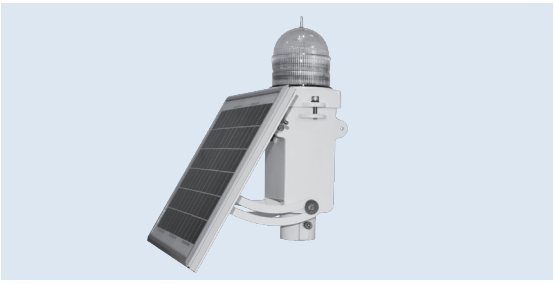
COOPER Crouse-Hinds

AV23

Solar Obstruction Light

Compliances:
Low Intensity Type A Obstruction Light, ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, table 6.3



Applications

- Solar Obstruction Light (LIOL A)

The AV23 is a low intensity solar powered obstruction light designed to offer users years of maintenance-free operation. The unit is completely self-contained and incorporates a large 12watt solar module, 7.5Ah battery, LED light source and advanced driving circuitry.

Features

- CE Certified CE
- Integrated solar/battery system
- ICAO Compliant AV23 Solar Obstruction Light (LIOL A)
- Ultra-high intensity LEDs (no changing globes ever)
- Large 12watt adjustable tilt solar module to maximise solar radiation collection for charging the battery
- Self-cleaning aviation dome lens specifically designed for use with LEDs
- Interchangeable LED flasher unit, and replaceable lens assembly
- 7.5Ah SLA user-replaceable battery in large high-impact resistant housing

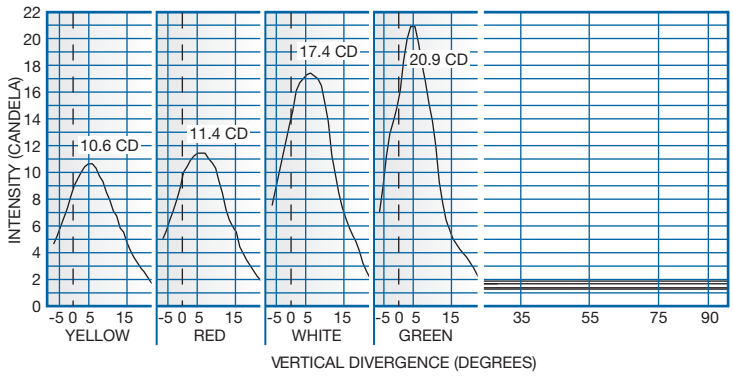
Ordering Information

A	V	2	3	–	

Part Number:
AV23

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

Typical Photometric Data



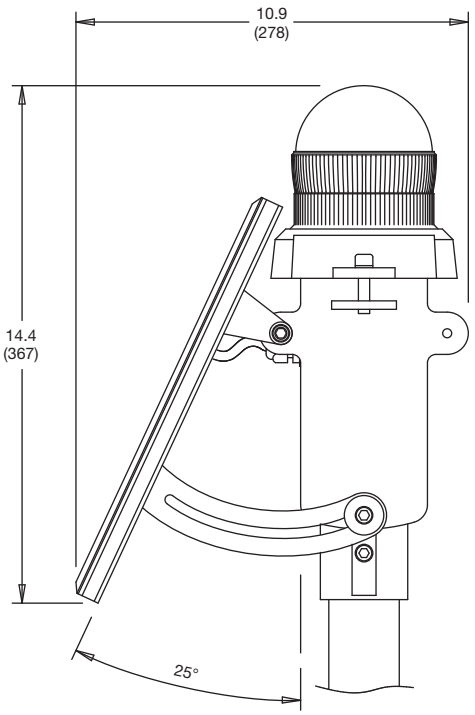
AV23 Steady ON

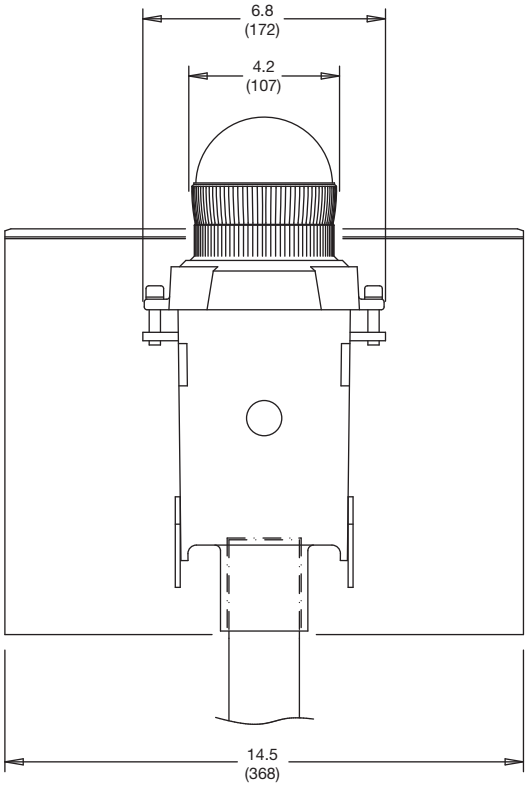
Specifications

Light Characteristics	
Light Source	20 ultra-high intensity LEDs
Available colors	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
Peak Intensity (cd)*	Steady-on: Red - 11.4 Green - 20.9 White - 17.4 Yellow - 10.6 Flashing: Red - 31.9 Green - 58.4 White - 48.5 Yellow - 29.6
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)	180 (nominal)
Circuit Protection	Integrated
Nominal Voltage (v)	12
Temperature Range	-40°F to +176°F (-40°C to +80°C)
Solar Characteristics	
Solar Module Type	Multicrystalline
Output (watts)	12 (1 x 12watt)
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled
Power Supply	
Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	7.5
Nominal Voltage (v)	12
Battery Service Life	Average 5 years
Autonomy (nights)	Steady-on: >10 Flashing: >48 (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	50mm OD pole
Weight (kg/lbs)	5.5 / 12 1/8
Product Life Expectancy	Up to 12 years

* Intensity setting subject to solar availability

Outline Drawing





Dimensions: inches (mm)

Instruction Manual: AV23

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