MKR-LTE1-0IR

L-810(L) LED Obstruction Light with Infrared (IR)

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The **MKR-LTE1-0IR** Single Obstruction Light integrates visible **Red LEDs** and **Infrared LEDs** into a single L-810(L). Infrared energy (IR) can enhance compatibility with Night Aviator's Vision Imaging Systems (ANVIS) and Night Vision Goggles (NVG). Precision molded Fresnel Optics produce a low ground scatter tower lighting solution. The die cast **aluminum base** provides 3/4 inch conduit hubs for side or bottom mounting. Multiple 9kA MOVs and a 20kA gas plasma discharge tube provide robust surge suppression.

Features

- Integrated **Infrared Emitters** can enhance compatibility with Aviator's Night Vision Imaging Systems (ANVIS) and Night Vision Goggles (NVG).
- Rugged die cast aluminum base.
- Stainless steel latches and hardware.
- 3/4 Inch conduit entrance, side and bottom hubs.
- Modular replaceable power supply.
- Power supply operates from 100 to 240 Vac, 50/60Hz
- Power Factor Corrected (PFC), PF≥0.9 @ 120Vac
- Double obstruction light version available, ITL part number MKR-LTE2-0IR.

Specifications

Specifications:	ETL Certified to AC150/5345-43, Type L-810 (L) and Engineering Brief 67
Red Intensity:	32.5 effective candelas (min.)
Height:	7.5 Inches (19.1 cm)
Width:	5.4 Inches (13.7 cm)
Weight:	2.0 lbs. (0.9 Kg)
Power:	100 to 240 Vac, 50 / 60 Hz, 7W
Temperature:	-40°C to +55°C
Humidity:	less than 95%, non-condensing

Night Vision Goggles (NVG) and Aviator's Night Vision Imaging Systems (ANVIS) translate infrared energy (IR) into brightness variations on a human visible display. These systems utilize various filters and technology that affect their sensitivity to infrared energy (IR) of different wavelengths. International Tower Lighting, LLC (ITL) makes no claim or representation that the infrared energy (IR) emitted by ITL obstruction lights is visible to any NVG, ANVIS or other night vision imaging system. In no event shall International Tower Lighting, LLC (ITL) or any of its representatives be liable for any damages, including, without limitation, direct, consequential, indirect, punitive, incidental or special damages, in connection with the infrared energy (IR) emitted by ITL obstruction lights and/or whether any NVG or ANVIS can detect such Infrared energy (IR) or whether the infrared energy (IR) emitted by ITL obstruction lights is visible to any NVG, ANVIS or other night vision imaging system, regardless of the form of action.

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ITL Infrared Equipped Obstruction Lights

ITL Obstruction Lighting Systems containing Infrared (IR) Emitters

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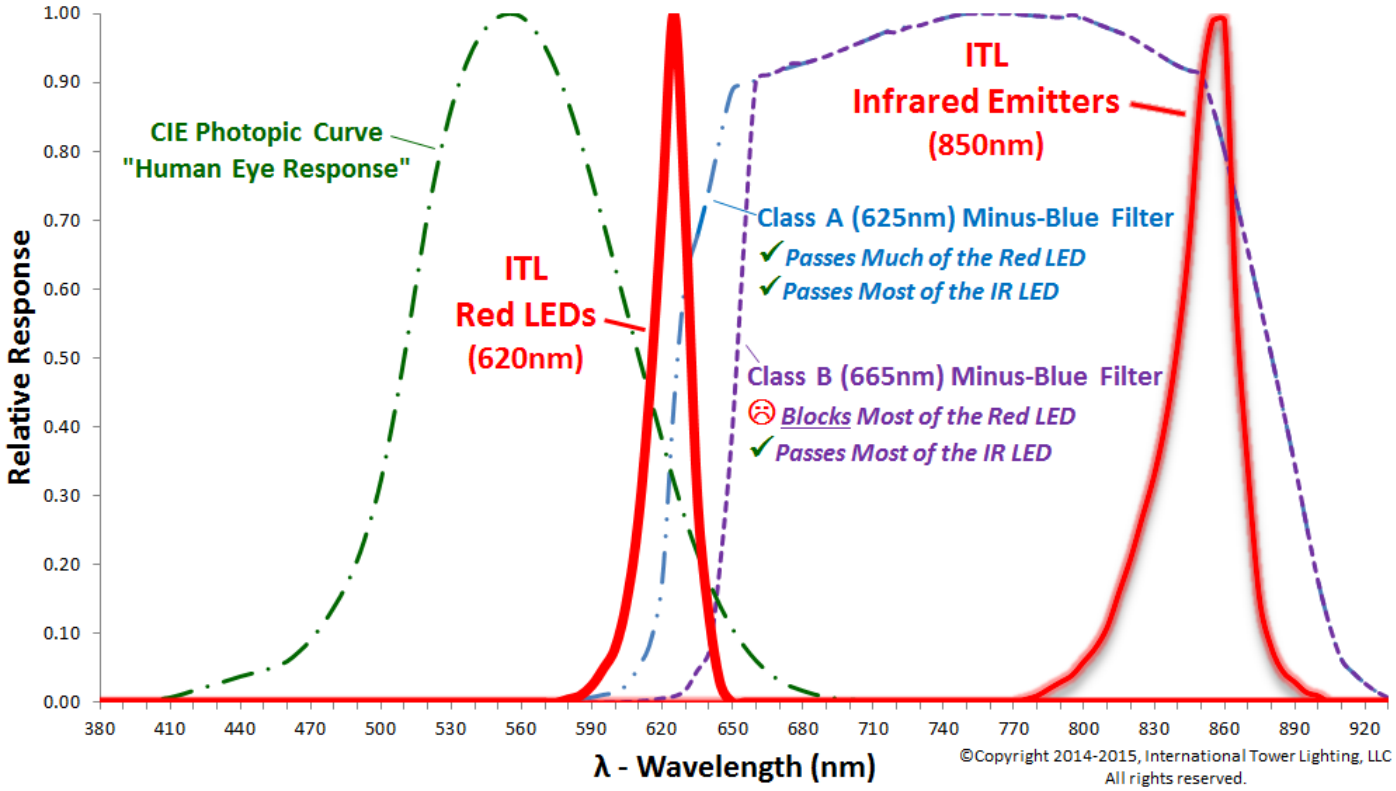
ITL Infrared Equipped Obstruction Lights utilize infrared emitters which can enhance compatibility with night vision systems. Many **Aviator's Night Vision Imaging Systems (ANVIS)** and **Night Vision Goggles (NVG)** utilize filters called "Minus-Blue Filters" which block visible light. Various filters are in use today including Class A (625nm) and Class B (665nm) shown in the relative response graph below. While the Class A filter allows some red light to pass through, the Class B Minus-Blue Filter has a cutoff wavelength of 665nm effectively rendering standard 620nm red LED obstruction lights invisible. **ITL Infrared Equipped Obstruction Lights *(ITL part numbers ending in "-0IR")* include both standard red LEDs and Infrared Emitters.** In night mode the infrared emitters operate synchronously with visible LEDs. The infrared emitters produce infrared radiation at 850nm. While there is currently no certification process to verify obstruction light compatibility with any night vision system, the wavelength of the infrared emitters in ITL Infrared Equipped Obstruction Lights has been selected to be in the pass-band of both Class A and Class B minus-blue filters.



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