



# LR2 SERIES

## Architectural Recessed 2X4 LED Volume Luminaire

**Fixture Type:**

**Job Information:**

### SPECIFICATIONS:

#### LED MODULES:

- High performance linear configured LED module boards.
- Each board consists of multiple mid-power, high efficacy LEDs in a precise layout eliminating the need for supplemental heat sinking.
- The boards produce an even and diffuse light which maximizes optical efficiency.
- Compatible with the dimming performance of the LED driver.
- Color temperatures available: 3000K, 3500K and 4000K.
- Upon request: 5000K.

#### LED DRIVERS:

- Factory programmable constant current LED power supply.
- Multiple standard drive current outputs (factory set by Mercury) are cataloged with their corresponding lumen package offerings. Upon request, custom drive current outputs and lumen packages are available.
- Note: Certain cataloged lumen packages may be provided with a non-programmable constant current LED power supply at Mercury's discretion. Contact factory if critical.
- Universal voltage input, 120V-277V, 50HZ-60HZ.
- Specification grade dimming down to 1% on 0-10V dimming controls.

#### LED LUMEN PACKAGES:

- Cataloged standard lumen packages. See attached chart for full details.
- Custom lumen packages pre-set are optional with programmable drivers only. Contact factory for details.

#### HOUSING:

- All metal parts are fabricated in a computer-controlled operation from heavy gauge code grade cold rolled steel.
- Rivets hold all parts together for strength and unity.
- A custom formulated non-glare white powder coating is applied to the housing after fabrication providing a reflectivity of at least 90%.

#### DIFFUSER:

- Architecturally-curved profile design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing for high LED performance.

#### STANDBY LIGHTING OPTION:

- Self contained module, 5W, 7W, 10W or 12W as specified. Battery backup upon loss of power.
- May not be available with some higher lumen packages. See Lumen package matrix.

#### INSTALLATIONS:

- Designed for installation into NEMA Type G lay-in acoustical grid ceiling systems, 1" grid or 9/16" fine-line grid.
- For NEMA Type F dry wall applications an additional flange kit must be used with Type G housing.
- Four pry-out style grid support clips are located on the housing sides.
- Four auxiliary suspension points are also provided for securing to building structure.
- A quick wiring access plate is located on back of the housing. Additional knockouts provided.
- Factory installed power whips as specified.

#### CERTIFICATE OF SAFETY COMPLIANCE AND LISTINGS:

- Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.
- IC rated. (Some higher lumen packages may not qualify. See Lumen Package matrix).

#### WARRANTY:

- 5-year limited warranty is standard. Special 10-year warranty available on a job-to-job basis. Complete LED warranty terms available at [www.mercltg.com](http://www.mercltg.com).
- Actual performance may differ as a result of end-user environment and application.
- Most LED luminaires are suitable to operate in ambient temperatures from -20C (-4F) to 25C (77F).
- The following exclusions apply: Luminaires with optional standby lighting option, integral lighting controls options, or wireless control options. Consult factory.
- LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.

### FEATURES:

- Shallow recessed 2X4 ambient LED luminaire featuring a single linear high transmission acrylic diffuser.
- Architecturally-curved diffuser envelopes the LED light source allowing maximum light transmission while eliminating pixelations and hot spots.
- Delivers a balanced amount of horizontal and vertical illumination.
- Digital LED technology provides high efficacy and energy efficiency.
- Multiple power and light levels are offered as standard to allow meeting design and energy needs per application. Custom factory set levels available on request.
- Lumen maintenance; Reported L70 (hours) & L80 (hours) > 60,000.
- CRI greater than 80.
- Fixture lumens per watt ratios up to 125.
- American Made.
- Matching surface luminaire: LW2 Series.



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Example: LR2-24G-7300-35K-1%-UNI-EM7

| SERIES | MODULE SIZE/CEILING   | NOMINAL LUMENS   | COLOR TEMP                                  | DRIVER   | VOLTAGE | STANDBY LIGHTING OPTIONS   | OPTIONS   |
|--------|---|--|---|--|---------|----------------------------|---|
| LR2    | 24G<br>2X4 Module/<br>Nema Type<br>G/Lay-In<br>Grid, 1" or<br>9/16" Fine<br>Line. | 3300<br>3800<br>4200<br>4500<br>5000<br>6400<br>7300<br><br>XXXX<br>Custom Lumen<br>Package.<br>Contact Factory. | 30K<br>35K<br>40K<br>50K<br>Upon<br>Request | 1%<br>0-10V 1%<br>Dimming<br><br>As<br>Specified | UNI     | EM5<br>EM7<br>EM10<br>EM12 | FLX<br>6Ft. Single<br>Circuit<br>Power Flex<br>(Specify Voltage)<br><br>FLX2<br>6Ft. 2-Circuit<br>Power Flex<br>(Specify Voltage) |

