



WEDGE2 LED

Architectural Wall Sconce



Catalog Number

Notes

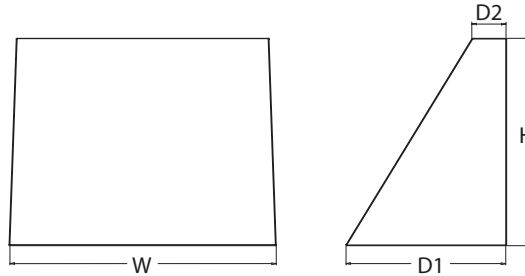
Type

W2

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

Specifications

| | |
|-------------------------------------|----------|
| Depth (D1): | 7" |
| Depth (D2): | 1.5" |
| Height: | 9" |
| Width: | 11.5" |
| Weight: (without options) | 13.5 lbs |



Introduction

The WEDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WEDGE family provides additional energy savings and code compliance.

WEDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WEDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WEDGE LED Family Overview

| Luminaire | Standard EM, 0°C | Cold EM, -20°C | Sensor | Lumens (4000K) | | | | | |
|------------|------------------|----------------|---------------------|----------------|--------|--------|--------|--------|--------|
| | | | | P1 | P2 | P3 | P4 | P5 | P6 |
| WEDGE1 LED | 4W | -- | -- | 1,200 | 2,000 | -- | -- | -- | -- |
| WEDGE2 LED | 10W | 18W | Standalone / nLight | 1,200 | 2,000 | 3,000 | 4,500 | 6,000 | -- |
| WEDGE3 LED | 15W | 18W | Standalone / nLight | 7,500 | 8,500 | 10,000 | 12,000 | -- | -- |
| WEDGE4 LED | -- | -- | Standalone / nLight | 12,000 | 16,000 | 18,000 | 20,000 | 22,000 | 25,000 |

Ordering Information

EXAMPLE: WEDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

| Series | Package | Color Temperature | CRI | Distribution | Voltage | Mounting | |
|------------|-----------------|--|------------------------|---------------------------------|------------------|--|--|
| WEDGE2 LED | P1 ¹ | P1SW | 27K 2700K | 80CRI | MVOLT | Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁷ | |
| | P2 ¹ | P2SW | 30K 3000K | 90CRI | | | 347 ³ |
| | P3 ¹ | P3SW | 35K 3500K | | 480 ³ | | Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available. |
| | P4 ¹ | Door with small window (SW) is required to accommodate sensors. See page 2 for more details. | 40K 4000K | | | | |
| | P5 ¹ | | 50K ² 5000K | | | | |
| | | | | VF Visual comfort forward throw | | | |
| | | | | VW Visual comfort wide | | | |

| Options | Finish |
|---|---|
| E4WH Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min) E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min) E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min) PE⁴ Photocell, Button Type DS⁵ Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details) DMG⁶ 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points. | DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DBBTXD Textured dark bronze DBL BXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone |
| Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW) PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. Networked Sensors/Controls (only available with P1SW, P2SW & P3SW) NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights. NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights. See page 4 for out of box functionality | |



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WEDGE2 LED
 Rev. 03/17/21

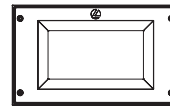
Accessories

Ordered and shipped separately.

| | |
|-------------------|---|
| WDGEAWS DDBXD U | WDGE 3/8inch Architectural Wall Spacer (specify finish) |
| WDGE2P8BW DDBXD U | WDGE2 surface-mounted back box (specify finish) |

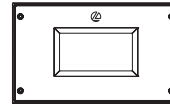
NOTES

- 1 P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
- 2 50K not available in 90CRI
- 3 347V and 480V not available with E4WH, E10WH, E20WC or DS.
- 4 PE not available in 480V or with sensors/controls
- 5 DS option not available with E4WH, E10WH, E20WC or sensors/controls.
- 6 DMG option not available with sensors/controls
- 7 Not qualified for DLC. Not available with emergency battery backup or sensors/controls



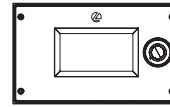
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5



Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW



Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

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. Contact factory for performance data on any configurations not shown here.

