Quick Start Guide

AV-OL-310

Introduction

The purpose of this Quick Start Guide is to present a brief summary of the steps involved in deploying your Avlite provided self-contained solar light. Your product will consist of a prewired and preassembled AV-OL-310 solar light fixture.

» AV-OL-310

Avlite's self-contained solar light fixture is a steady burning, low intensity LED obstruction light designed to comply with FAA L-810 and ICAO LIOL Type A and B requirements. The model can be used for marking obstacles of up to 45 meters above ground level such as telecommunication towers, wind turbines, buildings and other tall structures.

» Theory Of Operations

The solar module of the light converts sunlight to an electrical current that is used to charge the battery during daylight hours. The battery provides power to operate the light at night. For optimum solar charge performance, it is recommended that the unit is orientated with the solar panels facing East-West.

FAA: By default, the lights are designed to turn ON when the ambient light decreases to not less than 35 foot-candles (376.7 lux) and turn OFF when the ambient light increases to not more than 60 foot-candles (645.8 lux). These limits can be factory adjusted, if required.

ICAO: By default, the lights are designed to turn ON when the ambient light decreases to not less than 100 lux and turn OFF when the ambient light increases to not more than 150 lux. These limits can be factory adjusted, if required.

1 Activate the Light Head

Remove the four socket-head cap screws on the lens assembly (Item 8).

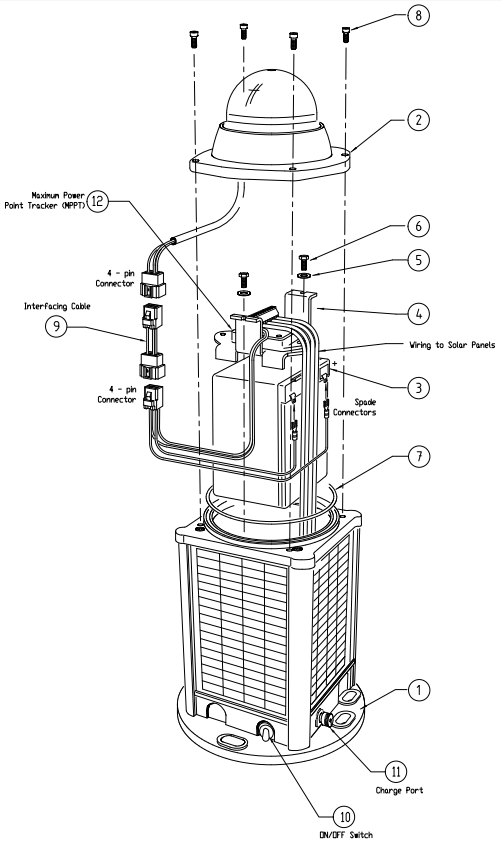
Next, remove the 6 Phillips Head Screws from the underside of the light head and remove Access Cover (GSM and SATCOM models also require the removal of the communications board with 4 Phillips Head Screws).

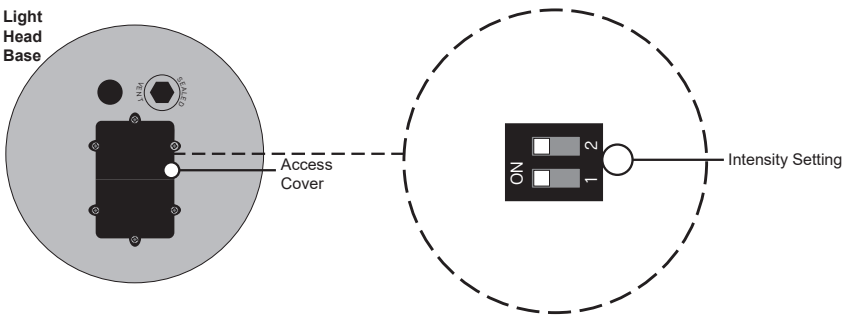
Set the Intensity Dip switch to the required settings.
Replace the Access Cover and connect the 4 Pin connectors (Item 9) to power up the unit (Replace the communications board if applicable).

Place the top lens assembly back onto the light body and replace 4 x socket head screws. Recommended torque settings for Fitment of Light Heads to Solar Base units using the supplied 4 Hex Bolts is 3Nm for a satisfactory seal.

