

# LW4 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:

- Small-scale rounded profile design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing for high LED performance.

#### 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 (PIF) 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 form linear ambient LED luminaire.
- Small-scale rounded profile acrylic diffuser evenly surrounds the LED light source enabling a very wide and near-perfect light distribution.
- 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 130.
- American Made.



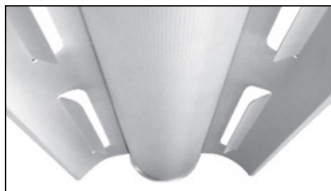
## LW4 SERIES

Fixture Type:

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

Example: LW4-4-3800-35K-HTA-1%-UNI-EM7

SERIES	NOMINAL LENGTH (FT)	NOMINAL LUMENS	COLOR TEMP	DIFFUSER	DRIVER	VOLTAGE	OPTIONS
LW4	2 24" Length	24"L	30K	HTA High Transmission Acrylic	1% 0-10V 1% Dimming As Specified	UNI	<b>Side Reflectors</b> <b>SR</b> Symmetric Function Set of 2 Side Reflectors <b>AR</b> Asymmetric Function 1 Side Reflector <b>SRA</b> Symmetric Function Aperture Reflectors <b>Standby Modules</b> <b>EM5</b> <b>EM7</b> <b>EM10</b> <b>EM12</b> Available 4ft. and 8ft. Modules Only <b>Optional Integral Lighting Controls</b> <b>01</b> Leviton OSFHU mounts externally, for higher ceilings. <b>04</b> Wattstopper FS-155-1 mounts internally with only the PIF dome visible. <b>05</b> Leviton OSFHU mounts internally with only the PIF dome visible.
		2100	35K				
		2300	40K				
	4 45" Length	2500	50K Upon Request				
		2700					
		45"L					
	8 96" Length	2100					
		3800					
		4500					
		5000					
	5900						
	96"L						
	8000						
	10200						
	XXXX	Custom Lumen Package. Contact Factory.					

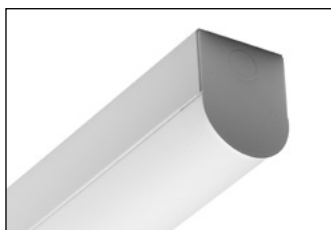
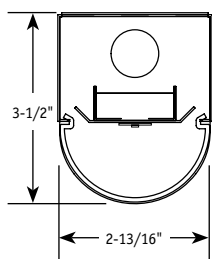


Aperture Reflectors

### PHOTOMETRICS:

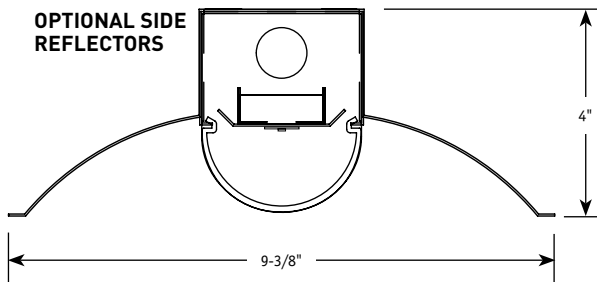
All photometric reports are available at [www.merclt.com](http://www.merclt.com).

### CROSS SECTIONS:



Detail

### OPTIONAL SIDE REFLECTORS



### LUMEN PACKAGE

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC	SR OPTION DLC
LW4	2							
		2100	3000K	18	2035	111	✓	✓
		2100	3500K	18	2067	113	✓	✓
		2100	4000K	18	2131	116	✓	✓
		2100	5000K	18	2195	120	✓	✓
		2300	3000K	21	2265	108	✓	✓
		2300	3500K	21	2301	110	✓	✓
		2300	4000K	21	2372	113	✓	✓
		2300	5000K	21	2443	117	✓	✓
		2500	3000K	22	2392	107	✓	✓
		2500	3500K	22	2429	108	✓	✓
		2500	4000K	22	2504	112	✓	✓
		2500	5000K	22	2580	115	✓	✓
		2700	3000K	25	2586	105	✓	✓
		2700	3500K	25	2627	106	✓	✓
		2700	4000K	25	2708	110	✓	✓
		2700	5000K	25	2789	113	✓	✓

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC	SR OPTION DLC
LW4	4							
		2100	3000K	18	2025	114	✓	✓
		2100	3500K	18	2056	116	✓	✓
		2100	4000K	18	2120	119	✓	✓
		2100	5000K	18	2184	123	✓	✓
		3800	3000K	32	3649	113	✓	✓
		3800	3500K	32	3706	115	✓	✓
		3800	4000K	32	3821	119	✓	✓
		3800	5000K	32	3935	122	✓	✓
		4500	3000K	39	4314	109	✓	✓
		4500	3500K	39	4382	111	✓	✓
		4500	4000K	39	4517	115	✓	✓
		4500	5000K	39	4653	118	✓	✓
		5000	3000K	45	4821	107	✓	✓
		5000	3500K	45	4897	108	✓	✓
		5000	4000K	45	5048	112	✓	✓
		5000	5000K	45	5200	115	✓	✓
		5900	3000K	50	5641	113	-	-
		5900	3500K	50	5701	114	-	-
		5900	4000K	50	5941	119	-	-
		5900	5000K	50	6001	120	-	-

SERIES	NOMINAL LENGTH (FT)	Nominal Lumen Package	Color	Fixture Power (W)	Delivered Lumens	Fixture LPW	DLC	SR OPTION DLC
LW4	8							
		8000	3000K	69	7701	112	✓	✓
		8000	3500K	69	7822	114	✓	✓
		8000	4000K	69	8064	117	✓	✓
		8000	5000K	69	8306	121	✓	✓
		10200	3000K	80	9750	122	-	-
		10200	3500K	80	10067	126	-	-
		10200	4000K	80	10267	128	-	-
		10200	5000K	80	10388	130	-	-

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.		