

# LW3 SERIES

## Architectural Linear Ambient LED 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.

#### HOUSING:

- Fabricated from heavy gauge code grade cold rolled steel with a white polyester powder coating finish for long lasting durability.
- Housing ends are welded into place.
- Sufficient electrical knockouts are provided on the housing back and ends.

#### REFLECTOR OPTIONS:

- Side reflectors are factory installed or can be field installed to the housing.
- May be used individually for one-side asymmetric function or in pairs for dual-side symmetric function.
- Aperture option; a series of architectural apertures allows a segment of up lighting.

#### DIFFUSER:

- Flat profile snap-in style design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing for high LED performance.
- Optional white acrylic diffuser. Contact factory for full details.

#### STANDBY LIGHTING OPTION:

- Self contained module, 5W, 7W, 10W or 12W as specified. Battery backup upon loss of power. Available 4Ft. and 8Ft. modules only.

#### OPTIONAL INTEGRAL LIGHTING CONTROLS:

- Self-contained motion sensors mount directly to luminaire.
- Passive infrared (PIR) technology for individual luminaire control.
- On/Off control with optional delay features.
- See ordering matrix for available sensors.
- System lighting controls available. Contact factory.

#### INSTALLATIONS:

- May be installed in any direction, individually or in continuous run applications.
- May be surface mounted or suspended.
- 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](http://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](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 square profile linear ambient LED luminaire.
- Flat snap-in style acrylic diffuser closes off the bottom of the housing and the LED light source.
- Compact design complies with all ADA requirements for public areas.
- Custom formulated high diffusion acrylic material allows for maximum light transmission while eliminating pixilation and hot spots.
- Optional integral side reflectors add both function and architectural contour.
- Nominal 2Ft., 4Ft. or 8Ft. long modules.
- 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 121.
- American Made.



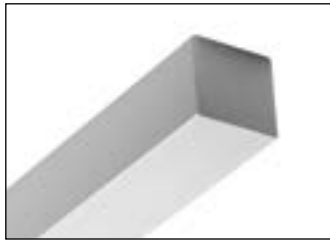
## LW3 SERIES

Fixture Type:

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

Example: LW3-4-3800-35K-HTA-1%-UNI-EM7

SERIES	NOMINAL LENGTH (FT)	NOMINAL LUMENS	COLOR TEMP	DIFFUSER	DRIVER	VOLTAGE	OPTIONS
LW3	2 24" Length	24"L 2100	30K	HTA High Transmission Acrylic	1% 0-10V 1% Dimming	UNI	Side Reflectors
	4 45" Length	2300	35K	AW Acrylic White	As Specified		SR Symmetric Function Set of 2 Side Reflectors
	8 96" Length	2500	40K				AR Asymmetric Function 1 Side Reflector
		45"L 2100	50K Upon Request				SRA Symmetric Function Aperture Reflectors
		3800					Standby Modules
		4500					EM5
		5500					EM7
		96"L 6000					EM10
		8000					EM12
		9500					Available 4ft. and 8ft. Modules Only
		XXXX Custom Lumen Package. Contact Factory.					Optional Integral Lighting Controls

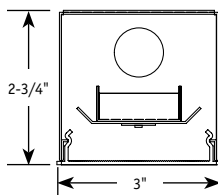


Detail

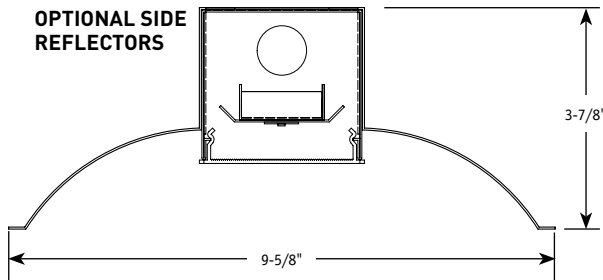
### PHOTOMETRICS:

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

### CROSS SECTIONS:



OPTIONAL SIDE REFLECTORS



### LUMEN PACKAGE

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC
LW3	2						
		2100	3000K	20	2057	101	-
		2100	3500K	20	2090	103	-
		2100	4000K	20	2154	106	-
		2100	5000K	20	2219	109	-
		2300	3000K	22	2222	100	-
		2300	3500K	22	2257	101	-
		2300	4000K	22	2327	104	-
		2300	5000K	22	2397	107	-
		2500	3000K	25	2431	97	-
		2500	3500K	25	2469	95	-
		2500	4000K	25	2546	102	-
		2500	5000K	25	2622	105	-

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC
LW3	4						
		2100	3000K	20	2075	104	-
		2100	3500K	20	2108	106	-
		2100	4000K	20	2173	109	-
		2100	5000K	20	2238	112	✓
		3800	3000K	35	3632	104	-
		3800	3500K	35	3689	106	-
		3800	4000K	35	3803	109	-
		3800	5000K	35	3917	112	-
		4500	3000K	43	4307	100	-
		4500	3500K	43	4374	102	-
		4500	4000K	43	4510	105	-
		4500	5000K	43	4645	108	-
		5500	3000K	50	5257	105	-
		5500	3500K	50	5312	106	-
		5500	4000K	50	5536	111	-
		5500	5000K	50	5592	112	-

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC
LW3	8						
		6000	3000K	53	5764	109	-
		6000	3500K	53	5854	110	-
		6000	4000K	53	6035	114	-
		6000	5000K	53	6216	117	✓
		8000	3000K	74	7667	103	-
		8000	3500K	74	7788	105	-
		8000	4000K	74	8029	108	-
		8000	5000K	74	8270	111	✓
		9500	3000K	80	9085	114	-
		9500	3500K	80	9380	117	-
		9500	4000K	80	9567	120	-
		9500	5000K	80	9680	121	-

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

### HANGING ACCESSORIES

PART #	DESCRIPTION	PART #	DESCRIPTION
R5PF-100	Round 5" power feed canopy, Hanging hardware, 100" long 1/16" cable.	VH-XX	"V" Hanger w/XX= 48"L or 72"L Chain & "S" Hook
R5-100	Round 5" canopy, Hanging hardware, 100" long 1/16" cable.	CPYS-1	S-1 Single Stem 5" Dia. Canopy
R2-100	Round 2" canopy, Hanging hardware, 100" long 1/16" cable.	STMXX	XX= 12"L, 24"L, 48"L Stem/ 3/8" IPS-5/8" OD
S5PF-100	Square 5" power feed canopy, Hanging hardware, 100" long 1/16" cable.	Other cable lengths available.	
S5-100	Square 5" canopy, Hanging hardware, 100" long 1/16" cable.		
S2-100	Square 5" power feed canopy, Hanging hardware, 100" long 1/16" cable.		