

Field-Adjustable Frames



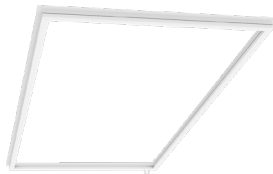
FR2X2



FR1X4



FR2X4



Field-adjustable frames



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- Available in **2X2**, **1X4** and **2X4** sizes & selectable wattages:
2X2: 40/35/30/25/20W (Default 40W)
1X4: 40/35/30/25/20W (Default 40W)
2X4: 50/45/40/35/30W (Default 50W)
- Selectable **CCT:** 3000/3500/4000/5000/6500K (Default 4000K)
- Voltage rating: **120-277V**
- Battery backup** option available with an off-board battery that mounts directly onto the t-grid bracket
- Available with **smart controls**
- IC rated**
- 5-year**, limited warranty

PERFORMANCE

FR2X2	3000K	3500K	4000K	5000K	6500K
WATTS	40W				
INPUT WATTS	39.4W	38.8W	39.0W	38.4W	38.4W
LUMENS	5,081	4,915	5,004	4,898	4,927
LM/W	129.0	126.8	128.2	127.7	128.3
CRI	83	85	85	85	83
INPUT VOLTAGE	120-277V				

FR2X2	3000K	3500K	4000K	5000K	6500K
WATTS	35W				
INPUT WATTS	34.0W	34.1W	34.1W	34.0W	34.0W
LUMENS	4,321	4,349	4,373	4,391	4,409
LM/W	127.0	127.7	128.4	129.0	129.7
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR2X2	3000K	3500K	4000K	5000K	6500K
WATTS	30W				
INPUT WATTS	29.7W	29.7W	29.7W	29.7W	29.7W
LUMENS	3,812	3,832	3,849	3,863	3,871
LM/W	128.2	128.8	129.4	130.0	130.5
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR2X2	3000K	3500K	4000K	5000K	6500K
WATTS	25W				
INPUT WATTS	25.1W	25.1W	25.1W	25.1W	25.1W
LUMENS	3,326	3,248	3,266	3,281	3,297
LM/W	128.6	129.3	130.0	130.7	131.4
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR2X2	3000K	3500K	4000K	5000K	6500K
WATTS	20W				
INPUT WATTS	20.5W	20.5W	20.5W	20.5W	20.4W
LUMENS	2,637	2,650	2,663	2,674	2,682
LM/W	128.8	129.3	130.0	130.7	131.3
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

Field-Adjustable Frames



PERFORMANCE

FR1X4	3000K	3500K	4000K	5000K	6500K
WATTS	40W				
INPUT WATTS	37.9W	39.2W	39.1W	39.0W	38.9W
LUMENS	4,820	4,971	4,972	4,981	4,994
LM/W	127.3	126.9	127.3	127.7	128.3
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR1X4	3000K	3500K	4000K	5000K	6500K
WATTS	35W				
INPUT WATTS	34.3W	34.4W	34.4W	34.3W	34.3W
LUMENS	4,384	4,404	4,416	4,427	4,429
LM/W	127.7	128.1	128.5	128.9	129.2
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR1X4	3000K	3500K	4000K	5000K	6500K
WATTS	30W				
INPUT WATTS	30.0W	29.8W	30.1W	30.0W	30.0W
LUMENS	3,851	3,832	3,889	3,904	3,916
LM/W	128.3	128.5	129.4	129.9	130.5
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR1X4	3000K	3500K	4000K	5000K	6500K
WATTS	25W				
INPUT WATTS	25.4W	25.4W	25.4W	25.4W	25.4W
LUMENS	3,276	3,288	3,301	3,310	3,317
LM/W	128.9	129.4	129.9	130.4	130.9
CRI	83	85	85	85	83
INPUT VOLTAGE	120-277V				

FR1X4	3000K	3500K	4000K	5000K	6500K
WATTS	20W				
INPUT WATTS	20.6W	20.6W	20.6W	20.6W	20.6W
LUMENS	2,649	2,664	2,676	2,685	2,697
LM/W	128.7	129.2	129.8	130.3	131.0
CRI	83	85	85	85	83
INPUT VOLTAGE	120-277V				

FR2X4	3000K	3500K	4000K	5000K	6500K
WATTS	50W				
INPUT WATTS	47.5W	46.9W	46.8W	46.7W	47.1W
LUMENS	6,197	6,043	6,042	6,049	6,203
LM/W	130.6	128.8	129.1	129.5	131.6
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR2X4	3000K	3500K	4000K	5000K	6500K
WATTS	45W				
INPUT WATTS	42.1W	42.1W	42.1W	42.1W	42.2W
LUMENS	5,447	5,469	5,493	5,517	5,551
LM/W	129.4	129.9	130.5	131.0	131.6
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR2X4	3000K	3500K	4000K	5000K	6500K
WATTS	40W				
INPUT WATTS	37.5W	37.6W	37.6W	37.5W	37.5W
LUMENS	4,881	4,910	4,933	4,951	4,968
LM/W	130.1	130.7	131.4	131.9	132.5
CRI	83	84	85	85	83
INPUT VOLTAGE	120-277V				

FR2X4	3000K	3500K	4000K	5000K	6500K
WATTS	35W				
INPUT WATTS	33.3W	33.5W	33.2W	33.2W	33.1W
LUMENS	4,365	4,492	4,382	4,395	4,402
LM/W	131.3	134.2	132.0	132.5	133.0
CRI	83	85	85	85	83
INPUT VOLTAGE	120-277V				

FR2X4	3000K	3500K	4000K	5000K	6500K
WATTS	30W				
INPUT WATTS	28.7W	28.7W	28.7W	28.7W	28.7W
LUMENS	3,764	3,779	3,796	3,811	3,827
LM/W	131.3	131.8	132.4	132.9	133.6
CRI	83	85	85	85	83
INPUT VOLTAGE	120-277V				

TECHNICAL SPECIFICATIONS

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 w/Battery Backup

The minimum starting temperature is -0°C (32°F)

Maximum Ambient Temperature w/Battery Backup

Suitable for use in up to 50°C (122°F)

Mounting

Recessed into existing T-grid brackets

Housing

Aluminum

Lens

Polycarbonate

IC Rated

Suitable for direct contact with insulation

Finish

Formulated for high durability and long lasting color

Green Technology

Mercury and UV free. RoHS-compliant components.

