



# RXR-LED Red

Cleanroom LED Grid / Flange 15/16 to 1.5 in. T Grid

## PRODUCT SPECIFICATION

For use in cleanroom vivarium applications.

### Mounting

Suitable for installation in recessed 15/16"-1.5" T-Grid or hard ceiling applications. Hard ceiling (flange) type mounts via swing arm brackets that extend and clamp with a single screw action. Swing arm bracket also serves as connection for earthquake cables.

### Housing

18 gauge cold rolled steel die-formed to shape with seams welded, ground smooth, and caulked airtight. Aluminum and 304 stainless steel available.

### Door

One-piece 18 gauge cold rolled steel, gasketed and sealed overlapping door. Freedom Hinge™ design permits removal and hinging from either side. Aluminum and 304 stainless steel available.

### Lens

Optic Plus lens (standard) completely hides diode image while providing greater than 90% light transmission.

### Finish

Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance. Brushed stainless steel available.

### Hardware

Stainless steel fasteners

### Driver

0-10Vdc 1% dimming, >0.9 PF, <20% THD  
Factory programmable, Operating temp -40°C Min. to 50°C Max

### Wiring

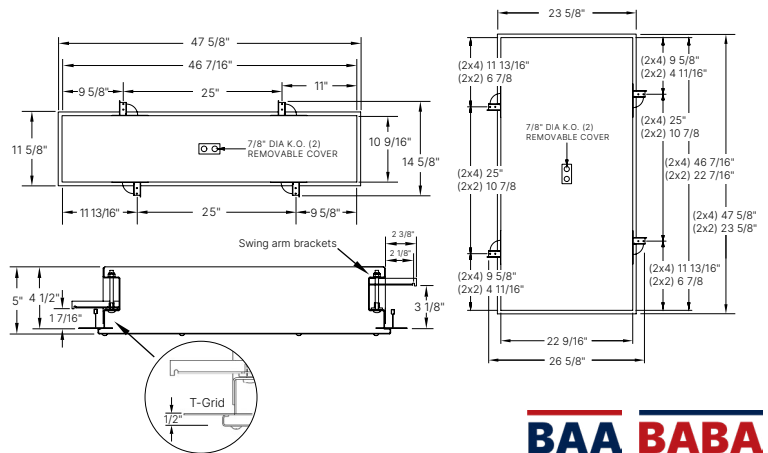
Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

### Certifications

UL Listed wet location. IC, IP66, and NEMA4 / 4X Rated.  
Suitable for use in ISO-3 clean rooms (209E Class 1).  
USP 797 and USP 800 compliant.



Ceiling Grid / Flange Design



|     |     |       |      |      |     |       |       |      |     |        |
|-----|-----|-------|------|------|-----|-------|-------|------|-----|--------|
| one | two | three | four | five | six | seven | eight | nine | ten | eleven |
| RXR | -   | -     | /    | -    | -   | VAR   | DM    | -    | -   | -      |

### one Luminaire Size

- 14 1 x 4, three rows max
- 22 2 x 2
- 24 2 x 4

### two LED Source

Refer to the LED Source Table on Page 2 for available options.

### three Color Temperature

- 30 3000K
  - 35 3500K
  - 40 4000K
  - 50 5000K
- Leave blank for RED-LED only.

### four CRI

- 80 80 CRI
- 90 90 CRI

### five Door Material

- A Aluminum
- C Cold rolled steel, standard
- S 304 Stainless steel

### six Door Finish

- R Brushed (Stainless steel only)
- W White, standard

### seven Voltage

- VAR Variable, 120-277 V, 50/60Hz

### eight Driver

- DM 0-10VDC Dimming

### nine Internal Lens

- 122 Optic Plus LED diffusing acrylic, standard
- 122R Optic Plus with RF grid, Must be used with RF filter\*
- 130 .125 in. LED diffusing Lexan

### ten External Lens

- 00 No external lens
- 33 .125 in. clear polycarbonate

### eleven Options

- 2C Two circuit wired
- AM Anti-microbial coating (exposed areas)
- CU Canadian UL Listing
- CP CCEA Chicago Plenum
- EM Emergency battery backup
- FH Fuse and holder
- IMS Integral Occ Sensor
- NL-LED Night light, LED
- PF Plaster frame
- RF Radio interference filter, one per circuit\*
- TP Stainless steel torx head fasteners w/ pin

### Housing Material

- AH Aluminum
- SH 304 Stainless steel

Modifications are available to meet custom requirements. Specifications and dimensions are subject to change without notice.

