

# Field-Adjustable Frames



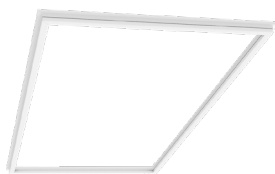
FR2X2



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				

FR1X4	3000K	3500K	4000K	5000K	6500K
WATTS	15W				
INPUT WATTS	15.1W	15.1W	15.1W	15.1W	15.1W
LUMENS	1,908	1,917	1,926	1,935	1,944
LM/W	126.3	126.9	127.5	128.1	128.7
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

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](http://designlights.org) to confirm the qualification status of a specific SKU prior to specification or purchase.

#### 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](http://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](http://www.lightcloud.com)

# Field-Adjustable Frames

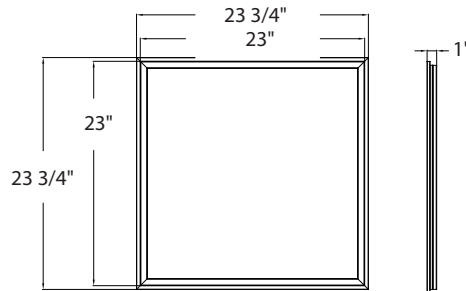


## DIMENSIONS

### FR (2X2)

Weight: 3.8 lbs

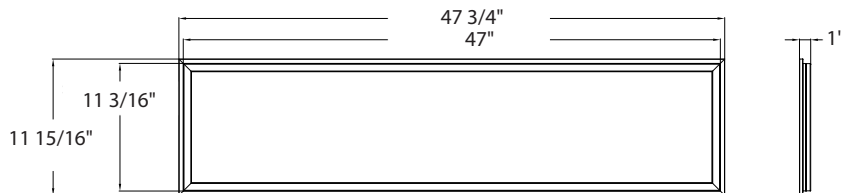
Weight: 8.8 lbs (w/Battery backup)



### FR (1X4)

Weight: 4.4 lbs

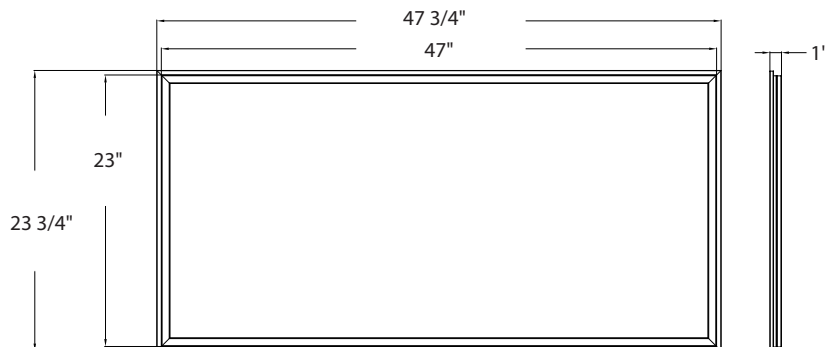
Weight: 9.4 lbs (w/Battery backup)



### 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																
<b>FR</b>	<table border="1"> <tr> <td>2X2</td> <td>2'X2' (40/35/30/25/20W)</td> </tr> <tr> <td>1X4</td> <td>1'X4' (40/35/30/25/20W)</td> </tr> <tr> <td>2X4</td> <td>2'X4' (50/45/40/35/30W)</td> </tr> </table>	2X2	2'X2' (40/35/30/25/20W)	1X4	1'X4' (40/35/30/25/20W)	2X4	2'X4' (50/45/40/35/30W)	<table border="1"> <tr> <td>Blank</td> <td>3000/3500/4000/5000/6500K</td> </tr> <tr> <td></td> <td>CCT Adjustable</td> </tr> </table>	Blank	3000/3500/4000/5000/6500K		CCT Adjustable	<table border="1"> <tr> <td>Blank</td> <td>White</td> </tr> </table>	Blank	White	<table border="1"> <tr> <td>Blank</td> <td>120-277V, 0-10V Dimming</td> </tr> </table>	Blank	120-277V, 0-10V Dimming	<table border="1"> <tr> <td>Blank /LCB /E</td> <td>No Option Lightcloud Blue Battery Backup</td> </tr> </table>	Blank /LCB /E	No Option Lightcloud Blue Battery Backup
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