

# Solar Low-Intensity Obstruction Light

## AV-OL-75 Avlite

### Compliance and Applications

- Meets ICAO Annex 14, Volume 1, Aerodrome Design and Operations, Sixth Edition (July 2013), Table 6.3 – Low-Intensity Obstruction Light Type A

The AV-OL-75 is a next-generation, self-contained solar light designed to comply with ICAO Low-Intensity Type A requirements.

### Features

- Solar-powered, self-contained
- Dual high-performance solar modules
- Tough UV-stabilized LEXAN® polycarbonate lens and light base
- Easy to handle and install
- Bluetooth® connectivity for convenient servicing
- Optional Satcom or GSM connectivity
- Optional switch and charge port

### Optional Satcom or GSM Connectivity

The AV-OL-75 can be fitted with Satcom or GSM connectivity, enabling users to access real-time diagnostic data. These telemetry options connect to our Star2M® Web Portal for complete asset management, monitoring, and control.

### Bluetooth® for Monitoring

Using the new Bluetooth®-connected mobile application, the AV-OL-75 can be monitored from distances of up to 50 meters. A built-in solar calculator confirms the light's ability to operate at the selected location, ensuring optimal performance.

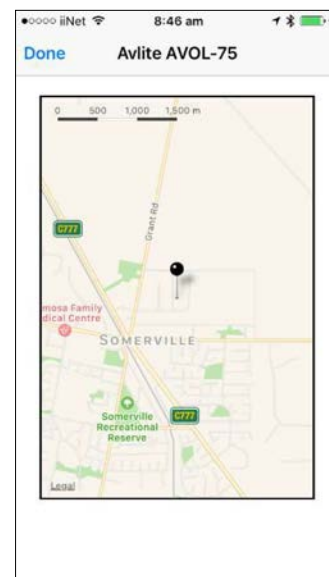
### Small Form Factor

The compact, self-contained AV-OL-75 is the smallest and lightest ICAO-compliant Type A obstruction light on the market.

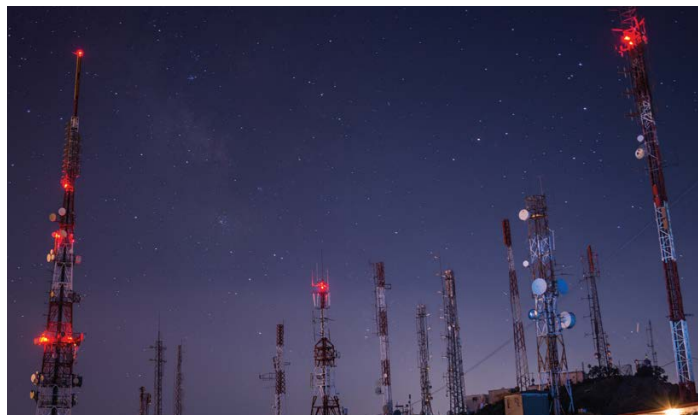
### Dual High-Performance Solar Modules

The AV-OL-75 features dual high-performance solar modules that are angled to maximize sunlight capture, allowing the unit to operate reliably in a wide range of low-sunlight environments.

The two built-in, high-performance solar panels charge the 17.2 Ah (B2 only), 21.5 Ah (B3 only), or 28.8 Ah (B4 only) battery during daylight hours, while an internal light sensor detects ambient light to provide true self-sufficient dusk-to-dawn operation.



Use Bluetooth® to monitor light status and geolocation



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## AV-OL-75

## B2

## B3

## B4

## Light Characteristics

|                             |                                     |
|-----------------------------|-------------------------------------|
| Light Source                | LED                                 |
| Available Colours           | Red                                 |
| Minimum Intensity           | Complies with ICAO Type A           |
| Available Operation Modes   | Stand by, steady-on, dusk till dawn |
| LED Life Expectancy (hours) | > 100,000                           |

## Electrical Characteristics

|                   |             |
|-------------------|-------------|
| Operating Voltage | 3.6         |
| Temperature Range | -40 to 55°C |

## Solar Characteristics

|                     |                           |
|---------------------|---------------------------|
| Solar Module Type   | Monocrystalline           |
| Output (Watts)      | 5 (2 x 2.5 Watts)         |
| Charging Regulation | Microprocessor controlled |

