

The solar-powered AV-70 is designed to require minimal ongoing maintenance. The self-contained unit has two high-performance solar modules to maximize solar collection and provide reliable operation in a range of environmental conditions.

#### KEY FEATURES

- FAA certified to L863B for portable runway and taxiway lights
- Third-party tested for FAA (L861T, Barricade AC 150/5370-2F)
- Buy American Listed
- Updated Switch and External Interface Port (EIP) for external charging and programming
- RF Control using AvMesh® RF Network



#### Easy Installation

Enhance personnel efficiency, eliminate costly trenching, and ensure continuous airfield operations. The AV-70 is your solution for dusk-to-dawn illumination with sustained battery performance.

#### Low Maintenance

The AV-70 integrates the latest solar technology including active maximum power point tracking (MPPT) and enhanced LED optics into a compact, self-contained unit requiring minimal maintenance.

#### Reliable

The rugged design can withstand the harshest environments. Rigorous testing compliant with FAA and MIL standards ensures long-lasting performance.

#### Trusted

Avlite is an industry leader in solar aviation lighting with thousands of installations worldwide tailored for defense, government, civil, and humanitarian aid operations.

# TECHNICAL SPECIFICATIONS

## LIGHT CHARACTERISTICS

|                                    |                                                                  |
|------------------------------------|------------------------------------------------------------------|
| <b>LIGHT SOURCE</b>                | LED                                                              |
| <b>AVAILABLE COLORS</b>            | Blue, White, Yellow, Red, Green, Bi-directional Combinations, IR |
| <b>HORIZONTAL OUTPUT (DEGREES)</b> | 360                                                              |
| <b>INTENSITY ADJUSTMENTS</b>       | 3 Step or 5 Step (Dependent on Variant)                          |
| <b>LED LIFE EXPECTANCY (HOURS)</b> | >100,000                                                         |

## ELECTRICAL CHARACTERISTICS

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| <b>CIRCUIT PROTECTION</b>                      | Integrated                      |
| <b>TEMPERATURE RANGE</b>                       | -40°F to +131°F/ -40°C to +55°C |
| <b>TRANSPORT AND STORAGE TEMPERATURE RANGE</b> | -40°F to +131°F/ -40°C to +55°C |

## SOLAR CHARACTERISTICS

|                                    |                                     |
|------------------------------------|-------------------------------------|
| <b>SOLAR MODULE TYPE</b>           | Monocrystalline                     |
| <b>OUTPUT (WATTS)</b>              | 2.8 (2 x 1.4)                       |
| <b>SOLAR MODULE EFFICIENCY (%)</b> | 21                                  |
| <b>CHARGING REGULATION</b>         | Maximum Power Point Tracking (MPPT) |

## POWER SUPPLY

|                                                |                                        |
|------------------------------------------------|----------------------------------------|
| <b>BATTERY TYPE</b>                            | High grade Nickel Metal Hydride (NiMH) |
| <b>BATTERY CAPACITY (AH)</b>                   | B1: 8.6<br>B2: 17.2                    |
| <b>NOMINAL VOLTAGE (V)</b>                     | 3.6                                    |
| <b>PROGRAMMING/CHARGER</b>                     | Internal (DC)                          |
| <b>EXTERNAL INTERFACE PORT RATED POWER (W)</b> | 5                                      |
| <b>INPUT VOLTAGE (V)</b>                       | 3.6                                    |

## RADIO CONTROL

|                      |                              |
|----------------------|------------------------------|
| <b>FREQUENCY</b>     | 2.4GHz ISM Band              |
| <b>RANGE</b>         | Up to 0.87mi (1.4Km) relayed |
| <b>EXPANDABILITY</b> | AvMesh (R)                   |
| <b>COMPLIANCE</b>    | FCC/ EMC/ Anatel             |

