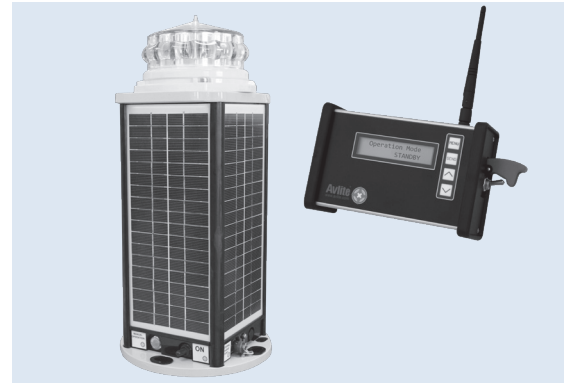


AV425/AV425-RF

Solar Aviation Light

Compliances:

ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004. Runway Edge - paragraph 5.3.9. Appropriate for use as threshold - paragraph 5.3.10, 5.3.11 threshold light or end light Approach - paragraph 5.3.4.1A & B, 5.3.4.8 simple approach lighting system
Meets photometrics for FAA AC/150-5345-46D L861 (High Intensity Mode)



Applications

- Solar Runway Edge Light
- Solar Threshold Light
- Approach (Strobe & Fixed)
- Solar Obstruction Light
- Helipad
- Tactical

The AV425/AV425-RF are robust, completely self-contained LED lights designed for a range of aviation applications. The AV425-RF is fitted with RF radio control, allowing full operation from the tower with no costly cabling or trenching required.

Features

- CE Certified **CE**
- Over 40hrs of continuous operation at FAA non precision MIRLs per AC/150-5345-46D L861 without solar or auxiliary charge
- Over 100hrs of continuous operation at ICAO Annex 14 runway edge, 50cd
- Over 350hrs of continuous operation at ICAO Annex 14 runway edge, 25cd
- 4 Integrated and user-replaceable Solar Panels - Enables continuous operation
- Optional NVG Mode - Illumination invisible to naked eye to support covert operations
- Worldwide 2.4Ghz Encrypted RF Radio Control - Secure control of all operational modes from anywhere on the airfield. Worldwide ISM use frequency
- AvMesh™ integrated Mesh Network - Each light is a receiver/transmitter to expand communication range
- Radio Transceiver - Internal to light head, no external antenna
- Modes of Operation - Programmable lighting groups, dusk-till-dawn operation, adjustable intensity, sequence flashing

Ordering Information



Part Numbers: _____
 AV425 = PC Interface
 AV425-RF = Radio Controlled

Options

- External Battery Charging Port:** _____
 CP = External Battery Charging Port
- Communication:** _____
 CS = RF Comm-Sync Flash Synchronization
- External ON/OFF Switch:** _____
 S = External ON/OFF Switch

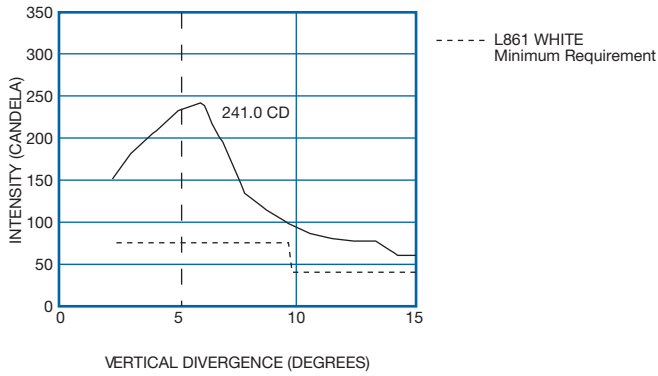
Color (360 degrees): _____
 R = Red
 G = Green
 W = White
 Y = Yellow
 A = Amber
 B = Blue
 IR = IR

Sectored Combinations

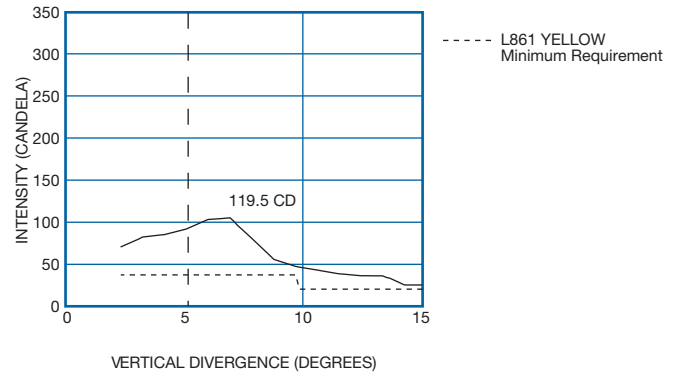
Various combinations of colored and IR lights listed above upon request. Please contact Crouse-Hinds with your requirements.

Note: Compatible with PALC system.

