

# Dialight

## 860 SERIES LED OBSTRUCTION LIGHT



**Certified to:** FAA AC NO: 150/5345-43F  
Canadian Aviation Regulation CAR 621.19  
(Transport Canada)

**Compliant to:** ICAO  
(Annex 14 - Fourth Edition, July 2004 )

### FEATURES / BENEFITS

- ▲ Available as a single or dual unit
- ▲ Available in 12VDC, 24VDC, 48VDC, 120VAC, and 220VAC versions (50 or 60HZ)
- ▲ Earth grounding provisions provided
- ▲ Unique optically designed lens to enhance LED operation and provide 360° visibility
- ▲ State-of-the-art high-flux LED technology
- ▲ Lasts years longer than an incandescent
- ▲ 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 (controller not supplied)
- ▲ 5 year warranty
- ▲ Resistant to shock and vibration
- ▲ IP 65 / IP 66 / NEMA 4X rated

US PATENT# 6,425,678



### APPLICATION

- ▲ The Dialight 860 series is the FAA type L810 red LED obstruction light. Designed for steady burning, this fixture is used to mark any obstacle that may present hazards to aircraft navigation. The US patent office has issued patent number 6,425,678 B1 for this series.

### OPERATING CONDITIONS

- ▲ Temperature: -67°F to +131°F (-55°C to +55°C)

### FINISH

- ▲ Cast Aluminum
- ▲ Stainless Steel Hardware



#### Dialight Europe Ltd.

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A Subsidiary of Dialight PLC



#### Dialight Corporation

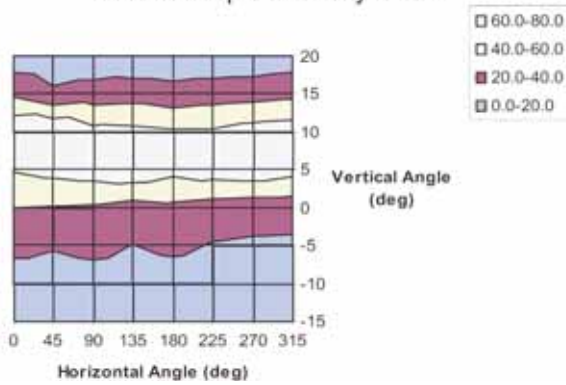
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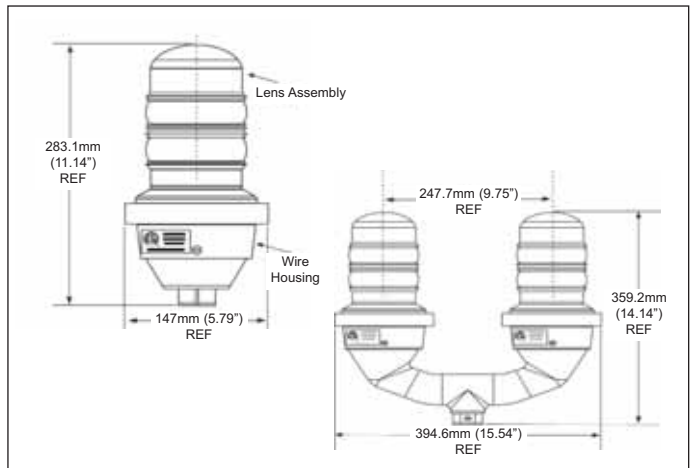
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## PHOTOMETRIC DATA

L810 Isotropic Intensity Chart



## MECHANICAL DIMENSIONS



## ORDERING INFORMATION

### Single Units Part Number

### Volts

|                            |         |
|----------------------------|---------|
| 860-1R01-001*              | 120 VAC |
| 860-6R01-001**             | 120 VAC |
| 860-1R02-001               | 220 VAC |
| 860-1R03-001*              | 12 VDC  |
| 860-3R03-001 (Low wattage) | 12 VDC  |
| 860-1R05-001*              | 24 VDC  |
| 860-6R05-001**             | 24 VDC  |
| 860-1R04-001*              | 48 VDC  |

### Replacement Light Assemblies Part Number

### Volts

|                        |         |
|------------------------|---------|
| 860-1R01               | 120 VAC |
| 860-6R01**             | 120 VAC |
| 860-1R02               | 220 VAC |
| 860-1R03               | 12 VDC  |
| 860-3R03 (Low wattage) | 12 VDC  |
| 860-1R05               | 24 VDC  |
| 860-6R05**             | 24 VDC  |
| 860-1R04               | 48 VDC  |

### Dual Units Part Number

### Volts

|                            |         |
|----------------------------|---------|
| 860-1R01-002*              | 120 VAC |
| 860-6R01-002**             | 120 VAC |
| 860-1R02-002               | 220 VAC |
| 860-1R03-002*              | 12 VDC  |
| 860-3R03-002 (Low wattage) | 12 VDC  |
| 860-1R05-002*              | 24 VDC  |
| 860-6R05-002**             | 24 VDC  |
| 860-1R04-002*              | 48 VDC  |

\* FAA approved  
\*\* Canadian Spec

## WEIGHTS & MEASUREMENTS

| PART NUMBER | APPROX. SHIPPING WEIGHT | CONTAINER DIMENSIONS |
|-------------|-------------------------|----------------------|
| Single Unit | 7.14 lbs                | 16" x 9" x 8"        |
| Dual Unit   | 16.06 lbs               | 22" x 17" x 9"       |

## ELECTRICAL SPECIFICATIONS

|                           | PF  | VA   | OPERATING VOLTAGE |     |     | WATTS (W) |      |      | AMPS  |
|---------------------------|-----|------|-------------------|-----|-----|-----------|------|------|-------|
|                           |     |      | Min               | Typ | Max | Min       | Typ  | Max  |       |
| 120VAC UNITS              | .3  | 46.5 | 92                | 120 | 132 | 10        | 14.5 | 17.5 | 120mA |
| 220VAC UNITS (60Hz)       | .17 | 72   | 198               | 220 | 264 | 11        | 14.5 | 17.5 | 120mA |
| 220VAC UNITS (50Hz)       | -   | -    | 198               | 220 | 264 | 12        | 14   | 17   | -     |
| 12VDC UNITS (STANDARD)    | -   | -    | 10                | 12  | 14  | 20        | 24.5 | 29   | 2.0 A |
| 12VDC UNITS (LOW WATTAGE) | -   | -    | 10                | 12  | 14  | 7.0       | 7.50 | 8.8  | .62 A |
| 24VDC UNITS               | -   | -    | 21                | 24  | 27  | 17        | 22   | 29   | 920mA |
| 48VDC UNITS               | -   | -    | 43                | 48  | 53  | 11        | 13.5 | 16   | 275mA |

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