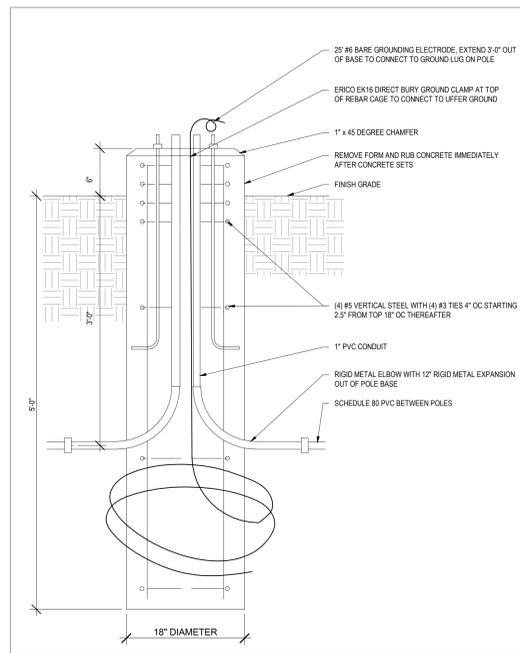


SITE LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	WATTS	LAMP	MOUNTING	NOTES
C	EXTERIOR WALL LIGHT	LITHONIA	OVFL LED 2PH 40K 120 WH HP17	120 V	20 W	LED	WALL	
E	EXTERIOR WALL LIGHT	LITHONIA	WDGE2 LED 9.40K 80CRI 1W MVOLT SRM DNAMD	120 V	23 W	LED	WALL	
F	EXTERIOR CANOPY LIGHT	LITHONIA	VCVL LED V4 P3 40K 80CRI TSE MVOLT SRM	120 V	43 W	LED	SURFACE	
G	UPLIGHT/DOWNLIGHT WALL SCONCE	WAC LIGHTING	WS-W2505-AL	120 V	30 W	LED	WALL	PROVIDE 4000K COLOR TEMPERATURE.
S1	PARKING LOT POLE LIGHT	LITHONIA	KAD LED 20C 530 40K R5 MVOLT DWHXD	120 V	71 W	LED	POLE	PROVIDE MANUFACTURER'S MOUNTING ACCESSORIES AS REQUIRED. PROVIDE LIGHT POLE, MODEL SSS1894-4-BH, AS MANUFACTURED BY HANCO, OR EQUAL.

SITE PHOTOMETRICS SCHEDULE			
Calculation Points Name	Average	Minimum	Max. Uniformity Ratio (Avg/Min)
School South	1.16 fc	0.26 fc	4.4
Property Line	0.00 fc	0.00 fc	0.0
Parking Lot	1.56 fc	0.46 fc	3.4
Courtyard	1.89 fc	0.32 fc	5.9
Remaining Site (Not Pedestrian Traffic)	0.00 fc	0.00 fc	0.0



PLAN NORTH  
**2**  
 NONE  
**POLE BASE DETAIL**

TYPE S1 LIGHT FIXTURES ARE POLE-MOUNTED AT 18'-0" AFG.

TYPE C LIGHT FIXTURES ARE SURFACE-MOUNTED UNDER THE CANOPY AWNING AT 6'-4" AFG.

TYPE E LIGHT FIXTURES ARE WALL-MOUNTED AT 8'-6" AFG.

TYPE F LIGHT FIXTURES ARE SURFACE-MOUNTED UNDER CANOPY AREAS AT 9'-6" AFG.

TYPE G LIGHT FIXTURES ARE WALL-MOUNTED AT HEIGHTS SHOWN ON THIS DRAWING.



PLAN NORTH  
**1**  
**SITE ELECTRICAL PHOTOMETRICS**  
 1" = 30'-0"

ISSUE DATES:  
 Issue Description Date  
 RESUBMITTAL OF SITE PHOTOMETRIC PLAN  
 04/25/2022

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Sheet Title  
**SITE PHOTOMETRICS**

Project Number: 20210400  
 Sheet Number

**E100P.C**

# OVFL 2RH

2-Head LED Security Floodlight

## Performance & Value Combined

The OVFL 2RH LED security floodlight provides more light at an attractive cost providing the best combination of performance and value. Delivering 1,770 lumens, at only 20 inputs watts, the OVFL 2RH replaces up to (1) 150W par incandescent lamp offering 87% energy savings. The standard photocell offers a no-hassle, cost effective solution for any application requiring reliable dusk-to-dawn security lighting. This compact form features two heads allowing for more flexibility in application versus traditional single head solutions.

- Replaces: Up to (1) 150W PAR lamp
- Lumens: 1,770
- Input Watts: 20W
- Voltage: 120V
- Color Temperature: 4000K
- Expected Service Life: Approximately 10 years (35,000 hours<sup>1</sup>)
- Mounting: Easily mounts to ceiling or wall on a recessed junction box
- Ideal for residential and commercial applications



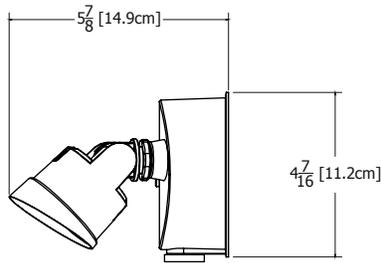
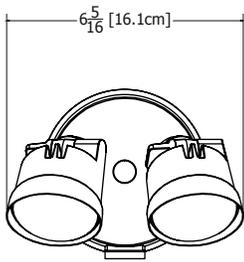
<sup>1</sup> LED lifespan based on IESNA LM-80-08 results and calculated per IESNA TM-21-11 methodology.

## OVFL LED 2HR Floodlight

### Ordering Information

EXAMPLE: OVFL LED 2RH 40K 120 PE DDB HP17

OVFL					
Series	Lightheads	Color Temperature	Voltage	Control Options	Finish
OVFL LED LED Floodlight	2RH 2 Heads, Round	40K 4000K <sup>1</sup>	120 120V	PE PE 120V Button Photocell	DDB HP17 Dark Bronze WH HP17 White



### Need more out of your LED luminaires?

<p><b>You replace</b></p> <p>150W PAR Incandescent <b>150 Watts</b></p>	<p><b>You save</b></p> <p>\$52 per year or 87% energy savings<sup>2</sup></p>	<p><b>You win</b></p> <p>Luminaire pays for itself in less than 1 year!</p>
---	---	---

#### Notes

- 1 Correlated Color Temperature (CCT) shown is nominal per ANSI C78,377-2008.
- 2 Based on 10 hours operation per day and energy costs of \$.11 per kWh. Savings from energy only, not including maintenance costs.



