# MRP LED
## LED Area Luminaire

NIGHTTIME FRIENDLY™ · A+ CAPABLE · BAA · BABA

OMERO))

## Specifications

| | |
|---|---|
| EPA: | 1.125 ft² (0.105 m²) |
| Luminaire Height: | 6-3/8" (16.2 cm) |
| Overall Height: | 32" (81.3 cm) |
| Diameter: | 18" (45.7 cm) |
| Weight (max): | 37.5 lbs (17 kg) |



## A+ 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 interoperability1

- This luminaire is part of an A+ Certified solution for ROAM® control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background1

To learn more about A+,
visit 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

---

A+ Capable options indicated by this color background.

## Ordering Information

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

### MRP LED

| Series | LEDs | Drive current | Color temperature | Distribution | Voltage | | Mounting | |
|---|---|---|---|---|---|---|---|---|
| MRP LED | 42C  42 LEDs (one engine) | 350  350mA<br>530  530mA<br>700  700mA<br>1000  1000mA (1A) | 30K  3000K<br>40K  4000K<br>50K  5000K | SR2  Type II<br>SR3  Type III<br>SR4  Type IV<br>SR5  Type V | MVOLT¹<br>120²<br>208²<br>240² | 277²<br>347²<br>480² | **Shipped included**<br>(blank)  Fits 4" OD round pole<br>**Shipped separately**³<br>MRPT20  2-3/8" tenon slipfitter<br>MRPT25  2-7/8" tenon slipfitter | **Shipped separately**³<br>MRPT30  3-1/2" tenon slipfitter<br>MRPT35  4" tenon slipfitter<br>MRPF3  3" OD round pole adapter<br>MRPF5  5" OD round pole adapter⁴ |

| Control options | | Other options | Finish *(required)* | |
|---|---|---|---|---|
| **Shipped installed**<br>PER  NEMA twist-lock receptacle only (control ordered separate)<br>PER5  Five-wire receptacle only (control ordered separate) ⁵<br>PER7  Seven-wire receptacle only (control ordered separate) ⁵ | DMG  0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ⁶ | SF  Single fuse (120, 277, 347V) ²<br>DF  Double fuse (208, 240, 480V) ² | DDBXD  Dark bronze<br>DBLXD  Black<br>DNAXD  Natural aluminum<br>DWHXD  White | DDBTXD  Textured dark bronze<br>DBLBXD  Textured black<br>DNATXD  Textured natural aluminum<br>DWHGXD  Textured white |

## Ordering Information

### NOTES
1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
3. Also available as a separate accessory; see Accessories information at left.
4. Maximum pole wall thickness is 0.156".
5. If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.
6. DMG not available with PER, PER5 or PER7.
7. 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 | 30K | | | | | 40K | | | | | 50K | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 42C (42 LEDs) | 530 | 75W | SR2 | 5,456 | 1 | 2 | 1 | 73 | 6,605 | 1 | 2 | 1 | 88 | 6,671 | 1 | 2 | 1 | 89 |
| | | | SR3 | 5,436 | 1 | 1 | 1 | 72 | 6,581 | 1 | 1 | 2 | 88 | 6,647 | 1 | 1 | 2 | 89 |
| | | | SR4 | 5,399 | 1 | 1 | 1 | 72 | 6,537 | 1 | 1 | 2 | 87 | 6,602 | 1 | 1 | 2 | 88 |
| | | | SR5 | 5,748 | 3 | 1 | 3 | 77 | 6,959 | 3 | 1 | 3 | 83 | 7,029 | 3 | 1 | 3 | 94 |
| | 700 | 100W | SR2 | 6,630 | 1 | 2 | 1 | 66 | 8,026 | 2 | 2 | 2 | 80 | 8,106 | 2 | 2 | 2 | 81 |
| | | | SR3 | 6,605 | 1 | 1 | 2 | 66 | 7,997 | 1 | 2 | 2 | 80 | 8,077 | 1 | 2 | 2 | 81 |
| | | | SR4 | 6,561 | 1 | 1 | 2 | 66 | 7,943 | 1 | 2 | 2 | 79 | 8,022 | 1 | 2 | 2 | 80 |
| | | | SR5 | 6,985 | 3 | 1 | 3 | 70 | 8,456 | 3 | 2 | 3 | 85 | 8,541 | 3 | 2 | 3 | 85 |
| | 1000 | 151W | SR2 | 8,165 | 2 | 2 | 2 | 54 | 9,885 | 2 | 2 | 2 | 65 | 9,983 | 2 | 2 | 2 | 66 |
| | | | SR3 | 8,135 | 1 | 2 | 2 | 54 | 9,848 | 2 | 2 | 2 | 65 | 9,947 | 2 | 2 | 2 | 66 |
| | | | SR4 | 8,080 | 2 | 2 | 2 | 54 | 9,782 | 2 | 2 | 2 | 65 | 9,880 | 2 | 2 | 2 | 65 |
| | | | SR5 | 8,602 | 3 | 2 | 3 | 57 | 10,414 | 4 | 2 | 4 | 70 | 10,518 | 4 | 2 | 4 | 70 |