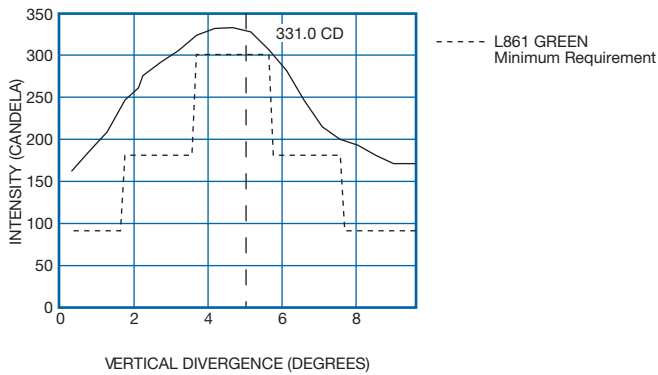
Typical Photometric Data



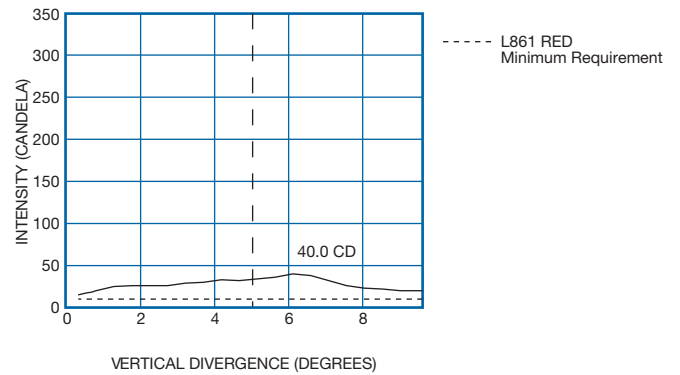
AV425-RF Temp High - White



AV425-RF Temp High - Yellow



AV425-RF Temp High - Green



AV425-RF Temp High - Red

Note: The figures shown in the above graphs are for 100% (Temp High) Mode
The photometric outputs for the AV425-RF are FAA AC150/5345-46D Compliant

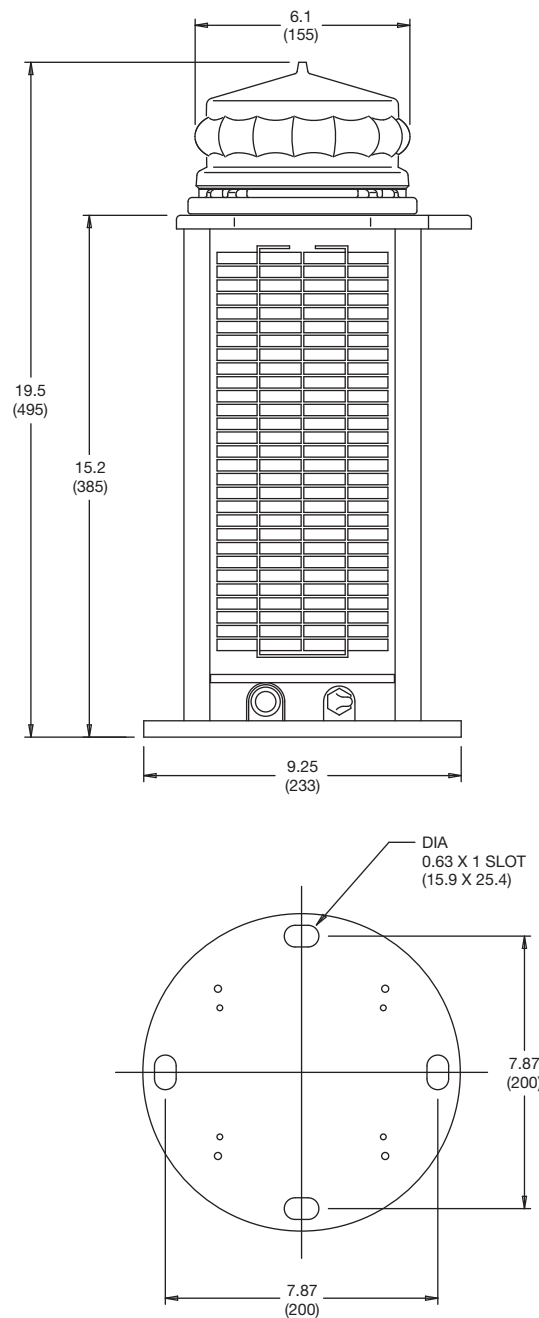


Specifications

Light Characteristics	
Light Source	16 ultra-high intensity LEDs
Available colors	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations, IR
Peak Intensity (cd)*	Steady-on: Red - 40.0 Green - 331.0 White - 241.0 Yellow - 119.5
Horizontal Output (degrees)	As per L861 and L861E
Vertical Divergence (degrees)	As per L861 and L861E
Available Flash Characteristics	>250 including steady-on (user-adjustable) including Morse Code and RF sequenced & synchronised flashing
Intensity Adjustments	Low (10%), Medium (30%), High (100%), or 12% increments
LED Life Expectancy (hours)	>100,000
Electrical Characteristics	
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)	18
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled
Power Supply	
Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	20
Nominal Voltage (v)	12
Autonomy (nights)	Steady-on: Low intensity: >32 (>384 hours) Medium intensity: >9 (>108 hours) High intensity: >3 (>40 hours)
Radio Controlled	
Frequency	2.4Ghz ISM Band
Range	1.4km between 2 lights, relayed
Expandability	Peer to Peer Networking
Approvals	FCC / CE
Physical Characteristics	
Body Material	7-stage powder coated aluminium
Lens Material	LEXAN® Polycarbonate – UV stabilized
Lens Diameter (mm/inches)	155 / 6 1/8
Lens Design	16 segment, multi-focus lens (Patent pending)
Mounting	4 hole bolt pattern on 200mm OD base
Weight (kg/lbs)	14 / 31 1/2
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: Consult factory

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