

# Dialight® LED Obstruction Systems

D1CW-C13-409 SYS and D1CW-C14-409 SYS

Technical Specification Sheet - Medium Intensity Dual Red/White with Infrared (IR)

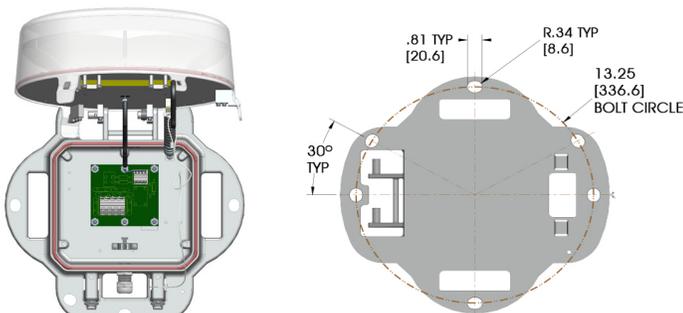
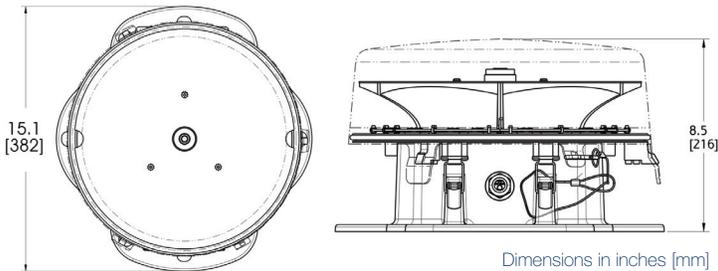
# Vigilant® LED Strobe

## Medium Intensity (White/Red)



### Certifications & Ratings

- 5 year warranty
- FAA AC 150/5345-43J
- FAA AC 70/7460-1L
- FAA Engineering Brief 67D
- FAA Engineering Brief 98
- ICAO Annex 14
- Transport Canada CAR 621.19
- RCM
- CE



### FAA L-865/L-864 / ICAO Medium Type A, B & C

#### Mechanical Information:

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

#### Electrical Specifications:

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

#### Power Consumption:

<b>Day (White):</b>	36 W (System = 75 W)
<b>Night (White):</b>	4 W (System = 10W)
<b>Night (Red-IR):</b>	15 W (System = 28 W)

<b>Input Current:</b>	120-277 VAC, 50/60 Hz (1.6 A peak) 48 VDC (2.2 A peak)
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#### Construction:

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

#### Photometric Information:

##### Flash Intensity (nominal):

<b>Day (White):</b>	20,000 cd
<b>Night (White):</b>	2,000 cd
<b>Night (Red):</b>	2,000 cd
<b>IR Wavelength:</b>	850nm

##### Flash Rate:

<b>Day (White):</b>	40 flashes per min.
<b>Night (White):</b>	40 flashes per min.
<b>Night (Red):</b>	20/30/40 flashes per min.
<b>IR Pulse Rate:</b>	20/30/40 flashes per min.

<b>Expected Lamp Life</b>	100,000 hours (approx. 10 years)
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All values typical unless otherwise stated (tolerance +/- 10%)

# Vigilant® LED Based Side Markers

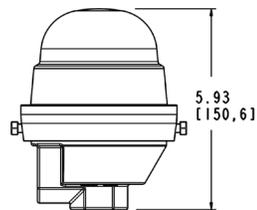
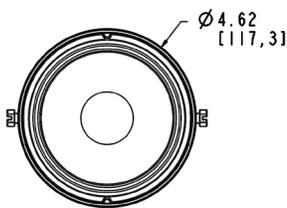
## Low Intensity (Red)