| Performance Package | System Watts | Dist. Type | 27K (2700K, 80 CRI) | | | | | 30K (3000K, 80 CRI) | | | | | 35K (3500K, 80 CRI) | | | | | 40K (4000K, 80 CRI) | | | | | 50K (5000K, 80 CRI) | | | | |
|---------------------|--------------|------------|---------------------|-----|---|---|---|---------------------|-----|---|---|---|---------------------|-----|---|---|---|---------------------|-----|---|---|---|---------------------|-----|---|---|---|
| | | | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G |
| P1 / P1SW | 10W | VF | 1,166 | 119 | 0 | 0 | 0 | 1,209 | 123 | 0 | 0 | 0 | 1,251 | 128 | 0 | 0 | 0 | 1,256 | 128 | 0 | 0 | 0 | 1,254 | 128 | 0 | 0 | 0 |
| | | VW | 1,197 | 122 | 0 | 0 | 0 | 1,241 | 126 | 0 | 0 | 0 | 1,284 | 131 | 0 | 0 | 0 | 1,289 | 131 | 0 | 0 | 0 | 1,286 | 131 | 0 | 0 | 0 |
| P2 / P2SW | 15W | VF | 1,878 | 129 | 1 | 0 | 0 | 1,947 | 134 | 1 | 0 | 0 | 2,015 | 139 | 1 | 0 | 0 | 2,023 | 139 | 1 | 0 | 0 | 2,019 | 139 | 1 | 0 | 0 |
| | | VW | 1,927 | 133 | 1 | 0 | 0 | 1,997 | 137 | 1 | 0 | 0 | 2,067 | 142 | 1 | 0 | 0 | 2,075 | 143 | 1 | 0 | 0 | 2,071 | 143 | 1 | 0 | 0 |
| P3 / P3SW | 23W | VF | 2,908 | 129 | 1 | 0 | 0 | 3,015 | 134 | 1 | 0 | 0 | 3,119 | 138 | 1 | 0 | 0 | 3,132 | 139 | 1 | 0 | 0 | 3,126 | 139 | 1 | 0 | 0 |
| | | VW | 2,983 | 132 | 1 | 0 | 0 | 3,093 | 137 | 1 | 0 | 0 | 3,200 | 142 | 1 | 0 | 0 | 3,213 | 143 | 1 | 0 | 0 | 3,206 | 142 | 1 | 0 | 0 |
| P4 | 35W | VF | 4,096 | 117 | 1 | 0 | 1 | 4,247 | 121 | 1 | 0 | 1 | 4,394 | 126 | 1 | 0 | 1 | 4,412 | 126 | 1 | 0 | 1 | 4,403 | 126 | 1 | 0 | 1 |
| | | VW | 4,202 | 120 | 1 | 0 | 0 | 4,357 | 125 | 1 | 0 | 1 | 4,508 | 129 | 1 | 0 | 1 | 4,526 | 129 | 1 | 0 | 1 | 4,517 | 129 | 1 | 0 | 1 |
| P5 | 48W | VF | 5,567 | 115 | 1 | 0 | 1 | 5,772 | 119 | 1 | 0 | 1 | 5,972 | 123 | 1 | 0 | 1 | 5,996 | 124 | 1 | 0 | 1 | 5,984 | 124 | 1 | 0 | 1 |
| | | VW | 5,711 | 118 | 1 | 0 | 1 | 5,921 | 122 | 1 | 0 | 1 | 6,127 | 126 | 1 | 0 | 1 | 6,151 | 127 | 1 | 0 | 1 | 6,139 | 127 | 1 | 0 | 1 |

Electrical Load

| Performance Package | System Watts | Current (A) | | | | | |
|---------------------|--------------|-------------|-------|-------|-------|-------|-------|
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| P1 / P1SW | 10W | 0.082 | 0.049 | 0.043 | 0.038 | -- | -- |
| | 13W | -- | -- | -- | -- | 0.046 | 0.033 |
| P2 / P2SW | 15W | 0.132 | 0.081 | 0.072 | 0.064 | -- | -- |
| | 18W | -- | -- | -- | -- | 0.056 | 0.041 |
| P3 / P3SW | 23W | 0.195 | 0.114 | 0.100 | 0.088 | -- | -- |
| | 26W | -- | -- | -- | -- | 0.079 | 0.058 |
| P4 | 35W | 0.302 | 0.175 | 0.152 | 0.134 | -- | -- |
| | 38W | -- | -- | -- | -- | 0.115 | 0.086 |
| P5 | 48W | 0.434 | 0.241 | 0.211 | 0.184 | -- | -- |
| | 52W | -- | -- | -- | -- | 0.157 | 0.119 |

Lumen Multiplier for 90CRI

| CCT | Multiplier |
|-----|------------|
| 27K | 0.845 |
| 30K | 0.867 |
| 35K | 0.845 |
| 40K | 0.885 |
| 50K | 0.898 |

Lumen Output in Emergency Mode (4000K, 80 CRI)

| Option | Dist. Type | Lumens |
|--------|------------|--------|
| E4WH | VF | 646 |
| | VW | 647 |
| E10WH | VF | 1,658 |
| | VW | 1,701 |
| E20WC | VF | 2,840 |
| | VW | 2,913 |

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

Data references the extrapolated performance projections for the platforms noted 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 | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | >0.96 | >0.95 | >0.91 |



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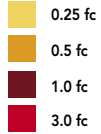
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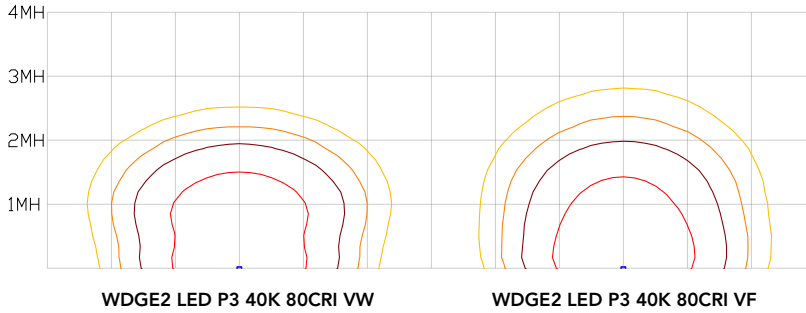
Photometric Diagrams

