



# LR35 SERIES

## Recessed Flanged Drywall 2X4 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).
- 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 2X4 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 133.



# LR35 SERIES

Example: LR35-24F-5100-35K-9A-1%-UNI-EM7

SERIES	NOMINAL LENGTH (FT)	NOMINAL LUMENS	COLOR TEMP	DIFFUSER	DRIVER	VOLTAGE	STANDBY LIGHTING OPTIONS	OPTIONS
LR35	24F 2X4 Module/ Nema Type F/Flanged Recessed, Overlapping Flange Trim	3300 4200 5100 5600 8900 9700  XXXX Custom Lumen Package. Contact Factory.	30K 35K 40K 50K Upon Request	9A Acrylic Prismatic Clear  9A.125 Acrylic Prismatic Clear .125  9AF Acrylic Prismatic Frosted	1% 0-10V 1% Dimming  As Specified	UNI	EM5 EM7 EM10 EM12	DG Double Gasketing  TG Triple Gasketing

## LUMEN PACKAGE

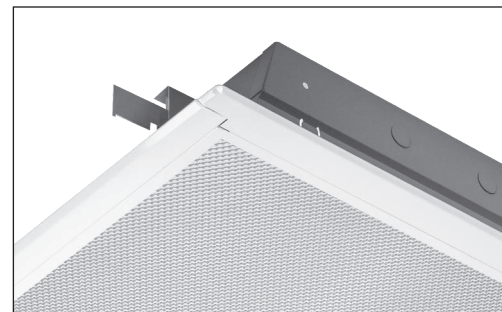
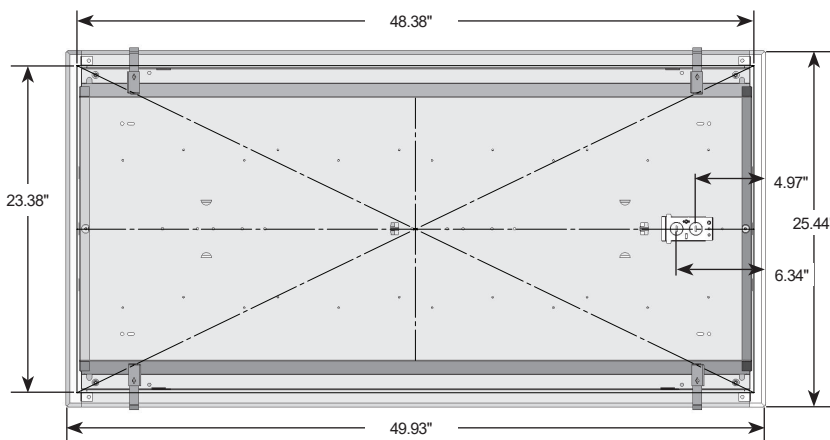
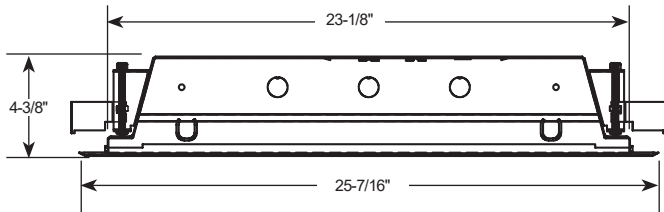
Series	Module Size	Nominal Lumen Package	Color	Fixture Power (W)	Diffuser	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Options
LR35	2X4								
		3300	3000K	28	9A	3215	115	✓	✓
		3300	3500K	28	9A	3265	117	✓	✓
		3300	4000K	28	9A	3366	121	✓	✓
		3300	5000K	28	9A	3467	124	✓	✓
		4200	3000K	37	9A	4058	111	✓	✓
		4200	3500K	37	9A	4122	113	✓	✓
		4200	4000K	37	9A	4249	116	✓	✓
		4200	5000K	37	9A	4377	120	✓	✓
		5100	3000K	46	9A	4872	107	✓	✓
		5100	3500K	46	9A	4949	108	✓	✓
		5100	4000K	46	9A	5102	112	✓	✓
		5100	5000K	46	9A	5255	115	✓	✓
		5600	3000K	45	9A	5642	125	✓	✓
		5600	3500K	45	9A	5648	126	✓	✓
		5600	4000K	42	9A	5604	133	✓	✓
		5600	5000K	42	9A	5604	133	✓	✓
		8900	3000K	80	9A	8546	107	✓	✓
		8900	3500K	80	9A	8680	108	✓	✓
		8900	4000K	80	9A	8948	112	✓	✓
		8900	5000K	80	9A	9217	115	✓	✓
		9700	3000K	89	9A	9340	104	✓	✓
		9700	3500K	89	9A	9487	106	✓	✓
		9700	4000K	89	9A	9780	109	✓	✓
		9700	5000K	89	9A	10,074	113	✓	✓

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