### Certifications & Ratings

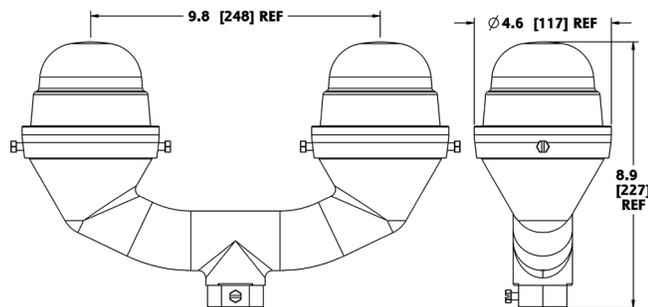
- 5 year warranty
- FAA AC 150/5345-43H
- FAA AC 70/7460-1L
- FAA Engineering Brief 67D
- ICAO Annex 14
- Transport Canada CAR 621.19
- CE

### Single Fixture



Dimensions in inches [mm]

### Dual Fixture



Dimensions in inches [mm]

## FAA L-810 / ICAO Low Type B+E

### Mechanical Information:

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

### Electrical Specifications:

<b>Operating Temperature:</b>	-40°F to +131°F (-40°C to +55°C)
<b>Power Factor:</b>	> 0.9
<b>Power Consumption:</b>	
<b>Single &amp; Dual Units -</b>	5.0 W (DC version) 5.5 W (AC version)
<b>Input Current:</b>	120-240 VAC, 50/60 Hz (55mA nominal) 12-48 VDC (63mA nominal)

### Photometric Information:

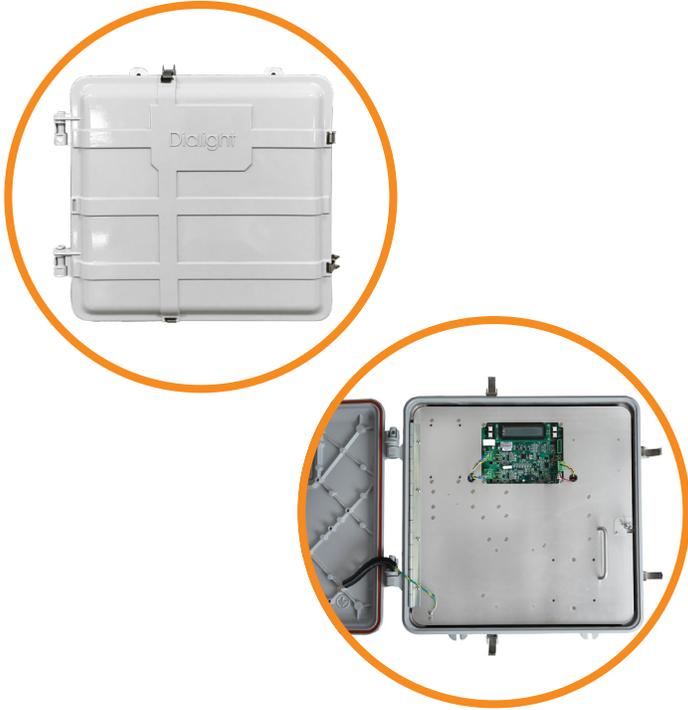
<b>Flash Intensity (nominal):</b>	
<b>Night (Red):</b>	32 cd
<b>IR Wavelength:</b>	peak @ 850nm
<b>Flash Rate:*</b>	
<b>Night (Red)</b>	20/30/40 flashes per min
<b>IR Pulse Rate</b>	20/30/40 flashes per min
<b>Expected Lamp Life</b>	100,000 hours (approx. 10 years)

\*Can also operate as steady burn

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

# Vigilant® LED Controller

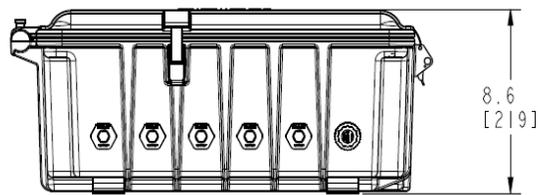
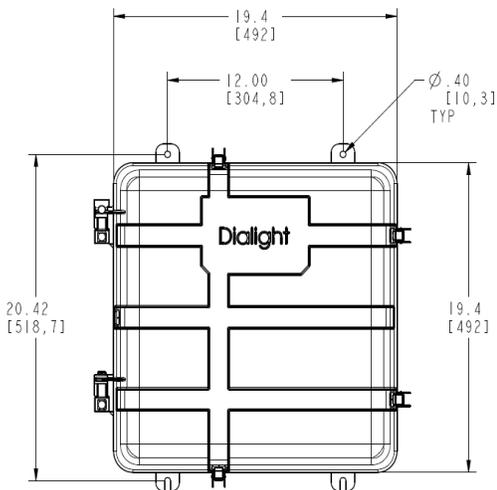
## Medium Intensity (White/Red)



