# TWR1 LED
## LED Wall Luminaire

Catalog Number

Notes

Type

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

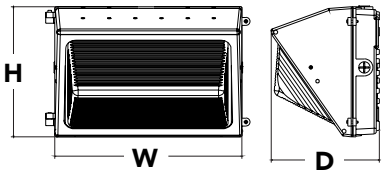
## Specifications

**Width:** 12-15/16" *(32.9 cm)*

**Height:** 9" *(22.9 cm)*

**Depth:** 7-1/2" *(19 cm)*

**Weight:** 11.95 lbs *(5.42kg)*




## Introduction

The popular TWR1 luminaire is now available with long-lasting, energy-efficient LED technology. Featuring a classic dayform, the TWR1 LED offers a traditional appearance and is powered by advanced LEDs.

The TWR1 LED luminaire is powerful yet energy efficient, capable of replacing up to a 350W metal halide luminaire while saving up to 86% in energy costs. Offering an expected service life of more than 20 years, the TWR1 LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

## Ordering Information

**EXAMPLE:** TWR1 LED 2 50K MVOLT

| TWR1 LED | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Series** | **Performance Package** | | **Color Temperature** | | **Voltage** | **Controls** | | **Finish** | |
| TWR1 LED | 1 | 3,400 lumens | 40K | 4000 K [1] | MVOLT [3] | (blank) | No controls | (blank) | Dark bronze |
| | 2 | 4,100 lumens | 50K | 5000 K [1] | | PE [3] | MVOLT photo control | | |
| | 3 | 5,100 lumens | | | | | | | |

NOTES
1. Correlated color temperature (CCT) shown is nominal per ANSI C78, 377-2008.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3. Photo control not available with 4000 K.

## FEATURES & SPECIFICATIONS

### INTENDED USE
The TWR1 LED combines traditional wall pack design with high-output LEDs to provide an energy-efficient, low maintenance LED wall pack suitable for replacing up to 350W MH fixtures. The traditional shape helps maintain building aesthetics when replacing only a portion of your building's wall packs. TWR1 LED is ideal for outdoor applications such as carports, loading areas, driveways and parking areas.

### CONSTRUCTION
Rugged cast-aluminum housing with bronze polyester powder paint for lasting durability. Door is hinged on the side so door swings out of the way during installation and service. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. MVOLT driver operates on any line voltage from 120-277V (50/60Hz). TWR1 LED 1 has 6kV surge protection. TWR1 LED 2 and 3 have 10kV protection. Rated for outdoor installations, -40°C minimum ambient.

### OPTICS
High-performance LEDs maintain up to 90% of light output at 100,000 hours of service life (L90/100,000 hours). Prismatic glass lens designed for superior lighting distribution, uniformity and fixture spacing. See Lighting Facts label and photometry reports for specific fixture performance.

### INSTALLATION
Designed for wall mounting above four feet from ground. Housing is configured for mounting directly over a standard 4" outlet box (by others) or for surface wiring via any of three convenient 1/2" threaded conduit entry hubs.

### LISTINGS
UL Listed to U.S. and Canadian safety standards for wet locations. Tested in accordance with IESNA LM-79 and LM-80 standards.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

### WARRANTY
5-year limited warranty. Complete warranty terms located at: 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.

LITHONIA LIGHTING
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# 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.

| Fixture Model Number | System Watts | Lumens | B | U | G | LPW | CRI |
|---|---|---|---|---|---|---|---|
| TWR1 LED 1 40K MVOLT | 33 | 3,786 | 1 | 4 | 3 | 114 | 80 |
| TWR1 LED 1 50K MVOLT | 33 | 3,484 | 1 | 4 | 3 | 106 | 80 |
| TWR1 LED 2 40K MVOLT | 39 | 4,422 | 1 | 4 | 3 | 113 | 80 |
| TWR1 LED 2 50K MVOLT | 40 | 4,189 | 1 | 4 | 3 | 104 | 80 |
| TWR1 LED 3 40K MVOLT | 48 | 5,390 | 1 | 4 | 4 | 114 | 80 |
| TWR1 LED 3 50K MVOLT | 49 | 5,138 | 1 | 4 | 4 | 105 | 80 |

