



KADR LED LED Retrofit Kit



Catalog
Number

Notes

Type

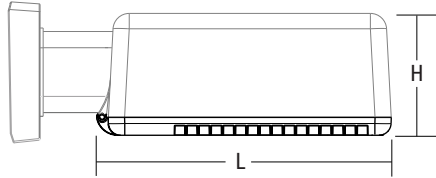
Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications. The KADR LED retrofits any existing 100 - 400W metal halide or high pressure sodium KAD into a high-performance LED luminaire, while realizing typical energy savings up to 65% with expected service life up to 100,000 hours. The KADR LED retrofit door simply replaces the existing KAD door containing the glass lens and installs in minutes.

Specifications

EPA:	1.2 ft ² (0.11 m ²)
Length:	17-1/2" (44.5 cm)
Width:	17-1/2" (44.5 cm)
Height:	7-1/8" (18.1 cm)
Weight (max):	13 lbs. (5.9 kg)



Ordering Information

EXAMPLE: KADR LED 40C 1000 40K R5 MVOLT DDBXD

KADR LED		Drive current		CCT		Distribution		Voltage	
Series	LEDs								
KADR LED	20C ¹ 20 LEDs	530 ¹	530 mA	30K	3000 K	R2	Type II	MVOLT	
	30C ¹ 30 LEDs	700	700 mA	40K	4000 K	R3	Type III	120 ³	
	40C 40 LEDs	1000 ²	1000 mA	50K	5000 K	R4	Type IV	208 ³	
	60C ² 60 LEDs					R5	Type V	240 ³	
								277 ³	
								347 ¹	
								480 ¹	

Options		Finish (required)	
Shipped installed	Shipped separately	DDBXD	Dark bronze
PIR Motion sensor, 8-15' mounting height ³	WG Wire guard ⁴	DBLXD	Black
PIRH Motion sensor, 15-30' mounting height ³		DNAXD	Natural aluminum
HS Houseside shield ⁴		DWHXD	White
		DDBTXD	Textured dark bronze
		DBLBXD	Textured black
		DNATXD	Textured natural aluminum
		DWHGXD	Textured white

Accessories

Ordered and shipped separately.

KADWG U	Wire guard accessory
KADLEDHS U	Houseside shield

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

NOTES

- 20C or 30C LED are not available with 530 Drive current and 347V or 480V.
- 60C and 1000mA not available together.
- PIR specifies the SensorSwitch SBGR-10-ODP control; PIRH specifies the SensorSwitch SBGR-6-ODP control; see [Motion Sensor Guide](#) for details. Dimming driver standard.
- Also available as a separate accessory; see Accessories information at left.



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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20C	530 mA	35 W	R2	4,140	1	0	1	115	4,446	1	0	1	123	4,473	1	0	1	124
			R3	4,123	1	0	1	115	4,427	1	0	1	123	4,455	1	0	1	124
			R4	4,128	1	0	1	115	4,433	1	0	1	123	4,460	1	0	1	124
			R5	4,381	2	0	1	122	4,704	2	0	1	131	4,734	2	0	1	131
	700 mA	46 W	R2	5,271	1	0	1	115	5,660	1	0	1	123	5,696	1	0	1	124
			R3	5,250	1	0	2	114	5,637	1	0	2	123	5,672	1	0	2	123
			R4	5,256	1	0	2	114	5,644	1	0	2	123	5,679	1	0	2	123
			R5	5,578	3	0	1	121	5,990	3	0	1	130	6,027	3	0	1	131
	1000 mA	73 W	R2	7,344	1	0	2	101	7,886	1	0	2	108	7,935	1	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	53 W	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	70 W	R2	7,817	1	0	2	112	8,395	2	0	2	120	8,447	1	0	2	121
			R3	7,785	1	0	2	111	8,360	1	0	2	119	8,412	1	0	2	120
			R4	7,795	1	0	2	111	8,370	1	0	2	120	8,422	1	0	2	120
			R5	8,272	3	0	1	118	8,883	3	0	2	127	8,938	3	0	1	128
	1000 mA	108 W	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	3	0	2	113	12,297	3	0	2	114
40C	530 mA	71 W	R2	8,156	2	0	2	115	8,758	2	0	2	123	8,812	2	0	2	124
			R3	8,122	1	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	94 W	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	3	0	2	124	11,761	3	0	2	125
	1000 mA	141 W	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	103 W	R2	11,997	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	134 W	R2	14,927	3	0	3	109	16,029	3	0	3	117	16,130	3	0	3	118
			R3	14,866	3	0	3	109	15,964	2	0	3	117	16,063	2	0	3	117
			R4	14,884	3	0	3	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

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
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KADR 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	KADR LED 40C 1000			
	1.0	0.93	0.88	0.79
	KADR LED 60C 700			
	1.0	0.98	0.97	0.94

Electrical Load

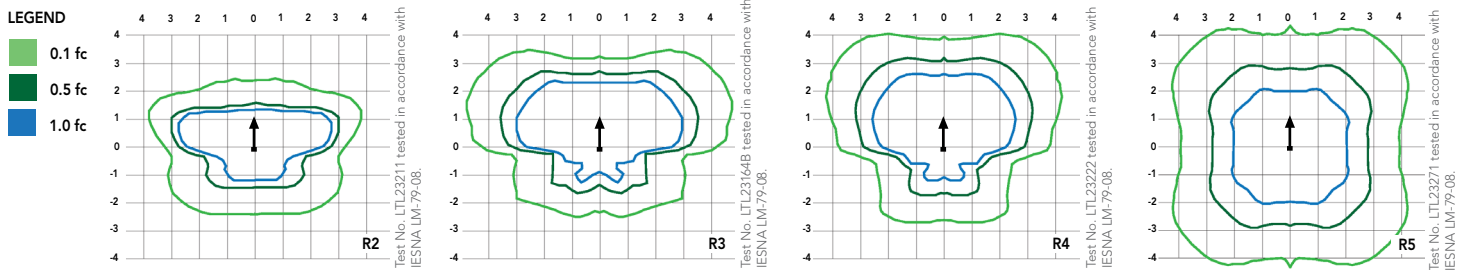
Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
20	530	35	0.30	0.18	0.16	0.15	-	-
	700	46	0.39	0.23	0.20	0.18	0.15	0.12
	1000	73	0.61	0.35	0.31	0.27	0.22	0.17
30	530	53	0.44	0.26	0.23	0.20	-	-
	700	70	0.58	0.34	0.29	0.26	0.21	0.16
	1000	108	0.90	0.52	0.46	0.40	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	134	1.15	0.66	0.58	0.51	0.40	0.29

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 [KADR LED homepage](#).

Isofootcandle plots for the KADR LED 40C 530. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings and long life of the KADR 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 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 or optional 3000K or 5000K (70 CRI) configurations.

ELECTRICAL

Light engine consists of high-efficiency 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

Retrofit only--mounts directly on existing KAD or KAD-LED housing.

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 to confirm which versions are qualified.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. 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/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.