## PHYSICAL CHARACTERISTICS

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| <b>BODY MATERIAL</b>      | UV-stabilized LEXAN® Polycarbonate                   |
| <b>BODY COLOR OPTIONS</b> | Aviation Yellow (Optional Desert Tan and Olive Drab) |
| <b>LENS MATERIAL</b>      | UV-stabilized LEXAN® Polycarbonate                   |
| <b>LENS DESIGN</b>        | Single and Multi- LED Optic                          |
| <b>MOUNTING</b>           | 6 x 17mm holes on 200mm PCD                          |
| <b>HEIGHT (INCHES/MM)</b> | 9.45 inches/ 240mm                                   |
| <b>WIDTH (INCHES/MM)</b>  | 9.09 inches/ 231 mm                                  |
| <b>MASS (LBS/KG)</b>      | B1: 3.1/1.4kg<br>B2: 3.7/1.7kg                       |
| <b>SERVICE LIFE</b>       | Up to 12 Years                                       |

## ENVIRONMENTAL STANDARDS

|                   |                                             |
|-------------------|---------------------------------------------|
| <b>SHOCK</b>      | MIL-STD-202G, Test Condition G, Method 213B |
| <b>VIBRATION</b>  | MIL-STD-202G, Test Condition B, Method 204  |
| <b>WIND SPEED</b> | Up to 100mph (160kph)                       |
| <b>HUMIDITY</b>   | 0 to 100%, MIL-STD-810F                     |
| <b>INGRESS</b>    | IP68                                        |

## COMPLIANCE

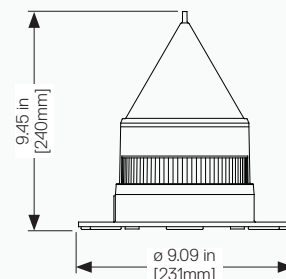
|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>AFAC</b>              | FAA AC150/5345-46E, L-861T                                                                                                     |
| <b>EMC</b>               | CFR 47, Chapter 1, Subpart A, Part 15, Subpart B (Class A)                                                                     |
| <b>FAA</b>               | AC150/5345-46E, AC150/5345-50B, L-861T, L-863B<br>LED Color Standard (Engineering Brief No. 67D)                               |
| <b>QUALITY ASSURANCE</b> | ISO 9001:2015                                                                                                                  |
| <b>TRADEMARKS</b>        | AVLITE® is a registered trademark of Avlite Systems, a family brand of SPX Aids to Navigation (a division of SPX Technologies) |

## OTHER

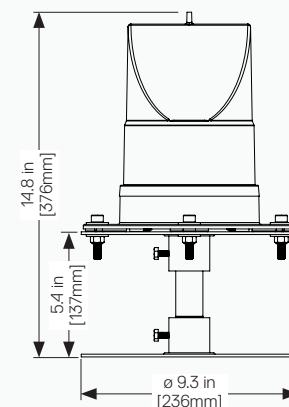
|                 |                                                            |
|-----------------|------------------------------------------------------------|
| <b>WARRANTY</b> | Please refer to the Warranty Section of the Product Manual |
|-----------------|------------------------------------------------------------|

## TECHNICAL DRAWINGS

### SIDE



### AV-70 WITH FRANGIBLE CONCRETE MOUNT (OTHER MOUNTING OPTIONS AVAILABLE)



## CONFIGURATION

|                          |                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODEL</b>             | AV-70                                                                                                                                                                     |
| <b>CERTIFICATIONS</b>    | FAA 861T, FAA 863B, GA                                                                                                                                                    |
| <b>LED CONFIGURATION</b> | Omni-directional Blue (Taxiway)<br>Omni-directional White<br>Omni-directional Yellow<br>Omni-directional Green<br>Bi-directional Red/Green<br>Bi-directional White/Yellow |
| <b>BATTERY SIZE</b>      | 8.6Ah NiMH Battery (B1)<br>17.2Ah NiMH Battery (B2)                                                                                                                       |
| <b>STANDARD FEATURES</b> | Yellow Body                                                                                                                                                               |
| <b>OPTIONS</b>           | IR for NVG Applications<br>Switch<br>External Interface Port (EIP)<br>EF, EIP<br>Desert Tan Body<br>Olive Drab Body                                                       |