



LED Traffic Signal Module

Type 2 Screw-In Base Design

Easy Lamp™ Series

The Leotek LED Advantage

Compact Edison-base, screw-in design with "Fail-State Impedance" to ensure controller and monitor compatibility in the event of loss of light output.



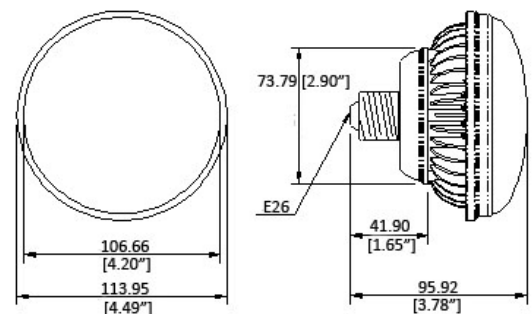
Features and Benefits

- Environmentally friendly
- Significant energy and maintenance savings
- 8" and 12" ball modules
- 12" arrow modules
- Tinted or clear lens
- Simple and fast installation – with or without reflector
- Exceptional color uniformity and readability
- Excellent moisture and dust resistance through complete O-ring sealing
- 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 50,000 hours of operation
- 5-Year Limited Warranty

Technical Data

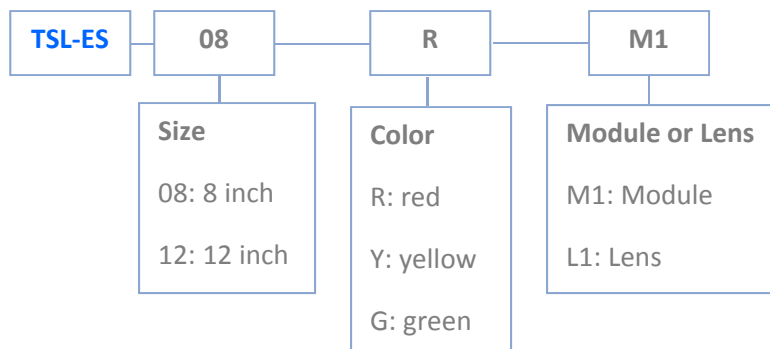
Operating Temperature:	-40°F to 165°F (-40°C to 74°C)
Operating Voltage:	80 -135VAC, 60 Hz ¹
Power Factor:	>0.90
Turn-On/Turn-Off Time:	<75msec
Turn-Off Voltage:	35Vac
Total Harmonic Distortion (THD):	<20%







Mechanical Dimensions [mm(in)]



Model Specifications and Ordering Options

Example: TSL-ES08R-M1



Model Number and Color	Wattage Drawn	Voltage ¹	Dominant Wavelength	Standard
8 inch				
TSL-ES08R-M1 	7	80-135Vac	626	ITE 2005 ²
TSL-ES08R-L1				
TSL-ES08Y-M1 	10	80-135Vac	589	ITE 2005 ²
TSL-ES08Y-L1				
TSL-ES08G-M1 	9	80-135Vac	500	ITE 2005 ²
TSL-ES08G-L1				
12 inch				
TSL-ES12R-M1 	6	80-135Vac	626	ITE 2005 ²
TSL-ES12R-L1				
TSL-ES12Y-M1 	13	80-135Vac	589	ITE 2005 ²
TSL-ES12Y-L1				
TSL-ES12G-M1 	12	80-135Vac	500	ITE 2005 ²
TSL-ES12G-L1				

Options: Tinted lens standard, clear lens optional.

¹Additional power options available.

²Meets ITE 2005 Temperature at +165°F (+74°C).

Standard Conformance



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

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