



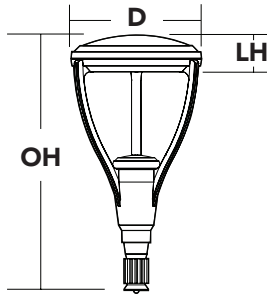
# MRP LED

## LED Area Luminaire



### Specifications

<b>EPA:</b>	1.125 ft <sup>2</sup> (0.105 m <sup>2</sup> )
<b>Luminaire Height:</b>	6-3/8" (16.2 cm)
<b>Overall Height:</b>	32" (81.3 cm)
<b>Diameter:</b>	18" (45.7 cm)
<b>Weight (max):</b>	37.5 lbs (17 kg)



Catalog Number

Notes

Type

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

### Introduction

The Omero™ family of luminaires blends a traditional round dayform with contemporary, low-profile styling to accent architectural elements in a variety of applications.

The MRP LED combines the latest in LED technology with the designer aesthetic of the Omero™ family for stylish, high-performance illumination that lasts. The MRP LED is ideal for replacing 100-250W metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

### Ordering Information

**EXAMPLE: MRP LED 42C 700 40K SR5 MVOLT DDBXD**

MRP LED	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting										
MRP LED	42C 42 LEDs (one engine)	530 530mA 700 700mA 1000 1000mA (1A)	30K 3000K 40K 4000K 50K 5000K	SR2 Type II SR3 Type III SR4 Type IV SR5 Type V	MVOLT <sup>1</sup> 277 <sup>1</sup> 120 <sup>1</sup> 347 208 <sup>1</sup> 480 240 <sup>1</sup>	<table border="0"> <tr> <td><b>Shipped included</b></td> <td><b>Shipped separately<sup>2</sup></b></td> </tr> <tr> <td>(blank) Fits 4"OD round pole</td> <td>MRPT30 3-1/2" tenon slipfitter</td> </tr> <tr> <td><b>Shipped separately<sup>2</sup></b></td> <td>MRPT35 4" tenon slipfitter</td> </tr> <tr> <td>MRPT20 2-3/8" tenon slipfitter</td> <td>MRPF3 3"OD round pole adapter</td> </tr> <tr> <td>MRPT25 2-7/8" tenon slipfitter</td> <td>MRPF5 5"OD round pole adapter<sup>3</sup></td> </tr> </table>	<b>Shipped included</b>	<b>Shipped separately<sup>2</sup></b>	(blank) Fits 4"OD round pole	MRPT30 3-1/2" tenon slipfitter	<b>Shipped separately<sup>2</sup></b>	MRPT35 4" tenon slipfitter	MRPT20 2-3/8" tenon slipfitter	MRPF3 3"OD round pole adapter	MRPT25 2-7/8" tenon slipfitter	MRPF5 5"OD round pole adapter <sup>3</sup>
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MRPT25 2-7/8" tenon slipfitter	MRPF5 5"OD round pole adapter <sup>3</sup>															
Control options				Other options		Finish (required)										
<b>Shipped installed</b> PER NEMA twist-lock receptacle only (no controls) <b>PNMTDD3</b> Part night, dim till dawn <sup>7</sup> PER5 Five-wire receptacle only (no controls) <sup>4</sup> <b>PNMT5D3</b> Part night, dim 5 hrs <sup>7</sup> PER7 Seven-wire receptacle only (no controls) <sup>4</sup> <b>PNMT6D3</b> Part night, dim 6 hrs <sup>7</sup> DMG 0-10V dimming driver (no controls) <sup>5</sup> <b>PNMT7D3</b> Part night, dim 7 hrs <sup>7</sup> BL30 Bi-level switched dimming, 30% <sup>6,7</sup> BL50 Bi-level switched dimming, 50% <sup>6,7</sup>				SF Single fuse (120, 277, 347V) <sup>1</sup> DF Double fuse (208, 240, 480V) <sup>1</sup> DFL Diffusing lens		DDBXD Dark bronze <b>DDBTXD</b> Textured dark bronze DBLXD Black <b>DBLBXD</b> Textured black DNAXD Natural aluminum <b>DNATXD</b> Textured natural aluminum DWHXD White <b>DWHGXD</b> Textured white										

### Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>8</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>8</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>8</sup>
SCU	Shorting cap <sup>8</sup>
MRPT20 DDBXD U	2-3/8" tenon slipfitter (specify finish)
MRPT25 DDBXD U	2-7/8" tenon slipfitter (specify finish)
MRPT30 DDBXD U	3-1/2" tenon slipfitter (specify finish)
MRPT35 DDBXD U	4" tenon slipfitter (specify finish)
MRPF3 DDBXD U	3"OD round pole adapter (specify finish)
MRPF5 DDBXD U	5"OD round pole adapter (specify finish) <sup>3</sup>

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

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120 or 277 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- Also available as a separate accessory; see Accessories information at left.
- Maximum pole wall thickness is 0.156".
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.
- Not available with 347 or 480V.
- Requires an additional switched line.
- Dimming driver standard. Not available with 347V, 480V, SF, DF, PER5 or PER7.
- 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	40 K (4000 K, 70 CRI)				
				Lumens	B	U	G	LPW
42C (42 LEDs)	530	75W	SR2	6,605	1	2	1	88
			SR3	6,581	1	1	2	88
			SR4	6,537	1	1	2	87
			SR5	6,959	3	1	3	93
	700	100W	SR2	8,026	2	2	2	80
			SR3	7,997	1	2	2	80
			SR4	7,943	1	2	2	79
			SR5	8,456	3	2	3	85
	1000	151W	SR2	9,885	2	2	2	65
			SR3	9,848	2	2	2	65
			SR4	9,782	2	2	2	65
			SR5	10,414	4	2	4	69

### 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	1.06
10°C	50°F	1.04
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
40°C	104°F	0.96

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **MRP LED 42C 700** 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).

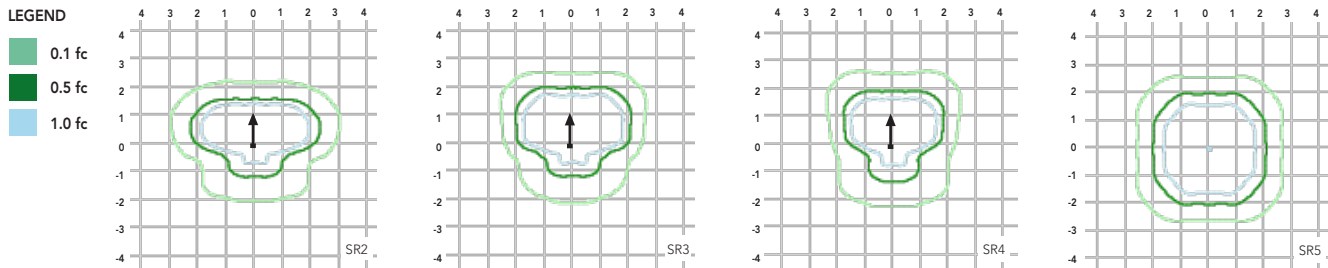
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.96	0.92	0.85

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [MRP LED homepage](#).

Isofootcandle plots are considered to be representative of available optical distributions.



## FEATURES & SPECIFICATIONS

### INTENDED USE

Streets, walkways, parking lots and surrounding areas.

### CONSTRUCTION

Single-piece die-cast aluminum housing with nominal wall thickness of .012". Die-cast top access doorframe has impact-resistant, tempered glass lens (3/16" thick). Doorframe is fully gasketed with one-piece tubular silicone.

### 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 acrylic refractive optics for optimum light distribution through the flat glass lens. Light engines are available in standard 4000K or optional 3000K or 5000K (70 CRI) configurations.

### ELECTRICAL

Light engine consists of 42 high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low for operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Standard post-top mounting configuration fits into a 4" OD open pole top (round pole only). Multiple options and accessories are available for other mounting needs.