**Controller:**

- Weight:** 49.5 lbs (22.5 kg)
- Operating Temperature:** -40°F to +131°F (-40°C to +55°C)
- Protection Rating:** IP66, NEMA 4X
- 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:**
  - Set the Tower Style ex. E2
  - Flash rates
  - Conduct lighting
  - Inspections

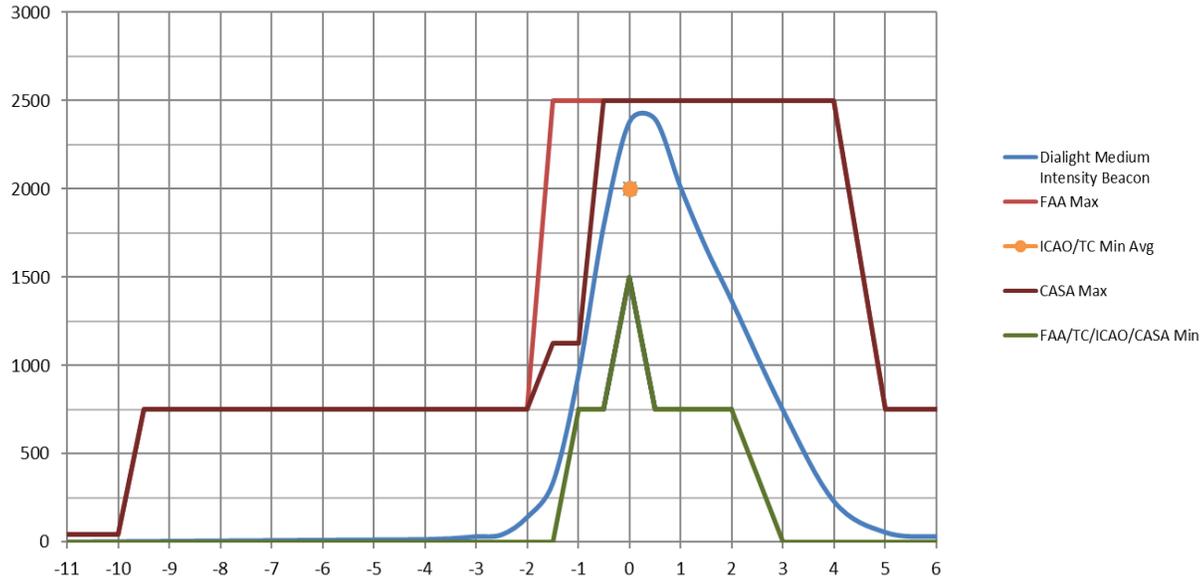
All values typical unless otherwise stated (tolerance +/- 10%)



