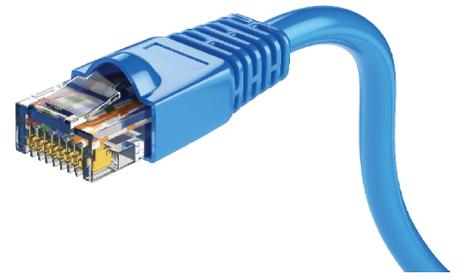


LR302 smartengine | wtec SERIES

Architectural Recessed
1x4 LED Volume Luminaire
Ultra-Shallow Design



Fixture Type:

Job Information:



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.

smartengine

- Network Powered Lighting delivers 18-48V and 150-700mA to power control light fixtures from a central smartengine device.
- No driver, node or active component at the fixture level.
- Factory or field programmable for custom drive currents offering desired lumen-per-foot performance.
- Integrated smartsensor or an RJ45 whip for external smartsensor.
- Smartsensor provides temperature, motion, light level, energy consumption and optimal BLE.
- Each channel will require a home run back to the smartengine.

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%.
- Optional heat removal feature; a series of slots in the housing allows ambient room air/heat to be vented to the plenum.

Diffuser

- Architecturally-curved profile design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing or high LED performance.

Emergency Lighting - Optional

- smartengine is UL924 Listed.

Installations

- Designed for installation into NEMA Type G lay-in acoustical grid ceiling systems, 15/16" 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.
- Optional: Suitable for wet locations marking is available. Contact factory for all details.
- IC rated. (Some higher lumen packages may not qualify. See Lumen Package Matrix).

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, integral lighting controls options, or wireless control options. Consult factory.
- LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.

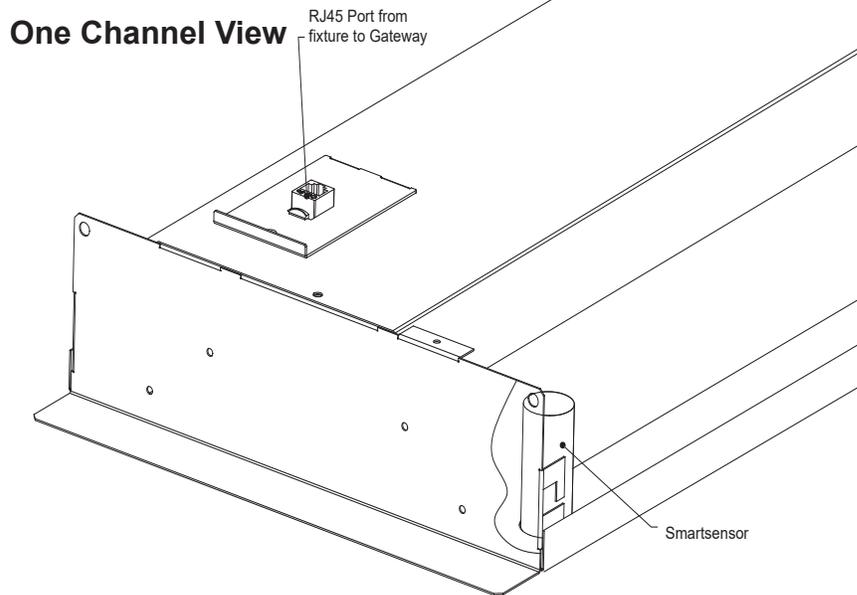
Features:

- Network Powered Lighting via smartengine by wtec.
- Tunable White feature via smartengine's human centric lighting system.
- Ultra-shallow recessed 1x4 ambient LED luminaire featuring a single linear high transmission acrylic diffuser.
- Architecturally-curved diffuser envelopes the LED light source allowing maximum light transmission while eliminating pixilations and hot spots.
- Delivers a balanced amount of horizontal and vertical illumination.
- 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 141.
- Optional heat removal feature allows ambient room air/heat to be vented to plenum.
- American Made.





