



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).
- DesignLights Consortium (DLC) qualified product. Not all versions of this product may be DLC qualified. Check at www.designlights.org/QPL to confirm.

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 envelopes 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.



LR5T SERIES

Fixture Type: _____

Job Information: _____

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

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

SERIES	MODULE SIZE/CEILING	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 14000 20000 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

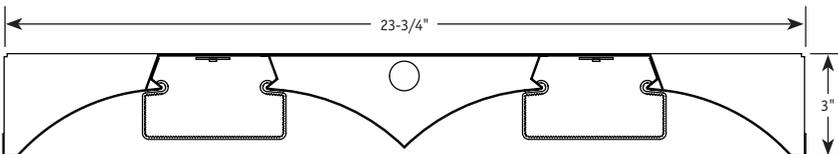
SERIES	MODULE SIZE	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Option	DLC
LR5T	2X4								
		3100	3000K	25	2979	120	✓	✓	✓
		3100	3500K	25	3026	122	✓	✓	✓
		3100	4000K	25	3119	125	✓	✓	✓
		3100	5000K	25	3213	129	✓	✓	✓
		4200	3000K	35	4032	114	✓	✓	✓
		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	✓	✓	✓
		14,000	3000K	129	13,442	104	-	-	-
		14,000	3500K	129	13,653	106	-	-	-
		14,000	4000K	129	14,075	109	-	-	-
		14,000	5000K	129	14,497	112	-	-	-
		20,000	3000K	180	19,110	106	-	-	-
		20,000	3500K	180	19,431	108	-	-	-
		20,000	4000K	180	20,074	112	-	-	-
		20,000	5000K	180	20,676	115	-	-	-

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