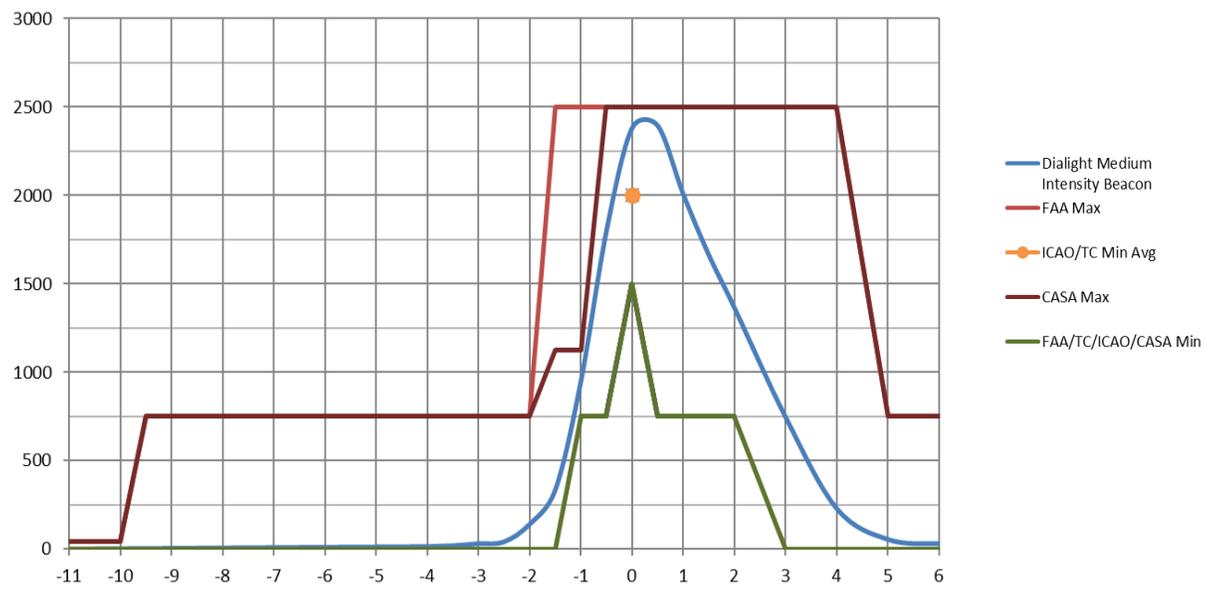
Dimensions in inches [mm]

