



WST LED

Architectural Wall Sconce



Catalog
Number

Notes

Type

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

Specifications

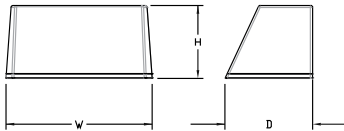
Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)

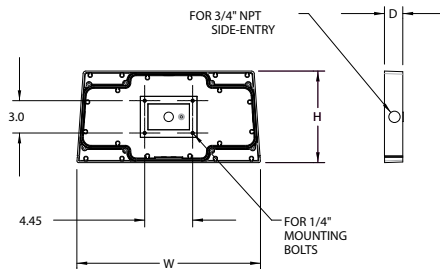


Optional Back Box (PBBW)

Height: 8.49"
(21.56 cm)

Width: 17.01"
(43.21 cm)

Depth: 1.70"
(4.32 cm)

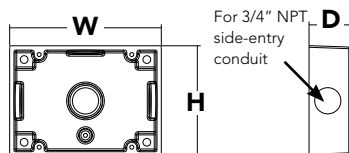


Optional Back Box (BBW)

Height: 4"
(10.2 cm)

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

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



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® 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 background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

See ordering tree for details.

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: WST LED P1 40K VF MVOLT DDBTXD

| WST LED | | | | | | |
|---------|------------------------|-------------------|---------------------------------|--------------------|------------------|---|
| Series | Performance Package | Color temperature | Distribution | Voltage | | Mounting |
| WST LED | P1 1,500 Lumen package | 27K 2700 K | VF Visual comfort forward throw | MVOLT ¹ | 277 ² | Shipped included (blank) Surface mounting bracket Shipped separately BBW Surface-mounted back box ³ PBBW Premium surface-mounted back box ^{3,4} |
| | P2 3,000 Lumen package | 30K 3000 K | VW Visual comfort wide | 120 ² | 347 ² | |
| | P3 6,000 Lumen package | 40K 4000 K | | 208 ² | 480 ² | |
| | | 50K 5000 K | | 240 ² | | |

| Options | | Finish (required) |
|---------------------------|---|----------------------------------|
| NLTAIR2 PIR | nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights ^{5,6} | DDBXD Dark bronze |
| NLTAIR2 PIRH | nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights ^{5,6} | DBLXD Black |
| PE | Photoelectric cell, button type ⁷ | DNAXD Natural aluminum |
| PER | NEMA twist-lock receptacle only (controls ordered separate) ⁸ | DWHXD White |
| PER5 | Five-wire receptacle only (controls ordered separate) ⁸ | DSSXD Sandstone |
| PER7 | Seven-wire receptacle only (controls ordered separate) ⁸ | DDBTXD Textured dark bronze |
| PIR | Motion/Ambient Light Sensor, 8'-15' mounting height ^{5,6} | DBLBXD Textured black |
| PIR1FC3V | Motion/ambient sensor, 8'-15' mounting height, ambient sensor enabled at 1fc ^{5,6} | DNATXD Textured natural aluminum |
| PIRH | 180° motion/ambient light sensor, 15'-30' mounting height ^{5,6} | DWHGXD Textured white |
| PIRH1FC3V | Motion/ambient sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ^{5,6} | DSSTXD Textured sandstone |
| SF | Single fuse (120, 277, 347V) ² | |
| DF | Double fuse (208, 240, 480V) ² | |
| DS | Dual switching ⁹ | |
| E7WH | Emergency battery backup, Non CEC compliant (7W) ¹⁰ | |
| E7WC | Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{10,11} | |
| E7WHR | Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{10,12} | |
| E20WH | Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ¹⁰ | |
| E20WC | Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{10,11} | |
| E23WHR | Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{10,11,13} | |
| LCE | Left side conduit entry ¹⁴ | |
| RCE | Right side conduit entry ¹⁴ | |
| Shipped separately | | |
| RBPW | Retrofit back plate ³ | |
| VG | Vandal guard ¹⁵ | |
| WG | Wire guard ¹⁵ | |

Accessories

Ordered and shipped separately.

| | |
|-------------------|------------------------------------|
| WSTVCPBBW DDBXD U | Premium Surface - mounted back box |
| WSBBW DDBTX U | Surface - mounted back box |
| RBPW DDBXD U | Retrofit back plate |

NOTES

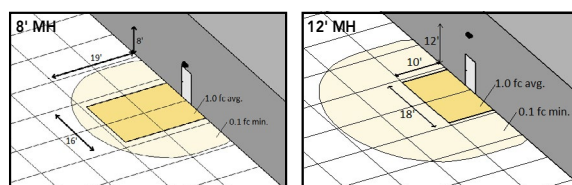
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Not available with VG or WG. See PER Table.
- Reference Motion Sensor table.
- Need to specify 120, 208, 240 or 277 voltage.

- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Not available with Emergency options, PE or PER options.
- Not available with 347/480V.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.

