

**Leading the LED Industry Since 1992**  
With over 7,000,000 units installed globally



LD Series



MF Series

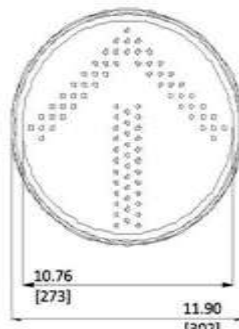
### Superior Performance and Reliability

- Position horizontally, vertically, or in an angular orientation
- “Fail-State Impedance” design
- Significant energy and maintenance savings
- Intertek ETL verified
- Tinted or clear lens options
- Multiple connections available for specific applications
- Exceptional color uniformity and readability
- Excellent moisture and dust resistance through complete O-ring sealing
- Environmentally friendly
- Robust hard-coated and UV-stabilized polycarbonate lens for increased longevity against the elements
- Engineered aluminum heat sink for optimum thermal management
- Built-in Constant Current Source (CCS) provides uniform light output from the first to the last modules
- Maintains 70% of the initial lumen intensity after 100,000 hours of operation
- 5-Year Limited Warranty

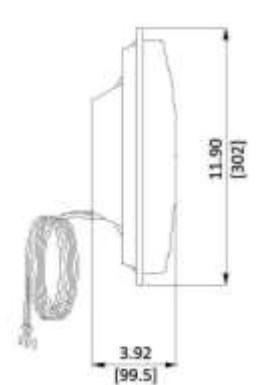
### Mechanical Dimensions [in(mm)]



LD Series









MF Series



LD, MF Series

## Model Specifications and Ordering Options

Operating Temperature:	-40°F to 165°F (-40°C to 74°C)	Turn-On/Turn-Off Time:	<75msec
Operating Voltage:	80 - 135Vac	Turn-Off Voltage:	>35Vac
Power Factor:	>0.90	Total Harmonic Distortion (THD):	<20%

Model Number and Color	Wattage Drawn	Voltage	Dominant Wavelength	Maintained Intensity (cd) Min.	Standard
<b>12 inch</b>					
TSL-12RA-LD-A1 <sup>2</sup> 	7	80-135Vac	626	56.8	ITE 2007/Caltrans/ETL <sup>1</sup>
TSL-12YA-LD-A1 <sup>2</sup> 	12	80-135Vac	589	141.6	ITE 2007/Caltrans/ETL <sup>1</sup>
TSL-12GA-LD-A1 <sup>2</sup> 	7	80-135Vac	500	73.9	ITE 2007/Caltrans/ETL <sup>1</sup>
TSL-12RA-MF-A1 	7	80-135Vac	626	58	ITE 2004/Caltrans
TSL-12YA-MF-A1 	8.5	80-135Vac	589	146	ITE 2004/Caltrans
TSL-12GA-MF-A1 	6.5	80-135Vac	500	76	ITE 2004/Caltrans

**Please note:**

Tinted lens standard, clear lens optional.

<sup>1</sup>Intertek ETL Verified

<sup>2</sup> When ordering clear lens: On LD ETL Verified models, please add “-CLR” to model number. For MF models, please indicate “clear lens.”

## Standard Conformance

- FCC Compliant for Electrical Noise
- MIL-STD-810F Moisture Resistant
- MIL-STD-883 Mechanical Vibration
- NEMA TS2 Transient Voltage Protection over 2000V