# Light Output Charts

## Medium Intensity Dual Strobe - White Day

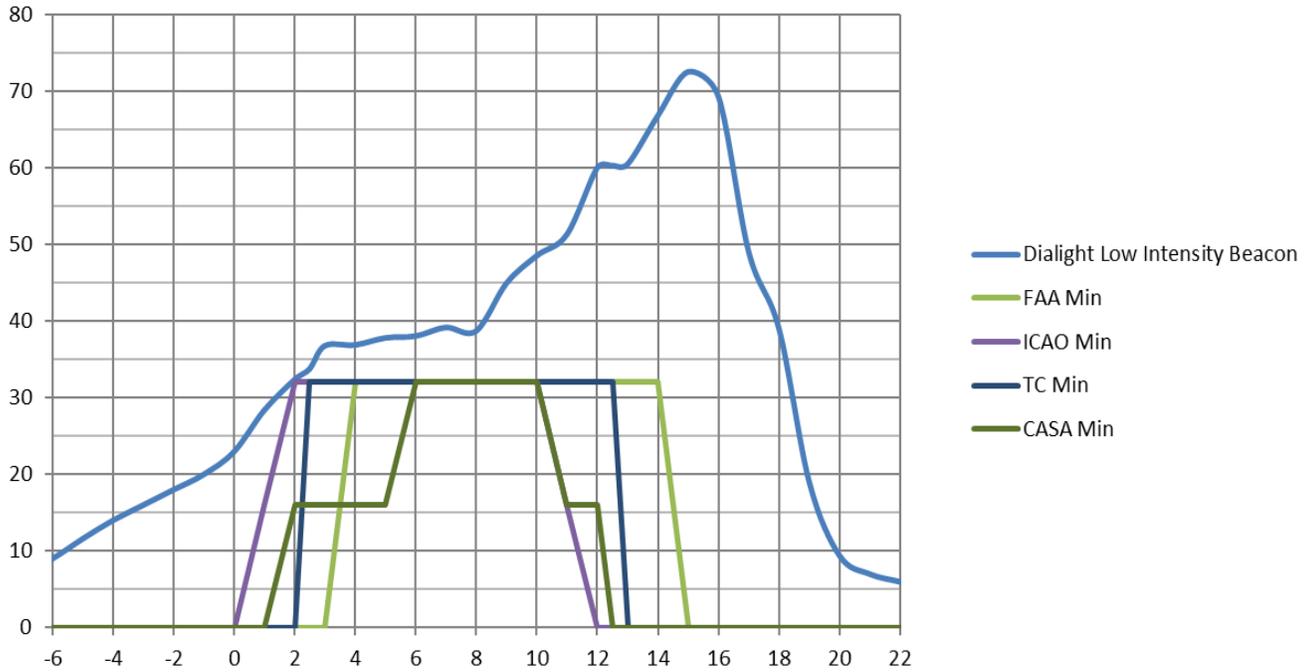


## Medium Intensity Dual Strobe - White/Red-IR Night

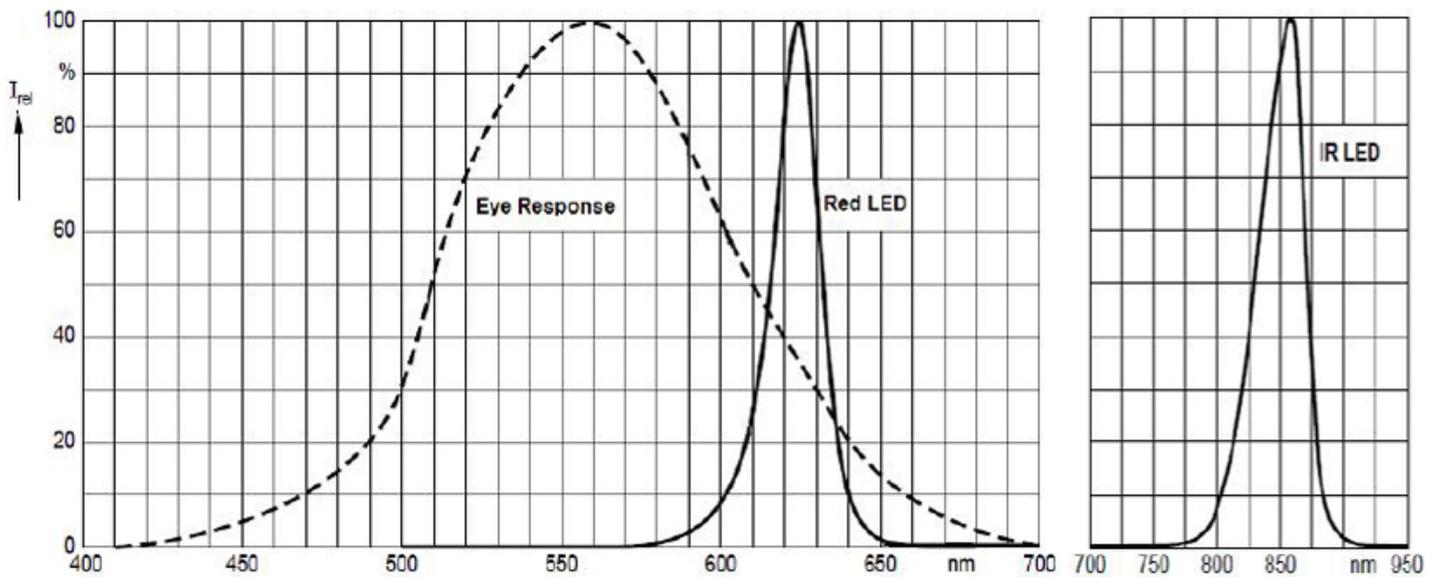


# Light Output Charts

## Low Intensity (Red) Side Marker



## Infrared Wave Length



## Ordering Information: D1CW-C13-409 SYS and D1CW-C14-409 SYS

### Flash Head (L-864/ L-865)

Part Number	Description
D1CWFH409	Dual Red/White Medium Intensity Flash Head w/ IR

### Side Markers (L-810)

Input	Part Number	Description
12-48 VDC	RTOCR08001	L-810 Low Intensity Side Marker w/ IR: DC Input
120-240 VAC	RTOCR07001	L-810 Low Intensity Side Marker w/ IR: AC Input

### Controllers

Input	Part Number	Description
48 VDC	D1CWCTR449	Dual Red/White Medium Intensity Controller w/ IR: DC Input
120-277 VAC	D1CWCTR409	Dual Red/White Medium Intensity Controller w/ IR: AC Input

### Power Supply

Input	Part Number	Description
48 VDC	D1CWPS9449	Dual Red/White Medium Intensity Power Supply w/ IR: DC Input
120-277 VAC	D1CWPS9409	Dual Red/White Medium Intensity Power Supply w/ IR: AC Input

### Photocell

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

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