

# LLR2T SERIES

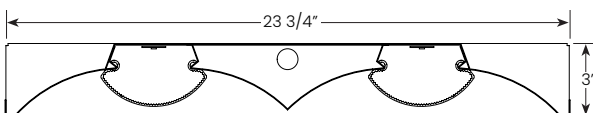
ARCHITECTURAL RECESSED  
2X4 LED VOLUME LUMINAIRE TWIN DIFFUSER STYLE



## FEATURES

- Ultra-shallow recessed 2X4 ambient LED luminaire featuring twin linear high transmission acrylic diffusers.
- Each architecturally-curved 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: LW2 Series.

## CROSS SECTIONS



Fixture type:	Job information:
<input type="text"/>	<input type="text"/>

## LUMEN PACKAGE

### MODULE SIZE 2x4

Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Option
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 120-277V +/- 10%



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## PRODUCT DEFINITION SHEET

Ex: LR2T-24G-3100-35K-1-U-EM10-FLX



1	2	3	4	5
SERIES	NOMINAL LENGTH (FT)	NOMINAL LUMENS	COLOR TEMP-CCT	DRIVER
<input type="checkbox"/> LR2T	<input type="checkbox"/> 24G 2X4 Module/Nema Type G/Lay-In Grid, 1" or 9/16" Fine Line.	<input type="checkbox"/> 3100 <input type="checkbox"/> 4200 <input type="checkbox"/> 5100 <input type="checkbox"/> 6000 <input type="checkbox"/> 9100 <input type="checkbox"/> 15,000  Custom Lumen Package Contact Factory	<input type="checkbox"/> 30K 3000K <input type="checkbox"/> 35K 3500K <input type="checkbox"/> 40K 4000K <input type="checkbox"/> 50K 5000K Upon Request	<input type="checkbox"/> 1 0-10V 1% Dimming  <input type="checkbox"/> - As specified

6	7	8
VOLTAGE	STANDBY MODULES	OPTIONS
<input type="checkbox"/> U Uni 120-277V	<input type="checkbox"/> EM10 Emergency Battery Pack 10W <input type="checkbox"/> EM12 Emergency Battery Pack 12W <input type="checkbox"/> NO OPTION	<input type="checkbox"/> FLX 6Ft. Single Circuit Power Flex (Specify Voltage)  <input type="checkbox"/> FLX2 6Ft. 2-Circuit Power Flex (Specify Voltage)

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### 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 computercontrolled operation from heavy gauge code grade cold rolled steel.
- Rivets and/or spot welds hold all parts 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-curved profile design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing for high LED performance.

### STANDBY LIGHTING BATTERY BACKUP:

- Self contained module, 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](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 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.

### PHOTOMETRICS

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