

KAX LED Size 1

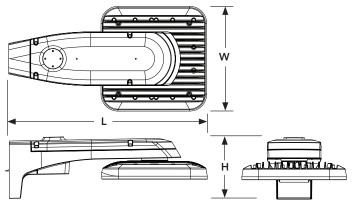
LED Area Luminaire





Specifications

0.7 ft ² EPA: (0.07 m²) 25" Length: (64 cm) 13-1/4" Width: (34 cm) 7-3/4" Height: (20 cm) Weight 26 lbs (max): (11.8 kg)



Catalog Notes Туре

Introduction

This feature-rich luminaire embodies the highest level of functionality, and with field-rotatable optics and optional tilt, light can be placed exactly where it's needed. The optics are specifically designed to maximize the light in the desired area and are particularly useful in small to medium sized parking lots or lots requiring higher illuminance levels such as restaurants, banks, service stations, corporate offices and strip malls. By providing the maximum amount of light at minimal cost, the KAX1 is the perfect choice for new installations or retrofit installations replacing up to 400W MH.

Ordering Information

EXAMPLE: KAX1 LED P4 40K R3 MVOLT SPA DDBXD

KAX1 LED					
Series	Performance package	Color temperature	Distribution	Voltage	Mounting
KAX1 LED	P1 P2 P3 P4	30K 3000 K 40K 4000 K 50K 5000 K	R3 Type 3 R4 Type 4 R5 Type 5	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 480	Shipped included SPA Square pole mounting RPA Round pole mounting Shipped separately KMA Mast arm adaptor ²

Control options (Other o	ptions	Finish (red	Finish (required)			
Shipped in PER PER5 PER7 PIR PIRH PIR1FC3V PIRH1FC3V FAO	NEMA twist-lock receptacle only (no controls) 3.4 Five-wire receptacle only (no controls) 4.5 Seven-wire receptacle only (no controls) 4.5 Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc 6 Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc 6 Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc 6 Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc 6 Field adjustable output 7	HS SF DF TILT	d installed House-side shield ⁸ Single fuse (120, 277, 347V) ⁹ Double fuse (208, 240, 480V) ¹⁰ Tilt arm d separately Bird spikes ⁸ External glare shield ⁸	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white			

Controls & Shields

Accessories

DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) 11 DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) 11 DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) 11 DSHORT SBK U Shorting cap¹

Mast arm mounting bracket adaptor KMA DDBXD U (specify finish) 2 KAX1HS P1/P2 U House-side shield (P1, P2)

KAX1HS P3/P4 U House-side shield (P3, P4) KAXBS U Bird spikes KAX1EGS U External glare shield

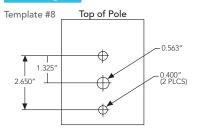
ore control options, visit DTL and ROAM online

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
- For use with 2-3/8" mast arm (not included).
- Not available with ROAM®. See PER5 or PER7 option.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See Accessories information.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.

 PIR and PIR1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control; see Outdoor Control Technology. 6 e for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required. Not available with PNMT options.
- Dimming driver standard. Not available with PER5 or PER7
- Also available as a separate accessory; see Accessories information.
- Must specify 120, 277, or 347V option.
- Must specify 208, 240, or 480V option
- Requires luminaire to be specified with PER, PER5, or PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.



Drilling



KAX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS Single unit DM29AS 2 at 90° * 3 at 90° * DM28AS DM39AS 2 at 180° DM49AS 4 at 90° * DM32AS 3 at 120° **

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools. *Round pole top must be 3.25" O.D. minimum. **For round pole mounting (RPA) only.

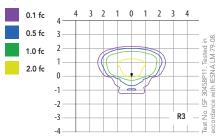
Tenon Mounting Slipfitter**

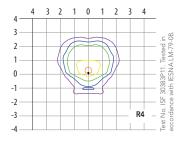
Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

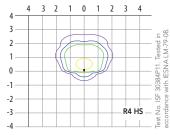
Photometric Diagrams

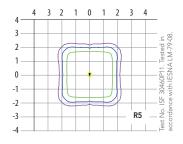
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KAX1 Area Light homepage. Isofootcandle plots for the KAX1 LED P4 40K. Distances are in units of mounting height (30').