Visit [www.lithonia.com](http://www.lithonia.com) for more information



# WEDGE2 LED

## Architectural Wall Sconce

### Visual Comfort Optic



Catalog Number

Notes

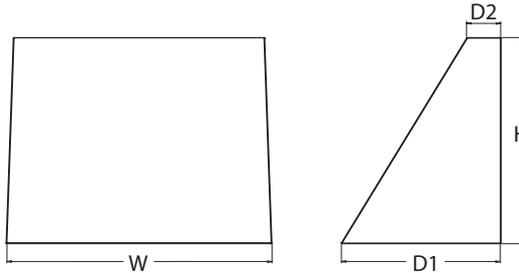
Type

**TYPE E**

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:** 13.5 lbs  
(without options)



### Introduction

The WEDGE2 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	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WEDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WEDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WEDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WEDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WEDGE4 LED	Precision Refractive			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 <sup>1</sup>	P1SW	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT	<b>Shipped included</b> SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)?	<b>Shipped separately</b> AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.
	P2 <sup>1</sup>	P2SW	30K 3000K					
	P3 <sup>1</sup>	P3SW	35K 3500K	40K 4000K	480 <sup>3</sup>			
	P4 <sup>1</sup>	Door with small window (SW) is required to accommodate sensors. See page 2 for more details.				50K <sup>2</sup> 5000K		
	P5 <sup>1</sup>							

Options	Finish
<b>E4WH</b> Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)	<b>DDBXD</b> Dark bronze
<b>E10WH</b> Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	<b>DBLXD</b> Black
<b>E20WC</b> Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	<b>DNAXD</b> Natural aluminum
<b>PE<sup>4</sup></b> Photocell, Button Type	<b>DWHXD</b> White
<b>DS<sup>5</sup></b> Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	<b>DSSXD</b> Sandstone
<b>DMG<sup>6</sup></b> 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	<b>DDBTXD</b> Textured dark bronze
<b>BCE</b> Bottom conduit entry for back box (PBBW). Total of 4 entry points.	<b>DBLTXD</b> Textured black
<b>BAA</b> Buy America(n) Act Compliant	<b>DNATXD</b> Textured natural aluminum
<b>Standalone Sensors/Controls</b> (only available with P1SW, P2SW & P3SW)	<b>DWHGXD</b> Textured white
<b>PIR</b> Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	<b>DSSTXD</b> Textured sandstone
<b>PIRH</b> Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching	
<b>PIR1FC3V</b> Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.	
<b>PIR1H3V</b> Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	
<b>Networked Sensors/Controls</b> (only available with P1SW, P2SW & P3SW)	
<b>NLTAIR2 PIR</b> nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.	
<b>NLTAIR2 PIRH</b> nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.	



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WEDGE2 LED  
Rev. 01/18/22

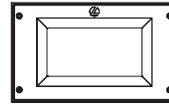
## Accessories

Ordered and shipped separately.

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

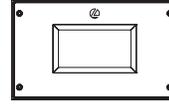
### NOTES

- 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



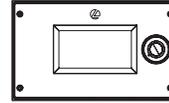
Default configuration with no sensors/controls.

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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WDGE2 LED  
Rev. 01/18/22

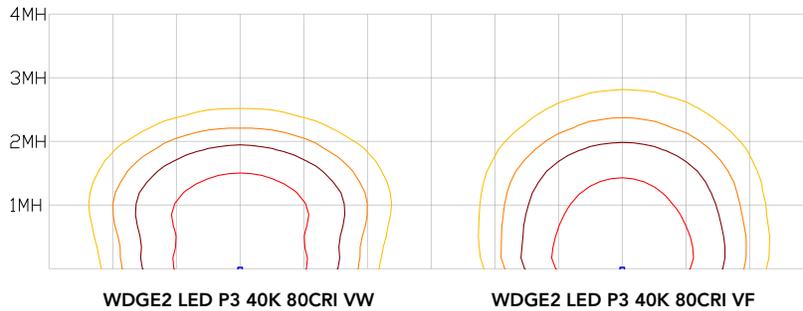
## Photometric Diagrams

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



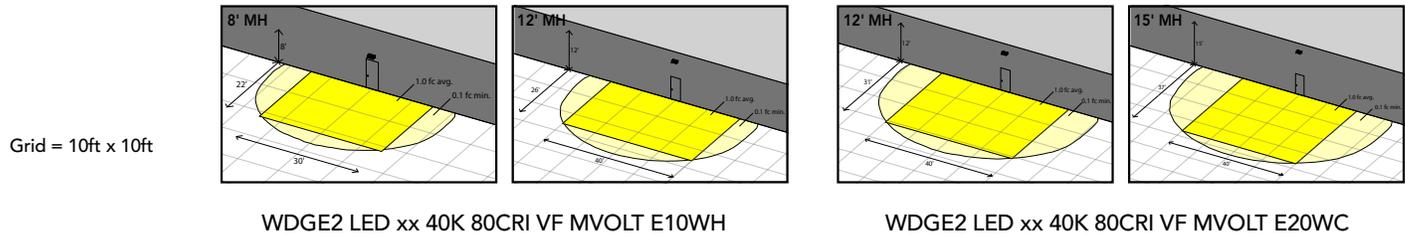
## Emergency Egress Options

### 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

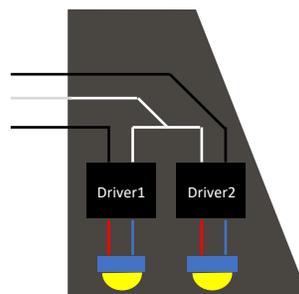
The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.



### 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\_)

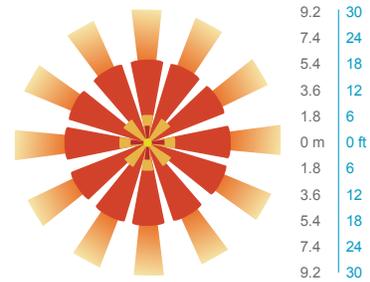
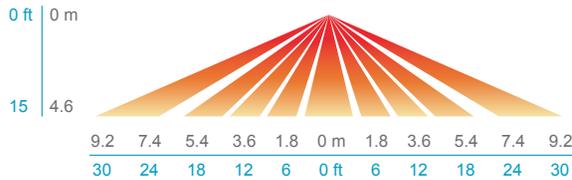
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing 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.

