RPLED Field-Adjustable Retrofit Panels

RAB®

PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____

Field-Adjustable Retrofit Panels

0-10V   100,000 HOURS   DAMP RATED   FIELD ADJUSTABLE

KEY FEATURES

- **Adjustable** wattages:
  1X4 & **2X2** models - 30/25/18W (**30W** factory default)
  2X4 models - 35/30/25W (**35W** factory default)
- Adjustable CCT: 3500/4000/5000K (**4000K** factory default)
- Smart & non-smart sensor options
- Battery backup option available
- 5-year, limited warranty

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed
Suitable for damp 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

DLC Listed
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

MODEL#	DLC ID
RPLED2X2	S-D67WRC
RPLED1X4	S-FNQS0W
RPLED2X4	S-CSN5NZ

LED CHARACTERISTICS

LEDs
Long-life, high-efficacy, discrete, 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 (SLL) Products, ANSI C78.377-2017.

CONSTRUCTION

Cold Weather Starting
The minimum starting temperature is -20°C (-4°F)

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

Cold Weather Starting for Emergency Battery
The minimum starting temperature is 5°C (41°F)

Maximum Ambient Temperature for Emergency Battery
Suitable for use in up to 50°C (122°F)

Mounting
Mounting bracket: Two brackets and two decorative bars (optional). Two steel clips provided, secured to the housing for securement of the mounting bracket.

Housing
Galvanized sheet housing and aluminum frame

Lens
Frosted Polystyrene (PS)

Green Technology
Mercury and UV free. RoHs-compliant components.

Finish
Formulated for high durability and long-lasting color

IC Rated
Suitable for direct contact with insulation

TECHNICAL SPECIFICATIONS

ELECTRICAL

Drivers:

RPLED2X2 / RPLED1X4
Constant Current, Class 2, Class P, 120-277V, 50/60 Hz
30W: 120V: 0.25A, 208V: 0.15A, 240V: 0.13A, 277V: 0.11A
25W: 120V: 0.21A, 208V: 0.12A, 240V: 0.11A, 277V: 0.10A
18W: 120V: 0.16A, 208V: 0.09A, 240V: 0.08A, 277V: 0.07A

RPLED2X4
Constant Current, Class 2, Class P, 120-277V, 50/60 Hz
35W: 120V: 0.28A, 208V: 0.17A, 240V: 0.15A, 277V: 0.12A
30W: 120V: 0.25A, 208V: 0.15A, 240V: 0.13A, 277V: 0.11A
25W: 120V: 0.21A, 208V: 0.12A, 240V: 0.11A, 277V: 0.10A

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

Emergency Light Loss Factor:
RPLED2X2: 13%
RPLED1X4: 13%
RPLED2X4: 12%

THD:
RPLED2X2: 10.41% at 120V, 9.15% at 277V
RPLED1X4: 17.07% at 120V, 10.35% at 277V
RPLED2X4: 8.42% at 120V, 8.39% at 277V

Power Factor:
RPLED2X2: 99.5% at 120V, 98.1% at 277V
RPLED1X4: 99.5% at 120V, 89.2% at 277V
RPLED2X4: 99.5% at 120V, 98.3% at 277V

Note: All values are typical (tolerance +/- 10%)

NETWORKED MICROWAVE OCCUPANCY SENSOR WITH LIGHTCLOUD BLUE (OPTIONAL)

Lightcloud Blue Installed
Lightcloud Blue is a Bluetooth Mesh wireless lighting control system that allows you to control RAB's various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile app. Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

Gateway Required: No

Communication Protocol: Bluetooth Mesh

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.

Spacing Criteria: Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooh Mesh network.

Factory Reset: Method 1- Delete from App when device is online. Method 2- Press and hold the button of LCBAUX/B for 10 s. Indicator is RED at factory new status

Sensor Connection Type: RJ09

Sensor Max Mounting Height: 13 ft.

Detection Range: 18 ft. to 44 ft. diameter mounted at 13 ft.

Sensor Technology: Microwave (MVS)

Default Setting: Uncommissioned State

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

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

NETWORKED MICROWAVE OCCUPANCY SENSOR WITH LIGHTCLOUD BLUE (OPTIONAL) (CONTINUED)

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

Sensor Default Setting:

Uncommissioned State:

• Brightness: 100%

• Hold Time: 20 Minutes

• Motion Sensitivity: High

• Stand-by dimming level: 20%

• Stand-by time: 1 Minute

Commissioned State: Disabled, After Turn on the Occupancy Mode

• Brightness: Last on Brightness

• Hold Time: 20 Minutes

• Motion Sensitivity: High

• Stand-by dimming level: 20%

• Stand-by time: 0 Minute (edited)

NON-NETWORKED MICROWAVE OCCUPANCY SENSOR

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

Maximum Mounting Height: 13 feet

Customizable Detection Area: 25, 50, 75 or 100%

Time Delay: 5s/30s/1min/3min/5min/10min/20min/30min

Cut-Off Period: 0s/10s/30s/1min/5min/10min/30min/60min/+∞

Cut-Off Dimming level: 10, 20, 30, 50%

Cut-Off Power: Less than 1W

Daylight Threshold: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/250Lux/300Lux/350Lux/400Lux/Disable

Micowave Frequency: 5.8GHz +/- 75MHz

Micowave Power: <0.3mW

Max Detection Range: 18 ft. to 44 ft. diameter mounted at 13 ft.

