RPLED Field-Adjustable Retrofit Panels

RAB

RPLED2X2

RPLED1X4

RPLED2X4

PROJECT:
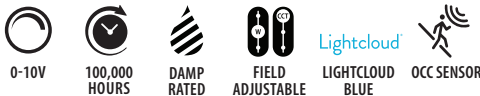
DATE:

TYPE:

PREPARED BY:

5 YEAR LIMITED WARRANTY · DLC LISTED PREMIUM · UL CERTIFIED Certified to UL 1598

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)
- **0-10V dimming** or **wireless dimming** with **Lightcloud Blue**
- **Battery backup** option available
- Ventilated **air-return mounting frames** are available for all sizes (sold separately) which helps reduce the number of required ceiling vents for a cleaner appearance
- 5-year, limited warranty

Field-Adjustable Retrofit Panels

0-10V | 100,000 HOURS | DAMP RATED | FIELD ADJUSTABLE | Lightcloud LIGHTCLOUD BLUE | OCC SENSOR

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
EFFICACY	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
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
EFFICACY	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
VOLTAGE		120-277V			120-277V			120-277V	

RPLED Field-Adjustable Retrofit Panels

PERFORMANCE

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
EFFICACY	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
VOLTAGE	120-277V			120-277V			120-277V		

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

CONSTRUCTION

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

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

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

Maximum Ambient Temperature for Emergency Battery
Suitable for use in up to 50℃ (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. Ventilated air-return mounting frames are available for all sizes (sold separately).

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

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.

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.
Note: 0-10V dimming circuit is not required when using models with Lightcloud Blue.

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

RPLED Field-Adjustable Retrofit Panels

TECHNICAL SPECIFICATIONS

WIRELESS NETWORK LIGHTING CONTROLS

Lightcloud Blue

Lightcloud Blue (LCB) 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.

DLC system - N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)

Learn more at rablighting.com/controls

Controller: LCBAUX/[W/B]

OCCUPANCY SENSORS
Sensor Type: Passive Infrared (PIR) or Microwave (MVS)
Sensor Mounting: Integrated
Max Mounting Height: 13 ft.
Detection Range: 18 ft. to 44ft. diameter mounted at 13 ft.

Daylight Sensing: Yes, continuous dimming optional.

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

Adjustable Settings: Settings for Lightcloud Blue models can be adjusted using the mobile app. All other sensors will require MSR1 Remote (sold separately) to adjust the following sensor settings:
Standby to dim: 10%/20%/30%/50%
Standby time: 0s/10s/30s/1min/5min/10min/30min/60min/+∞
Daylight Threshold: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable

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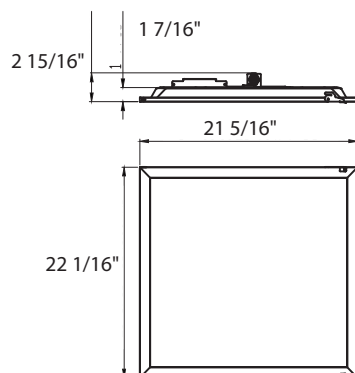
Lifespan
100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations
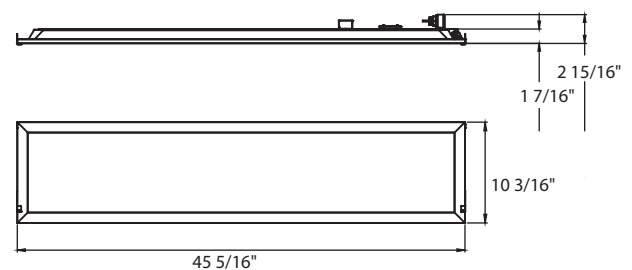
DIMENSIONS

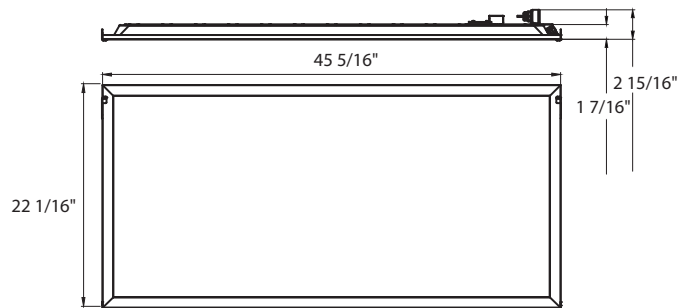### RPLED2X2
Weight: 3.48 lbs

RPLED1X4
Weight: 3.2 lbs

RAB®

DIMENSIONS (CONTINUED)

RPLED2X4
Weight: 6.4 lbs

45 5/16"

2 15/16"

1 7/16"

22 1/16"

ACCESSORY

Image	SKU#	UPC	Description
	MSR1	192552026055	MULTI-SENSOR REMOTE CONTROL IP20
	RPAH2	192552052306	RPLED2X2 FRAME WHITE AIR HOLE 2 PCS 2FT
	RPAH4	192552052313	RPLED1X4&2X4 FRAME WHITE AIR HOLE 2 PCS 4FT

ORDERING MATRIX

RPLED

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