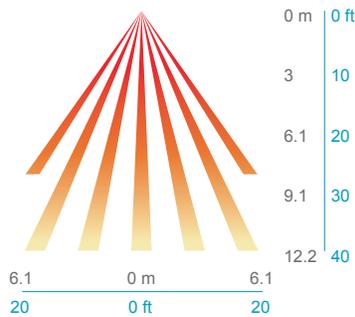
### PIR

#### HIGH VIEW

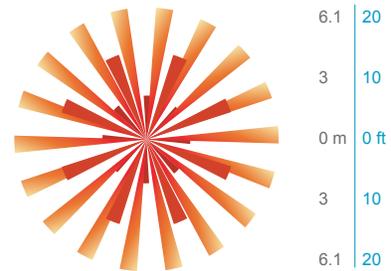


### PIRH

#### 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). Fixture ships standard with 0-10v dimmable driver.

### 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](http://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

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://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.



# VCVL LED Architectural Luminaire



Catalog Number

Notes

Type

**TYPE F**

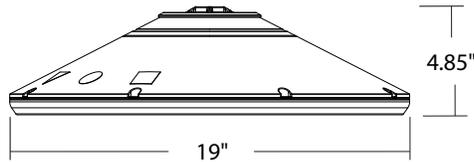
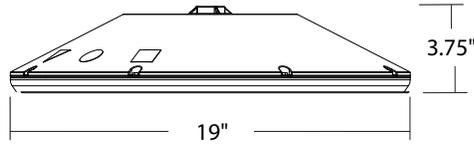
Hit the Tab key or mouse over the page to see all interactive elements.

## Specifications

**Diameter:** 19"

**Height:** 3.75"  
(4.85" with Up-Light)

**Weight** 18 lbs  
(max, with no options):



A+ Capable options indicated by this color background.

## Introduction

The VCVL LED, Visually Comfortable Versatile Luminaire, is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCVL LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers uniform distribution. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

## Ordering Information

**EXAMPLE: VCVL LED V4 P4 40K 70CRI T5M MVOLT AC6 DNAXD**

VCVL LED							
Series	LED Light Engines	Package	Color temperature	Color Rendering Index	Distribution	Voltage	Mounting
VCVL LED	V4 <sup>1</sup> 4 Light Engines	P1 <sup>1</sup>	30K 3000 K	70CRI	TSE Concentrated	MVOLT	<b>Shipped included</b> PM Pendant mount standard (24-inch length supply leads) SRM Surface mount (24-inch length supply leads) ARM Arm mount (use RSXWBA accessory to mount to a wall)  <b>Shipped separately</b> AC6 Aircraft cable with white 6' cord (adjustable, max 6') HCS Male cast hook with black 5' cord (sealed, no plug)
		P2 <sup>1</sup>	35K 3500 K	80CRI			
	V8 <sup>1</sup> 8 Light Engines	P3 <sup>1</sup>	40K 4000 K	T5M Medium T5W Wide T5R <sup>2</sup> Rectangular	347	120	
		P4 <sup>1</sup>	50K 5000 K		480	208	
		P5 <sup>1</sup>				240	
		P6 <sup>1</sup>				277	
		P7 <sup>1</sup>				347	

Options	Finish (required)
<b>Shipped installed</b> UPL1 Up-Light: 500 lumens UPL2 Up-Light: 700 lumens E8WC Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min) <sup>3,4,5</sup> E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min) <sup>3,4,5</sup> HA High ambient (50°C, only P1-P4) SF Single fuse (120V, 277V, 347V) DF Double fuse (208V, 240V, 480V) SPD10KV 10KV Surge Pack LDS36 36in (3ft) lead length LDS72 72in (6ft) lead length LDS108 108in (9ft) lead length DMG External 0-10V leads (no controls) <sup>6</sup> <b>Shipped Separately</b> WG Wire Guard	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black
<b>Standalone Sensors/Controls<sup>2</sup></b> PIR Motion/ambient sensor for 8-15' mounting heights PIRH Motion/ambient sensor for 15-30' mounting heights PIR3FC3V Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output PIRH3FC3V Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output PIR3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 8-15' mounting heights, pre programmed to 3fc and 35% light output <sup>7</sup> PIRH3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 15-30' mounting heights, pre programmed to 3fc and 35% light output <sup>7</sup> <b>Networked Sensors/Controls<sup>2</sup></b> NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15-30' mounting heights NLTAIR2 PIR924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights <sup>8</sup> NLTAIR2 PIRH924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights <sup>8</sup>	



## Ordering Information Cont.

### Accessories

Ordered and shipped separately.

VCPGSRM U	Surface mount kit, with no Up-Light
VCPGUSR U	Surface mount kit, with Up-Light
VCPGWG U	Wire guard
SLVSQ	Quick mount pendant swivel kit, square
SLVRD	Quick mount pendant swivel kit, round
RSXWBA DWXHD U	RSX WBA wall bracket (specify finish)
VCVLSC12	Safety cable 120"
VCVLSC240	Safety cable 240"

### NOTES

- 1 P1-P6 not available with V8. P7 not available with V4.
- 2 Not available with P7.
- 3 Not available with 347V, 480V, AC6 or HC5.
- 4 E8WC and E10WH only rated up to 35°C ambient.
- 5 E8WC & E10WH only available with P1-P4 packages.
- 6 DMG option not available with AC6, HC5 and standalone or networked sensors/controls.
- 7 Power interruption delay >30 milliseconds required for operation. Refer sequence of operations on page 4 for more details.
- 8 Power interruption delay >200 milliseconds required for operation. Refer sequence of operations on page 4 for more details.

