



# WSR LED

## Architectural Wall Sconce



Inverted available with  
WLU option only.

Catalog  
Number

Notes

Type

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

### Introduction

Classic Architectural Wall Sconce with the LED technology. Long-life, maintenance-free product with typical energy savings of 80% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity. The WSR LED is ideal for replacing existing 50 – 250W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

### Specifications

#### Luminaire

**Height:** 7-1/4"  
(18.4 cm)

**Width:** 18"  
(45.7 cm)

**Depth:** 9"  
(22.8 cm)

**Weight:** 17 lbs  
(7.7 kg)

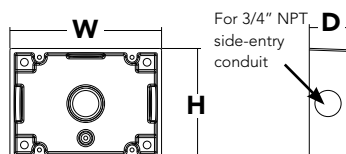


### Optional Back Box (BBW)

**Height:** 4"  
(10.2 cm)

**Width:** 5-1/2"  
(14.0 cm)

**Depth:** 1-1/2"  
(3.8 cm)



### Ordering Information

### EXAMPLE: WSR LED P2 40K SR3 MVOLT DDBTXD

| WSR LED |                     |                   |              |                    |                                       |                                                                                                       |                                  |
|---------|---------------------|-------------------|--------------|--------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
| Series  | Performance Package | Color Temperature | Distribution | Voltage            | Mounting                              | Options                                                                                               | Finish (required)                |
| WSR LED | P1                  | 30K               | SR2 Type II  | MVOLT <sup>1</sup> | <b>Shipped included</b>               | <b>Shipped installed</b>                                                                              | DDBXD Dark bronze                |
|         | P2                  | 40K               | SR3 Type III | 120                | (blank) Surface mount                 | PE Photoelectric cell, button type <sup>2,3</sup>                                                     | DBLXD Black                      |
|         | P3                  | 50K               | SR4 Type IV  | 208                | <b>Shipped separately<sup>2</sup></b> | SF Single fuse (120, 277, 347V) <sup>4</sup>                                                          | DNAXD Natural aluminum           |
|         | P4                  |                   |              | 240                | BBW Surface-mounted back box          | DF Double fuse (208, 240, 480V) <sup>4</sup>                                                          | DWHXD White                      |
|         |                     |                   |              | 277                |                                       | DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) | DSSXD Sandstone                  |
|         |                     |                   |              | 347                |                                       | E20WC Emergency battery backup, (18W, -20°C), Certified in CA Title 20 MAEDBS <sup>5</sup>            | DDBTXD Textured dark bronze      |
|         |                     |                   |              | 480                |                                       | E10WH Emergency battery backup, (10W, 5°C), Certified in CA Title 20 MAEDBS <sup>5</sup>              | DBLBXD Textured black            |
|         |                     |                   |              |                    |                                       | WLU Wet location door for up orientation <sup>6</sup>                                                 | DNATXD Textured natural aluminum |
|         |                     |                   |              |                    |                                       | PIR Motion/ambient light sensor <sup>7</sup>                                                          | DWHGXD Textured white            |
|         |                     |                   |              |                    |                                       | DS Dual switching <sup>8</sup>                                                                        | DSSTXD Textured sandstone        |
|         |                     |                   |              |                    |                                       | SPD Separate Surge Protection <sup>9</sup>                                                            |                                  |
|         |                     |                   |              |                    |                                       | <b>Shipped separately</b>                                                                             |                                  |
|         |                     |                   |              |                    |                                       | VG Vandal guard                                                                                       |                                  |
|         |                     |                   |              |                    |                                       | WG Wire guard                                                                                         |                                  |

### Emergency Battery Operation

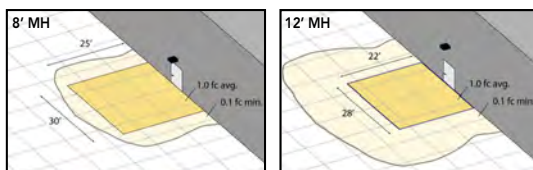
The emergency battery backup (E20WC & E10WH options) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All E20WC and E10WH configurations include an independent secondary driver with an integral relay to immediately detect AC power loss.

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package Type IV product in emergency mode.

WSR P1 LED 40K SR4 MVOLT E20WC  
10' x 10' Gridlines  
8' and 12' Mounting Height



### NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 2 Not available with 480V option.
- 3 PE requires specified voltage.
- 4 Single fuse (SF) requires 120V, 277V or 347V options. Double fuse (DF) requires 208V, 240V or 480V options.
- 5 Not available with 347V or 480V. Not available with WLU.
- 6 WLU not available with PIR, E20WC or E10WH.
- 7 When ordering PIR, "PE" will be automatically added to the order line for "dim to off" capability. See PIR Table for default settings.
- 8 Only available with P3 & P4 packages. Provides 50/50 luminaire operation via two independent drivers and light engines on two separate circuits. Not available with E20WC, E10WH, WLU, SF, or DF. When ordered with photocell (PE) or motion sensor (PIR), only the primary power source leads will be controlled.
- 9 See electrical section on page 2 for more details.