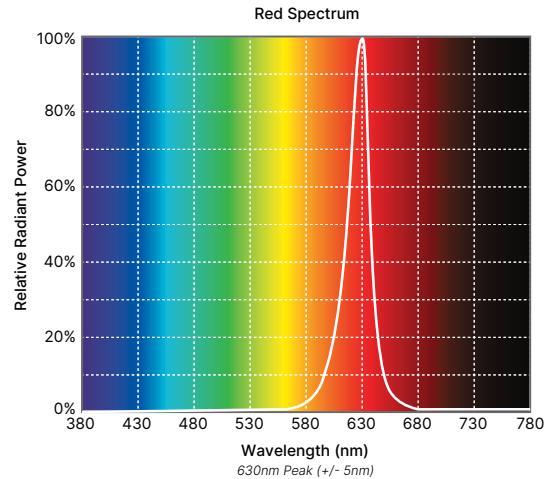
| CRI | LED Life |
|-----|----------|
| >80 | >100,000 |

Red/White LED (Each color on a dedicated circuit.)

| LED Source (Box 2)     | Red              |       | 3000K            |     | 3500K            |     | 4000K            |     | 5000K            |     | Input Watts |
|------------------------|------------------|-------|------------------|-----|------------------|-----|------------------|-----|------------------|-----|-------------|
|                        | Delivered Lumens | Watts | Delivered Lumens | L/W | Delivered Lumens | L/W | Delivered Lumens | L/W | Delivered Lumens | L/W |             |
| <b>1' x 4' Fixture</b> |                  |       |                  |     |                  |     |                  |     |                  |     |             |
| 1R/1W55                | 1153             | 22    | 5160             | 126 | 5237             | 128 | 5391             | 131 | 5545             | 135 | 41.0        |
| 1R/2W75                | 1153             | 22    | 7543             | 126 | 7656             | 128 | 7881             | 132 | 8106             | 136 | 59.8        |
| <b>2' x 2' Fixture</b> |                  |       |                  |     |                  |     |                  |     |                  |     |             |
| 2R/2W55                | 1153             | 22    | 5212             | 127 | 5290             | 129 | 5445             | 133 | 5601             | 137 | 41.0        |
| 2R/2W70                | 1153             | 22    | 6681             | 122 | 6781             | 124 | 6980             | 127 | 7179             | 131 | 54.8        |
| <b>2' x 4' Fixture</b> |                  |       |                  |     |                  |     |                  |     |                  |     |             |
| 1R/2W55                | 1153             | 22    | 5617             | 141 | 5701             | 143 | 5869             | 147 | 6037             | 152 | 39.8        |
| 1R/2W90                | 1153             | 22    | 8953             | 132 | 9087             | 134 | 9354             | 138 | 9621             | 142 | 67.6        |
| 1R/2W120               | 1153             | 22    | 11754            | 131 | 11930            | 133 | 12281            | 137 | 12631            | 141 | 89.8        |
| 2R/2W55                | 2306             | 44    | 5617             | 141 | 5701             | 143 | 5869             | 147 | 6037             | 152 | 39.8        |
| 2R/2W90                | 2306             | 44    | 8953             | 132 | 9087             | 134 | 9354             | 138 | 9621             | 142 | 67.6        |
| 2R/2W120               | 2306             | 44    | 11754            | 131 | 11930            | 133 | 12281            | 137 | 12631            | 141 | 89.8        |

Red LED Only

| LED Source (Box 2) | Size    | Delivered Lumens | Watts |
|--------------------|---------|------------------|-------|
| 1R                 | 1' x 4' | 1153             | 22    |
| 2R                 | 2' x 2' | 1153             | 22    |
| 2R                 | 2' x 4' | 2306             | 44    |



## Specified Output Option

LC Doane programmable drivers allows us to deliver a specific lumen output. If none of the options in the chart above fit your application, let us know the desired lumen output and we will do the rest. See the example for a 2x4 on how this will be specified:

**Example Model:**

RXR24-1RXX<sup>1</sup>ISO-40/80-CW-VARDM-122/00-(XX<sup>2</sup>/LUMENS)

**LUMENS** = You provide the lumens.

**XX<sup>1</sup>** = We will determine the number of rows.

**XX<sup>2</sup>** = We will provide the wattage information.

**Photometric Data @ 80 CRI with 122 lens**

Use the multipliers below to adjust the delivered lumens

|                    |     |
|--------------------|-----|
| 33 lens multiplier | .86 |
| 90 CRI multiplier  | .83 |