



LR405 SERIES

Architectural Recessed 1x4 LED Volume Luminaire Chicago Plenum Ultra-Shallow Design

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.
- Housing designed to meet all Chicago plenum requirements.
- 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, 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 single 7/8" hole for power connection is in accordance with Chicago Plenum requirements.
- 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).
- Meets the City of Chicago Environmental Air (CCEA) specifications.

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 1X4 ambient LED luminaire featuring a single linear high transmission acrylic diffuser.
- Meets the requirements for Chicago Plenum use.
- Architecturally-squared diffuser envelopes the LED light source allowing maximum light transmission while eliminating pixelations 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 129.
- American Made.



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

Example: LR405-14G-5700-35K-1%-UNI-EM7

SERIES	MODULE SIZE/CEILING	NOMINAL LUMENS	COLOR TEMP	DRIVER	VOLTAGE	STANDBY LIGHTING OPTIONS	OPTIONS
LR405	14G 1X4 Module/ Nema Type G/Lay-In Grid, 1" or 9/16" Fine Line.	2600 3200 3700 4200 4600 5700 7800 11100 XXXX Custom Lumen Package. Contact Factory.	30K 35K 40K 50K Upon Request	1% 0-10V, 1% Dimming _____ As Specified	UNI	EM7 EM10 EM12	FLX 6Ft. Single Circuit Power Flex (Specify Voltage) FLX2 6Ft. 2-Circuit Power Flex (Specify Voltage) WL UL "Suitable for Wet Locations" labeled.

LUMEN PACKAGE

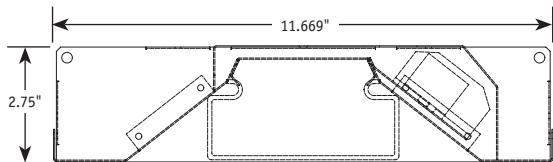
SERIES	MODULE SIZE	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	IC Rated	Standby Lighting Option
LR405	1X4							
		2600	3000K	24	2400	102	✓	✓
		2600	3500K	24	2493	106	✓	✓
		2600	4000K	24	2626	111	✓	✓
		2600	5000K	24	2626	111	✓	✓
		3200	3000K	25	3110	122	✓	✓
		3200	3500K	25	3110	122	✓	✓
		3200	4000K	25	3225	127	✓	✓
		3200	5000K	25	3285	129	✓	✓
		3700	3000K	30	3530	119	✓	✓
		3700	3500K	30	3530	119	✓	✓
		3700	4000K	30	3660	123	✓	✓
		3700	5000K	30	3730	126	✓	✓
		4200	3000K	35	4032	115	✓	✓
		4200	3500K	35	4032	115	✓	✓
		4200	4000K	35	4185	119	✓	✓
		4200	5000K	35	4260	121	✓	✓
		4600	3000K	39	4464	112	✓	✓
		4600	3500K	39	4464	112	✓	✓
		4600	4000K	39	4630	117	✓	✓
		4600	5000K	39	4715	119	✓	✓
		5700	3000K	51	5485	107	✓	✓
		5700	3500K	51	5600	110	✓	✓
		5700	4000K	51	5743	112	✓	✓
		5700	5000K	51	5770	113	✓	✓
		7800	3000K	75	7523	100	✓	✓
		7800	3500K	75	7680	101	✓	✓
		7800	4000K	75	7877	104	✓	✓
		7800	5000K	75	7917	105	✓	✓
		11,100	3000K	102	10630	104	-	-
		11,100	3500K	102	10962	107	-	-
		11,100	4000K	102	11184	109	-	-
		11,100	5000K	102	11294	110	-	-

Actual wattage may differ by +/- 5% when operating between 120V-277V +/- 10%.

PHOTOMETRICS:

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

CROSS SECTIONS:



Detail

