MR-16 ZD LED Lamp



PROJECT NAME

TYPE

CATALOG #

QUANTITY

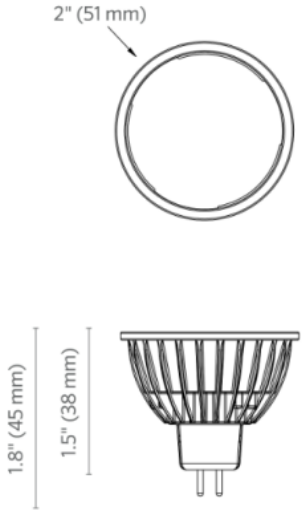
NOTES

Use this lamp to add zoning and dimming capabilities to any fixture that is connected to a Luxor@ Controller.

Quick Facts

- Enables zoning and dimming with Luxor control systems
- Converts standard MR-16 fixtures into digitally controlled lighting
- Available in 5 W and 6 W (35 W and 50 W halogen equivalents)
- Output range up to ~500 lumens
- Color temperature options: 2700K, 3000K, and 3900K
- Beam angles: 10°, 35°, and 60° for design flexibility
- Fully potted construction for moisture and debris protection
- High-efficiency design with low VA draw
- Standard MR-16 base for easy retrofit installation
- Long-life LED performance (up to 40,000 hours). Backed by a 5-year warranty.

ZD MR-16 Dimensions



ZD MR-16 20W 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)

ZD MR-16 35W Photometrics

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)

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)

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)

ZD MR-16 50W Photometrics

MR16ZD50WFL 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)

ZD MR-16 Spec Chart

Output	35W / 35S	50W / 50S

Total Lumens (lm)	300-370	450
Power Consumption (VA)	5.4	6.5
Efficacy (Lumens per Watt)	39-75	95
Correlated Color Temperature (CCT)	2700K, 3000K	2700K, 3000K
Standard Deviation Color Matching (SDCM)	3-Step	3-Step
Halogen Equivalent (W)	35	50
Beam Angle(s)	10°, 35°, 60°	35°
Maximum Candela (cd)	450-3,260	960
Color Rendering Index (CRI)	82-84	82
Input Voltage (V)	10-15	10-15
Dimming	Luxor PWM	Luxor PWM
Minimum Rated Life (L70)	40,000 Hrs	40,000 Hrs

ZD MR-16 Ordering Information

Model Description	Power (W)	Power Consumption (VA)	Halogen Equivalent (W)	CCT	Beam Angle	Beam Description	Total Lumens (lm)	Max. Candealas (cd)	CRI
MR16ZD35WVN	5.0	5.4	35	2700K	15°	Very Narrow	440	2,460	84+
MR16ZD35SVN	5.0	5.4	35	3000K	15°	Very Narrow	460	2,590	84+
MR16ZD35CVN	5.0	5.4	35	4000K	15°	Very Narrow	480	2,720	84+
MR16ZD35WFL	5.0	5.4	35	2700K	35°	Flood	335	810	84+
MR16ZD35SFL	5.0	5.4	35	3000K	35°	Flood	380	850	84+
MR16ZD35CFL	5.0	5.4	35	4000K	35°	Flood	340	890	84+
MR16ZD35WWF	5.0	5.4	35	2700K	47°	Wide Flood	340	450	84+
MR16ZD35SWF	5.0	5.4	35	3000K	47°	Wide Flood	395	570	84+
MR16ZD35CWF	5.0	5.4	35	4000K	47°	Wide Flood	415	600	84+

Model Description	Power (W)	Power Consumption (VA)	Halogen Equivalent (W)	CCT	Beam Angle	Beam Description	Total Lumens (lm)	Max. Candealas (cd)	CRI
MR16ZD50WFL	6.0	6.5	50	2700K	35°	Flood	480	1,025	84+
MR16ZD50SFL	6.0	6.5	50	3000K	35°	Flood	505	1,080	84+
MR16ZD50CFL	6.0	6.5	50	4000K	35°	Flood	530	1,135	84+

LISTINGS

ADDITIONAL CERTIFICATIONS

CB Scheme

Model Configurator

MR16ZD			
MODEL	POWER	LED COLOR	OPTIC

POWER

- ☐ **35** — 335-480 lumens; 5.4 VA
- ☐ **50** — 480-505 lumens; 6.5 VA

LED COLOR

- ☐ **W** — Warm (2700K)
- ☐ **S** — Soft (3000K)
- ☐ **C** — Cool (4000K)

OPTIC

- ☐ **VN** — Very Narrow (10°)
- ☐ **FL** — Flood (30°)
- ☐ **NF** — Narrow Flood (25°)
- ☐ **WF** — Wide Flood (60°)