## 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	Watts	Distribution Type	30K (3000K, 70 CRI)		35K (3500K, 70 CRI)		40K (4000K, 70 CRI)		50K (5000K, 70 CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	27W	TSE	3,581	135	3,670	138	3,815	144	3,876	146
		TSM	3,620	136	3,710	140	3,856	145	3,917	147
		TSW	3,592	135	3,681	139	3,827	144	3,888	146
		TSR	3,464	130	3,550	134	3,690	139	3,749	141
		LANE	3,507	132	3,594	135	3,736	141	3,796	143
P2	34W	TSE	4,577	135	4,691	138	4,876	144	4,954	146
		TSM	4,626	136	4,741	140	4,928	145	5,007	147
		TSW	4,591	135	4,705	139	4,891	144	4,968	146
		TSR	4,427	130	4,537	134	4,716	139	4,791	141
		LANE	4,482	132	4,594	135	4,775	141	4,851	143
P3	43W	TSE	5,808	134	5,952	137	6,187	143	6,286	145
		TSM	5,870	135	6,015	139	6,253	144	6,353	146
		TSW	5,825	134	5,970	138	6,205	143	6,304	145
		TSR	5,617	130	5,757	133	5,984	138	6,079	140
		LANE	5,688	131	5,829	134	6,059	140	6,155	142
P4	56W	TSE	7,391	131	7,575	135	7,874	140	7,999	142
		TSM	7,470	133	7,656	136	7,958	141	8,085	144
		TSW	7,414	132	7,597	135	7,898	140	8,023	143
		TSR	7,149	127	7,326	130	7,615	135	7,737	137
		LANE	7,238	129	7,418	132	7,711	137	7,834	139
P5	82W	TSE	10,189	124	10,442	127	10,854	132	11,027	134
		TSM	10,298	125	10,553	128	10,970	134	11,145	136
		TSW	10,220	124	10,473	128	10,887	133	11,060	135
		TSR	9,855	120	10,099	123	10,498	128	10,665	130
		LANE	9,978	121	10,226	124	10,629	129	10,799	131
P6	108W	TSE	12,878	120	13,197	123	13,719	127	13,937	129
		TSM	13,015	121	13,338	124	13,865	129	14,086	131
		TSW	12,917	120	13,237	123	13,760	128	13,979	130
		TSR	12,455	116	12,764	119	13,268	123	13,480	125
		LANE	12,611	117	12,924	120	13,435	125	13,649	127
P7	122W	TSE	15,503	125	15,887	128	16,515	133	16,778	135
		TSM	15,668	126	16,057	129	16,691	135	16,957	137
		TSW	15,549	125	15,935	129	16,564	134	16,828	136

### Up-light Lumen Output

Up-light Option	Watts	Lumens
UPL1	6.5W	519
UPL2	8.5W	715

### Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.926
35K	0.945
40K	0.967
50K	0.965

### 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
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 LMF, 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	0.97	0.94	0.89

### Electrical Load

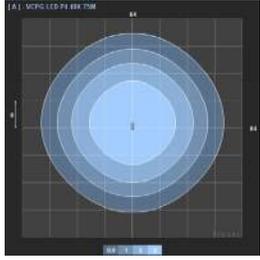
Power Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	27W	0.22	0.13	0.12	0.10	0.08	0.06
P2	34W	0.28	0.16	0.14	0.13	0.10	0.08
P3	43W	0.37	0.21	0.18	0.16	0.13	0.09
P4	56W	0.48	0.28	0.24	0.21	0.16	0.12
P5	82W	0.68	0.40	0.35	0.30	0.24	0.18
P6	108W	0.91	0.52	0.45	0.39	0.32	0.23
P7	124W	1.03	0.59	0.51	0.44	0.37	0.27



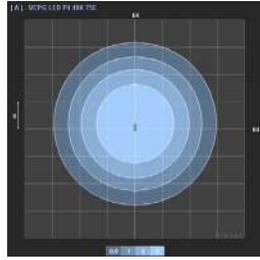
## Photometric Diagrams

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

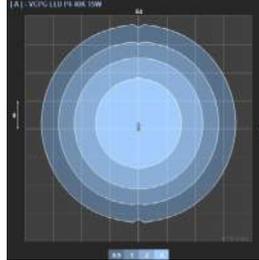
VCVL LED V4 P4 T5M 40K



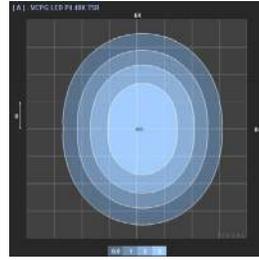
VCVL LED V4 P4 T5E 40K



VCVL LED V4 P4 T5W 40K



VCVL LED V4 P4 T5R 40K



## Control/Sensor Options

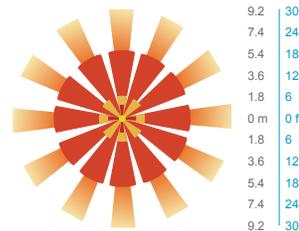
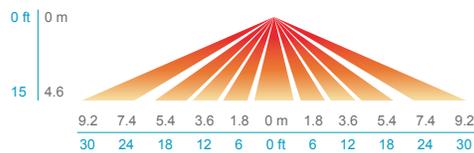
### Motion/Ambient Sensor (PIR, PIRH)

Motion/Ambient sensor (Sensor Switch MSOD) is integrated into 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)

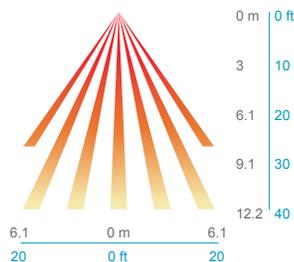
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy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

#### PIR HIGH VIEW

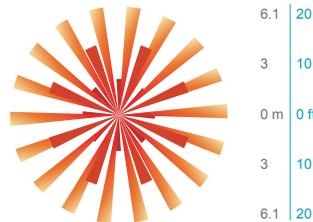


#### PIRH

#### SIDE VIEW



#### TOP VIEW



## Motion/Ambient Sensor Default Settings

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
PIR3FC3V or PIRH3FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 3fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec

## Sequence of Operations for UL924 Listed Controls/Sensors (PIR3FC3V924, PIRH3FC3V924, NLTAIR2 PIR924, NLTAIR2 PIRH924)

The UL924 listed control/sensor ("device") is designed to provide full light output for 90 minutes following power loss ("Egress Mode"), ignoring both manual and automatic dimming/occupancy/daylight control signals during this time. The sequence of operations is as follows:

- Normal condition: device can dim and turn off the luminaire as normal, in response to automatic and manual control.
- Utility power fails, and luminaire loses power.
- Backup power source activates, transfer switch moves the emergency circuit powering the luminaire onto the backup source, and luminaire regains power.
- The device detects this power interruption, if it is >30ms (for PIR3FC3V924, PIRH3FC3V924) or >200ms (for NLTAIR2 PIR924, NLTAIR2 PIRH924).
- The device ignores all dimming commands and controls the driver to full light output for 90 minutes.
- The device resumes normal dimming controls after 90 minutes.

These UL924 listed controls/sensors are not intended for use with Non-interruptible central emergency power systems. The power interruption, when transferring from normal utility power to emergency backup power, is required for the controller to activate its Egress Mode and provide full light output.



