LEOTEK®
LITE-ON GROUP

Project
Type
Catalog No.

LED Railroad Grade Crossing EV Series Signal Module

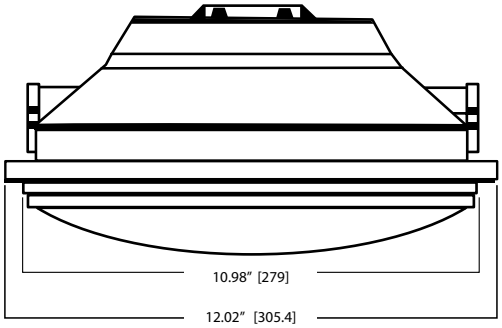
Leading the LED Industry Since 1992

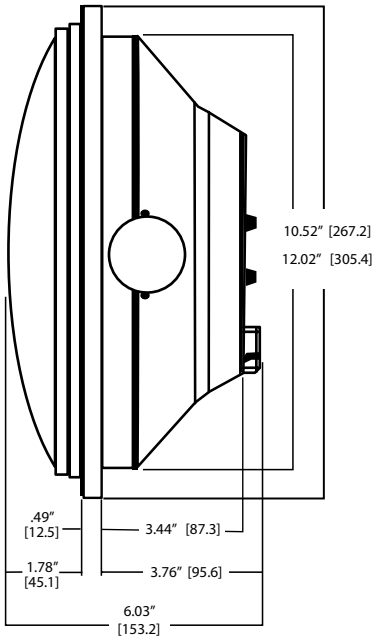
With over 7,000,000 units installed globally

Longer Lasting, Brighter Light

- Meets AREMA and Transport Canada standards for Safety Assurance
- Side Lights available in both red or white for extra safety and visibility
- Multiple power supply options available
- Low wattage ensures longer battery backup life cycle
- Easy to retrofit
- Excellent moisture and dust resistance
- Eliminates the appearance of "phantom signal"
- Robust hard-coated and UV-stabilized polycarbonate lens for increased longevity against the elements
- Maintains 70% of the initial lumen intensity after 100,000 hours of operation
- 5-Year Limited Warranty

Mechanical Dimensions [in(mm)]





RoHS Compliant
ISO 9001 Registered

LED Railroad Grade Crossing EV Series Signal Module

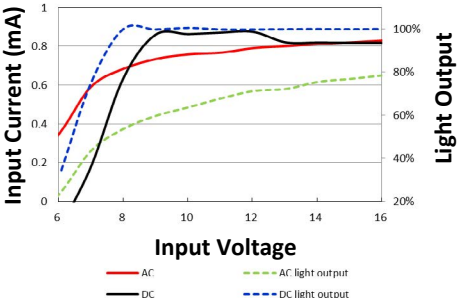
Model Specifications and Ordering Options

Environmental Parameters	AREMA Part 11.5.1 – Class B MIL-STD-883, Test Method 1010 NEMA Standard 250-1991, Section 4.7.2.1 and 4.7.3.2 for Type 4 enclosures
Photometry	AREMA Part 3.2.35/TC E-14
Transient Immunity	AREMA Part 11.3.3/C.4.a
Dielectric	AREMA Part 11.5.1/Class B, 3kVrms
EMI	AREMA Part 11.5.1/Class B

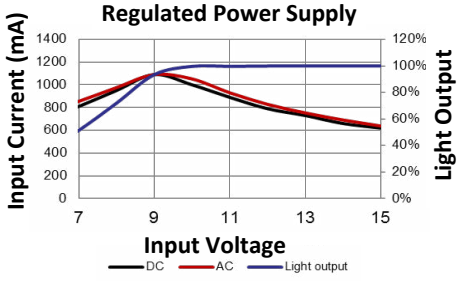
Operating temperature	-40°F to 160°F (-40°C to 70°C)
Electronic Noise	FCC Title 47 Sub. B Sec 15 Class A
Operating Voltage TSL-12RCS-EVW-U1	8-20Vdc, 8-16Vac (50/60 Hz) 8-14Vdc, 8-16Vac (50/60 Hz)
Power Factor	>0.90
Turn-On/Turn-Off Time	<75msec
Power Surge	45Vrms for 80ms

Typical Current Characteristics - EV Series

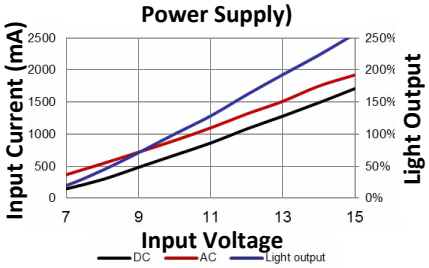
TSL-12RCS-EVW-E1-CC
Linear Power Supply



TSL-12RCS-EVW-E1
Regulated Power Supply



TSL-12RCS-EVW-U1
Unregulated (No Integrated Power Supply)



Model Number and Color	Side Light Color	LED Type	Dominant Wavelength	Wattage Drawn	Input Current
TSL-12RCS-EVW-E1-CC with White Side Lights	○	AlInGaP	626	9.8	1000mA
TSL-12RCS-EVW-E1 with White Side Lights	○	AlInGaP	626	10	1000mA
TSL-12RCS-EVR-E1 with Red Side Lights	●	AlInGaP	626	10	1000mA
TSL-12RCS-EVW-U1	○	AlInGaP	626	10	1000mA