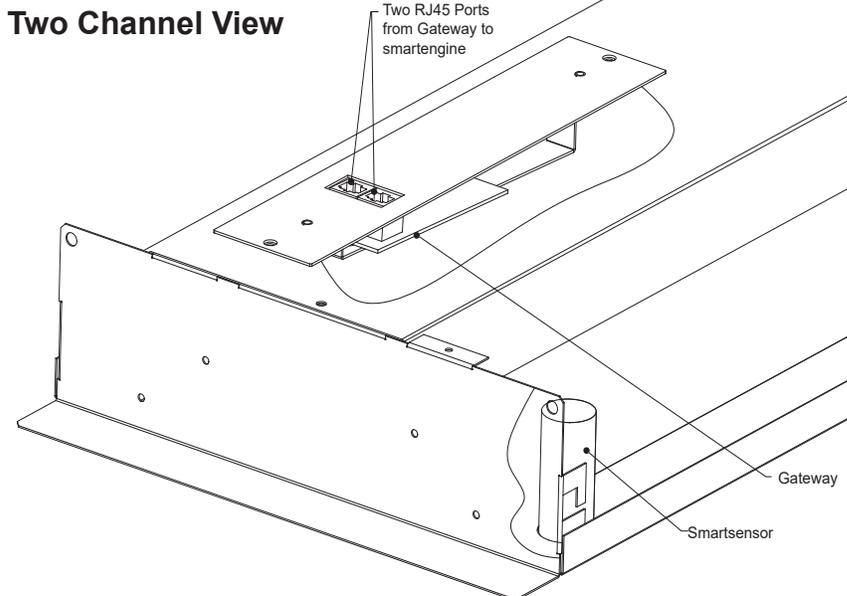
| Series | Module Size/ Ceiling | Drive Current | Lumen Output | Number of Channels | Color Temp | Options |
|--------|--|--|--|--|--|---|
| LR302 | 14G 1x4 Module/ Nema Type G/ Lay-in Grid, 15/16" or 9/16" Fine Line. | 500 700 1000 1300 | 3150L / 23W 4350L / 33W 6050L / 48W 7700L / 64W | 1 CH 1 CH 2 CH 2 CH | 30K 35K 40K 50K Upon Request | FLX 6 Ft. Single Circuit Power Flex (Specify Voltage) FLX 2 6 Ft. 2-Circuit Power Flex (Specify Voltage) WL UL "Suitable for Wet Locations" labeled. HR Heat Removal Housing |
| | | Custom Lumen Package. Contact Factory. | Custom Lumen Package. Contact Factory. | | | |



Lumen Package

| SERIES | MODULE SIZE | NOMINAL LUMEN PACKAGE | COLOR | FIXTURE POWER (W) | DELIVERED LUMENS | FIXTURE LPW | IC RATED | STANDBY LIGHTING OPTION |
|--------|-------------|-----------------------|-------|-------------------|------------------|-------------|----------|-------------------------|
| LR302 | 1x4 | | | | | | | |
| | | 3150 | 3000 | 23 | 3053 | 133 | X | X |
| | | 3150 | 3500 | 23 | 3147 | 137 | X | X |
| | | 3150 | 4000 | 23 | 3210 | 140 | X | X |
| | | 3150 | 5000 | 23 | 3241 | 141 | X | X |
| | | 4350 | 3000 | 33 | 4198 | 127 | X | X |
| | | 4350 | 3500 | 33 | 4328 | 131 | X | X |
| | | 4350 | 4000 | 33 | 4415 | 134 | X | X |
| | | 4350 | 5000 | 33 | 4458 | 135 | X | X |
| | | 6050 | 3000 | 48 | 5849 | 122 | X | X |
| | | 6050 | 3500 | 48 | 6030 | 126 | X | X |
| | | 6050 | 4000 | 48 | 6151 | 128 | X | X |
| | | 6050 | 5000 | 48 | 6211 | 129 | X | X |
| | | 7700 | 3000 | 64 | 7436 | 116 | X | X |
| | | 7700 | 3500 | 64 | 7666 | 120 | X | X |
| | | 7700 | 4000 | 64 | 7819 | 122 | X | X |
| | | 7700 | 5000 | 64 | 7896 | 123 | X | X |

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



Photometrics

All photometric reports are available at mercltg.com.

Cross Sections

