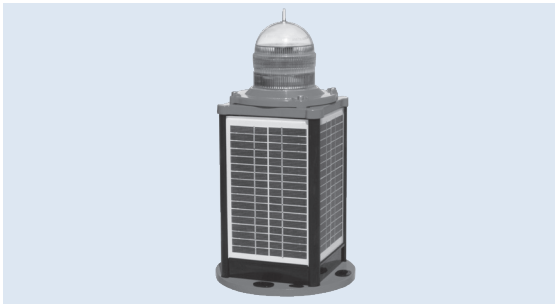
COOPER Crouse-Hinds

AV310

Solar Aviation Light

Compliances:
Low Intensity Type A Obstruction Light, ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, table 6.3
Meets photometrics for FAA AC5345-46D L861T (blue only)



Applications

- Solar Runway Edge Light
- Solar Caution Light
- Solar Threshold Light
- Solar Obstruction Light
- Solar Airstrip Light

The AV310 is a robust, completely self-contained solar powered LED aviation light, designed for a range of installations including strategic and remote runway edge lighting, and obstruction lighting.

Features

- CE Certified CE
- Integrated solar/battery system
- IP68 waterproof rating
- 12Ah SLA battery (user-replaceable)
- 20 ultra-high intensity LEDs
- Robust 7-stage powder-coated aluminium chassis with rubber extruded corners
- 4 hole bolt pattern on 200mm OD base for ease of installation
- LED aviation lens with 360° Omnidirectional LED Reflector
- 4 x 3watt multicrystalline solar modules (user-replaceable), ensuring maximum light collection to charge the battery

Ordering Information

A V 3 1 0 – [ ] – [ ]

Part Number:
AV310

Options

External ON/OFF Switch:
S = External ON/OFF Switch

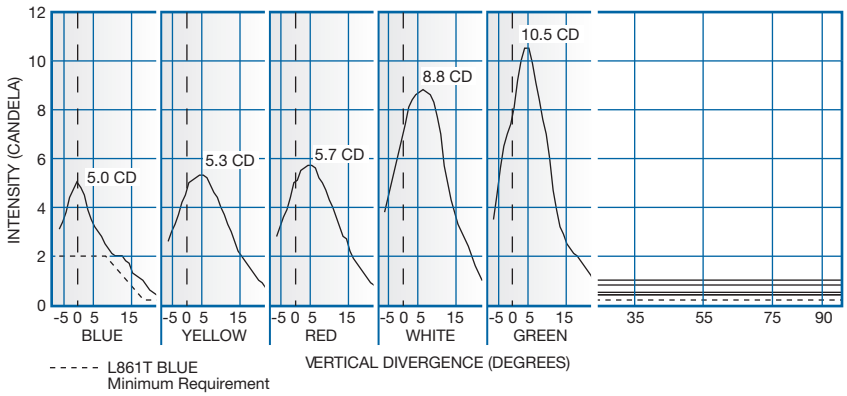
External Battery Charging Port:
CP = External Battery Charging Port

Communication:
GPS = GPS Flash Synchronization

Color (360 degrees):
R = Red
G = Green
W = White
Y = Yellow
A = Amber
B = Blue
IR = IR

Sectored Combinations
Various combinations of colored and IR lights listed above upon request. Please contact Crouse-Hinds with your requirements.

Typical Photometric Data



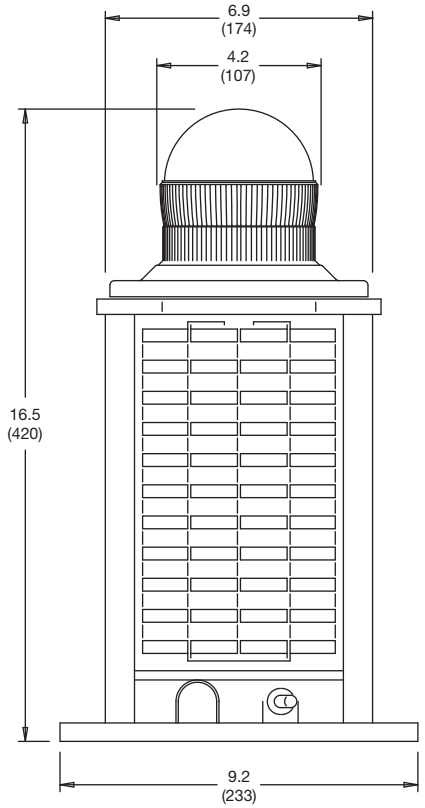
AV310 Steady ON

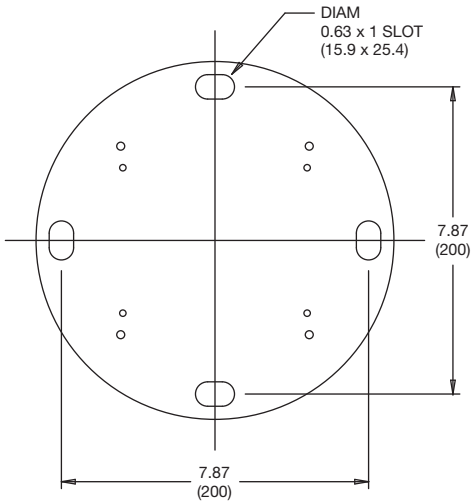
Specifications

Light Characteristics	
Light Source	20 ultra-high intensity LEDs
Available colors	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
Peak Intensity (cd)*	Steady-on: Blue - 5.0 Red - 5.7 Green - 10.5 White - 8.8 Yellow - 5.3 Flashing: Blue - 13.2 Red - 21.6 Green - 39.6 White - 32.9 Yellow - 20.1
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	0 to +12
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)
Available Flash Characteristics	>250 including steady-on (user-adjustable)
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000
Electrical Characteristics	
Current Draw (mA)	Steady-on: 35 Flashing: 120
Circuit Protection	Integrated
Operating Voltage (v)	12
Temperature Range	-40°F to +176°F (-40°C to +80°C)
Solar Characteristics	
Solar Module Type	Multicrystalline
Output (watts)	12 (4 x 3watt)
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled
Power Supply	
Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	12
Nominal Voltage (v)	12
Autonomy (nights)	Steady-on: >39 Flashing: >52 (14 hour darkness, 12.5% duty cycle)
Physical Characteristics	
Body Material	7-stage powder-coated aluminium
Lens Material	LEXAN® Polycarbonate – UV stabilized
Lens Diameter (mm/inches)	107 / 4 1/4
Lens Design	External optics with interior flute design
Mounting	4 x 17mm holes on 200mmPCD
Weight (kg/lbs)	9.1 / 20
Product Life Expectancy	Up to 12 years
Environmental Factors	
Humidity	0 to 100%, MIL-STD-810F
Icing	22kg per square inch
Wind Speed	Up to 160kph
Shock	MIL-STD-202G, Test Condition G, Method 213B
Vibration	MIL-STD202G, Test Condition B, Method 204

* Intensity setting subject to solar availability

Outline Drawing





Dimensions: inches (mm)

Instruction Manual: AV310

Solar Aviation Light Products are manufactured by Avlite Systems, Victoria, Australia.