

# ESSENTIALS

## LRW SERIES

## THREE-PLANE OPTICAL DIFFUSER SYSTEM ARCHITECTURAL RECESSED LED LUMINAIRE

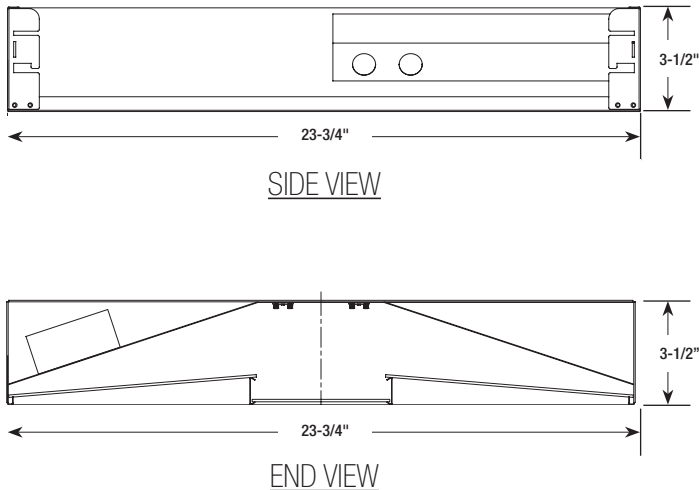
### Architectural Recessed LED Luminaire | ESSENTIALS



### Features:

- Performance-designed shallow recessed ambient LED luminaire.
- Engineered single-piece three-plane optical diffuser system.
- Center diffuser section is illuminated by the LED light source while gently sloping illuminated side panels add depth and character.
- Fully illuminated module offers 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.
- CRI greater than 80.
- Delivers up to 129 lumens per watt.
- Color temps: 3000K, 3500K or 4000K.
- Dimming down to 1% on 0-10V controls.
- Available module sizes: 2X2, 2X4 and 1X4.

### Cross Section



### Lumen Package

Based on 3500K, 80 CRI

Series	Module Size	Nominal Lumens	Watts	Fixture LPW	Multiplier for other Color Temp (K)	
LRW	1X4	4000	31	129	3000K	97%
		5200	41	127	3500K	100%
		6500	53	123	4000K	102%
		8400	69	122		
	2X2	3500	28	125		
		4000	33	121		
		5200	45	116		
	2X4	4000	31	129		
		5200	41	127		
		6500	53	123		
		8400	69	122		

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).



fixture type:

job information:

# LRW Series | ESSENTIALS

Architectural Recessed LED Luminaire | Three-Plane Optical Diffuser System

Ex: LRW-22G-4000-35K-1%-UNI-EM7

LRW				UNI			Options	
Series	Module Size/Ceiling	Nominal Lumens	Color Temp	Driver	Voltage	Standby Lighting	Misc.	
LRW	14G 1X4 Module	4000	80 CRI 30K 35K 40K	1% 0-10V 1% Dimming  As Specified	UNI	EM7 EM10 EM12 Contact Factory  No Option	FLX 6Ft. Single Circuit Power Flex (Specify Voltage)  FLX2 6Ft. 2-Circuit Power Flex (Specify Voltage)	
		5200						
		6500						
	22G 2X2 Module	3500	90 CRI 927K 930K 935K 940K					
		4000						
		5200						
	24G 2X4 Module	4000	90 CRI 927K 930K 935K 940K					
		5200						
		6500						
	Nema Type G/ Lay-In Grid, 1" or 9/16" Fine Line.		8400					
Custom Lumen Package. Contact Factory								



## 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.

## LED Drivers

Factory programmable constant current LED power supply.

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

Specification grade dimming down to 1% on 0-10V dimming controls.

## Housing

All metal parts are fabricated in a computer-controlled operation from heavy gauge code grade cold rolled steel.

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

Single-piece frosted polycarbonate diffuser.

Decorative rails highlight the transition from center to sloping sections.

## Standby Lighting Option

Self-contained module, 7W, 10W or 12W as specified. Battery backup upon loss of power. Contact factory for all details.

## 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 quick wiring access plate is located on back of the housing. Additional knockouts provided.

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.

IC Rated

## Warranty

5-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.