## Mounting, Options & Accessories



**AC6 – Aircraft Cable**

D = 19"  
H = 12" - 72"



**HC5 – Hook & Cord**

D = 19"  
H = 8" (no up-light)  
or 9.2" (with up-light)



**PM – Pendant Mount**  
(compatible with 3/4 NPT,  
pendant stem provided  
by others)

D = 19"  
H = 4.1" (no p-light)  
or 5.3" (with up-light)



**PIR & PIRH – Motion/  
Ambient sensor**

D = 19"  
H = 4.6" (no up-light)  
or 5.6" (with up-light)



**SRM – Surface Mount**

D = 19"  
H = 4.1"



**SRM – Surface Mount  
with Up-Light**

D = 19"  
H = 5.3"



**ARM – Arm Mount**

L = 28"  
W = 19"  
H = 8"



**WG – Wire guard**

D = 19"  
H = 4.9" (no uplight)  
or 5.9" (with up-light)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek styling and versatility offered by VCVL and VCVL Ultimate (VCVLX) makes them ideal for wide range of applications such as commercial offices, retail spaces, school gymnasiums, large conference rooms or any large open areas. And with VCVL's array of mounting options, you can install them in any building style or architectural design.

### CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down application.

### 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.

### OPTICS

Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provide five different photometric distributions that allow you to create uniform distribution, no matter the application. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the cave effect.

### ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L89/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10kV (5kA) surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2). Luminaire is 0-10V dimmable down to 10% or lower.

### INSTALLATION

Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. Aircraft cable and hook & cord options allow the luminaire to be suspended from the ceiling and come with a cord for easy wiring. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with set screws. Supply leads are 24" in length as standard. Longer supply leads are available as additional options. PM and SRM can withstand up to a 3.0 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. IP66 rated for outdoor applications. PIR options are rated for wet location. Rated for -40°C minimum ambient.

### 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](http://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](http://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.



Fixture Type: \_\_\_\_\_

Catalog Number: \_\_\_\_\_

Project: \_\_\_\_\_

Location: \_\_\_\_\_

## Rubix

### Single & Double Wall Mount 3000K

Model & Size	Color Temp & CRI	Watt	Lumens	Finish
<input type="radio"/> WS-W2504 Single <input type="radio"/> WS-W2505 Double	<input checked="" type="radio"/> 3000K 90	16W 30W	750 1400	<input checked="" type="radio"/> AL Brushed Aluminum <input type="radio"/> BK Black <input type="radio"/> BZ Bronze <input type="radio"/> GH Graphite <input type="radio"/> WT White

Example: **WS-W2504-AL**

#### DESCRIPTION

Available in single and twin light configurations, this die-cast aluminum LED wall luminaire is Wet Location listed for a broad range of exterior lighting applications. Designed with asquare profile, this version of Rubix mounts upwards or downwards.

#### FEATURES

- 2504 Single, 2505 Double
- Driver concealed within the fixture
- 5 year warranty

#### SPECIFICATIONS

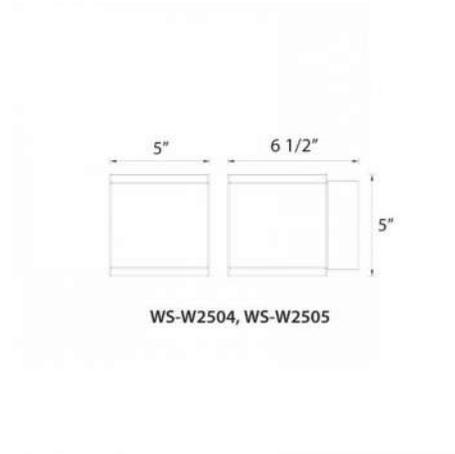
Construction:	Die-cast Aluminum
Power:	30W, 16W
Input:	120-277 VAC, 50/60Hz
Dimming:	ELV: 100-15% , 0-10V: 100-10%
Light Source:	Integrated LED
Rated Life:	70000 Hours
Mounting:	Mounts directly to junction box, Can be mounted on wall in all orientations
Finish:	Electrostatically Powder Coated: White, Graphite, Bronze, Black, Brushed Aluminum
Operating Temp:	-40°F to 122°F (-40°C to 50°C)
Standards:	ETL, cETL, Wet Location Listed, IP65, Title 24 JA8-2019 Compliant



#### FINISHES:



#### LINE DRAWING:



Fixture Type: \_\_\_\_\_

Catalog Number: \_\_\_\_\_

Project: \_\_\_\_\_

Location: \_\_\_\_\_

## Rubix

### Single & Double Wall Mount 3000K

Model & Size	Color Temp & CRI	Watt	Lumens	Finish
<input checked="" type="radio"/> WS-W2504 Single <input type="radio"/> WS-W2505 Double	<input checked="" type="radio"/> 3000K 90	<input checked="" type="radio"/> 16W <input type="radio"/> 30W	<input checked="" type="radio"/> 750 <input type="radio"/> 1400	<input checked="" type="radio"/> AL Brushed Aluminum <input type="radio"/> BK Black <input type="radio"/> BZ Bronze <input type="radio"/> GH Graphite <input type="radio"/> WT White

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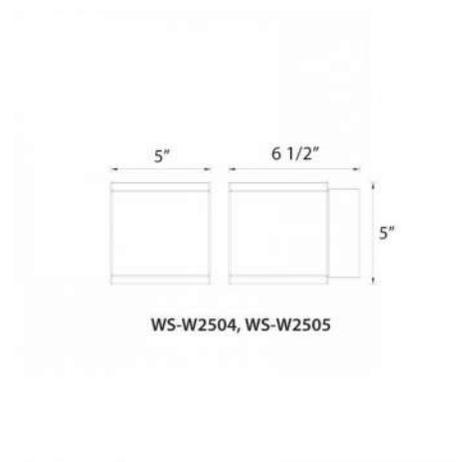
<b>Construction:</b>	Die-cast Aluminum
<b>Power:</b>	30W, 16W
<b>Input:</b>	120-277 VAC, 50/60Hz
<b>Dimming:</b>	ELV: 100-15% , 0-10V: 100-10%
<b>Light Source:</b>	Integrated LED
<b>Rated Life:</b>	70000 Hours
<b>Mounting:</b>	Mounts directly to junction box, Can be mounted on wall in all orientations
<b>Finish:</b>	Electrostatically Powder Coated: White, Graphite, Bronze, Black, Brushed Aluminum
<b>Operating Temp:</b>	-40°F to 122°F (-40°C to 50°C)
<b>Standards:</b>	ETL, cETL, Wet Location Listed, IP65, Title 24 JA8-2019 Compliant



