



# MR2 LED LED Area Luminaire



## Specifications

<b>EPA:</b>	0.9 ft <sup>2</sup> (0.08 m <sup>2</sup> )
<b>Length:</b>	32-7/8" (83.5 cm)
<b>Width:</b>	25" (63.5 cm)
<b>Height:</b>	8-1/4" (21.0 cm)
<b>Weight (max):</b>	42 lbs (19.1 kg)



A+ Capable options indicated by this color background.

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM®2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## Ordering Information

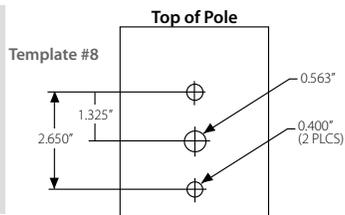
**EXAMPLE: MR2 LED 60C 1000 40K T2M MVOLT SPA DDBXD**

MR2 LED	60C								
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Options	Finish (required)	
MR2 LED	60C 60 LEDs	700 700 mA 1000 1000 mA	40K 4000 K 50K 5000 K	T2M Type II T5M Type V TFTM Forward throw	MVOLT <sup>1</sup> 120 <sup>1</sup> 208 <sup>1</sup> 240 <sup>1</sup> 277 <sup>1</sup> 347 480	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting WBA Wall bracket <b>Shipped Separately<sup>2</sup></b> SPUMBA Square pole universal mounting adaptor <sup>3</sup> RPUMBA Round pole universal mounting adaptor <sup>3</sup> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>4</sup>	<b>Shipped installed</b> PER NEMA twist-lock receptacle only (no controls) PER5 Five-wire receptacle only (no controls) <sup>5</sup> PER7 Seven-wire receptacle only (no controls) <sup>5</sup> DCR Dimmable and controllable via ROAM® (no controls) <sup>6</sup> DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) SF Single fuse (120, 277, 347V) <sup>7</sup> DF Double fuse (208, 240, 480V) <sup>7</sup> BL30 Bi-level switched dimming, nominal 30% <sup>8,9</sup> BL50 Bi-level switched dimming, nominal 50% <sup>8,9</sup> <b>Shipped separately<sup>2</sup></b> VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white	



## Ordering Information

### Drilling



### Accessories

*Ordered and shipped separately.*

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>10</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>10</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>10</sup>
DSHORT SBK U	Shorting cap <sup>10</sup>
MR2LEDHS U	House-side shield (includes 2 shields)
MR2VG U	Vandal guard accessory
KMA8 DDBXD U	Master arm mounting bracket adaptor (specify finish) <sup>4</sup>
PUMBA DDBXD U*	Round and square pole universal mounting bracket adaptor (specify finish)

For more control options, visit [DTL](#) and [ROAM](#) online.

Omero™ shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

<b>DM19AS</b>	Single unit	<b>DM29AS</b>	2 at 90° *
<b>DM28AS</b>	2 at 180°	<b>DM39AS</b>	3 at 90° **
<b>DM49AS</b>	4 at 90° *	<b>DM32AS</b>	3 at 120° **

**Example:** SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

\*Round pole top must be 3.25" O.D. minimum.

\*\*For round pole mounting (RPA) only.

### Tenon Mounting Slipfitter \*\*

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	N/A	N/A	N/A	N/A
2-7/8"	AST25-190	AST25-280	N/A	AST25-320	N/A	N/A
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Also available as a separate accessory; see Accessories information at left.
- 1.5 G vibration load rating per ANCI C136.31.
- Requires "SPA" mounting option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- If ROAM™ node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.
- Specifies a ROAM™ enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Add'l hardware and services required for ROAM™ deployment; call 1-800-442-6745 or email: [sales@roomservices.net](mailto:sales@roomservices.net). N/A with BL30, BL50, or DS.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Requires an additional switched line.
- Dimming driver standard. MVOLT only. Not available with DCR.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	40K					50K				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60C	700 mA	132	T2M	14,831	2	0	2	112	14,924	3	0	3	113
			T5M	15,776	4	0	2	120	15,874	4	0	2	120
			TFTM	15,892	2	0	3	120	15,992	2	0	3	121
	1000 mA	206	T2M	20,224	3	0	3	98	20,350	3	0	3	99
			T5M	21,512	5	0	3	104	21,647	5	0	3	105
			TFTM	21,671	3	0	3	105	21,807	3	0	4	106

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier	
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	1.00
40°C	104°F	0.99

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **MR2 LED 60C** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.90	0.82

### Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
60C	700	132W	1.321	0.756	0.659	0.580	0.462	0.337
	1000	206W	2.068	1.198	1.056	0.943	0.764	0.605

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## FEATURES & SPECIFICATIONS

### INTENDED USE

Highly efficient and long-lasting, the MR2 LED is ideal for parking areas, street lighting, walkways and car lots.

### CONSTRUCTION

Single-piece die cast housing has a unique flow-through design that allows for optimized thermal management through convective cooling. A perforated housing prevents debris build-up while allowing natural cleaning of the heat sinks. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver and electronics are thermally isolated from the light engine(s), ensuring long life. Housing is completely sealed against moisture and environmental contaminants. Low EPA (0.9 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum and white. Available in textured and non-textured finishes.

### OPTICS

Precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment and delivering repeatable photometric performance. Light engines are available in standard 4000 K (67 CRI) or optional 5000 K (67 CRI) configurations. The MR2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) consist of 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L70). Class 1 electronic driver designed to provide a power factor >90%, THD <20%, with an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Integral arm provides easy installation to a pole and assists in alignment and leveling. Secure connection withstands up to 2.0 G vibration load rating per ANSI C136.31. The MR2 utilizes the AERIS™ series pole drilling pattern for SPA and RPA options; wall mounting bracket also available.

### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. **U.S. Patent No. D556,357.**

### BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/resources/buy-american](http://www.acuitybrands.com/resources/buy-american) for additional information.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