## Electrical Load

| | | Current Load (A) @ | | | |
|---|---|---|---|---|---|
| Fixture Model Number | System Watts | 120V | 208V | 240V | 277V |
| TWR1 LED 1 40K MVOLT | 33W | 0.31 | 0.18 | 0.15 | 0.13 |
| TWR1 LED 1 50K MVOLT | 33W | 0.34 | 0.20 | 0.17 | 0.15 |
| TWR1 LED 2 40K MVOLT | 39W | 0.36 | 0.21 | 0.18 | 0.16 |
| TWR1 LED 2 50K MVOLT | 40W | 0.40 | 0.23 | 0.20 | 0.17 |
| TWR1 LED 3 40K MVOLT | 48W | 0.51 | 0.29 | 0.25 | 0.22 |
| TWR1 LED 3 50K MVOLT | 49W | 0.56 | 0.32 | 0.28 | 0.24 |

## 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 | 1.03 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1.00 |
| **25°C** | **77°F** | **1.00** |
| 30°C | 86°F | 0.99 |
| 40°C | 104°F | 0.98 |

## Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a **40°C ambient**, based on 6,000 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 | 60,000 | 100,000 |
|---|---|---|---|---|---|
| LM Factor TWR1 LED | 1.0 | >0.96 | >0.94 | >0.92 | >0.90 |

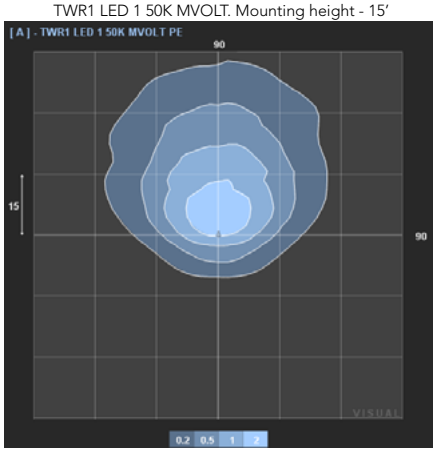
# Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting TWR1 LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

**LEGEND**

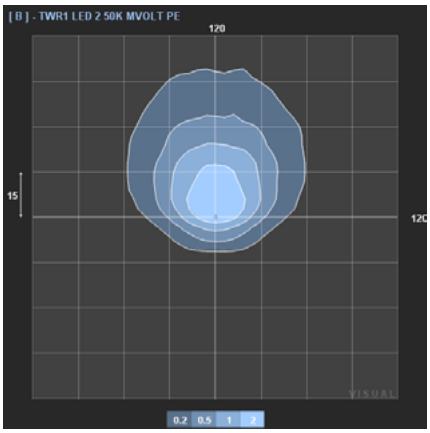
- 0.2 fc
- 0.5 fc
- 1.0 fc
- 2.0 fc

TWR1 LED 1 50K MVOLT. Mounting height - 15'



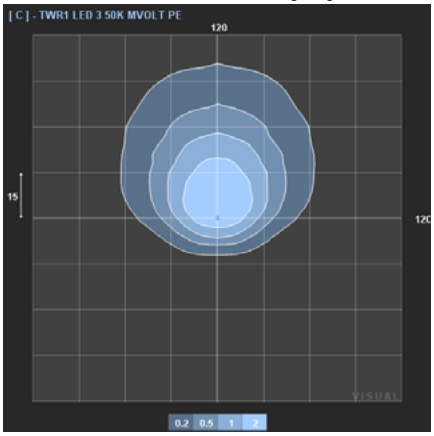

Test No. ISF 32821 tested in accordance with IESNA LM-79-08.

TWR1 LED 2 50K MVOLT. Mounting height - 15'




Test No. ISF 32820 tested in accordance with IESNA LM-79-08.

TWR1 LED 3 50K MVOLT. Mounting height - 15'




Test No. ISF 32819 tested in accordance with IESNA LM-79-08.



