# Dialight



# Dialight® LED Obstruction
Technical Specification Sheet - Medium Intensity Red
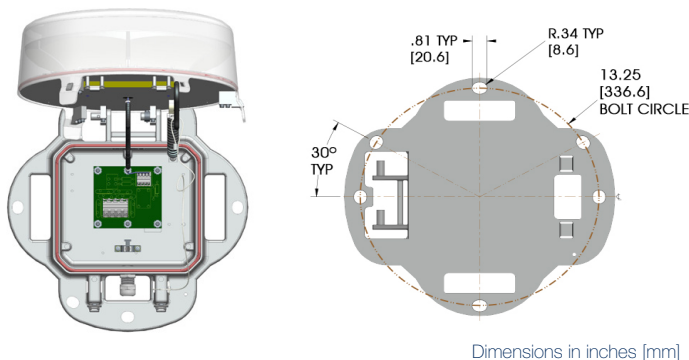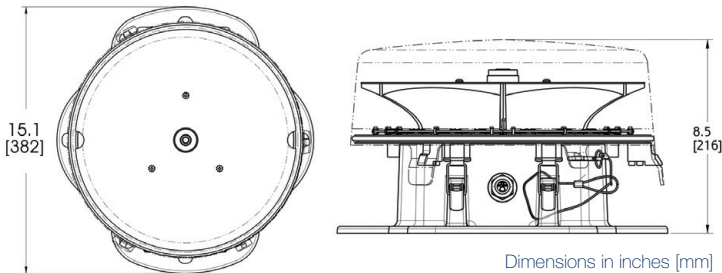
# Vigilant® LED Beacon
## Medium Intensity (Red)



## FAA L-864 / ICAO Medium Type B+C

### Certifications & Ratings

- 5 year warranty
- FAA AC 150/5345-43H
- FAA AC 70/7460-1L
- FAA Engineering Brief 67D
- ICAO Annex 14
- Transport Canada CAR 621.19
- CASA
- RCM
- CE

### Mechanical Information:

| | |
|---|---|
| Weight: | 21 lbs (9.5 kg) |
| Mounting Details: | Standard FAA 3 hole & 4 hole pattern |
| Impact rating: | IK10 |
| Protection Rating: | IP66 |
| Included Hardware: | 1/2" NPT cable gland, mounting kit (bolts, nuts, etc.) |
| Cable Entry Size: | 1/2" NPT |
| Aerodynamic Wind Area: | 0.6 ft$^2$ |

### Electrical Specifications:

| | |
|---|---|
| Operating Temperature: | -40°F to +131°F (-40°C to +55°C) |
| Power Factor: | > 0.9 |
| Power Consumption: | |
|    Standard: | 23W nominal (AC version); 15W nominal (DC version) |
|    IR Model: | 21W nominal (AC version) |
| Input Current: | 120-240 VAC, 50/60 Hz (168mA nominal) 24-48 VDC (625mA nominal) |



15.1 [382]

8.5 [216]

Dimensions in inches [mm]

### Construction:

| | |
|---|---|
| Housing Material: | Powder coated, copper-free, marine grade aluminum |
| Lens Hardware: | Polycarbonate, UV stabilized & hard coated |
| Mounting (Two Sets): | Hot dipped galvanized & stainless steel |
| Latches: | Stainless steel |



.81 TYP [20.6]

R.34 TYP [8.6]

13.25 [336.6] BOLT CIRCLE

30° TYP

Dimensions in inches [mm]

### Photometric Information:

**Flash Intensity (nominal):**

| | |
|---|---|
|    Night (Red): | 2,000 cd |
|    IR Wavelength: | peak @ 850nm |

**Flash Rate:**

| | |
|---|---|
|    Night (Red) | 20/30/40 flashes per min |
|    IR Pulse Rate | 20/30/40 flashes per min |

| | |
|---|---|
| Expected Lamp Life | 100,000 hours (approx. 10 years) |

All values typical unless otherwise stated (tolerance +/- 10%)