## 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.

| Performance Package | System Watts (MVOLT) | Dist. Type | 30K (3000K, 70CRI) |     | 40K (4000K, 70CRI) |     | 50K (5000K, 70CRI) |     |
|---------------------|----------------------|------------|--------------------|-----|--------------------|-----|--------------------|-----|
|                     |                      |            | Lumens             | LPW | Lumens             | LPW | Lumens             | LPW |
| P1                  | 20W                  | SR2        | 2,111              | 108 | 2,251              | 115 | 2,305              | 118 |
|                     |                      | SR3        | 2,104              | 108 | 2,244              | 115 | 2,298              | 117 |
|                     |                      | SR4        | 2,053              | 105 | 2,189              | 112 | 2,242              | 115 |
| P2                  | 29W                  | SR2        | 2,943              | 101 | 3,139              | 108 | 3,214              | 110 |
|                     |                      | SR3        | 2,934              | 101 | 3,129              | 107 | 3,204              | 110 |
|                     |                      | SR4        | 2,863              | 98  | 3,053              | 105 | 3,126              | 107 |
| P3                  | 40W                  | SR2        | 4,500              | 114 | 4,799              | 122 | 4,913              | 125 |
|                     |                      | SR3        | 4,486              | 114 | 4,784              | 122 | 4,898              | 125 |
|                     |                      | SR4        | 4,377              | 111 | 4,667              | 119 | 4,779              | 122 |
| P4                  | 61W                  | SR2        | 6,159              | 102 | 6,567              | 108 | 6,724              | 111 |
|                     |                      | SR3        | 6,139              | 101 | 6,547              | 108 | 6,703              | 110 |
|                     |                      | SR4        | 5,991              | 99  | 6,388              | 105 | 6,541              | 108 |

#### Motion/Ambient Sensor Default Settings

|      | Dimmed State    | High Level (when triggered) | Photocell Operation | Ramp-up Time | Dwell Time | Ramp-down Time |
|------|-----------------|-----------------------------|---------------------|--------------|------------|----------------|
| *PIR | 3V (37%) Output | 10V (100%) Output           | Enabled @ 5FC       | 3 sec        | 5 min      | 5 min          |

\*PIR USES SFOD 7

### 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     | Normalized Lumen Multiplier |
|-------------|-----------------------------|
| 0°C         | 1.05                        |
| 10°C        | 1.03                        |
| 20°C        | 1.01                        |
| <b>25°C</b> | <b>1.00</b>                 |
| 30°C        | 0.99                        |
| 40°C        | 0.97                        |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **MRW LED P4** 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 | 25000 | 50000 | 100000 | L90    |
|--------------------------|---|-------|-------|--------|--------|
| Lumen Maintenance Factor | 1 | 0.96  | 0.95  | 0.92   | >60000 |

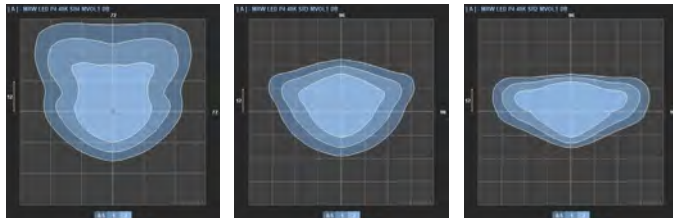
### Electrical Load

| Power Package | System Watts | Current (A) |      |      |      |      |      |
|---------------|--------------|-------------|------|------|------|------|------|
|               |              | 120V        | 208V | 240V | 277V | 347V | 480V |
| P1            | 20W          | 0.17        | 0.10 | 0.09 | 0.08 | 0.06 | 0.05 |
| P2            | 29W          | 0.26        | 0.15 | 0.13 | 0.12 | 0.09 | 0.07 |
| P3            | 40W          | 0.37        | 0.21 | 0.18 | 0.16 | 0.13 | 0.09 |
| P4            | 61W          | 0.59        | 0.33 | 0.18 | 0.25 | 0.19 | 0.14 |

## Photometric Diagrams

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

Isofootcandle plots for the WSR LED P4 40K SR2, SR3, and SR4. Distances are in units of mounting height (12').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The classic architectural shape of the WSR LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

### CONSTRUCTION

The die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

### 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, sandstone and white. Available in textured and non-textured finishes.

### OPTICS

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WSR LED 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 8 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, THD <20%, and a minimum 6 kV surge protection. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### 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/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.

