

1 Photometric Plan
Scale: 3/321



STARBUCKS
2401 UTAH AVENUE SOUTH
SEATTLE, WASHINGTON 98134
(206) 318-1575

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PROJECT NAME:
POWER & LOMA VISTA

PROJECT ADDRESS:
**S POWER & LOOP 202
MESA, AZ**

STORE #: 82544
PROJECT #: 102687-001
ISSUE DATE: 09.21.2023
DESIGN MANAGER: J. CARVALHO
PRODUCTION DESIGNER: A. MORALES
CHECKED BY: J. MEYER

Revision Schedule			
Rev	Date	By	Description

SHEET TITLE:
**SITE PHOTOMETRICS
PLAN**
SCALE: AS SHOWN

SHEET NUMBER:
SD.7

DESIGN DEVELOPMENT ONLY - NOT INTENDED FOR CONSTRUCTION USE



WST LED Architectural Wall Sconce



Catalog Number
Notes
Type

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

Specifications

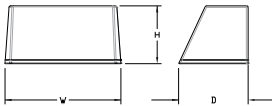
Luminaire

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)

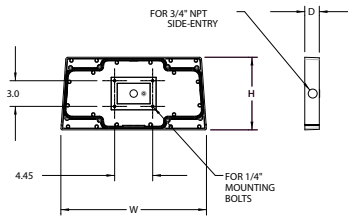


Optional Back Box (PBBW)

Height: 8.49"
(21.56 cm)

Width: 17.01"
(43.21 cm)

Depth: 1.70"
(4.32 cm)

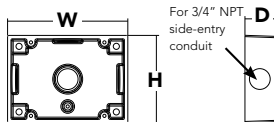


Optional Back Box (BBW)

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 background**¹

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](#)


21223	LED SECURITY LIGHT WST - SILVER - 1500LM FORWARD
21224	LED SECURITY LIGHT WST - SILVER - 1500LM WIDE
21225	LED SECURITY LIGHT WST - SILVER - 3000LM FORWARD
21226	LED SECURITY LIGHT WST - SILVER - 3000LM WIDE
21227	LED SECURITY LIGHT WST - BLACK - 1500LM FORWARD
21228	LED SECURITY LIGHT WST - BLACK - 1500LM WIDE
21229	LED SECURITY LIGHT WST - BLACK - 3000LM FORWARD
21230	LED SECURITY LIGHT WST - BLACK - 3000LM WIDE
21231	LED SECURITY LIGHT WST - DARK BRONZE - 1500LM FORWARD
21232	LED SECURITY LIGHT WST - DARK BRONZE - 1500LM WIDE
21233	LED SECURITY LIGHT WST - DARK BRONZE - 3000LM FORWARD
21234	LED SECURITY LIGHT WST - DARK BRONZE - 3000LM WIDE



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WST-LED
Rev. 09/06/19

 A+ Capable options indicated by this color background.

Ordering Information **EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD**

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 ^{4,4}

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	DBTXD Textured dark bronze
PIR Motion/Ambient Light Sensor, 8'-15' mounting height ^{5,6}	DBLXD 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	
DMG 0-10V dimming extend out back of housing for external control (control ordered separately) ¹⁰	
E7WH Emergency battery backup, Non CEC compliant (7W) ¹¹	
E7WC Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{11,12}	
E7WHR Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{11,13}	
E20WH Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ¹¹	
E20WC Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{11,12}	
E23WHR Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{11,12,14}	
LCE Left side conduit entry ¹⁵	
RCE Right side conduit entry ¹⁵	
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
WS8BW DDBTXD 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.
- DMG option not available with standalone or networked sensors/controls.
- 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.

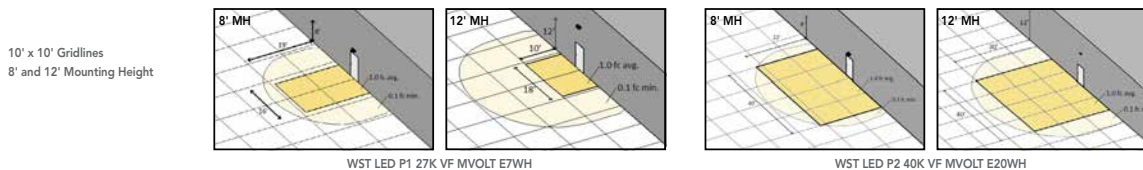
Emergency Battery Operation

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.



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WST-LED
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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
PIRIFCSV or PIRHIFCSV	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)	PERS (5 wire)		PER7 (7 wire)	
		Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7	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)	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
		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



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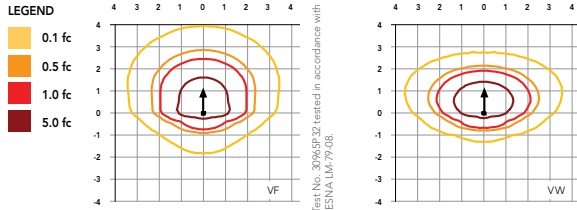
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Photometric Diagrams

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

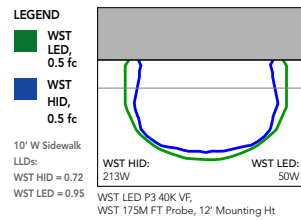
Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Test No. 3095SP-20 tested in accordance with IESNA LM-79-08.

Test No. 3114SP22 tested in accordance with IESNA LM-79-08.

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.



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