Note: Applying a higher Torque setting is not recommended and may void warranty. If in doubt, please contact your local Avlite representative.

Check the O-ring and ensure that it is fitted correctly in the O-ring groove.





Item	Description	Quantity
1	AV-OL-310 Composite Base	1
2	AV-OL-310 Lens Assembly	1
3	Battery 12V	1
4	Battery Clamp	1
5	Washer M4	2
6	M2 Cap Screw	2
7	O-Ring, ID 145 x 4.0	1
8	Socket Head Screw M4 x 16	4
9	Interfacing Cable	1
10	ON/OFF Switch	1
11	Charge Port	1
12	Maximum Power Point Tracker (MPPT)	1

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2 Test AV-OL-310

Place a dark cover (towel or jacket) on top of the light to activate the sensor and ensure that the light turns on.

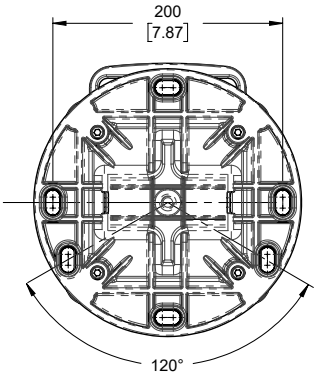
3 Charge the Battery

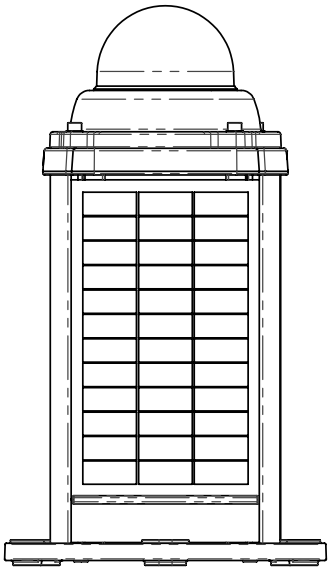
New lights should be left in the sun for several days to ensure the battery is charged before placing in service.

4 Install the AV-OL-310

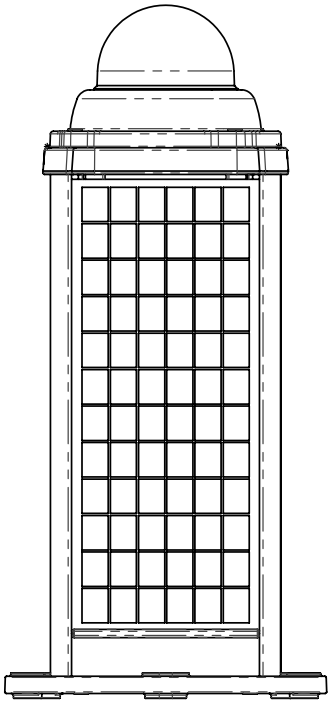
The AV-OL-310 is able to be installed on any appropriately reinforced mounting point with a 200 PCD. Alternatively, the appropriate mounting accessories can be purchased from Avlite.

Note: For best light performance, ensure solar modules are not covered and are in clear view of the sky with no shadows.

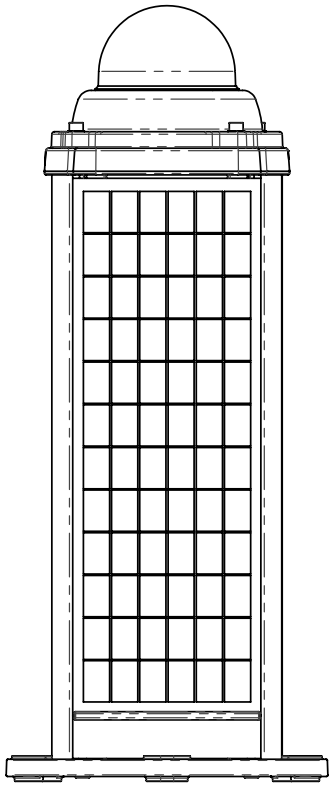




AV-OL-310 Base Compact



AV-OL-310 Base Standard



AV-OL-310 Base Extended

Need more information?

Please see the AV-OL-310 Installation and Service Manual at www.avlite.com for more Operation and Installation information.

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