



# LR5 SERIES

## Architectural Recessed 2X2 LED Volume 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.

#### HOUSINGS:

- 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%.

#### DIFFUSER:

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

#### STANDBY LIGHTING OPTION:

- 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](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 2X2 ambient LED luminaire featuring a single linear high transmission acrylic diffuser.
- Architecturally-squared shape diffuser envelops the LED light source allowing maximum light transmission while eliminating pixilations and hot spots.
- Delivers 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 119.
- American Made.
- Matching surface luminaire: LW5 Series.



# LR5 SERIES

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

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

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

Example: LR5-22G-3400-35K-1%-UNI-EM7

SERIES	MODULE SIZE/CEILING	NOMINAL LUMENS	COLOR TEMP	DRIVER	VOLTAGE	STANDBY LIGHTING OPTIONS	OPTIONS
LR5	22G 2X2 Module/ Nema Type G/Lay-In Grid, 1" or 9/16" Fine Line.	2300 2600 3000 3400 3800 4300 4700  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

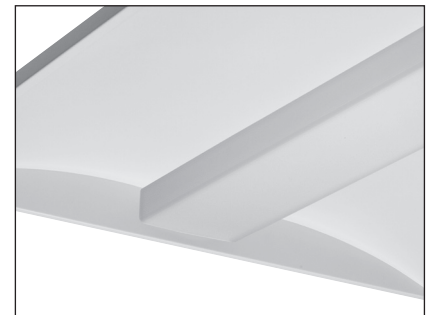
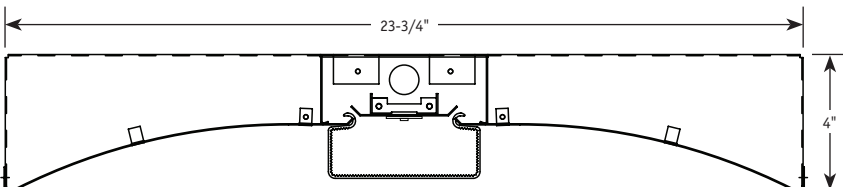
SERIES	MODULE SIZE	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Option
LR5	2X2							
		2300	3000K	20	2201	110	✓	✓
		2300	3500K	20	2236	112	✓	✓
		2300	4000K	20	2305	116	✓	✓
		2300	5000K	20	2374	119	✓	✓
		2600	3000K	23	2488	107	✓	✓
		2600	3500K	23	2527	109	✓	✓
		2600	4000K	23	2605	112	✓	✓
		2600	5000K	23	2683	116	✓	✓
		3000	3000K	26	2892	110	✓	✓
		3000	3500K	26	2937	112	✓	✓
		3000	4000K	26	3028	115	✓	✓
		3000	5000K	26	3119	119	✓	✓
		3400	3000K	31	3286	106	✓	✓
		3400	3500K	31	3338	108	✓	✓
		3400	4000K	31	3441	111	✓	✓
		3400	5000K	31	3544	115	✓	✓
		3800	3000K	35	3664	103	✓	✓
		3800	3500K	35	3721	105	✓	✓
		3800	4000K	35	3836	108	✓	✓
		3800	5000K	35	3951	111	✓	✓
		4300	3000K	40	4166	104	-	✓
		4300	3500K	40	4232	106	-	✓
		4300	4000K	40	4363	109	-	✓
		4300	5000K	40	4494	112	-	✓
		4700	3000K	45	4521	100	-	✓
		4700	3500K	45	4592	102	-	✓
		4700	4000K	45	4734	105	-	✓
		4700	5000K	45	4876	108	-	✓

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

