

The Leader in Electro-Optics Technology



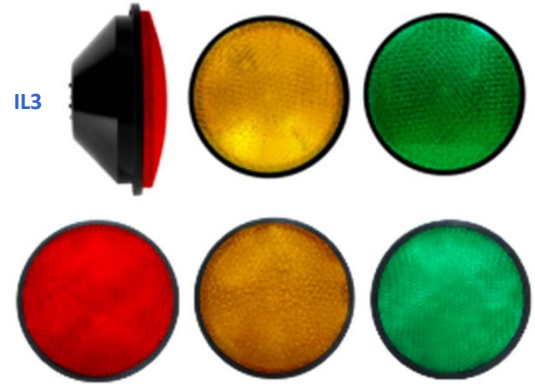
LED GREEN Technology

a subsidiary company of LITEON

LED Traffic Signal Module Incandescent Look IL3 and IL6 Series

The Leotek Advantage

Utilizing advanced technology, the Leotek IL line of products ensures superior performance and reliability.



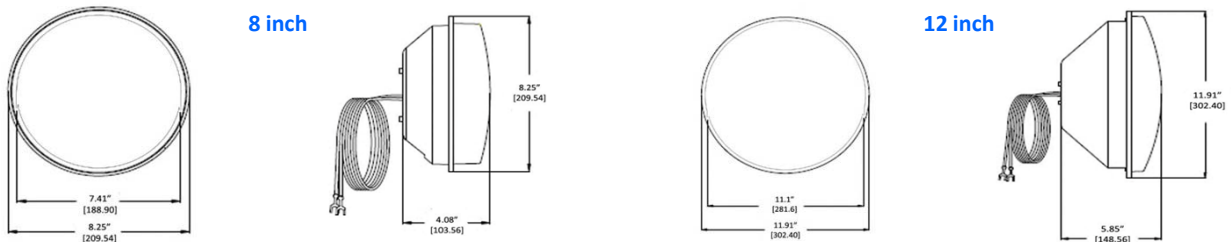
Features and Benefits

- Environmentally friendly
- Significant energy efficiency
- Wider viewing angle
- Enhanced uniformity
- Excellent moisture and dust resistance
- Utilizes constant current source to maintain consistent light output
- Engineered for superior thermal management
- Intertek ETL Verified
- Meets and/or exceeds all ITE standards ITE VTCSH LED Circular Signal Supplement dated June 27th 2005
- Maintains 70% of the initial lumen intensity after 100,000 hours of operation
- 5-Year Limited Warranty

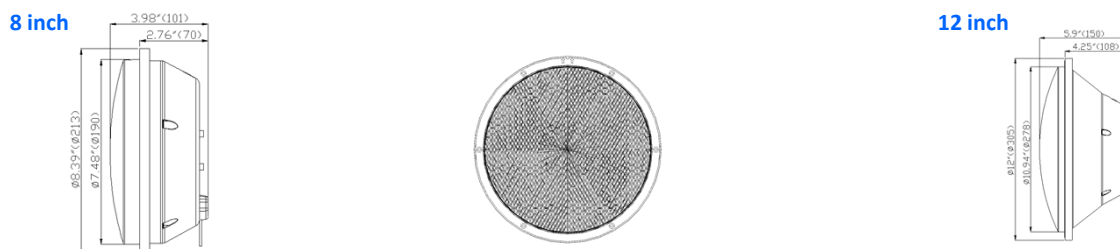
Technical Data

Operating Temperature: -40°F to 165°F (-40°C to 74°C)	Turn-On/Turn-Off Time: <75msec
Operating Voltage: 80 - 135Vac, 10.5-28Vdc	Turn-Off Voltage: >35Vac
Power Factor: >0.90	Total Harmonic Distortion (THD): <20%

IL3 Mechanical Dimensions [in(mm)]





















IL6 Mechanical Dimensions [in(mm)]



Model Specifications and Ordering Options

TSL-(SIZE)(COLOR)-LX-(IL TYPE)-(VOLTAGE)

Model Number and Color	IL Type	Wattage Drawn	Voltage	Dominant Wavelength	Maintained Intensity (cd) Min.	Standard
8 inch						
TSL-08R-LX-IL3-A1 	3	8	80-135Vac	626	165	ITE 2005/ETL
TSL-08Y-LX-IL3-A1 	3	11	80-135Vac	589	410	ITE 2005/ETL
TSL-08G-LX-IL3-A1 	3	9	80-135Vac	500	215	ITE 2005/ETL
TSL-08R-LX-IL3-B1 	3	8	10.5-28Vdc	626	133	ITE 2005 ²
TSL-08Y-LX-IL3-B1 	3	11	10.5-28Vdc	589	267	ITE 2005 ²
TSL-08G-LX-IL3-B1 	3	9	10.5-28Vdc	500	215	ITE 2005 ²
TSL-08R-LX-IL6-A1 	6	6	80-135Vac	626	165	ITE 2005/ETL
TSL-08Y-LX-IL6-A1 	6	11	80-135Vac	589	410	ITE 2005/ETL
TSL-08G-LX-IL6-A1 	6	6	80-135Vac	500	215	ITE 2005/ETL
12 inch						
TSL-12R-LX-IL3-A1 	3	9	80-135Vac	626	365	ITE 2005/ETL
TSL-12Y-LX-IL3-A1-C (High Temp ¹) 	3	17	80-135Vac	589	910	ITE 2005/ETL
TSL-12G-LX-IL3-A1 	3	11	80-135Vac	500	475	ITE 2005/ETL
TSL-12R-LX-IL3-B1 	3	9	10.5-28Vdc	626	399	ITE 2005 ²
TSL-12Y-LX-IL3-B1 	3	17	10.5-28Vdc	589	678	ITE 2005 ²
TSL-12G-LX-IL3-B1 	3	11	10.5-28Vdc	500	678	ITE 2005 ²
TSL-12R-LX-IL6-A1 	6	10	80-135Vac	626	365	ITE 2005/ETL
TSL-12Y-LX-IL6-A1 	6	16	80-135Vac	589	910	ITE 2005/ETL
TSL-12G-LX-IL6-A1 	6	11	80-135Vac	500	475	ITE 2005/ETL

Options: Tinted lens standard, clear lens optional. When ordering clear lens, please add “-CLR” to model number. Both tinted and clear lens are Intertek ETL Verified.

¹Meets ITE 2005 Temperature at +165°F (+74°C).

²Complies with ITE2005 6.4.2, 6.4.3.3, 6.4.4.1-6.4.4.4, 6.4.4.5. No DC requirement from ITE.

Standard Conformance

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

ITE VTCSH Compliance - LED Circular Signal Supplement – June 2005

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|------------------------|-------------|-----------------------|---------------|
| • Conditioning | ITE 6.4.2 | • Luminous Intensity | ITE 6.4.4.1-4 |
| • Mechanical Vibration | ITE 6.4.3.1 | • Chromaticity | ITE 6.4.4.6 |
| • Temperature Cycling | ITE 6.4.3.2 | • Current Consumption | ITE 6.4.6.1 |



V7-051911

Information provided subject to change without notice.