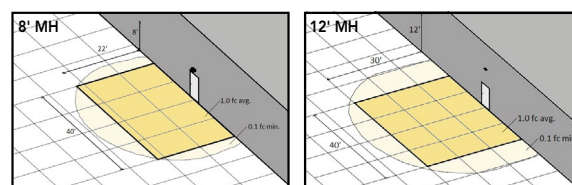
Emergency Battery Operation

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#). 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 and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

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 | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 40°C | 104°F | 0.98 |

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | >0.95 | >0.92 | >0.87 |

Electrical Load

| Performance package | System Watts | Current (A) | | | | | |
|---------------------|--------------|-------------|------|------|------|------|------|
| | | 120 | 208 | 240 | 277 | 347 | 480 |
| P1 | 11 | 0.1 | 0.06 | 0.05 | 0.04 | --- | --- |
| | 14 | --- | --- | --- | --- | 0.04 | 0.03 |
| P1 DS | 14 | 0.12 | 0.07 | 0.06 | 0.06 | --- | --- |
| P2 | 25 | 0.21 | 0.13 | 0.11 | 0.1 | --- | --- |
| | 30 | --- | --- | --- | --- | 0.09 | 0.06 |
| P2 DS | 25 | 0.21 | 0.13 | 0.11 | 0.1 | --- | --- |
| P3 | 50 | 0.42 | 0.24 | 0.21 | 0.19 | --- | --- |
| | 56 | --- | --- | --- | --- | 0.16 | 0.12 |
| P3 DS | 52 | 0.43 | 0.26 | 0.23 | 0.21 | --- | --- |

Motion Sensor Default Settings

| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Ramp-up Time | Dwell Time | Ramp-down Time |
|-----------------------|-----------------|-----------------------------|---------------------|--------------|------------|----------------|
| *PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 3 sec | 5 min | 5 min |
| PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 3 sec | 5 min | 5 min |

*for use with site wide Dusk to Dawn control

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 | ✗ | ⚠ | 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 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.

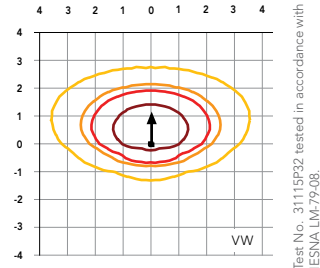
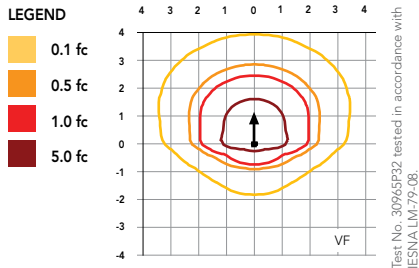
| Performance Package | System Watts (MVOLT ¹) | Dist. Type | 27K (2700K, 70 CRI) | | | | | 30K (3000K, 70 CRI) | | | | | 40K (4000K, 70 CRI) | | | | | 50K (5000K, 70 CRI) | | | | |
|---------------------|------------------------------------|------------|---------------------|---|---|---|-----|---------------------|---|---|---|-----|---------------------|---|---|---|-----|---------------------|---|---|---|-----|
| | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| P1 | 12W | VF | 1,494 | 0 | 0 | 0 | 125 | 1,529 | 0 | 0 | 0 | 127 | 1,639 | 0 | 0 | 0 | 137 | 1,639 | 0 | 0 | 0 | 137 |
| | | VW | 1,513 | 0 | 0 | 0 | 126 | 1,548 | 0 | 0 | 0 | 129 | 1,659 | 0 | 0 | 0 | 138 | 1,660 | 0 | 0 | 0 | 138 |
| P2 | 25W | VF | 3,163 | 1 | 0 | 1 | 127 | 3,237 | 1 | 0 | 1 | 129 | 3,469 | 1 | 0 | 1 | 139 | 3,468 | 1 | 0 | 1 | 139 |
| | | VW | 3,201 | 1 | 0 | 0 | 128 | 3,276 | 1 | 0 | 0 | 131 | 3,512 | 1 | 0 | 0 | 140 | 3,512 | 1 | 0 | 0 | 140 |
| P3 | 50W | VF | 6,025 | 1 | 0 | 1 | 121 | 6,165 | 1 | 0 | 1 | 123 | 6,609 | 1 | 0 | 1 | 132 | 6,607 | 1 | 0 | 1 | 132 |
| | | VW | 6,098 | 1 | 0 | 1 | 122 | 6,240 | 1 | 0 | 1 | 125 | 6,689 | 1 | 0 | 1 | 134 | 6,691 | 1 | 0 | 1 | 134 |



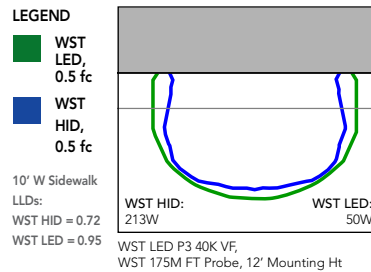
Photometric Diagrams

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

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST 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 single-piece 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

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST 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 98 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 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (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. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

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

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/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.