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

LEGEND



MH = 10ft
Grid = 10ft x 10ft



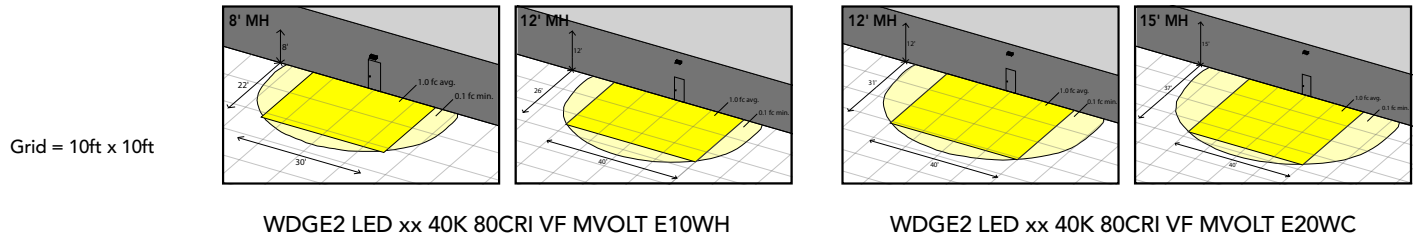
Emergency Egress Options

Emergency Battery Backup

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 battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

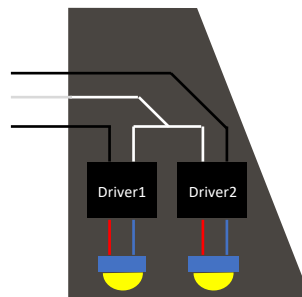
The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.



Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Motion/Ambient Sensor (PIR, PIRH)

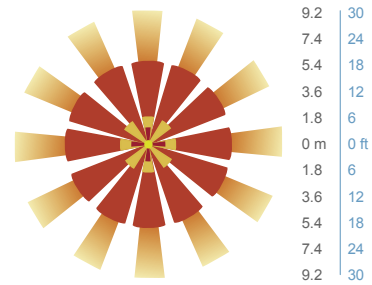
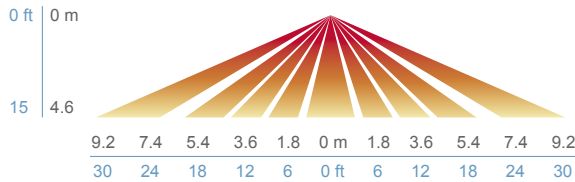
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

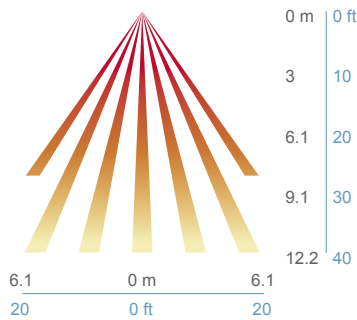
PIR

HIGH VIEW

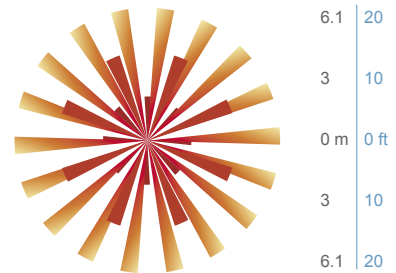


PIRH

SIDE VIEW



TOP VIEW



| Option | Dim Level | High Level (when triggered) | Photocell Operation | Motion Time Delay | Ramp-down Time | Ramp-up Time |
|--|---|-----------------------------|---------------------|-------------------|----------------|--------------------------------------|
| PIR or PIRH | Motion - 3V (37% of full output) Photocell - 0V (turned off) | 10V (100% output) | Enabled @ 5fc | 5 min | 5 min | Motion - 3 sec Photocell - 45 sec |
| PIR1FC3V, PIRH1FC3V | Motion - 3V (37% of full output) Photocell - 0V (turned off) | 10V (100% output) | Enabled @ 1fc | 5 min | 5 min | Motion - 3 sec Photocell - 45 sec |
| NLTAIR2 PIR, NLTAIR2 PIRH (out of box) | Motion - 3V (37% of full output) Photocell - 0V (turned off) | 10V (100% output) | Enabled @ 5fc | 7.5 min | 5 min | Motion - 3 sec Photocell - 45 sec |



**NLTAIR2 PIR – nLight AIR
Motion/Ambient Sensor**

D = 7"
H = 11"
W = 11.5"



**PBBW – Surface-Mounted Back Box
Use when there is no junction box available.**

D = 1.75"
H = 9"
W = 11.5"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"
H = 4.4"
W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

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 IP66 rating for the luminaire.

FINISH

Exterior painted 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 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 WDGE 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 consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (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. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°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 to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

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