ELECTRICAL

Drivers

Constant Current, Class 2, 120-277V, 50/60 Hz,
20W: 120V: 0.18A, 208V: 0.11A, 240V: 0.08A, 277V: 0.08A
25W: 120V: 0.23A, 208V: 0.13A, 240V: 0.12A, 277V: 0.10A
30W: 120V: 0.28A, 208V: 0.16A, 240V: 0.14A, 277V: 0.12A
35W: 120V: 0.32A, 208V: 0.19A, 240V: 0.16A, 277V: 0.14A
40W: 120V: 0.37A, 208V: 0.21A, 240V: 0.18A, 277V: 0.16A
45W: 120V: 0.41A, 208V: 0.24A, 240V: 0.21A, 277V: 0.16A
50W: 120V: 0.46A, 208V: 0.26A, 240V: 0.23A, 277V: 0.20A

Dimming Driver

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

Battery Backup

Battery backup will operate the LED Lamp for 90 minutes if power fails.
Wired for 120-277V.

Emergency Light Loss Factor:

20W: 0.10
25W: 0.08
30W: 0.07
35W: 0.06
40W: 0.05
45W: 0.05
50W: 0.04

Surge Protection

L-N:1KV, L/N-PG:2KV

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

COMPLIANCE

UL Listed

Suitable for damp locations

DLC Listed

The product is listed 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.

DLC Product ID:

FR2X2: S-7M9K6M

FR1X4: S-Z22MB1

FR2X4: S-S1Q1C2

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

FACTORY SETTINGS

Selectable Wattage

2X2: 40/35/30/25/20W (Default 40W)

1X4: 40/35/30/25/20W (Default 40W)

2X4: 50/45/40/35/30W (Default 50W)

Selectable CCT

3000/3500/4000/5000/6500K (Default 4000K)

LED CHARACTERISTICS

LEDs

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

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

WIRELESS NETWORK LIGHTING CONTROL

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)

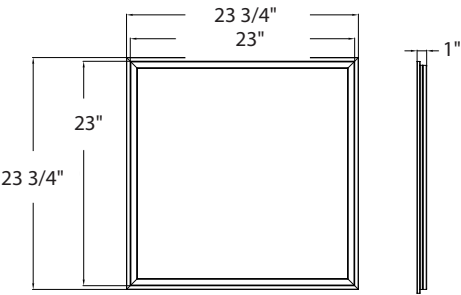
Learn more at www.lightcloud.com

Field-Adjustable Frames

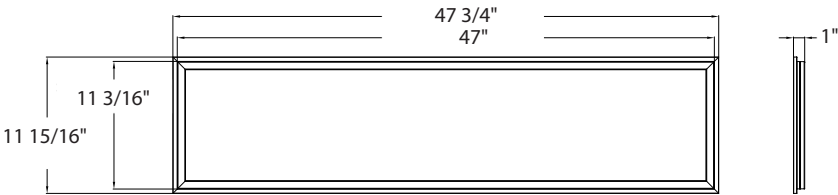


DIMENSIONS

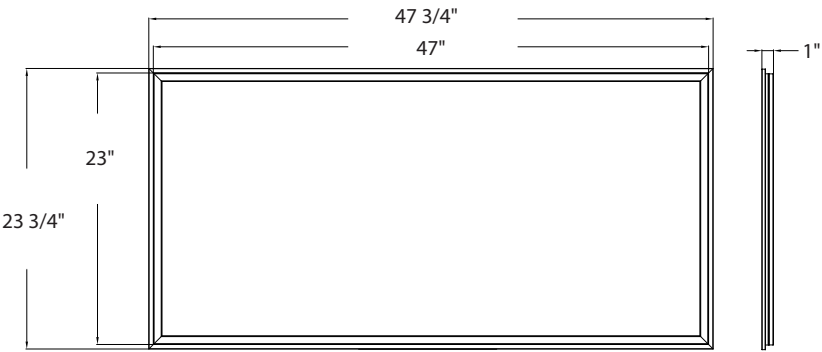
FR (2X2)
Weight: 3.8 lbs
Weight: 8.8 lbs (w/Battery backup)



FR (1X4)
Weight: 4.4 lbs
Weight: 9.4 lbs (w/Battery backup)



FR (2X4)
Weight: 4.6 lbs
Weight: 9.8 lbs (w/Battery backup)



ORDERING MATRIX

FR (Field-Adjustable Frames)

Family	Size (Wattages)	Color Temp	Finish	Driver	Options
FR	2X22'X2' (40/35/30/25/20W) 1X4' (40/35/30/25/20W) 2X4' (50/45/40/35/30W)	Blank 3000/3500/4000/5000/6500K CCT Adjustable	Blank White	Blank 120-277V, 0-10V Dimming	Blank /LCB /E No Option Lightcloud Blue Battery Backup