## LUMEN PACKAGE

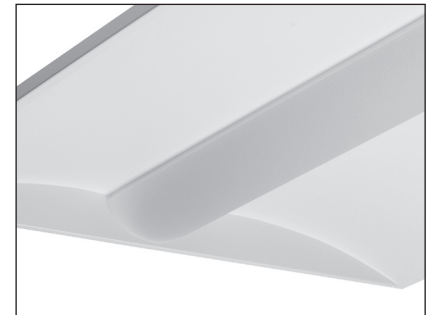
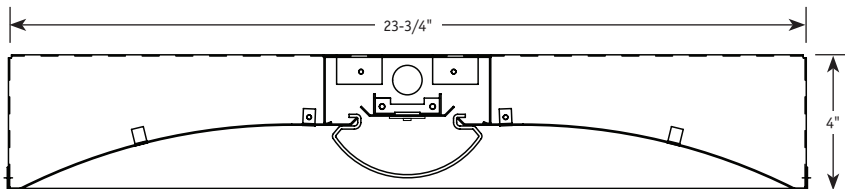
| SERIES | MODULE SIZE | Nominal Lumen Package | Color | Fixture Power (W) | Delivered Lumens | Fixture LPW | IC Rated | Standby Lighting Option |
|--------|-------------|-----------------------|-------|-------------------|------------------|-------------|----------|-------------------------|
| LR2    | 2X4         | 3300                  | 3000K | 28                | 3203             | 116         | ✓        | ✓                       |
|        |             | 3300                  | 3500K | 28                | 3253             | 118         | ✓        | ✓                       |
|        |             | 3300                  | 4000K | 28                | 3354             | 121         | ✓        | ✓                       |
|        |             | 3300                  | 5000K | 28                | 3455             | 125         | ✓        | ✓                       |
|        |             | 3800                  | 3000K | 32                | 3634             | 113         | ✓        | ✓                       |
|        |             | 3800                  | 3500K | 32                | 3691             | 115         | ✓        | ✓                       |
|        |             | 3800                  | 4000K | 32                | 3805             | 119         | ✓        | ✓                       |
|        |             | 3800                  | 5000K | 32                | 3919             | 122         | ✓        | ✓                       |
|        |             | 4200                  | 3000K | 37                | 4055             | 111         | ✓        | ✓                       |
|        |             | 4200                  | 3500K | 37                | 4119             | 113         | ✓        | ✓                       |
|        |             | 4200                  | 4000K | 37                | 4247             | 116         | ✓        | ✓                       |
|        |             | 4200                  | 5000K | 37                | 4374             | 120         | ✓        | ✓                       |
|        |             | 4500                  | 3000K | 40                | 4362             | 109         | ✓        | ✓                       |
|        |             | 4500                  | 3500K | 40                | 4431             | 111         | ✓        | ✓                       |
|        |             | 4500                  | 4000K | 40                | 4568             | 114         | ✓        | ✓                       |
|        |             | 4500                  | 5000K | 40                | 4705             | 118         | ✓        | ✓                       |
|        |             | 5000                  | 3000K | 45                | 4821             | 107         | ✓        | ✓                       |
|        |             | 5000                  | 3500K | 45                | 4897             | 108         | ✓        | ✓                       |
|        |             | 5000                  | 4000K | 45                | 5048             | 112         | ✓        | ✓                       |
|        |             | 5000                  | 5000K | 45                | 5200             | 115         | ✓        | ✓                       |
|        |             | 6400                  | 3000K | 57                | 6128             | 107         | -        | ✓                       |
|        |             | 6400                  | 3500K | 57                | 6224             | 109         | -        | ✓                       |
|        |             | 6400                  | 4000K | 57                | 6416             | 112         | -        | ✓                       |
|        |             | 6400                  | 5000K | 57                | 6609             | 115         | -        | ✓                       |
|        |             | 7300                  | 3000K | 61                | 6940             | 114         | -        | ✓                       |
|        |             | 7300                  | 3500K | 61                | 7014             | 115         | -        | ✓                       |
|        |             | 7300                  | 4000K | 61                | 7309             | 120         | -        | ✓                       |
|        |             | 7300                  | 5000K | 61                | 7383             | 121         | -        | ✓                       |

Actual wattage may differ by +/- 5% when operating between 120V-277V +/- 10%.

## PHOTOMETRICS:

All photometric reports are available at [www.mercltq.com](http://www.mercltq.com).

## CROSS SECTIONS:



Detail