LEGEND









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. Vatts Type	30K (3000 K, 70 CRI)			40K (4000 K, 70 CRI)				50K (5000 K, 70 CRI)								
			Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	
		R3	6,212	1	0	1	124	6,628	1	0	1	133	6,745	1	0	2	135	
P1	50	R4	6,444	1	0	1	129	6,876	1	0	1	138	6,997	1	0	1	140	
		R5	6,826	3	0	1	137	7,283	3	0	1	146	7,411	3	0	1	148	
		R3	10,687	2	0	2	111	11,403	2	0	2	119	11,603	2	0	2	121	
P2	96	R4	11,087	2	0	2	115	11,829	2	0	2	123	12,037	2	0	2	125	
		R5	11,743	3	0	1	122	12,529	3	0	2	131	12,750	3	0	2	133	
		R3	15,567	2	0	3	120	16,609	2	0	3	128	16,902	2	0	3	130	
P3	130	R4	16,149	2	0	2	124	17,230	2	0	3	133	17,533	2	0	3	135	
		R5	17,106	4	0	2	132	18,251	4	0	2	140	18,572	4	0	2	143	
		R3	18,623	3	0	3	116	19,869	3	0	3	124	20,219	3	0	3	126	
P4	160	R4	19,319	3	0	3	121	20,612	3	0	3	129	20,975	3	0	3	131	
			R5	20,463	4	0	2	128	21,833	4	0	2	136	22,217	4	0	2	139

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

* Shaded cells include active dynamic temperature sensing.

	Lumen Multiplier								
Ambient	P1	P2	Р3	P4					
0°C	1.05	1.05	1.05	1.05					
10°C	1.03	1.03	1.03	1.03					
20°C	1.01	1.01	1.01	1.01					
25°C	1	1	1	1					
30°C	0.99	0.99	0.99	0.99					
40°C	0.97	0.97	0.97	0.95					
45°C	0.96	0.96	0.93	0.81					
50°C	0.95	0.95	0.78	0.67					

Electrical Load

Package		120V				347V	
	Current (A)	0.42A	0.24A	0.21A	0.18A	0.15A	0.12A
P1	System Watts	50W	49W	49W	49W	49W	49W
	Current (A)	0.80A	0.46A	0.40A	0.35A	0.28A	0.21A
P2	System Watts	96W	94W	94W	93W	94W	93W
	Current (A)	1.08A	0.62A	0.54A	0.47A	0.39A	0.30A
P3	System Watts	130W	127W	127W	126W	128W	128W
	Current (A)	1.33A	0.76A	0.66A	0.58A	0.48A	0.36A
P4	System Watts	160W	156W	156W	155W	159W	159W

Projected LED Lumen Maintenance

Operating Hours	25,000	50,000	100,000
Lumen Maintenance Factor	>0.94	>0.89	>0.80

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



FEATURES & SPECIFICATIONS

INTENDED USE

This feature-rich luminaire embodies the highest level of functionality with extraordinary efficacy which maximizes your application efficiency providing high levels of light for minimal cost specifically on small to medium sized parking lots like banks, restaurants, service stations, corporate offices and strip malls.

CONSTRUCTION

Separated die-cast aluminum heat sink and mounting arm allow maximum air flow and separated electrical compartments to promote cool operating environments extending component life. This modular design allows for ease of maintenance and future light engine upgrades. The KAX features a field rotatable optical assembly enabling on-the-fly adjustments when plans change, and can even be tilted upwards if necessary for additional forward throw. The housing is completely sealed against moisture and environmental contaminants (IP66). Low EPA (0.7 ft ²) for optimized pole wind loading.

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. Available in both textured and non-textured finishes.

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K (minimum 70 CRI) configurations. In its standard configuration the KAX 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. With the TILT option, the optical assembly can be raised up to 80 degrees for additional forward throw or to provide vertical illumination.

FI FCTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (>L80/100,000 hours). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

The base of the mounting arm features a universal mounting template to facilitate quick and easy installation. Mounting bolts featuring a 1000-hour salt fog finish are utilized to secure the luminaire providing up to a 1.5 G vibration load rating per ANSI C136.31. The KAX utilizes the AERISIM series pole drilling pattern. Optional bi-level motion sensor and NEMA 3, 5 or 7 pin twist lock photocontrol receptacle are also available.

LISTINGS

CSA Listed for wet locations. Light engines and electrical compartment are IP66 rated. Rated for temperatures as low as -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 to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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.