## Power Supply

|                                                      |                             |           |           |
|------------------------------------------------------|-----------------------------|-----------|-----------|
| Battery Type                                         | Nickel Metal Hydride (NiMH) |           |           |
| Battery Capacity (Ah)                                | 17.2                        | 21.5      | 28.8      |
| Nominal Voltage (V)                                  | 3.6                         |           |           |
| Operating time at maximum intensity (without Satcom) | 213 hours                   | 266 hours | 356 hours |

## Physical Characteristics

|                           |                                      |              |              |
|---------------------------|--------------------------------------|--------------|--------------|
| Body Material             | LEXAN® Polycarbonate – UV stabilized |              |              |
| Lens Material             | LEXAN® Polycarbonate – UV stabilized |              |              |
| Lens Diameter (mm/inches) | 140 / 5 1/2                          |              |              |
| Lens Design               | TIR                                  |              |              |
| Mounting                  | 6 x 17 mm holes on 200mm PCD         |              |              |
| Height (mm/inches)        | 313 / 12 1/3                         |              |              |
| Height (mm/inches) SATCOM | 364 / 14 1/3                         |              |              |
| Width (mm/inches)         | 231 / 9 1/8                          |              |              |
| Mass (kg/lbs)             | 2.35 / 5 1/8                         | 2.55 / 5 5/8 | 2.93 / 6 1/2 |
| Mass with Satcom (kg/lbs) | 2.55 / 5 1/2                         | 2.7 / 6      | 3.08 / 6 3/4 |
| Service Life              | 12 years plus                        |              |              |

## Environmental Standards

|            |                                             |
|------------|---------------------------------------------|
| Shock      | MIL-STD-202G, Test Condition G, Method 213B |
| Vibration  | MIL-STD-202G, Test Condition B, Method 204  |
| Wind Speed | Up to 160kph / 100mph                       |
| Humidity   | 0 to 100%, MIL-STD-810F                     |

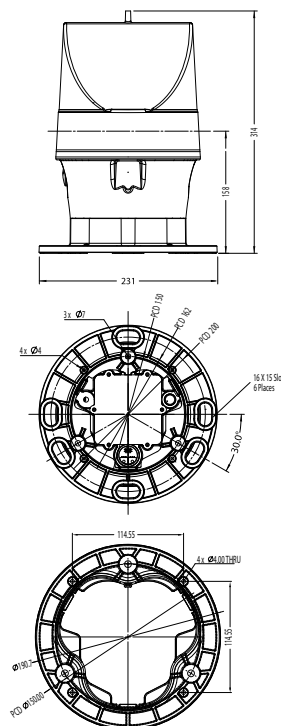
## Compliance

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| CE                | EN61000-6-4:2019 EN61000-6-3:2019                   |
| Quality Assurance | ISO9001:2015                                        |
| ICAO              | Low Intensity Obstruction Light Type A              |
| Waterproof        | IP68                                                |
| Trademarks        | AVLITE® is a registered trademark of Avlite Systems |

## Other

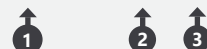
|                      |                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warranty *           | 3 years                                                                                                                                                         |
| Options Available    | Satcom Connectivity, GSM Monitoring, External On/Off Switch, Charge Port                                                                                        |
| Terms and Conditions | Please refer to the light installation manual for further specifications.<br>Warranty Terms and Conditions - <a href="http://www.avlite.com">www.avlite.com</a> |

## Technical Specifications



## Ordering This Product

AV-OL-75-ICAO -[XX]-[XX]



## 1 Product Name

## 2 Battery Configuration

|    |                     |
|----|---------------------|
| B2 | 17.2Ah NiMH Battery |
| B3 | 21.5Ah NiMH Battery |
| B4 | 28.8Ah NiMH Battery |

## 3 Option Configuration

|    |                                 |
|----|---------------------------------|
| 00 | No Options                      |
| 01 | Switch                          |
| 02 | Charge Port                     |
| 03 | Charge Port and Switch          |
| 04 | SAT only                        |
| 05 | SAT with Switch                 |
| 06 | SAT with Charge Port            |
| 07 | SAT with Charge Port and Switch |
| 08 | GSM Only                        |
| 09 | GSM with Switch                 |
| 10 | GSM with Charge Port            |
| 11 | GSM With Charge Port and Switch |