### LISTINGS

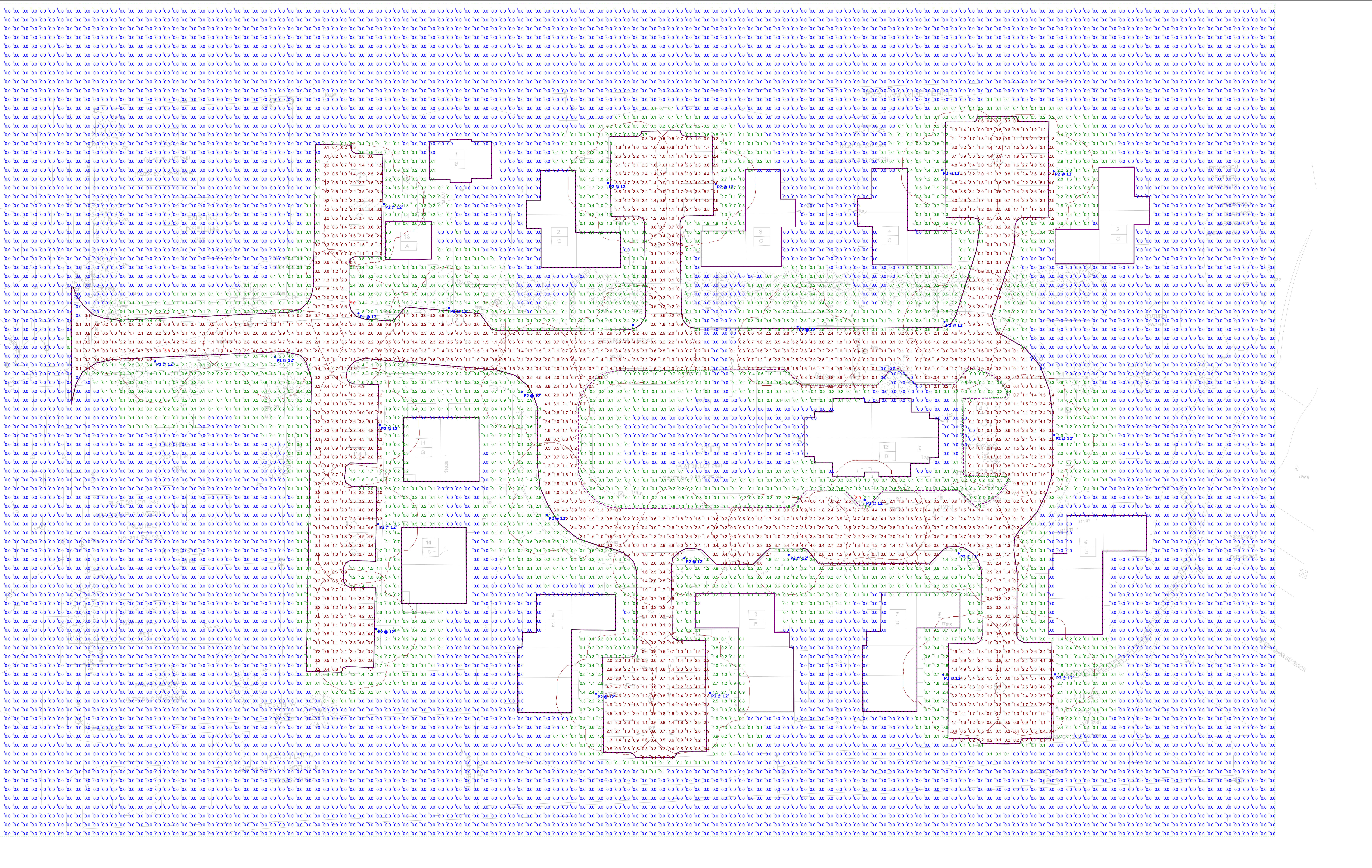
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. **U.S. Patent No. D556,357.**

### WARRANTY

Five year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**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.





**Plan View**  
Scale - 1" = 20'

PPT - Palmer Point  
Lithonia  
3-1-2016

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Inner Perimeter	+	0.2 fc	3.0 fc	0.0 fc	N/A	N/A
Outer Perimeter	+	0.1 fc	5.0 fc	0.0 fc	N/A	N/A
Street and Parking Lot	+	1.6 fc	5.8 fc	0.0 fc	N/A	N/A

**Note**

- Calculations taken at 0' AFF
- Fixtures mounted at 12' AFF
- Iso-footcandle curves set at 0.25fc

*These drawings are for conceptual use only and are not intended for construction. Values represented are an approximation generated from manufacturers photometric inhouse or independent lab tests with data supplied by lamp manufacturers.*

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	<b>P1</b>	3	Lithonia Lighting	MRP LED 42C 530 30K SR2 MVOLT	MRP POST TOP LIGHT 42 LEDs 530 mA DRIVE CURRENT 30K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	MRP_LED_42C_530_30K_SR2_MVOLT.iies	5456	0.9	75
	<b>P2</b>	23	Lithonia Lighting	MRP LED 42C 530 30K SR3 MVOLT	MRP POST TOP LIGHT 42 LEDs 530 mA DRIVE CURRENT 30K COLOR TEMP TYPE 3 DISTRIBUTION	HLM LIGHT ENGINE	MRP_LED_42C_530_30K_SR3_MVOLT.iies	5436	0.9	75