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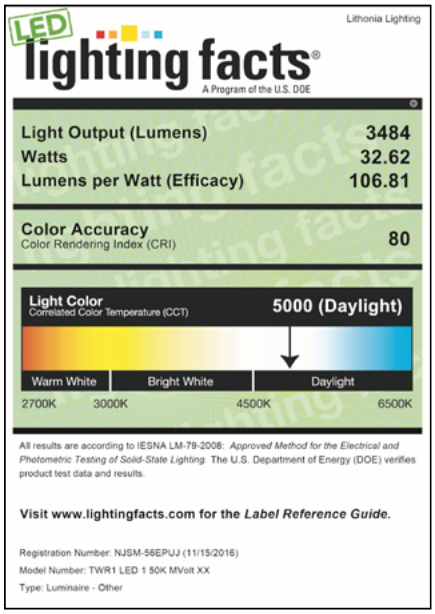
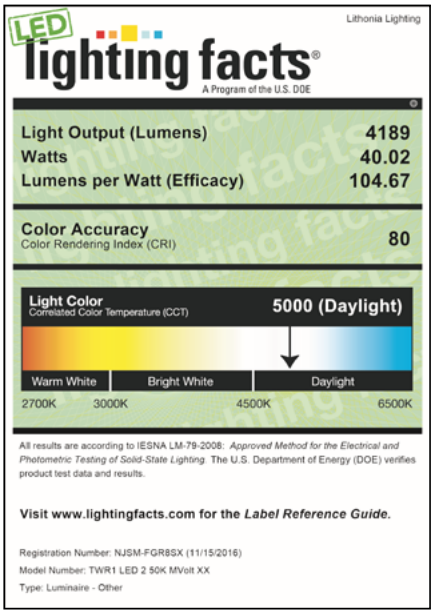
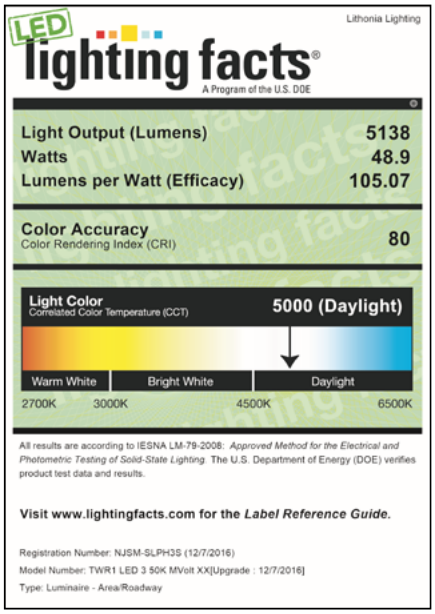
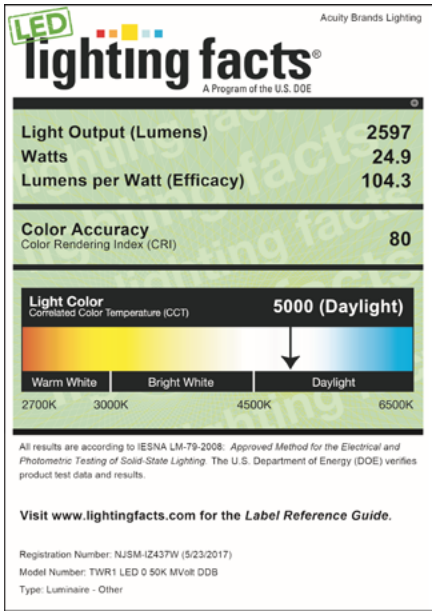
## Lighting Facts Labels





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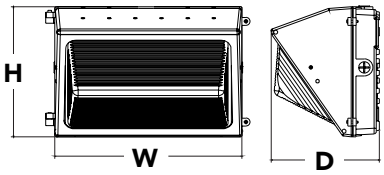


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### INSTALLATION
Designed for wall mounting above four feet from ground. Housing is configured for mounting directly over a standard 4" outlet box (by others) or for surface wiring via any of three convenient 1/2" threaded conduit entry hubs.

### LISTINGS
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| Operating Hours | 0 | 25,000 | 50,000 | 60,000 | 100,000 |
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| LM Factor TWR1 LED | 1.0 | >0.96 | >0.94 | >0.92 | >0.90 |

# Photometric Diagrams

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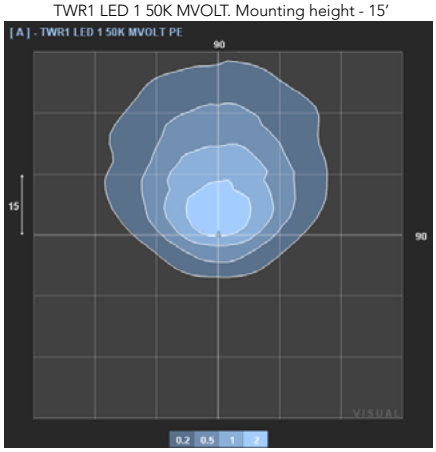
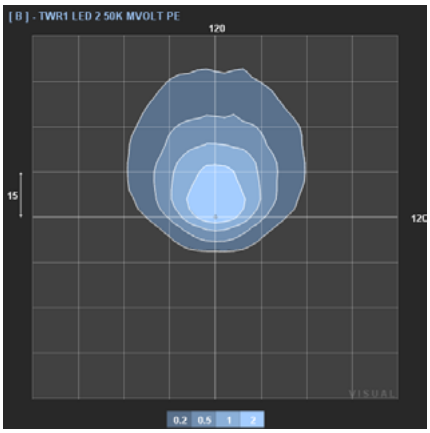
TWR1 LED 1 50K MVOLT. Mounting height - 15'




Test No. ISF 32821 tested in accordance with IESNA LM-79-08.

