



TYPE

CATALOG #

PROJECT

NOTES

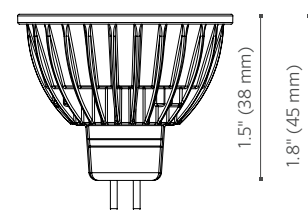
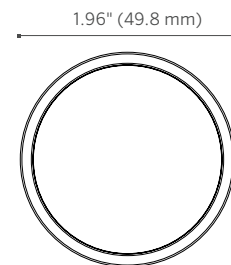
## ACCESSORIES

### 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
- 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 <sup>†</sup>	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).

## Holm

Holm. Born from an industry demand for a comprehensive offering of distinctive line- and low-voltage luminaires for the commercial market. Our products are designed to meet required specifications while echoing the aesthetics of each project. Holm is a Hunter Industries company with more than three decades of engineering expertise, now bringing its Luxor technology to the commercial architectural and landscape lighting market.

## Beam Angles

10° - Very Narrow  
25° - Narrow Flood  
35° - Flood  
60° - Wide Flood

## 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

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Accessory: Specify Separately


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

# MR-16 LED Lamp PHOTOMETRICS

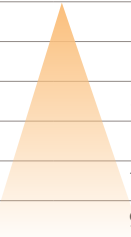
MR16LED20WVN Illuminance at a Distance

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)



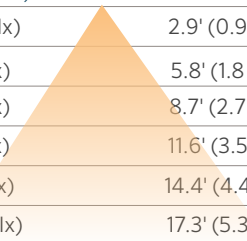
MR16LED20WFL Illuminance at a Distance

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)



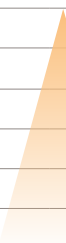
MR16LED20CVN Illuminance at a Distance

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)



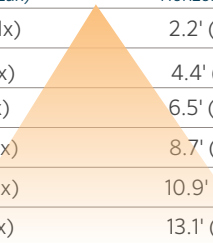
MR16LED20CFL Illuminance at a Distance

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)




MR16LED20CWFL 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)



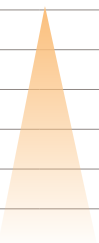
MR16ZD35WVN Illuminance at a Distance

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)

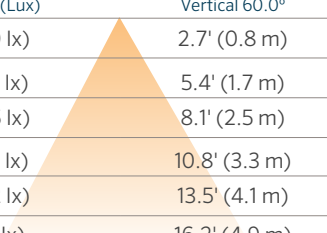


Beam angle is defined as two times the vertical angle at which the intensity is 50% of the maximum. It is calculated using LM-79 method for SSL Luminaires.

# MR-16 LED Lamp PHOTOMETRICS

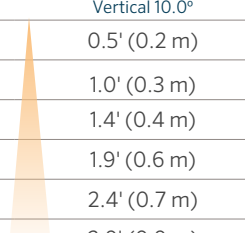
MR16ZD35WwF Illuminance at a Distance

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)	6.0 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)	2.0 fc (22 lx)	13.5' (4.1 m)
18' (5.5 m)	1.4 fc (15 lx)	16.2' (4.9 m)



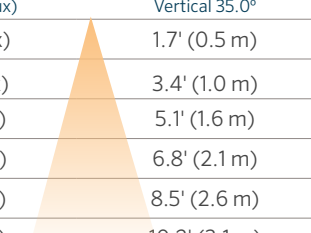
MR16ZD35WcvN Illuminance at a Distance

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)



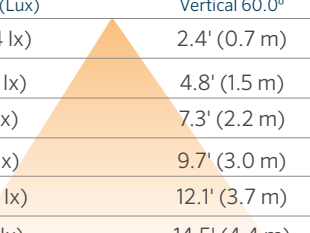
MR16ZD35CFL Illuminance at a Distance

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)	6.0 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)



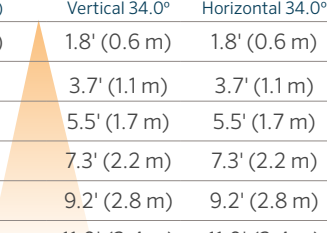
MR16ZD35CwF Illuminance at a Distance

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 Foot-Candle (Lux)	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.