#### FINISHES:



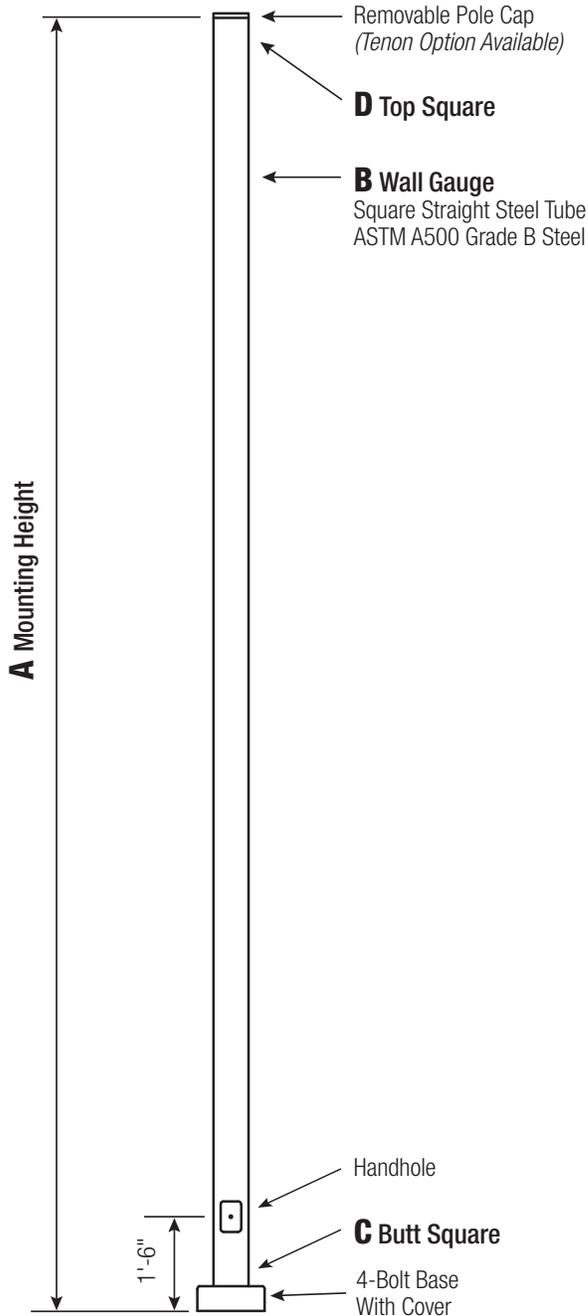
#### LINE DRAWING:



# SSS

## Square Straight Steel Pole No Arm — 4-Bolt Base

# TYPE S1



Powder Coated, Galvanized or Powder Coated over Galvanized Finish Per Customer Specification.

C BUTT SQ.	D TOP SQ.	F BOLT CIR. DIA.	G BASE SQ.	H BOLT PROJ.	I BOLT SIZE
4 (11 Gauge)	4	8 - 9	8	3.75	.75 x 17 x 3
4 (7 Gauge)	4	8 - 9	8	3.75	.75 x 30 x 3
5 (11 Gauge)*	5	10 - 12	11	4.875	.75 x 30 x 3
5 (7 Gauge)	5	10 - 12	11	4.875	1 x 36 x 4
6	6	11 - 13	12.5	4.875	1 x 36 x 4

\*Requires the use of oversized washers (provided).

Dimensions in Inches

### Pole

Pole shaft shall be weldable-grade, cold-rolled, commercial quality carbon steel tubing conforming to ASTM A500 Grade B. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using ER70S-6 electrodes.

### Base Style

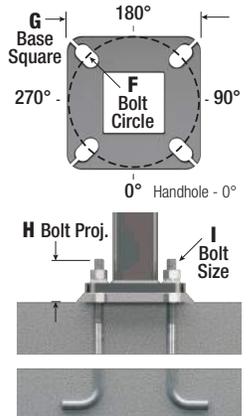
4-Bolt Steel Plate Base Flange of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware.



### Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153.

Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.



### Handhole

Reinforced, 3" x 5" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.



### Base Cover

Square ABS plastic Base Covers are standard on all SSS poles specified in BA-Black, BM-Dark Bronze and BH-White. SSS poles specified in all other colors will be manufactured of metal materials. Custom specification of SSS square metal style Base Covers in BA, BM and BH powder coated finishes is available.



### Vibration Damper

If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.





# KAD LED LED Area Luminaire



Buy American

Catalog  
Number

Notes

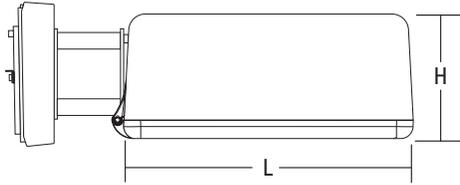
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**TYPE S1**

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

## Specifications

<b>EPA:</b>	1.2 ft <sup>2</sup> (0.11 m <sup>2</sup> )
<b>Length:</b>	17-1/2" (44.5 cm)
<b>Width:</b>	17-1/2" (44.5 cm)
<b>Height:</b>	7-1/8" (18.1 cm)
<b>Weight (max):</b>	36 lbs. (16.4 kg)



## 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 interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM®2 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**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

EC to provide mounting brackets as required.

A+ Capable options indicated by this color background.

## Ordering Information

**EXAMPLE:** KAD LED 40C 1000 40K R5 MVOLT SPD04 DDBXD

KAD LED	Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting <sup>3</sup>
<b>KAD LED</b>	20C <sup>1</sup>	20 LEDs	<b>530</b> 530 mA <sup>1</sup>	30K 3000 K	R2 Type II	<b>MVOLT</b> <sup>3</sup> 277 <sup>4</sup>	<b>Shipped included</b> SPUMBAK__ Square pole universal mounting adaptor <sup>6</sup> 04 4" arm RPUMBAK__ Round pole universal mounting adaptor <sup>6</sup> 06 6" arm SPD__ Square pole 09 9" arm <sup>5</sup> RPD__ Round pole 12 12" arm <sup>6</sup> WBD__ Wall bracket <sup>2</sup> WWD__ Wood pole or wall  <b>Shipped separately</b> DAD12P Degree arm (pole) DAD12WB Degree arm (wall) KMA Mast arm external fitter
	30C <sup>1</sup>	30 LEDs	700 700 mA	<b>40K</b> 4000 K	R3 Type III	120 <sup>4</sup> 347 <sup>1,3</sup>	
	<b>40C</b>	<b>40 LEDs</b>	1000 1000 mA	50K 5000 K	R4 Type IV	208 <sup>4,5</sup> 480 <sup>1,3</sup>	
	60C	60 LEDs			R5 Type V <sup>2</sup>	240 <sup>4,5</sup>	

