



LR315 SERIES

Architectural Recessed 2X2 LED Volume Luminaire Ultra-Shallow Design

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:

- Architectural hybrid-shape floating rounded profile design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing for high LED performance.

STANDBY LIGHTING OPTION:

- Self contained module, 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.
- Optional: Suitable for wet locations marking is available. Contact factory for all details.
- 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.
- 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:

- Ultra-shallow recessed 2X2 ambient LED luminaire featuring a single linear high transmission acrylic diffuser.
- Architectural hybrid-shape floating rounded diffuser envelopes the LED light source allowing maximum light transmission while eliminating pixillations 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 133.
- American Made.



LR315 SERIES

Example: LR315-22G-3400-35K-1%-UNI-EM7

| LR315 | 22G | | | | UNI | | |
|--------|---|--|---|---|---------|--------------------------|---|
| SERIES | MODULE SIZE/CEILING | NOMINAL LUMENS | COLOR TEMP | DRIVER | VOLTAGE | STANDBY LIGHTING OPTIONS | OPTIONS |
| LR315 | 22G 2X2 Nema Type G/Lay-In Grid, 1" or 9/16" Fine Line. | 2200 2600 3000 3400 3800 4100 5200 7100 XXXX Custom Lumen Package. Contact Factory. | 30K 35K 40K 50K Upon Request | 1% 0-10V 1% Dimming — As Specified | UNI | EM7 EM10 EM12 | FLX 6Ft. Single Circuit Power Flex (Specify Voltage) FLX2 6Ft. 2-Circuit Power Flex (Specify Voltage) WL UL "Suitable for Wet Locations" labeled. |

LUMEN PACKAGE

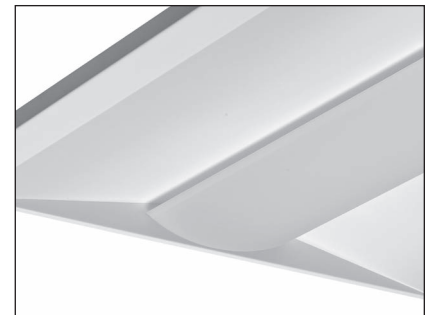
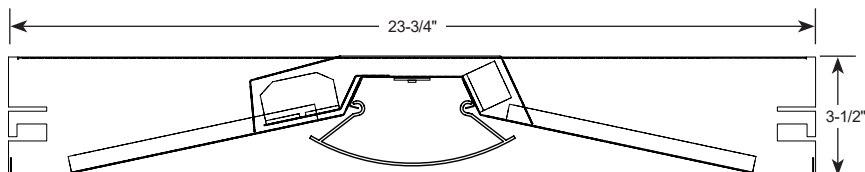
| Series | Module Size | Nominal Lumen Package | Color | Fixture Power (W) | Delivered Lumens | Fixture LPW | IC Rated | Standby Lighting Option |
|--------|-------------|-----------------------|-------|-------------------|------------------|-------------|----------|-------------------------|
| LR315 | 2X2 | | | | | | | |
| | | 2200 | 3000K | 18 | 2151 | 120 | ✓ | ✓ |
| | | 2200 | 3500K | 18 | 2222 | 123 | ✓ | ✓ |
| | | 2200 | 4000K | 18 | 2242 | 125 | ✓ | ✓ |
| | | 2200 | 5000K | 18 | 2242 | 125 | ✓ | ✓ |
| | | 2600 | 3000K | 21 | 2538 | 121 | ✓ | ✓ |
| | | 2600 | 3500K | 21 | 2622 | 125 | ✓ | ✓ |
| | | 2600 | 4000K | 21 | 2646 | 126 | ✓ | ✓ |
| | | 2600 | 5000K | 21 | 2646 | 126 | ✓ | ✓ |
| | | 3000 | 3000K | 25 | 2918 | 117 | ✓ | ✓ |
| | | 3000 | 3500K | 25 | 3015 | 121 | ✓ | ✓ |
| | | 3000 | 4000K | 25 | 3042 | 122 | ✓ | ✓ |
| | | 3000 | 5000K | 25 | 3042 | 122 | ✓ | ✓ |
| | | 3400 | 3000K | 29 | 3291 | 113 | ✓ | ✓ |
| | | 3400 | 3500K | 29 | 3400 | 117 | ✓ | ✓ |
| | | 3400 | 4000K | 29 | 3432 | 118 | ✓ | ✓ |
| | | 3400 | 5000K | 29 | 3432 | 118 | ✓ | ✓ |
| | | 3800 | 3000K | 33 | 3710 | 112 | ✓ | ✓ |
| | | 3800 | 3500K | 33 | 3833 | 116 | ✓ | ✓ |
| | | 3800 | 4000K | 33 | 3868 | 117 | ✓ | ✓ |
| | | 3800 | 5000K | 33 | 3868 | 117 | ✓ | ✓ |
| | | 4100 | 3000K | 32 | 3965 | 124 | ✓ | ✓ |
| | | 4100 | 3500K | 32 | 4067 | 127 | ✓ | ✓ |
| | | 4100 | 4000K | 32 | 4137 | 129 | ✓ | ✓ |
| | | 4100 | 5000K | 32 | 4224 | 132 | ✓ | ✓ |
| | | 5200 | 3000K | 42 | 5054 | 120 | ✓ | ✓ |
| | | 5200 | 3500K | 42 | 5184 | 123 | ✓ | ✓ |
| | | 5200 | 4000K | 42 | 5272 | 126 | ✓ | ✓ |
| | | 5200 | 5000K | 42 | 5384 | 128 | ✓ | ✓ |
| | | 7100 | 3000K | 55 | 6855 | 125 | ✓ | ✓ |
| | | 7100 | 3500K | 55 | 7022 | 128 | ✓ | ✓ |
| | | 7100 | 4000K | 55 | 7121 | 129 | ✓ | ✓ |
| | | 7100 | 5000K | 55 | 7292 | 133 | ✓ | ✓ |

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

PHOTOMETRICS:

All photometric reports are available at www.mercltq.com.

CROSS SECTIONS:



Detail

