

KAI Amber Field-Adjustable Cobra Head

RAB®

KAI Amber



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- KAI with amber wavelength and adjustable wattages: 160/140/120W (factory default 160W)
- **Amber light**, dominant wavelength at 590-605 nm
- 120-277V driver. 480V available.
- **Light distribution: Type II, III, & IV**
- Available with **adjustable** pole mount. Fits 1 1/2" to 2 3/8" pipe arms. Optional mounting clamp fits 1" to 1 1/4" pipe arms.
- Tile angle: -5° / -2.5° / 0° / 2.5° / 5°
- **UV F1** rated polycarbonate lens
- Available accessories: house side shields, lenses, twistlock photocell, surge protectors
- **3000hrs** salt spray finish
- 10-year limited warranty

Area Light w/Selectable Power, Photocell
(Amber Wavelength)



PERFORMANCE

KAI-160YA	AMBER WAVELENGTH								
Distribution Type	IV			III			II		
Wattage	160W	140W	120W	160W	140W	120W	160W	140W	120W
Input Watts	152.2W	134.0W	113.9W	152.7W	134.2W	114.1W	152.3W	134.0W	113.9W
Lumens	5,217	5,411	5,709	5,222	5,383	5,690	5,254	5,482	5,720
Efficacy	34.3	40.4	50.1	34.2	40.1	49.9	34.5	40.9	50.2
Voltage Ratings	120-277V			120-277V			120-277V		

KAI-160YA/480	AMBER WAVELENGTH								
Distribution Type	IV			III			II		
Wattage	160W	140W	120W	160W	140W	120W	160W	140W	120W
Input Watts	152.1W	132.7W	115.6W	152.3W	132.7W	115.6W	152.3W	132.8W	115.7W
Lumens	5,280	5,456	5,676	5,329	5,501	5,676	5,478	5,635	5,818
Efficacy	34.7	41.1	49.1	35.0	41.5	49.1	36.0	42.4	50.3
Voltage Ratings	480V			480V			480V		

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TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for wet locations

IP Rating

Ingress protection rating of IP66 for dust and water

IK Rating

IK08 rated for protection against impact

Trade Agreement Act Compliant

This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

DLC Listing

This product family is listed with the DesignLights Consortium (DLC). Individual SKUs within this family may carry either a DLC Standard or DLC Premium qualification. Please refer to the individual product specification sheet or the DLC Qualified Products List (QPL) at designlights.org to confirm the qualification status of a specific SKU prior to specification or purchase.

LUNA

This product has received the Design Lights Consortium's LUNA listing for 3000K models. Designed to meet LUNA 5.1 requirements.

CONSTRUCTION

Cold Weather Starting

Minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature

Suitable for use in up to 40°C (104°F)

Housing

Die-cast aluminum housing and mounting arm

Lens

UV F1 rated clear polycarbonate lens

Gasket

High temperature silicone

Mounting

Adjustable pole mount

Tilt Increment

2.5°

Vibration Rating

3G vibration rating per ANSI C136.31

BUG Rating

B1-U0-G1

EPA (Effective Projected Area)

Large models: 0.45

Green Technology

Includes recycled plastic and RoHS-compliant components.

Finish

Formulated for high durability and long lasting color

FACTORY SETTINGS

Wattage:

160/140/120W (160W default)

Lightcloud Blue models can adjust light levels with the mobile app or other devices.

LIGHT DISTRIBUTION

IES Classifications

Type II - Ideal for wide walkways, on ramps and entrance roadways, bike paths, and other long/narrow applications. This type is meant for lighting larger areas is usually located near the roadside.

Type III - Ideal for roadway, general parking, and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

Type IV - Also known as "forward throw", it is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

ELECTRICAL

Drivers:

Constant Current, Class 1, 120-277V, 50/60 Hz

160W: 120V: 1.34A, 208V: 0.77A, 240V: 0.67A, 277V: 0.58A

140W: 120V: 1.17A, 208V: 0.68A, 240V: 0.59A, 277V: 0.51A

120W: 120V: 1.00A, 208V: 0.58A, 240V: 0.50A, 277V: 0.44A

Constant Current, Class 1, Class P, 480V, 50/60 Hz

160W: 480V: 0.58A

140W: 480V: 0.51A

120W: 480V: 0.44A

Dimming Driver

Driver includes dimming control wiring for 0-10V dimming systems.

Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Note: Lightcloud Blue models do not require a 0-10V dimming circuit.