Options	Finish (required)
<b>Shipped installed</b> PER5 NEMA twist-lock five-wire receptacle only (no controls) <sup>7,8,9</sup> PER7 Seven-wire receptacle only (no controls) <sup>7,8,9</sup> SF Single fuse (120, 277, 347V) <sup>4</sup> DF Double fuse (208, 240, 480V) <sup>4</sup> PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>3,10,11,12,13</sup> PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>3,10,11,12,13</sup>	<b>Shipped separately</b> <sup>17</sup> WG Wire guard DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum <b>DWHXD White</b> DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white
PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>3,10,11,12,13</sup> PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>3,10,11,12,13</sup> BL30 Bi-level switched dimming, 30% <sup>3,9,10,11</sup> BL50 Bi-level switched dimming, 50% <sup>3,9,10,11</sup> PNMTDD3 Part night, dim till dawn <sup>3,11,16</sup> PNMT5D3 Part night, dim 5 hrs <sup>3,11,16</sup> PNMT6D3 Part night, dim 6 hrs <sup>3,11,16</sup> PNMT7D3 Part night, dim 7 hrs <sup>3,11,16</sup> <b>HS Houseside shield</b> <sup>17</sup>	



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## Ordering Information

### Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photozell - SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photozell - SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photozell - SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>
KADLEDHS 20C U	Houseside shield for 20 LED unit
KADLEDHS 30C U	Houseside shield for 30 LED unit
KADLEDHS 40C U	Houseside shield for 40 LED unit
KADLEDHS 60C U	Houseside shield for 60 LED unit
KMA DDBXD U	Mast arm adaptor (specify finish)
KADWG U	Wire guard accessory
PUMBAK DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)

For more control options, visit [DTL](#) and [ROAM](#) online.

\*Round pole top must be 3.25" O.D. minimum.

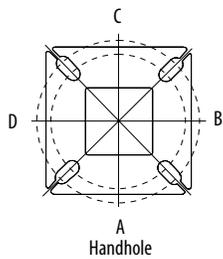
### NOTES

- 20C or 30C LED are not available with 530 Drive Current and 347V or 480V.
- Any Type 5 distribution, is not available with WBA.
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 9" or 12" arm is required when two or more luminaires are oriented on a 90° drilling pattern.
- Available as a separate combination accessory: PUMBAK (finish) U.
- Mounting must be restricted to ±45° from horizontal aim per ANSI C136.10-2010. Not available with motion sensor.
- Photozell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- PIR and PIR1FC3V specify the [SensorSwitch SBGR-10-ODP](#) control; PIRH and PIRH1FC3V specify the [SensorSwitch SBGR-6-ODP](#) control. Dimming driver standard. Not available with PER5 or PER7.
- Maximum ambient temperature with 347V or 480V is 30°C.
- Reference Motion Sensor table.
- Reference PER table on page 3 to see functionality.
- Requires an additional switched circuit with same phase as main luminaire power. Supply circuit and control circuit are required to be in the same phase.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, PER5, PER7 or PNMT options.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, PER5, PER7, BL30 or BL50.
- Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.

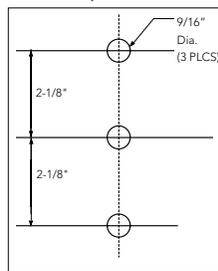
## Drilling

Template #5

### HANDHOLE ORIENTATION



### Top of Pole



### Tenon Mounting Slipfitter\*\*

Tenon O.D.	Single Unit	2 at 180°	2 at 90° †	3 at 120°	3 at 90° †	4 at 90° †
2-3/8"	T20-190	T20-280	T20-290	T20-320 †	T20-390	T20-490
2-7/8"	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

\*\* For round pole mounting (RPDXX) only. † Requires 9" or 12" arm.

Pole drilling nomenclature: # of heads at degree from handhole (default side A)				
DM19	DM28	DM29	DM39	DM49
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

