

# **LR105 SERIES**

Architectural Recessed 2X4 LED Volume Luminaire Ultra-Shallow Design

Fixture 1	уре:
-----------	------

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 computercontrolled 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 profile design.
- Extruded from custom formulated high transmission acrylic material.
- · Linear ribbing for high LED performance.

#### STANDBY LIGHTING OPTION:

- Self contained module, 10W only (BA-C40EM10). 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.
- Optional: Suitable for wet locations marking is available. Contact factory for all details.
- 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.mercltq.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 a single linear high transmission acrylic diffuser.
- Architecturally-squared diffuser envelopes 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 141.
- American Made.
- · Matching surface luminaire: LW5 Series.





## Example: LR105-24G-5700-35K-1%-UNI-BAC40EM10

#### LR105 -24G UNI STANDBY LIGHTING OPTIONS\* MODULE SIZE/ NOMINAL COLOR TEMP SERIES DRIVER OPTIONS VOLTAGE CEILING LUMENS LR105 24G 30K 1% BAC40EM10 2600 UNI **FLX** 2X4 Module/Nema Type G/Lay-In Grid,1" or 9/16" Fine Line. 6Ft. Single Circuit Power Flex (Specify Voltage) 0-10V 1% Dimming (10W) 3200 35K 3700 40K As Specified 4000 50K FLX2 Upon Request 6Ft. 2-Circuit Power Flex (Specify Voltage) 4600 5000 5700 WL UL "Suitable for Wet Locations" labeled. 7800 10,400 14,200 XXXX Custom

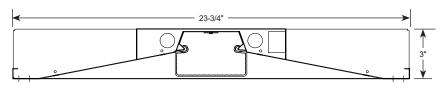
\* All modules to be field mounted, factory wired with armored cable. Contact factory for more details.

Lumen Package. Contact Factory.

## **PHOTOMETRICS:**

All photometric reports are available at www.mercltg.com.

### **CROSS SECTIONS:**





Series	Module Size	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Option
LR105	2X4							
		2600	3000K	19	2518	133	~	~
		2600	3500K	19	2601	137	~	~
		2600	4000K	19	2625	138	~	~
		2600	5000K	19	2625	138	~	~
		3200	3000K	23	3104	135	~	~
		3200	3500K	23	3207	139	~	~
		3200	4000K	23	3237	141	~	~
		3200	5000K	23	3237	141	~	~
		3700	3000K	27	3565	132	~	~
		3700	3500K	27	3684	136	~	~
		3700	4000K	27	3717	138	~	~
		3700	5000K	27	3717	138	~	~
		4000	3000K	29	3850	133	~	~
		4000	3500K	29	3978	137	~	~
		4000	4000K	29	4015	138	~	~
		4000	5000K	29	4015	138	~	~
		4600	3000K	35	4469	128	~	~
		4600	3500K	35	4616	132	~	~
		4600	4000K	35	4659	133	~	~
		4600	5000K	35	4659	133	~	~
		5000	3000K	38	4857	128	~	~
		5000	3500K	38	5018	132	~	~
		5000	4000K	38	5064	133	~	~
		5000	5000K	38	5064	133	~	~
		5700	3000K	44	5512	125	~	~
		5700	3500K	44	5695	129	~	~
		5700	4000K	44	5747	131	~	~
		5700	5000K	44	5747	131	~	~
		7800	3000K	58	7546	130	~	~
		7800	3500K	58	7740	133	~	~
		7800	4000K	58	7872	136	~	~
		7800	5000K	58	7872	136	~	~
		10,400	3000K	84	10,108	120	-	-
		10,400	3500K	84	10,368	123	-	-
		10,400	4000K	84	10,544	126	-	_
		10,400	5000K	84	10,768	128	-	_
		14,200	3000K	110	13,710	125	-	-
		14,200	3500K	110	14,044	128	-	-
		14,200	4000K	110	14,242	129	-	-
		14,200	5000K	110	14,584	133	-	_



Detail

