



L455 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.
- Universal voltage input, 120V-277V, 50HZ-60HZ.

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 18GA. housing ends welded into place.
- White polyester powder coating finish for long lasting durability.
- Sufficient electrical knockouts are provided on the housing back and ends.

DIFFUSER:

- Larger-scale rounded profile design.
- Extruded from custom formulated high transmission impact-resistant 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. Available 4Ft. modules only.

OCCUPANCY SENSOR (DEFAULT):

- 40kHz ultrasonic sensor.
- Field adjustable time delay; 1, 5 or 20 minutes. (Default is 20 minutes).
- Field adjustable sensitivity.
- Factory set standby mode power level settings; 10, 20 or 50%. (Default is 20%).
- Other settings available. Consult factory.

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.
- 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.
- DesignLights Consortium (DLC) qualified product. Not all versions of this product may be DLC qualified. Check at www.designlights.org/QPL to confirm.

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. Consult factory.
- LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.

FEATURES:

- Motion sensing bi-level stairwell and passageway LED lighting system.
- OSS/Advanced Occupancy Sensing System.
- Larger-scale rounded profile impact-resistant acrylic diffuser suitable for public spaces.
- Design complies with all ADA requirements.
- 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 137.
- 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 motion 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.



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

Example: L455-4-3800-35K-HTA20-1%-20-UNI-EM7

SERIES	NOMINAL LENGTH (FT)	NOMINAL LUMENS	COLOR TEMP	DIFFUSER	DRIVER	STANDBY POWER %	VOLTAGE	OPTIONS
L455	2 24" Length 4 45" Length	24"L 2100 2300 2500 2700 45"L 2100 3800 4500 5000 7800 9600 XXXX Custom Lumen Package. Contact Factory.	30K 35K 40K 50K Upon Request	HTA20 High Transmission Impact-Resistant Acrylic	1% 0-10V 1% Dimming As Specified	10 20 50 * Other settings available. Consult factory.	UNI	Standby Modules EM7 EM10 EM12 Available 4ft. Modules Only

LUMEN PACKAGE

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC
L455	2						
		2100	3000K	17	2072	122	✓
		2100	3500K	17	2094	123	✓
		2100	4000K	17	2182	128	✓
		2100	5000K	17	2204	130	✓
		2300	3000K	19	2225	117	✓
		2300	3500K	19	2249	118	✓
		2300	4000K	19	2344	123	✓
		2300	5000K	19	2367	125	✓
		2500	3000K	21	2402	114	✓
		2500	3500K	21	2428	116	✓
		2500	4000K	21	2530	120	✓
		2500	5000K	21	2555	122	✓
		2700	3000K	23	2601	113	-
		2700	3500K	23	2629	114	✓
		2700	4000K	23	2739	119	✓
		2700	5000K	23	2767	120	✓

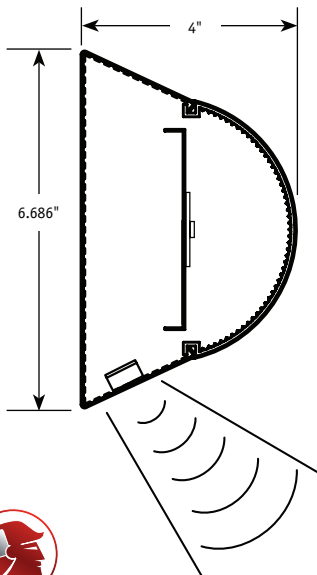
SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC
L455	4						
		2100	3000K	16	2060	129	✓
		2100	3500K	16	2082	130	✓
		2100	4000K	16	2170	136	✓
		2100	5000K	16	2192	137	✓
		3800	3000K	30	3625	121	✓
		3800	3500K	30	3663	122	✓
		3800	4000K	30	3817	127	✓
		3800	5000K	30	3856	129	✓
		4500	3000K	36	4298	119	✓
		4500	3500K	36	4344	121	✓
		4500	4000K	36	4527	126	✓
		4500	5000K	36	4572	127	✓
		5000	3000K	41	4804	117	-
		5000	3500K	41	4855	118	✓
		5000	4000K	41	5060	123	✓
		5000	5000K	41	5111	125	✓
		7800	3000K	67	7606	114	-
		7800	3500K	67	7637	114	-
		7800	4000K	67	7857	117	-
		7800	5000K	67	7935	118	-
		9600	3000K	86	9360	109	-
		9600	3500K	86	9399	109	-
		9600	4000K	86	9669	112	-
		9600	5000K	86	9766	114	-

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

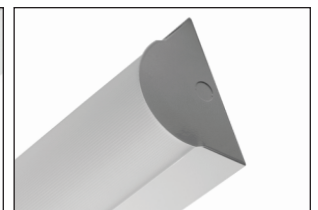
PHOTOMETRICS:

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

CROSS SECTIONS:



Sensor



Detail