#### PER Table

| Control | PER (3 wire) | PER5 (5 wire) | | PER7 (7 wire) | | |
|---|---|---|---|---|---|---|
| | | | Wire 4/Wire5 | | Wire 4/Wire5 | Wire 6/Wire7 |
| Photocontrol Only (On/Off) | ✔ | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | 🚫 | ✔ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | 🚫 | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Futureproof* | 🚫 | ⚠ | Wired to dimming leads on driver | ✔ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Futureproof* with Motion | 🚫 | ⚠ | Wired to dimming leads on driver | ✔ | Wired to dimming leads on driver | Wires Capped inside fixture |

✔ Recommended
🚫 Will not work
⚠ Alternate

*Futureproof means: Ability to change controls in the future.

### 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 |
| **25°C** | **77°F** | **1.00** |
| 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.

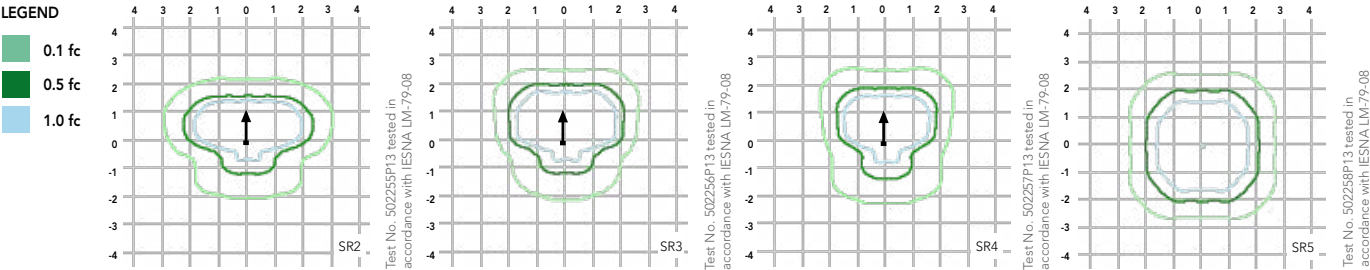| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|---|---|---|---|---|
| Lumen Maintenance Factor | 1.0 | 0.96 | 0.92 | 0.85 |

**LITHONIA LIGHTING®**

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonia.com
© 2011-2024 Acuity Brands Lighting, Inc. All rights reserved.

COMMERCIAL OUTDOOR

MRP-LED
Rev. 03/26/24

## 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.

**LEGEND**

- 0.1 fc
- 0.5 fc
- 1.0 fc

SR2 — Test No. 502255P13 tested in accordance with IESNA LM-79-08

SR3 — Test No. 502256P13 tested in accordance with IESNA LM-79-08

SR4 — Test No. 502257P13 tested in accordance with IESNA LM-79-08

SR5 — Test No. 502258P13 tested in accordance with IESNA LM-79-08

## 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 3000K (70 CRI) or optional 4000K (70 CRI) 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.**

**GOVERNMENT PROCUREMENT**
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/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

**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.