Detection Angle: About 30 to 150 degree

Default Setting:

• Brightness: 100%

• Hold Time: 20 Minutes

• Daylight: Disabled

• Sensitivity: 100%

• Stand-by dimming level: 20%

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

PERFORMANCE

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

OTHER

Warranty

The RAB 5-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.
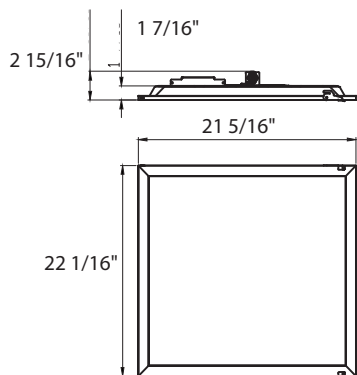
RAB

ACCESSORY

Image	SKU#	UPC	Description
	MSR1	192552026055	MULTI-SENSOR REMOTE CONTROL IP20

DIMENSIONS

RPLED2X2
Weight: 3.48 lbs

1 7/16"
2 15/16"
21 5/16"
22 1/16"

RPLED1X4
Weight: 3.2 lbs

2 15/16"
1 7/16"
10 3/16"
45 5/16"

RPLED2X4
Weight: 6.4 lbs

45 5/16"
2 15/16"
1 7/16"
22 1/16"

RPLED Field-Adjustable Retrofit Panels

RAB®
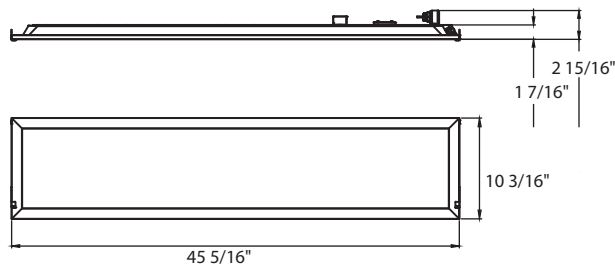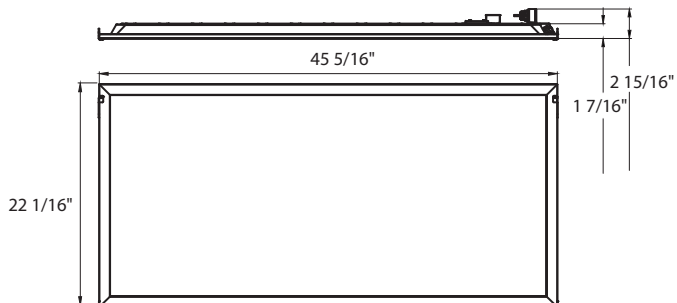
PERFORMANCE

RPLED2X2	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTS	30W			25W			18W		
INPUT WATTS	29.1W	27.9W	29W	25.3W	34.4W	25.2W	19W	18.4W	18.9W
LUMENS	3,697	3,862	3,798	3,303	3,431	3,395	2,505	2,578	2,571
LM/W	127.0	138.4	131.0	130.6	140.6	134.7	131.8	140.1	136.0
CRI	83	85	84	83	85	84	84	85	84
INPUT VOLTAGE	120-277V			120-277V			120-277V		

RPLED2X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTS	35W			30W			25W		
INPUT WATTS	33.8W	32.8W	33.6W	30.2W	29.1W	30W	25.4W	24.6W	25.3W
LUMENS	4,554	4,749	4,689	4,155	4,291	4,274	3,543	3,643	3,646
LM/W	134.7	144.8	139.6	137.6	147.5	142.5	139.5	148.4	144.1
CRI	83	85	84	84	85	84	84	85	84
INPUT VOLTAGE	120-277V			120-277V			120-277V		

RPLED1X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTS	30W			25W			18W		
INPUT WATTS	29.2W	27.8W	28.9W	25.5W	24.4W	25.3W	19W	18.4W	18.9W
LUMENS	3,722	3,894	3,825	3,327	3,464	3,421	2,529	2,611	2,601
LM/W	127.5	140.1	132.4	130.5	142.0	135.2	133.1	141.9	137.6
CRI	83	85	84	83	85	84	84	85	84
INPUT VOLTAGE	120-277V			120-277V			120-277V		

ORDERING MATRIX

RPLED

Family	Size (Wattages)	Color Temp	Finish	Voltage	Options
RPLED	2X2 2'X2' (30/25/18W) Adjustable 1X4 1'X4' (30/25/18W) Adjustable 2X4 2'X4' (35/30/25W) Adjustable	Blank 3500/4000/5000K Adjustable CCT	Blank White	Blank 120-277V, 0-10V Dimming	Blank No Option /E Battery Backup /MVS Microwave Occupancy Sensor /LCB Lightcloud Blue Controller /LCBS/MVS Lightcloud Blue enabled Microwave Sensor /MVS/E Microwave Occupancy Sensor w/Battery Backup /LCB/E Lightcloud Blue w/Battery Backup /LCBS/MVS/E Lightcloud Blue enabled Microwave Sensor w/Battery Backup