
<b>Spot (17-20)</b>	--	--
<b>Dimming</b>	PWM, Phase**	PWM, Phase**
<b>RGBW Available</b>	No	No
<b>Luxor Compatibility</b>		
<b>Default</b>	--	--
<b>ZD Option</b>	--	--
<b>ZDC Option</b>	--	--
<b>Minimum Rated Life (L70)</b>	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: zinc  
Potting: silicone

## Power

Input voltage: 10-15 VAC

## 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

## Listings



# MR-16 ZD LED Lamp ORDERING INFORMATION

Model	Halogen Equivalent	Color Temperature	Beam Angle
MR-16 ZD	■ <b>35</b> 35W; consumes 2.6VA	■ <b>W</b> Warm (2,700K)	■ <b>VN</b> Very narrow (10°)
	■ <b>50</b> 50W; consumes 5.4VA	■ <b>S</b> Soft (3,000K)	■ <b>FL</b> Flood (35°)
		■ <b>C</b> Cool (3,900K)	■ <b>WF</b> Wide flood (60°)

EXAMPLE LAMP CONFIGURATION: MR-16ZD-20-W-VN

MR16ZD -  -  -

Model Number	Description	Watts	VA	Equivalent Wattage	CCT	Beam Spread	Max Lumens	CBCP	CRI	Efficacy
MR16ZD35WVN	Very Narrow Flood	5.0	5.4	35W	2,700K	10	365	3,260	80+	74
MR16ZD35WFL	Flood	5.0	5.4	35W	2,700K	35	335	840	80+	65
MR16ZD35WWF	Wide Flood	5.0	5.4	35W	2,700K	60	340	450	80+	71
MR16ZD35CVN	Very Narrow Flood	5.0	5.4	35W	3,900K	10	200	1,920	80+	39
MR16ZD35CFL	Flood	5.0	5.4	35W	3,900K	35	340	800	80+	67
MR16ZD35CWF	Wide Flood	5.0	5.4	35W	3,900K	60	350	520	80+	69
MR16ZD50WFL	Flood	6.0	6.5	50W	2,700K	35	447	--	80+	95
MR16ZD50CFL	Flood	6.0	6.5	50W	3,900K	35	447	--	80+	95
MR16ZD35SVN	Very Narrow Flood	5.0	5.4	35W	3,000K	10	458	2,587	80+	101
MR16ZD35SFL	Flood	5.0	5.4	35W	3,000K	35	380	848	80+	89
MR16ZD35SWF	Wide Flood	5.0	5.4	35W	3,000K	60	394	570	80+	91
MR16ZD50SFL	Flood	6.0	6.5	50W	3,000K	35	505	1,082	80+	104


Accessory: Specify Separately

Item	Code
■ <b>HEX BAFFLE</b> MR-16 Size	250015260000
■ <b>RECESSORRING®</b> MR-16 Size	RRMR16
■ <b>FROSTED LENS</b> MR-16 Size	250015170000
■ <b>SPREAD LENS</b> MR-16 Size	250013550000
■ <b>SOLITE SPREAD LENS</b> MR-16 Size	250015240000

# ZD MR-16 LED Lamp PHOTOMETRICS


*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)




*MR16ZD35wWF* Illuminance at a Distance

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




*MR16ZD35cvN* Illuminance at a Distance

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




*MR16ZD50wFL* 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)



*MR16ZD35sFL* Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width	
		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.

# ZD MR-16 LED Lamp PHOTOMETRICS

*MR16ZD20svN* 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)

*MR16ZD35swF* 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)

*MR16ZD50sFL* 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)

*MR16ZD35svN* 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)

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