

ESSENTIALS

LRW-G SERIES

THREE-PLANE OPTICAL DIFFUSER SYSTEM ARCHITECTURAL RECESSED LED LUMINAIRE

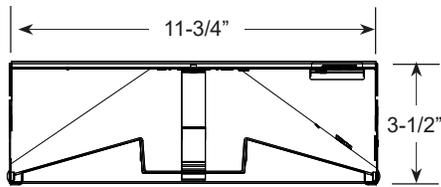
Architectural Recessed LED Luminaire | ESSENTIALS



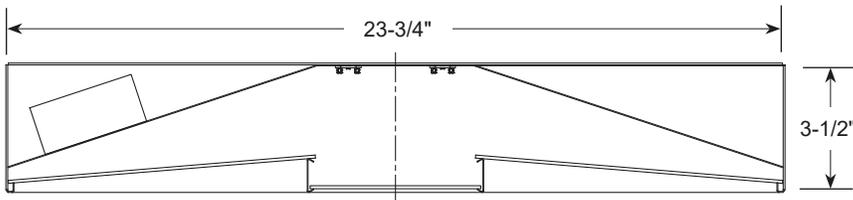
Features:

- 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



1X4 END VIEW



2X2 & 2X4 END VIEW

Lumen Package

Based on 3500K, 80 CRI

| Series | Module Size | Nominal Lumens | Watts | Fixture LPW |
|--------|-------------|----------------|-------|-------------|
| LRW-G | 1X4 | 4000 | 31 | 129 |
| | | 5200 | 41 | 127 |
| | | 6200 | 48 | 129 |
| | 2X2 | 3500 | 28 | 125 |
| | | 4000 | 33 | 121 |
| | | 5900 | 50 | 118 |
| | 2X4 | 4000 | 31 | 129 |
| | | 5200 | 41 | 127 |
| | | 6200 | 48 | 129 |
| | | 11800 | 100 | 118 |

Multiplier for other Color Temp (K)

| | |
|-------|------|
| 3000K | 97% |
| 3500K | 100% |
| 4000K | 102% |

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

Photometrics

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



Fixture Type:

Job Information:

LRW-G Series | ESSENTIALS

Architectural Recessed LED Luminaire | Three-Plane Optical Diffuser System

Ex: LRW-22G-4000-35K-1%-UNI-EM10

| LRW | | Options | | | | UNI | |
|--------|--|---|--|--|------------|---|---|
| SERIES | MODULE SIZE/CEILING | NOMINAL LUMENS | COLOR TEMP | DRIVER | VOLTAGE | STANDBY LIGHTING | MISC. |
| LRW | 14G 1X4 Module 22G 2X2 Module 24G 2X4 Module Nema Type G/ Lay-In Grid, 1" or 9/16" Fine Line. | 1X4 4000 5200 6200 | 80 CRI 30K 35K 40K 90 CRI 927K 930K 935K 940K | 1% 0-10V 1% Dimming As Specified | UNI | EM10 EM12 Contact Factory No Option | FLX 6Ft. Single Circuit Power Flex (Specify Voltage) FLX2 6Ft. 2-Circuit Power Flex (Specify Voltage) |
| | | 2X2 3500 4000 5900 | | | | | |
| | | 2X4 4000 5200 6200 11800 | | | | | |
| | 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, 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.

Warranty

5-year limited warranty. Complete LED warranty terms available at www.mercltg.com.

Actual performance may differ as a result of end-user environment and application.