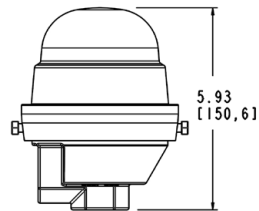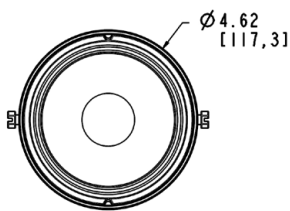# Vigilant® LED Marker
## Low Intensity (Red)
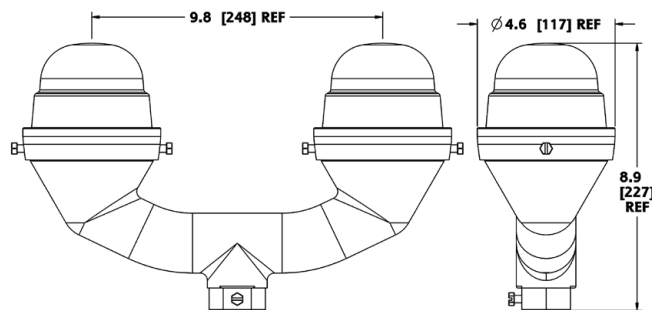
## FAA L-810 / ICAO Low Type B+E

### Certifications & Ratings

- 5 year warranty
- FAA AC 150/5345-43H
- FAA AC  70/7460-1L
- FAA Engineering Brief 67D
- ICAO Annex 14
- Transport Canada CAR 621.19
- CE

### Mechanical Information:

| | |
|---|---|
| Weight: | Single unit - 2.00 lbs (0.91 kg) |
| | Dual unit - 4.60 lbs (2.09 kg) |
| Mounting Details: | NPT 3/4" and 1" NPT |
| Impact Rating: | IK10 |
| Protection Rating: | IP66 |
| Included Hardware: | 1" NPT plug |
| Cable Entry Size: | NPT 3/4" and 1" NPT |
| Aerodynamic Wind Area: | 0.15 ft$^2$ |

### Electrical Specifications:

| | |
|---|---|
| Operating Temperature: | -40°F to +131°F (-40°C to +55°C) |
| Power Factor: | > 0.9 |

**Power Consumption:**

| | |
|---|---|
| **Standard** | |
| **Single & Dual Units -** | 1.5W nominal (DC version) |
| | 6.5W nominal (AC version) |
| **IR Models** | |
| **Single & Dual Units -** | 5.0 W (DC version) |
| | 5.5 W (AC version) |

| | |
|---|---|
| Input Current: | 120-240 VAC, 50/60 Hz (55mA nominal) |
| | 12-48 VDC (63mA nominal) |

### Single Fixture

Dimensions in inches [mm]

Ø4.62 [117,3]

5.93 [150,6]

### Photometric Information:

**Flash Intensity (nominal):**

| | |
|---|---|
| Night (Red): | 32 cd |
| IR Wavelength: | peak @ 850nm |

**Flash Rate:***

| | |
|---|---|
| Night (Red) | 20/30/40 flashes per min |
| IR Pulse Rate | 20/30/40 flashes per min |

| | |
|---|---|
| Expected Lamp Life | 100,000 hours (approx. 10 years) |

*Can also operate as steady burn

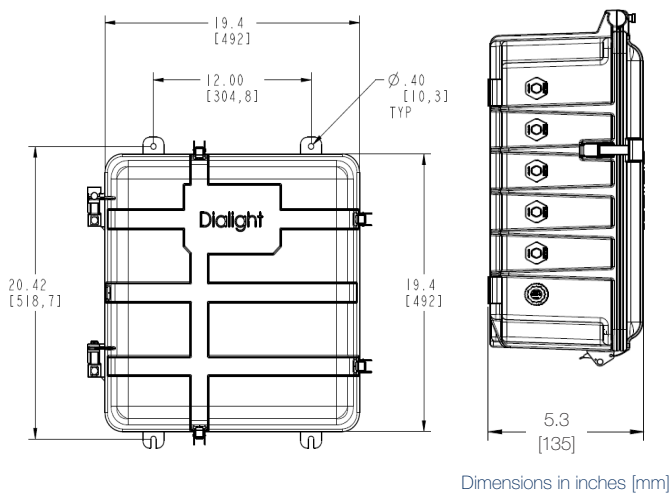All values typical unless otherwise stated (tolerance +/- 10%)

### Dual Fixture

9.8 [248] REF

Ø4.6 [117] REF

8.9 [227] REF

Dimensions in inches [mm]

# Vigilant® LED Controller
## Low & Medium Intensity



**A0-A1**



Dimensions in inches [mm]

