KAI-2T160YARG/LCBS/MVS



Color: Roadway gray

Weight: 9.4 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	N/A
120V	1.27A/1.12A/0.95A
208V	0.73A/0.64A/0.55A
240V	0.64A/0.56A/0.48A
277V	0.55A/0.49A/0.43A
Input Watts	113.9-152.3W

LED Info

Watts	160/140/120W
Color Temp	Amber
Color Accuracy	-15--11 CRI
L70 Lifespan	100,000 Hours
Lumens	5254-5720 lm
Efficacy	34.5-50.2 lm/W

Technical Specifications

Lightcloud

Lightcloud Blue:
Lightcloud Blue, RAB's wireless lighting control system, eliminates the need for a hub or controller. The app shows the fixtures nearest you first, so an area is set up in minutes, even without internet on site. Lights and schedules keep working if the Wi-Fi goes down, and a Nano adds control from anywhere. DLC system: N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)
Learn more at rablighting.com/lcb.

Gateway Required:
No

Communication Protocol:
Bluetooth

Range:
Indoor: Up to 60 feet between standard building materials. Building materials such as brick, concrete, and steel construction may require additional Lightcloud Blue devices to extend around an obstruction; Up to 200 feet clear line of sight.

Outdoor: Up to 60 feet clear line of sight; Up to 18 feet around corners

Spacing Criteria:
Lightcloud Blue devices should be placed within the specified range to communicate within the network. Building materials such as brick, concrete, and steel construction or heavy vegetation, bushes or trees may require additional Lightcloud Blue devices to extend around an obstruction.

Factory Reset:
Method 1: Delete from App
Open the app and access the device settings for the paired device. Be sure that the device is online and select 'Delete'. The device will flash on/off 5 times and return to full brightness.
Method 2: Manual
Power the device off and on 5x consecutively. Do not allow less than 4s to elapse from switching off to on. Do not allow more than 2s to elapse from switching on to off. The device will flash 3x, then reset to 100% brightness at default CCT.
Method 3: Rapid Reset Tool
The Rapid Reset process must be done by a professional electrician qualified by RAB. Reach out to your RAB sales manager to request a Rapid Reset Tool. The tool simply needs to be placed directly on the small Lightcloud Blue logo on the device for 2s or until the lamp/luminaire flashes 3x, then resets to 100% brightness at the default CCT.

Performance

Product Type:
Low Voltage Controller+Sensor

L70 Lifespan:
50,000-Hour LED lifespan based on IES LM-70 results

Lifespan:
100,000-Hour LED lifespan based on IESlm-80 results and TM-21 calculations

Electrical

Driver:
Constant Current, Class1, 120-277V, 50/60 Hz:
150W: 120V: 1.18A, 208V: 0.68A, 240V: 0.59A, 277V: 0.52A
120W: 120V: 0.96A , 208V: 0.56A, 240V: 0.48A, 277V: 0.43A
100W: 120V: 0.83A, 208V: 0.48A, 240V: 0.41A, 277V: 0.38A

Dimming Driver:
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Dimmable:
Yes via the Lightcloud Blue mobile app and devices. This product will not operate properly when connected to a standard (incandescent) dimmer or dimming control.

Input Voltage:
12V

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Technical Specifications (continued)

Operating Frequency:
50/60Hz

Input Current @ 120V (mA):
30mA

Operating Temperature:
-4°F to 140°F (-20°C to 60°C)

Surge Protection:
10 kV

Aux Power Supply:
Yes

Dim to Off:
Yes

Sensor Settings

Sensor Connection Type:
Pogo pin

Max Mounting Height:
50 ft

Detection Range:
50 ft diameter mounted at 50 ft

Sensor Technology:
Microwave (MVS)

Default Setting:
Uncommissioned State:
Motion Sensitivity: High
Brightness when triggered : 100%
Hold time: 20 minutes
Standby to dim: 20%
Standby time: 1 minute
When vacant: Off
Daylight: Disabled

Commissioned State:
Once pair, the sensor will default to disabled. Once enabled the following settings apply:
Motion Sensitivity: High
Brightness when triggered: Last on status
Hold time: 20 minutes
Standby to dim: 20%
Standby time: 1 minute
When vacant: Off
Daylight: Disabled

Adjustable Sensor Settings?:
Yes, using the Lightcloud Blue mobile app

Sensing Type:
Occupancy or Vacancy (option to disable or set as an independent sensor)

Occupied Actions:
On or On at a Dim Level

Vacant Actions:
Off or On at a Dim Level

Occupancy Timeout:
1 minute to 240 minutes

Daylight Sensing:
The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set in the Lightcloud Blue mobile app.

Daylight Threshold:
150 lux to 1500 lux

Remote Control:
Adjust settings using remote control (catalog# MSR1). Only available with 0-10V dimming driver options. Remote control available here.

Construction

Shape:
Round

Enclosure Material:
Plastic

IK Rating:
IK08 Protected against 5 joules of impact. Equivalent to the impact of a 3.75 lbs. (1.7kg) mass dropped from 11.8" (300mm) above the impacted surface.

Cold Weather Starting:
The minimum starting temperature is -40°F (-40°C)

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

Housing:
Die-cast aluminum

Tilt Increment:
Rotates in 2.5 degree increments

Effective Projected Area (EPA):
EPA = 0.45

Lens:
Clear polycarbonate lens

Vibration Rating:
3G vibration rating per ANSI C136.31

Gaskets:
High-temperature silicone

Green Technology:
Mercury and UV free. RoHS-compliant components.

Compliance

Environment:
Suitable for use indoors and outdoors in dry, damp, or wet environments.

IP Rating:
IP66

UL Listed:
Suitable for wet locations

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

Field Adjustability

Field Adjustable:
Field Adjustable Light Output:
160/140/120W (factory default 160W)
Color Temperature Adjustable:
Amber

Optical

IES Classification:
The Type II distribution is ideal for wide walkways, on ramps and entrance roadways, bike paths and other long and narrow lighting applications. This type is meant for lighting larger areas and usually is located near the roadside. This type of lighting is commonly found on smaller side streets or jogging paths.

BUG Rating:
B1 U0 G1

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 Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Installation

Mounting:
Adjustable universal pole mount

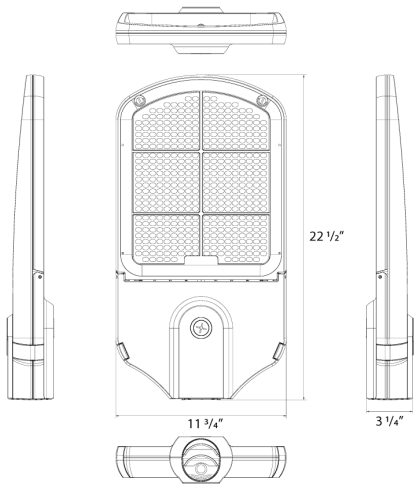
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Technical Specifications (continued)

Other

10-Year Limited 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.

Dimensions



Features

- 100,000-Hour LED lifespan
- DLC Premium
- 0-10V dimming
- CALLOUT>IP66 Rating protects against dust & water ingress
- Industry-leading 3G vibration rating per ANSI C136.31
- IK10 Rating

Ordering Matrix

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

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