

WST LED Architectural Wall Sconce







Specifications

Luminaire

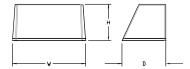
Height: 8-1/2"

(21.59 cm)

Width: 17" (43.18 cm)

Depth: 10-3/16"

Weight: 20 lbs



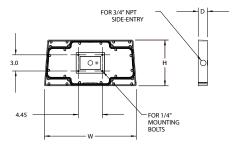
Optional Back Box (PBBW)

Height: 8.49" (21.56 cm)

Width: 17.01"

(43.21 cm)

Depth: 1.70" (4.32 cm)



Optional Back Box (BBW)

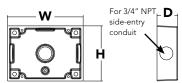
Height: 4"

(10.2 cm)

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

1-1/2"

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



COMMERCIAL OUTDOOR

Catalog Number
Notes
Туре

** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

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

- 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: <u>Link to Roam</u>; <u>Link to DTL DLL</u>





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

Options				Finish (requ	uired)
NLTAIR2 PIR NLTAIR2 PIRH PE PER PER5 PER7 PIR PIR1FC3V PIRH PIRH1FC3V SF DF DS DMG	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights 5.6 nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights 5.6 Photoelectric cell, button type 7 NEMA twist-lock receptacle only (controls ordered separate) 8 Five-wire receptacle only (controls ordered separate) 8 Seven-wire receptacle only (controls ordered separate) 8 Motion/Ambient Light Sensor, 8-15' mounting height 5.6 Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc 5.6 180° motion/ambient light sensor, 15-30' mounting height, ambient sensor enabled at 1fc 5.6 Single fuse (120, 277, 347V)² Double fuse (208, 240, 480V)² Dual switching° 0-10V dimming extend out back of housing for external control (control ordered separate)¹0 Emergency battery backup, Non CEC compliant (7W)¹¹	E7WC E7WHR E20WH E20WC E23WHR LCE RCE Shipped RBPW VG WG	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{11,12} Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{11,13} Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ¹¹ Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{11,12} Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{11,12,14} Left side conduit entry ¹⁵ Right side conduit entry ¹⁵ separately Retrofit back plate ³ Vandal guard ¹⁵ Wire guard ¹⁵	DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD DWHGXD DSSTXD	Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured black Textured natural aluminum Textured white Textured sandstone

Accessories

Ordered and shipped separately.

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

NOTES

- 1 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.
- 3 Also available as a separate accessory; see accessories information.
- 4 Top conduit entry standard.
- 5 Not available with VG or WG. See PER Table.
- 6 Reference Motion Sensor table.
- 7 Need to specify 120, 208, 240 or 277 voltage.

- 8 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 9 Not available with Emergency options, PE or PER options.
- 10 DMG option not available with standalone or networked sensors/ controls.
- 11 Not available with 347/480V.
- 12 Battery pack rated for -20° to 40°C.
- 13 Comes with PBBW.
- 14 Warranty period is 3-years.
- 15 Not available with BBW.
- 16 Must order with fixture; not an accessory.

Emergency Battery Operation

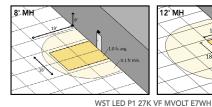
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

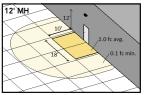
All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of NFPA 70/NEC 2008 - 700.16

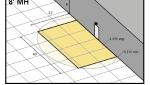
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and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

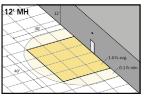
The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

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









WST LED 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 $^{\circ}$ C (32-104 F).

Amb	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

				Curre	nt (A)		
Performance package	System Watts	120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04		
r i	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		
P2	30					0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1		
D2	50	0.42	0.24	0.21	0.19		
P3	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		PER5 (5 wire)	PER7 (7 wire)							
Control	(3 wire)		Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7					
Photocontrol Only (On/Off)	~	A	Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
ROAM	0	~	Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
ROAM with Motion	0	A	Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
Futureproof*	0	A	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture					
Futureproof* with Motion	0	A	Wired to dimming leads on driver	~	Wired to dimming leads on driver	Wires Capped inside fixture					



Recommended



Alternate

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	System Watts	Dist.	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)						50K (5000K, 70 CRI)								
Package	(MVOLT ¹)	Туре	Lumens	В	U	G	LPW	Lumens	В		G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
D1		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
P1	12W	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
D2	25111	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
P2	25W	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
Da	FOW	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
P3	50W	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

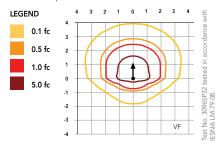


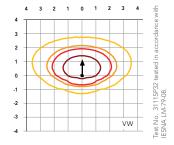
^{*}Futureproof means: Ability to change controls in the future.

Photometric Diagrams

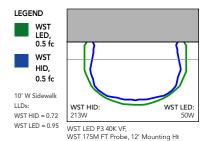
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

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 The product, meaning it is consistent with the LEED® and Green Globes The criteria for eliminating wasteful uplight.

COMMERCIAL OUTDOOR

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.

