



# LR31 SERIES

## Recessed Flanged Drywall 1X4 LED Lens 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.
- Integral four-sided overlapping flange.
- Heavy gauge flush steel frame has mitered-look corners. Hinges down or may be completely removed. Two positive action cam latches hold the frame closed.
- A custom formulated non-glare white powder coating is applied to the housing after fabrication providing a reflectivity of at least 90%.

#### DIFFUSERS:

- High performance prismatic pattern in standard thickness or optional .125" thickness.

- Extruded from 100% acrylic clear material (9A).
- Optional: extruded from 100% acrylic frosted material (9AF).
- Optional: extruded with no prismatic pattern from custom formulated high transmission acrylic material (HTA).
- Other options upon request.

#### STANDBY LIGHTING OPTION:

- Self contained module, 5W, 7W, 10W or 12W as specified. Battery backup upon loss of power.

#### INSTALLATIONS:

- Designed for installation into drywall ceilings with an overlapping flange trim design. Press-fit end flanges are removable.
- Swing-out type leveling brackets have vertical adjustability from inside the housing. Tightening down brings the housing up tight against the ceiling.
- Four auxiliary suspension points are also provided for securing to building structure.
- Sufficient knockouts are provided on the back and ends for all electrical connections.
- A quick wiring access plate is located on back of the housing.
- Factory installed power whips as specified.
- Double and triple gasketed options available for dust and moisture control.

#### 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 1X4 ambient LED luminaire.
- Installs in drywall ceilings with a heavy gauge four-sided overlapping flange.
- Hinged door frame encases an acrylic prismatic clear diffuser.
- Diffuses the LED light source in a very wide and efficient distribution delivering 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 122.



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Fixture Type: \_\_\_\_\_

Job Information: \_\_\_\_\_

**ORDERING DATA:** Fill in boxes below with corresponding bold options.

Example: LR31-14F-3300-35K-9A-1%-UNI-EM7

SERIES	MODULE SIZE/CEILING	NOMINAL LUMENS	COLOR TEMP	DIFFUSER	DRIVER	VOLTAGE	STANDBY LIGHTING OPTIONS	OPTIONS
<b>LR31</b>	<b>14F</b> 1X4 Module/ Nema Type F/ Flanged, Recessed, Overlapping Flange Trim	<b>2100</b> <b>3300</b> <b>5100</b> <b>6800</b>  <b>XXXX</b> Custom Lumen Package. Contact Factory.	<b>30K</b> <b>35K</b> <b>40K</b> <b>50K</b> Upon Request	<b>9A</b> Acrylic Prismatic Clear  <b>9A.125</b> Acrylic Prismatic Clear .125"  <b>9AF</b> Acrylic Prismatic Frosted  <b>HTA</b> High Transmission Acrylic No Pattern	<b>1%</b> 0-10V 1% Dimming  As Specified	<b>UNI</b>	<b>EM5</b> <b>EM7</b> <b>EM10</b> <b>EM12</b>	<b>DG</b> Double Gasketing  <b>TG</b> Triple Gasketing

## LUMEN PACKAGE

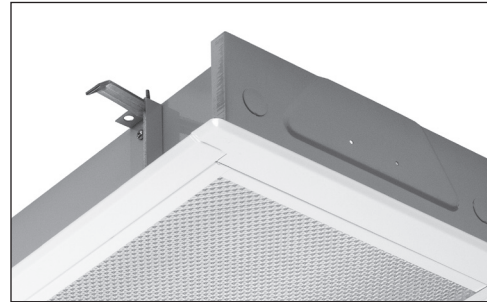
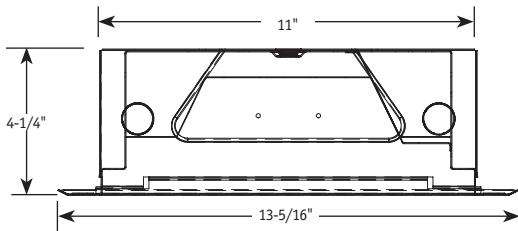
SERIES	MODULE SIZE	Nominal Lumen Package	Color	Fixture Power (W)	Diffuser	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Option
LR31	1X4								
		2100	3000K	19	9A	2057	111	✓	✓
		2100	3500K	19	9A	2089	112	✓	✓
		2100	4000K	19	9A	2154	116	✓	✓
		2100	5000K	19	9A	2219	119	✓	✓
		3300	3000K	29	9A	3235	113	✓	✓
		3300	3500K	29	9A	3286	115	✓	✓
		3300	4000K	29	9A	3387	118	✓	✓
		3300	5000K	29	9A	3489	122	✓	✓
		5100	3000K	47	9A	4877	103	✓	✓
		5100	3500K	47	9A	4954	105	✓	✓
		5100	4000K	47	9A	5107	108	✓	✓
		5100	5000K	47	9A	5260	111	✓	✓
		6800	3000K	64	9A	6568	102	✓	✓
		6800	3500K	64	9A	6671	104	✓	✓
		6800	4000K	64	9A	6878	107	✓	✓
		6800	5000K	64	9A	7084	110	✓	✓

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

## PHOTOMETRICS:

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

## CROSS SECTIONS:



Detail