## 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.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)						
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW		
20C	530 mA	35W	R2	4,140	1	0	1	118	4,446	1	0	1	127	4,473	1	0	1	128		
			R3	4,123	1	0	1	118	4,427	1	0	1	126	4,455	1	0	1	127		
			R4	4,128	1	0	1	118	4,433	1	0	1	127	4,460	1	0	1	127		
			R5	4,381	2	0	1	125	4,704	3	0	1	134	4,734	3	0	1	135		
	700 mA	45W	R2	5,271	1	0	1	117	5,660	1	0	1	126	5,696	1	0	2	127		
			R3	5,250	1	0	2	117	5,637	1	0	2	125	5,672	1	0	2	126		
			R4	5,256	1	0	2	117	5,644	1	0	2	125	5,679	1	0	2	126		
			R5	5,578	3	0	1	124	5,990	3	0	1	133	6,027	3	0	1	134		
	1000 mA	73W	R2	7,344	1	0	2	101	7,886	2	0	2	108	7,935	2	0	2	109		
			R3	7,314	1	0	2	100	7,854	1	0	2	108	7,903	1	0	2	108		
			R4	7,322	1	0	2	100	7,863	1	0	2	108	7,912	1	0	2	108		
			R5	7,771	3	0	1	106	8,345	3	0	1	114	8,397	3	0	1	115		
30C	530 mA	53W	R2	6,166	1	0	2	116	6,621	1	0	2	125	6,663	1	0	2	126		
			R3	6,141	1	0	2	116	6,594	1	0	2	124	6,635	1	0	2	125		
			R4	6,148	1	0	2	116	6,602	1	0	2	125	6,643	1	0	2	125		
			R5	6,525	3	0	1	123	7,006	3	0	1	132	7,050	3	0	1	133		
	700 mA	69W	R2	7,817	2	0	2	113	8,395	2	0	2	122	8,447	2	0	2	122		
			R3	7,785	1	0	2	113	8,360	2	0	2	121	8,412	2	0	2	122		
			R4	7,794	1	0	2	113	8,370	1	0	2	121	8,422	1	0	2	122		
			R5	8,272	3	0	2	120	8,883	3	0	2	129	8,938	3	0	2	130		
	1000 mA	108W	R2	10,755	2	0	2	100	11,549	2	0	2	107	11,621	2	0	2	108		
			R3	10,711	2	0	2	99	11,502	2	0	2	106	11,574	2	0	2	107		
			R4	10,724	2	0	2	99	11,515	2	0	2	107	11,587	2	0	2	107		
			R5	11,381	3	0	2	105	12,221	4	0	2	113	12,297	4	0	2	114		
40C	530 mA	71W	R2	8,156	2	0	2	115	8,758	2	0	2	123	8,812	2	0	2	124		
			R3	8,122	2	0	2	114	8,722	2	0	2	123	8,776	2	0	2	124		
			R4	8,132	1	0	2	115	8,732	1	0	2	123	8,786	1	0	2	124		
			R5	8,630	3	0	2	122	9,267	3	0	2	131	9,325	3	0	2	131		
	700 mA	94W	R2	10,286	2	0	2	109	11,045	2	0	2	118	11,114	2	0	2	118		
			R3	10,244	2	0	2	109	11,000	2	0	2	117	11,069	2	0	2	118		
			R4	10,256	2	0	2	109	11,013	2	0	2	117	11,081	2	0	2	118		
			R5	10,884	3	0	2	116	11,688	4	0	2	124	11,761	4	0	2	125		
	1000 mA	141W	R2	13,923	2	0	2	99	14,951	2	0	2	106	15,045	2	0	2	107		
			R3	13,866	2	0	3	98	14,890	2	0	3	106	14,983	2	0	3	106		
			R4	13,882	2	0	3	98	14,907	2	0	3	106	15,000	2	0	3	106		
			R5	14,733	4	0	2	104	15,821	4	0	2	112	15,920	4	0	2	113		
60C	530 mA	103W	R2	11,996	2	0	2	116	12,882	2	0	2	125	12,963	2	0	2	126		
			R3	11,947	2	0	2	116	12,829	2	0	2	125	12,909	2	0	2	125		
			R4	11,961	2	0	2	116	12,844	2	0	2	125	12,925	2	0	2	125		
			R5	12,694	4	0	2	123	13,632	4	0	2	132	13,717	4	0	2	133		
	700 mA	137W	R2	14,927	2	0	2	109	16,029	3	0	3	117	16,130	3	0	3	118		
			R3	14,866	2	0	3	109	15,964	2	0	3	117	16,063	2	0	3	117		
			R4	14,884	2	0	2	109	15,982	2	0	3	117	16,082	2	0	3	117		
			R5	15,796	4	0	2	115	16,962	4	0	2	124	17,068	4	0	2	125		
	1000 mA	216W	R2	19,328	3	0	3	89	20,754	3	0	3	96	20,884	3	0	3	97		
			R3	19,248	3	0	3	89	20,669	3	0	4	96	20,799	3	0	4	96		
			R4	19,271	3	0	3	89	20,693	3	0	4	96	20,823	3	0	4	96		
			R5	20,452	4	0	2	95	21,962	4	0	2	102	22,099	4	0	2	102		

## 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	1.02
10°C	50°F	1.01
20°C	68°F	1.00
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	1.00
40°C	104°F	0.99

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KAD LED** platform 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	KAD LED 60C 1000			
	1.0	0.91	0.86	0.76
	KAD LED 40C 1000			
	1.0	0.93	0.88	0.79
Lumen Maintenance Factor	KAD LED 60C 700			
	1.0	0.98	0.97	0.94

### Motion Sensor Default Settings

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

\*For use when motion sensor is used as dusk to dawn control

### PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)	
		Wire 4/Wire5	Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	⚠	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	⚠	Wires Capped inside fixture	⚠	Wires Capped inside fixture
Future-proof*	✗	⚠	Wired to dimming leads on driver	✓	Wires Capped inside fixture
Future-proof* with Motion	✗	⚠	Wires Capped inside fixture	✓	Wires Capped inside fixture

- ✓ Recommended
- ✗ Will not work
- ⚠ Alternate

\*Future-proof means: Ability to change controls in the future.

## Electrical Load

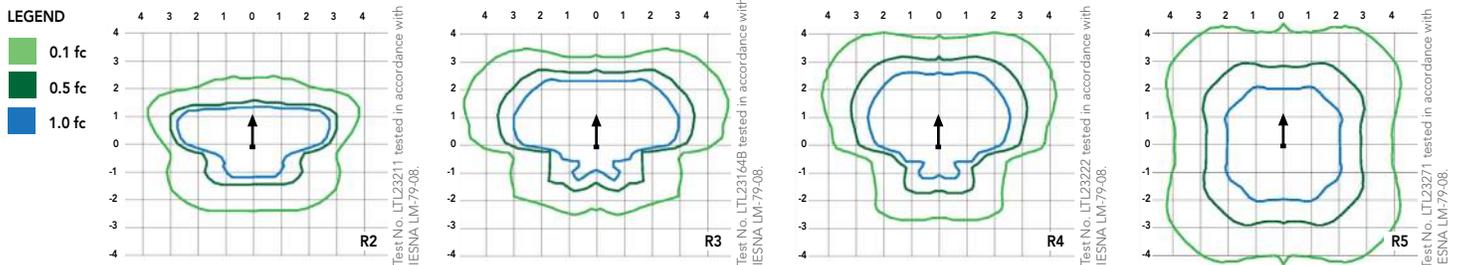
Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
20	530	35	0.30	0.18	0.16	0.15	-	-
	700	45	0.39	0.23	0.20	0.18	0.15	0.12
	1000	73	0.61	0.35	0.31	0.27	0.22	0.17
30	530	53	0.44	0.26	0.23	0.20	-	-
	700	69	0.58	0.34	0.29	0.26	0.21	0.16
	1000	108	0.90	0.52	0.46	0.40	0.32	0.24
40	530	71	0.60	0.35	0.32	0.29	0.21	0.16
	700	94	0.79	0.46	0.41	0.36	0.27	0.20
	1000	141	1.18	0.68	0.59	0.52	0.42	0.30
60	530	103	0.87	0.50	0.44	0.39	0.29	0.22
	700	137	1.15	0.66	0.58	0.51	0.40	0.29
	1000	216	1.81	1.04	0.92	0.81	0.63	0.47

**NOTE:** All ratings in this table are for a nominal system operated at 25°C ambient temperature. Current and power specifications in this table do not include branch circuit derating specified in the National Electrical Code. Please observe all applicable electrical codes and ratings.

## Photometric Diagrams

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

Isofootcandle plots for the KAD LED 60C 1000 40K. Distances are in units of mounting height (20').



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## FEATURES & SPECIFICATIONS

### INTENDED USE

The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

### CONSTRUCTION

Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

### 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.

### OPTICS

Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

### ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration load rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #5) for pole drilling.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.

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/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/resources/buy-american](http://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](http://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.



COMMERCIAL OUTDOOR

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