TWR1 LED 2 50K MVOLT. Mounting height - 15'

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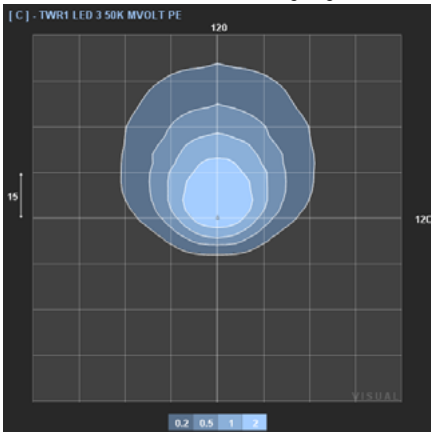
TWR1 LED 3 50K MVOLT. Mounting height - 15'

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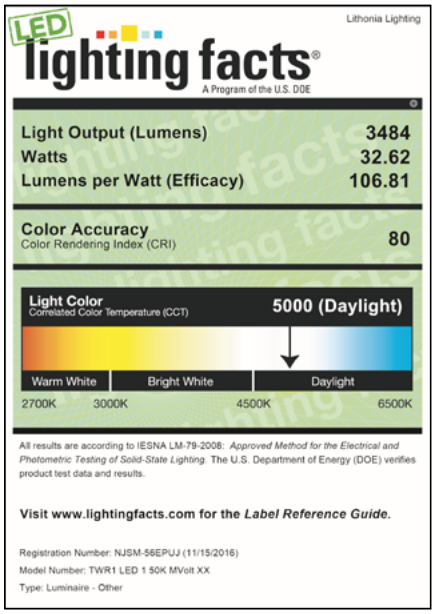
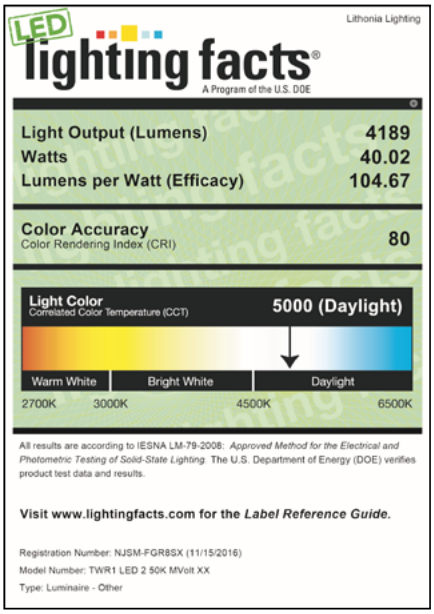
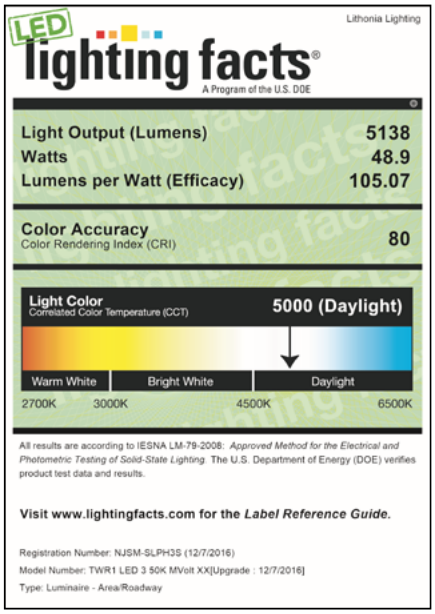
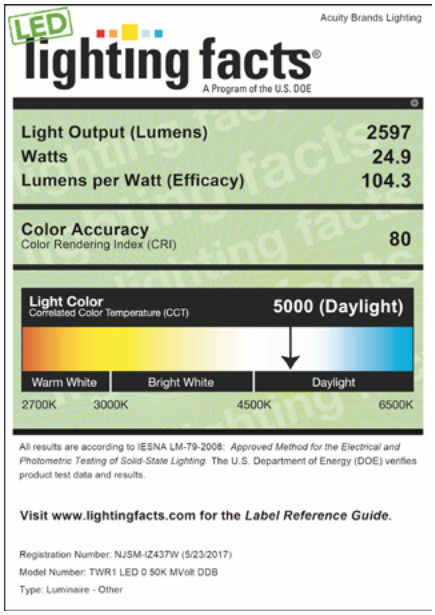
## Lighting Facts Labels





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