



LR5T SERIES

Architectural Recessed 2X4 LED Volume Luminaire Twin Diffuser Style

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.
- 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%.

DIFFUSERS:

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

STANDBY LIGHTING

BATTERY BACKUP:

- 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.
- 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 2X4 ambient LED luminaire featuring twin linear high transmission acrylic diffusers.
- Each architecturally-squared diffuser envelops the LED light source allowing maximum light transmission while eliminating pixilations and hot spots.
- Twin diffusers spread the light output offering a softer and more visually comfortable illuminated luminaire.
- Delivers a balanced amount of horizontal and vertical illumination to the surrounding environment.
- 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 129.
- American Made.
- Matching surface luminaire: LW5 Series.



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Example: LR5T-24G-3100-35K-1%-UNI-EM7

| SERIES | NOMINAL LENGTH (FT) | NOMINAL LUMENS | COLOR TEMP | DRIVER | VOLTAGE | STANDBY LIGHTING OPTIONS | OPTIONS |
|--------|--|--|---|--|---------|----------------------------|---|
| LR5T | 24G 2X4 Module/ Nema Type G/Lay-In Grid, 1" or 9/16" Fine Line. | 3100 4200 5100 6000 9100 15,000 XXXX Custom Lumen Package. Contact Factory. | 30K 35K 40K 50K Upon Request | 1% 0-10V 1% Dimming As Specified | UNI | EM5 EM7 EM10 EM12 | FLX 6Ft. Single Circuit Power Flex (Specify Voltage) FLX2 6Ft. 2-Circuit Power Flex (Specify Voltage) |

LUMEN PACKAGE

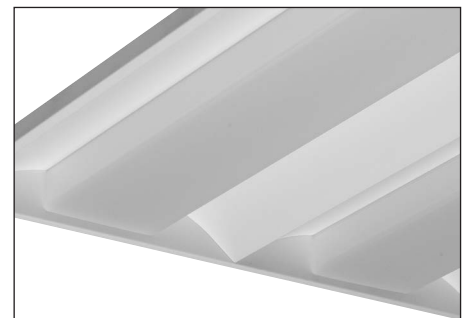
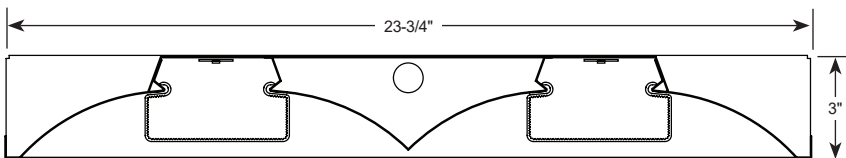
| Series | Module Size | Nominal Lumen Package | Color | Fixture Power (W) | Delivered Lumens | Fixture LPW | IC Rated | Standby Lighting Option |
|--------|-------------|-----------------------|-------|-------------------|------------------|-------------|----------|-------------------------|
| LR5T | 2X4 | | | | | | | |
| | | 3100 | 3000K | 25 | 2979 | 120 | ✓ | ✓ |
| | | 3100 | 3500K | 25 | 3026 | 122 | ✓ | ✓ |
| | | 3100 | 4000K | 25 | 3119 | 125 | ✓ | ✓ |
| | | 3100 | 5000K | 25 | 3213 | 129 | ✓ | ✓ |
| | | 4200 | 3000K | 35 | 4032 | 114 | ✓ | ✓ |
| | | 4200 | 3500K | 35 | 4095 | 116 | ✓ | ✓ |
| | | 4200 | 4000K | 35 | 4222 | 119 | ✓ | ✓ |
| | | 4200 | 5000K | 35 | 4349 | 123 | ✓ | ✓ |
| | | 5100 | 3000K | 45 | 4930 | 109 | ✓ | ✓ |
| | | 5100 | 3500K | 45 | 5008 | 111 | ✓ | ✓ |
| | | 5100 | 4000K | 45 | 5163 | 115 | ✓ | ✓ |
| | | 5100 | 5000K | 45 | 5318 | 118 | ✓ | ✓ |
| | | 6000 | 3000K | 55 | 5794 | 105 | ✓ | ✓ |
| | | 6000 | 3500K | 55 | 5885 | 107 | ✓ | ✓ |
| | | 6000 | 4000K | 55 | 6067 | 110 | ✓ | ✓ |
| | | 6000 | 5000K | 55 | 6249 | 113 | ✓ | ✓ |
| | | 9100 | 3000K | 80 | 8744 | 109 | ✓ | ✓ |
| | | 9100 | 3500K | 80 | 8882 | 111 | ✓ | ✓ |
| | | 9100 | 4000K | 80 | 9156 | 114 | ✓ | ✓ |
| | | 9100 | 5000K | 80 | 9431 | 118 | ✓ | ✓ |
| | | 15,000 | 3000K | 130 | 14,713 | 113 | - | - |
| | | 15,000 | 3500K | 130 | 14,869 | 114 | - | - |
| | | 15,000 | 4000K | 130 | 15,495 | 119 | - | - |
| | | 15,000 | 5000K | 130 | 15,652 | 120 | - | - |

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

PHOTOMETRICS:

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

CROSS SECTION:



Detail

