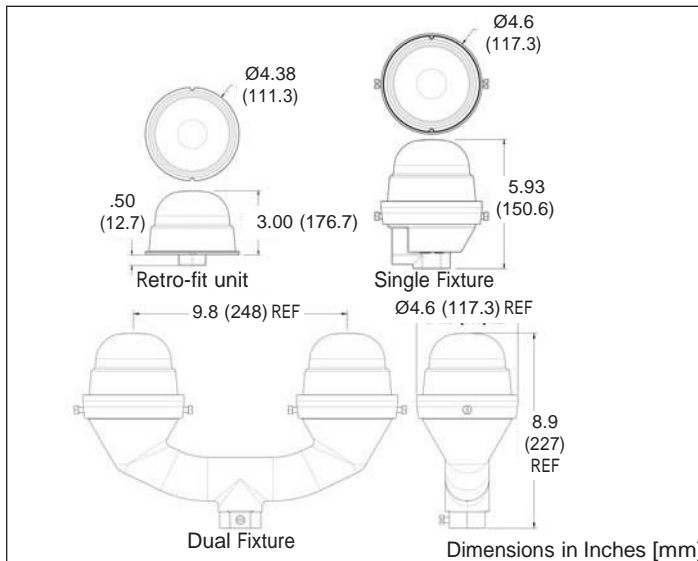


# Dialight



Patents Pending

## Vigilant™ L-810 Infrared (IR) LED Obstruction Lights



### Certifications & Ratings:

FAA AC NO: 150/5345-43F  
 FAA Engineering Brief No. 67  
 Transport Canada CAR 621.19  
 Qualified by Intertek ETL

### Features & Benefits:

Available in 120-240 VAC and 12-48 VDC  
 Simple retro-fit using existing wiring and housing  
 Weather/corrosion resistant lamp assembly and housing  
 Self-contained wiring compartment eliminates additional boxes  
 Threaded 1" and 3/4" bottom hub for mounting  
 Can be operated steady or flashed  
 Uses 95% less energy than incandescent  
 5 year warranty  
 Resistant to shock and vibration  
 IP65 / IP66 / NEMA 4X

The Dialight Vigilant™ Series L-810 RTO Infrared (IR) obstruction light incorporates both Red and IR LEDs in a single unit to ensure visibility around military bases, airfield perimeters, buildings, towers and other obstructions for aircraft pilots, both during normal flight or when aided by night vision systems. Night Vision Goggles (NVGs) and Aviator's Night Vision Imaging System (ANVIS) often employ Class A, B, and C filters. These filters can reduce LED sources that emit light in the visible spectrum. The Vigilant IR Series overcomes this obstacle by combining visible red LEDs and IR LEDs in a single unit.

The Dialight Vigilant RTO Series obstruction light utilizes a unique optical, electrical, and mechanical design. The RTO is the most universal, compact, and efficient obstruction light in the world. These products have been ETL Certified to the FAA & TC requirements. Also available as a single fixture for direct replacement of incandescent lamp/lens technology.

### Mechanical Information:

**Container Dimensions:** 7.60" x 5.25" x 5.75" (Retro Unit)  
 193mm x 133mm x 146mm

7.60" x 5.25" x 5.75" (Single Unit)  
 193mm x 133mm x 146mm

18.6" x 12.5" x 6.40" (Dual Unit)  
 472mm x 318mm x 163mm

**Container Weight:** 1.25lbs (Retro Unit)  
 2.00lbs (Single Unit)  
 4.60lbs (Dual Unit)

### Electrical specifications:

**Supply Voltage Ranges:** Nominal +/- 10%

**Nominal Input Power:** 5.5W (FAA - 120-240 VAC Units)  
 5.0W (FAA - 12-48 VDC Units)

**Peak IR Intensity:** 860 nanometers

**Power Factor:** >0.9 (All AC units)

**Operating Temp:** -40°F to +131°F (-40°C to +55°C)

### Order Codes:

Part Number	Description	Voltage
RTOCR07001	Single IR fixture, FAA	120-240 VAC
RTO6CR7001	Single IR fixture, TC	120-240 VAC
RTOCR08001	Single IR fixture, FAA	12-48 VDC
RTO6CR8001	Single IR fixture, TC	12-48 VDC
RTOCR07002	Dual IR fixture, FAA	120-240 VAC
RTO6CR7002	Dual IR fixture, TC	120-240 VAC
RTOCR08002	Dual IR fixture, FAA	12-48 VDC
RTO6CR8002	Dual IR fixture, TC	12-48 VDC

Dialight reserves the right to make changes at any time in order to supply the best product possible.

The most current version of this document will always be available at:

[www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Signaling/MDTFCVSLIRX001.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/MDTFCVSLIRX001.pdf)