**A1-A6**



Dimensions in inches [mm]
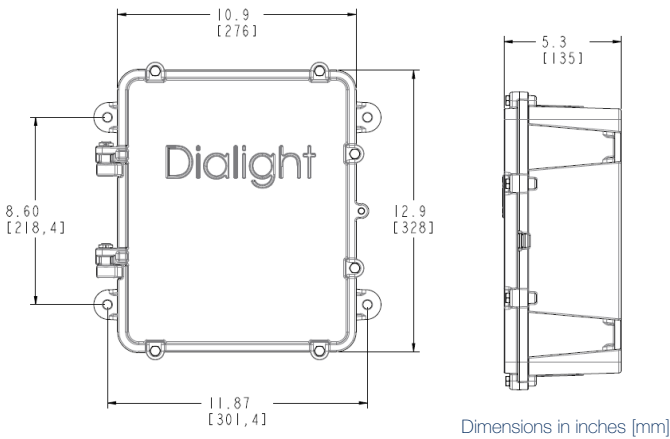
## AC or DC Controller

### FAA Tower Types: A0-A1

| | |
|---|---|
| **Weight:** | 16 lbs (7.3 kg) |
| **Operating Temperature:** | -40$^o$F to +131$^o$F (-40$^o$C to +55$^o$C) |
| **Protection Rating:** | IP66, NEMA 4X |
| **Power Consumption:** | 3.5W (AC) / 2.6w (DC) |
| **Material:** | Powder coated, copper-free, marine grade aluminum |
| **Cable Entry:** | Size: 3/4" NPT |
| | number of openings: 6 |
| **Included Hardware:** | 3/4" NPT cord grips & plugs |
| **Configurable Options:** | Flash rates |

All values typical unless otherwise stated (tolerance +/- 10%)

## AC Controller

### FAA Tower Types: A1-A6

| | |
|---|---|
| **Weight:** | 49.5 lbs (22.5kg) |
| **Operating temperature:** | -40$^o$F to +131$^o$F (-40$^o$C to +55$^o$C) |
| **Protection Rating:** | IP66, NEMA 4X |
| **Power Consumption:** | 12W |
| **Material:** | Powder coated, copper-free, marine grade aluminum |
| **Cable Entry:** | Size: 3/4" NPT |
| | Number of openings: 6 |
| **Included Hardware:** | 3/4" NPT cord grips & plugs |
| **Configurable Options:** | Flash rates |

All values typical unless otherwise stated (tolerance +/- 10%)

