



# L450 SERIES

## Lumasence Bi-Level LED Lighting System

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:

- Fabricated from 20GA cold rolled steel with all internal steel parts riveted or screwed together. End caps are 16GA with a 5/8" drawn perimeter flange to securely overlap diffusers.
- White powder coating finish for long lasting durability.
- Sufficient electrical knockouts are provided on the housing back.

#### DIFFUSERS:

- Two individual diffusers per each luminaire.
- Extruded from high transmission impact-resistant 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. Available 4Ft. modules only.

#### OCCUPANCY SENSOR:

- Watt Stopper FS-505 or equal, 40kHz ultrasonic sensor.
- Powered by a 24V internal power pack.
- Field adjustable time delay; 5, 10, 15 or 30 minutes. Field adjustable sensitivity.
- Standby mode settings; 10%, 15%, or 20%. Others on request.

#### INSTALLATIONS:

- Surface mounts individually, ceiling or wall orientation.
- Maximum mounting height off floor is 8ft for proper sensor operation. Obstructions such as exit signs can possibly impede proper sensor operation.
- Knockouts and four 1/4" mounting holes for secure anchoring.
- On request end knockouts for surface conduit entry.

#### CERTIFICATE OF SAFETY COMPLIANCE AND LISTINGS:

- Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.

#### WARRANTY:

- 2-year limited warranty. 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.

### FEATURES:

- Motion sensing bi-level stairwell and passageway LED lighting system.
- OSS/Advanced Occupancy Sensing System.
- Integrated into a vandal-resistant luminaire.
- Design complies with all ADA requirements for public areas.
- Digital LED technology provides high efficacy and energy efficiency.
- Two sizes are available each offering their own combinations of occupancy lumen packages as well as stand-by lumen packages.
- 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 107.
- American Made.

### APPLICATIONS:

- Stairwells and similar low traffic public areas require lighting at all times for safety and security. In reality, occupancy in these areas can be near zero.
- OSS technology provides a very low stand-by level of illumination. Extremely sensitive ultrasonic sensor detects even the slightest movement and turns luminaire to full brightness. After occupancy is no longer detected luminaire will return to stand-by level.
- Optional standby lighting battery backup modules further fills the requirements for emergency egress from buildings.



# L450 SERIES


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

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

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

Example: L450-4-2100-35K-HTA20-1%-20-UNI-EM7

SERIES	NOMINAL LENGTH (FT)	NOMINAL LUMENS	COLOR TEMP	DIFFUSER	DRIVER	STAND BY POWER	VOLTAGE	OPTIONS
<b>L450</b>	<b>2</b> 24" Length <b>4</b> 45" Length	<b>24"L</b> <b>2100</b> <b>3000</b> <b>4400</b> Available 30K Only. <b>4600</b> Available 35K, 40K, 50K Only. <b>45"L</b> <b>3800</b> <b>4800</b> Available 30K Only. <b>5100</b> Available 35K, 40K, 50K Only.	<b>30K</b> <b>35K</b> <b>40K</b> <b>50K</b> Upon Request	<b>HTA20</b> High Transmission Impact-Resistant Acrylic	<b>1%</b> 0-10V 1% Dimming As Specified	<b>10</b> <b>15</b> <b>20</b>	<b>UNI</b>	<b>EM5</b> <b>EM7</b> <b>EM10</b> <b>EM12</b> Available 4ft. Modules Only



2Ft. Unit

**XXXX**  
Custom Lumen Package. Contact Factory.

## LUMEN PACKAGE

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW
L450	2					
		2100	3000K	21	1978	94
		2100	3500K	21	2077	98
		2100	4000K	21	2131	101
		2100	5000K	21	2222	105
		3000	3000K	32	2811	88
		3000	3500K	32	2952	92
		3000	4000K	32	3027	95
		3000	5000K	32	3157	99
		4400	3000K	56	4355	78
		4600	3500K	56	4573	82
		4600	4000K	56	4690	84
		4600	5000K	56	4891	88

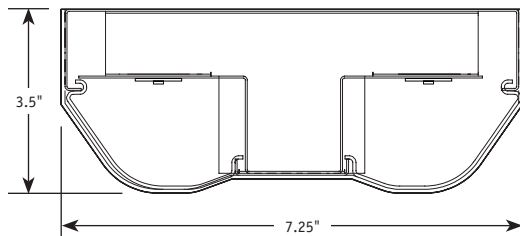
SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW
L450	4					
		3800	3000K	38	3607	95
		3800	3500K	38	3787	100
		3800	4000K	38	3885	102
		3800	5000K	38	4051	107
		4800	3000K	53	4806	91
		5100	3500K	53	5047	95
		5100	4000K	53	5176	98
		5100	5000K	53	5398	102

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

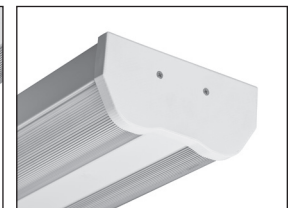
## PHOTOMETRICS:

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

## CROSS SECTION:



Sensor



Detail



Stairwell Location