THD (Default):

160W (Type IV): 5.0% at 120V, 8.3% at 277V, 4.5% at 480V,

160W (Type III): 5.0% at 120V, 8.1% at 277V, 4.6% at 480V

160W (Type II): 5.2% at 120V, 8.4% at 277V, 4.6% at 480V

Power Factor (Default):

160W (Type IV): 99.9% at 120V, 96.2% at 277V, 96.6% at 480V,

160W (Type III): 99.9% at 120V, 96.2% at 277V, 96.6% at 480V

160W (Type II): 99.9% at 120V, 96.2% at 277V, 96.6% at 480V

Surge Protection

10kV standard & 20kV optional accessory.

LED CHARACTERISTICS

LEDs

Long-life, high-efficacy, surface-mount LEDs

Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standards for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

WATTAGE EQUIVALENCY

HID Equivalency

KAI-160YA: 600W HID

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TECHNICAL SPECIFICATIONS

OTHER

Warranty

The RAB 10-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

OTHER

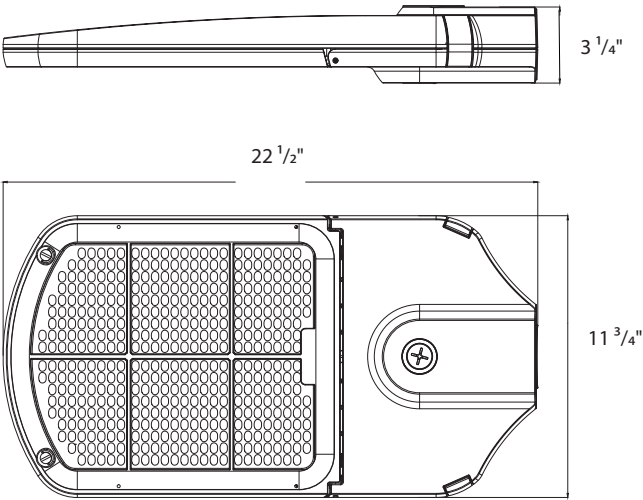
Lifespan

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

DIMENSIONS

KAI Amber

120-277V Models	6.86 lbs
480V Models	15.76 lbs



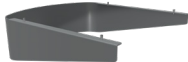
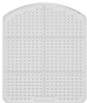
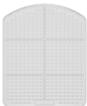
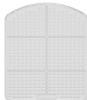
ACCESSORIES

IMAGE	CATALOG#	UPC	DESCRIPTION
	R-3P-PCT	192552004299	3 PIN TWISTLOCK PHOTOCELL 120V-277V
	R-3P-PCT-480V	192552004305	3 PIN TWISTLOCK PHOTOCELL 480V
	MSR1	192552026055	MULTI SENSOR REMOTE CONTROL IP20
	SP20KV-277	192552055079	KAI SURGE PROTECTOR 20KV 120V -277V
	SP20KV-480	192552055086	KAI SURGE PROTECTOR 20KV 480V
	KAI-SF-KIT/G	192552053754	COBRA HEAD KAI SLIPFITTER KIT ROADWAY GRAY
	KAI-MC	192552053884	COBRA HEAD KAI MOUNTING CLAMP FOR 1" TO 1 1/4" POLE ARM

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ACCESSORIES

IMAGE	CATALOG#	UPC	DESCRIPTION
	KAI-150/200SSG	192552053877	COBRA HEAD KAI 150W TO 200W 4-SIDED SHIELD ROADWAY GRAY
	KAI-150/200FSG	192552053853	COBRA HEAD KAI 150W TO 200W FRONT SIDE SHIELD ROADWAY GRAY
	KAI-150/200HSG	192552053860	COBRA HEAD KAI 150W TO 200W HOUSE SIDE SHIELD ROADWAY GRAY
	KAI-160LENS2TA	192552061728	TYPE II LENS KIT COBRA HEAD KAI AMBER 160W
	KAI-160LENS3TA	192552061735	TYPE III LENS KIT COBRA HEAD KAI AMBER 160W
	KAI-160LENS4TA	192552061742	TYPE IV LENS KIT COBRA HEAD KAI AMBER 160W

ORDERING MATRIX

KAI Amber, Field-Adjustable Cobra Head

Family	Distribution Type	Wattage	Mounting	Wavelength	Finish	Driver	Controls
KAI	-	160		YA	RG		
2T 3T 4T	Type II Type III Type IV	160 160/140/120W	BLANK Adjustable Pole Mount	YA Amber	RG Roadway Gray	BLANK 120-277V, 0-10V Dimming 480V, 0-10V Dimming /480	BLANK 7-Pin Receptacle w/Shorting Cap Lightcloud Blue w/PIR Sensor Lightcloud Blue w/MVS Sensor /LCBS /LCBS/MVS