# Light Output Charts

## Medium Intensity (Red) Beacon
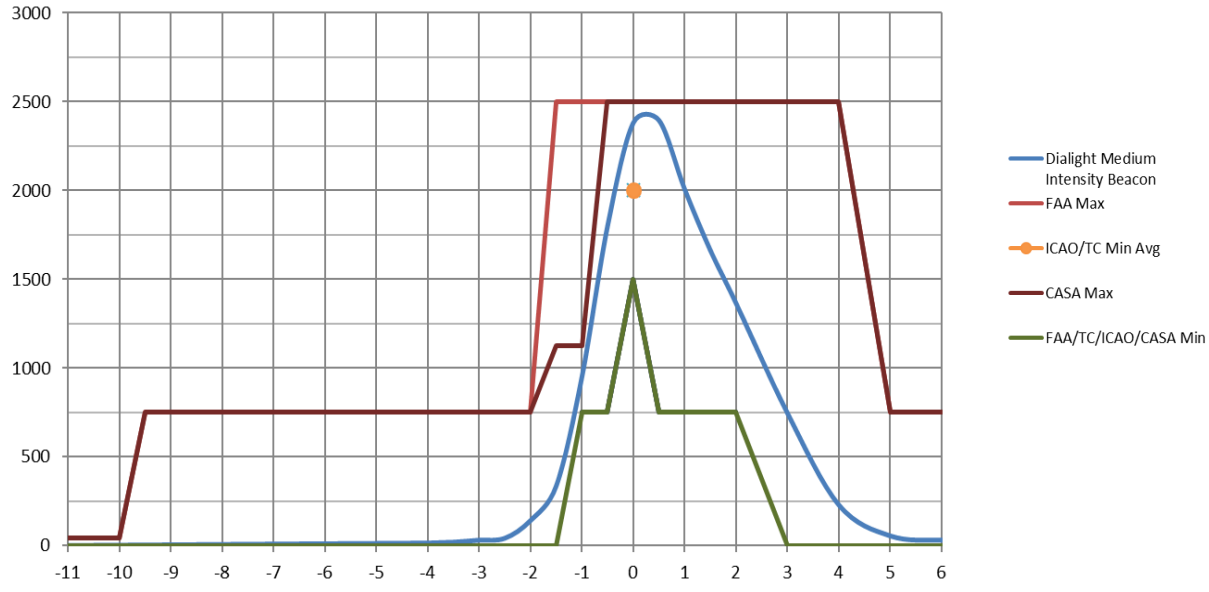


## Low Intensity (Red) Beacon
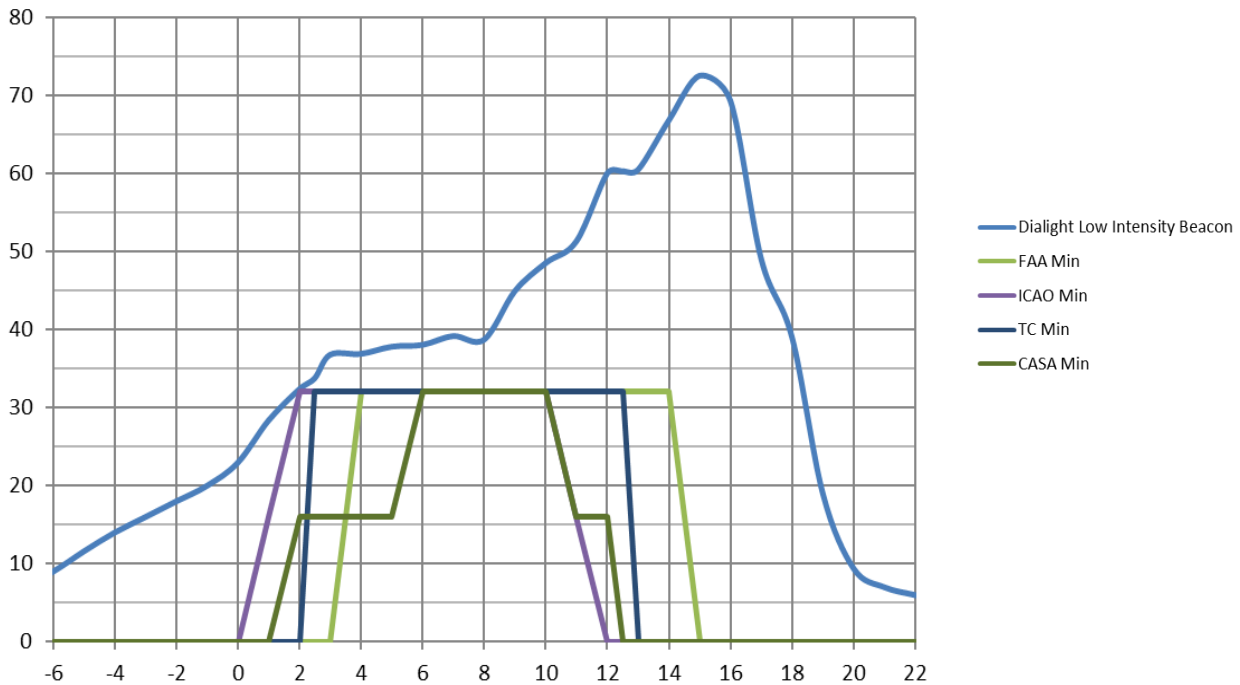
# Ordering Information

## Flash Head (L-864)

| Input | Part Number | Description |
|---|---|---|
| 120-240 VAC | D564A13001 | Red Medium Intensity Flash Head |
| 120-240 VAC | D564R13001 | Red Medium Intensity Flash Head w/IR* |
| 24-48 VDC | D564A54001 | Red Medium Intensity Flash Head |

## Side Markers (L-810)

| Input | Part Number | Description |
|---|---|---|
| 12-48 VDC | RTO1R18001 | FAA L-810 Low Intensity Side Marker: DC Input |
| 12-48 VDC | RTOCR08001 | FAA L-810 Low Intensity Side Marker w/IR: DC Input* |
| 120-240 VAC | RTO1R07001 | FAA L-810 Low Intensity Side Marker: AC Input |
| 277 VAC | RTO1R06001 | FAA L-810 Low Intensity Side Marker: AC Input |
| 120-240 VAC | RTOCR07001 | FAA L-810 Low Intensity Side Marker w/IR: AC Input* |
| 120-240 VAC | RTO1R07001EU | ICAO Type B & E: AC Input |

## Controllers

| Input | Part Number | Description |
|---|---|---|
| 24-48 VDC | D5RB55CCTR | Red Medium Intensity Controller: DC Input, 2 Outputs |
| 120-240 VAC | D5RB77CCTR | Red Medium Intensity Controller: AC Input, 2 Outputs |
| 120-240 VAC | D5RE77CCTR | Red Medium Intensity Controller: AC Input, 12 Outputs |
| 120-240 VAC | D5RG77CCTR | Red Medium Intensity Controller: AC Input, 18 Outputs |

## Photocell

| Part Number | Description |
|---|---|
| D2566000PEC | Photocell: Single 3/4" NPT Entry |

*Optically compliant to FAA Engineering Brief 98

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