

## SATO Solar Aviation Taxiway Obstruction Light

### Compliance with Standards

Solar LED Aviation and Obstruction Lights are certified to: CSA, UL, CE, FCC, RoHS, ICAO, IP68/Nema6P, Explosive Atmosphere MIL-STD-810G, Method 511.5

### Uses

The SATO is a self-contained, high-performance, low-maintenance and easy-to-install solar-powered light source for permanent, temporary or emergency lighting in aviation and industrial environments. Applications include: taxiway edge lighting; apron edge lighting; emergency airfield and helipad lighting; construction barricade lighting on airfields; and obstruction lighting.

### Features

- Easy installation and relocation: no specialized work crew required, limited air traffic disruption and lights are immediately operational. The SATO can also be quickly relocated for temporary or emergency applications.
- Self-contained and low maintenance: all components are incorporated within a compact, stand-alone unit. The SATO also features a replaceable battery pack that extends the service life beyond five years, reducing the total cost of ownership and resulting in significant cost savings.
- Intelligent settings: the first solar product to incorporate intelligent deployment location settings that allow the SATO to tune its intensity to its location, protecting itself against improper configuration.
- Unprecedented reliability: microprocessor Energy Management System (EMS) monitors and adapts the light to environmental conditions for consistent operation and long life under the toughest conditions.
- Designed and tested to toughest industrial standards: MIL-STD-202G: Humidity, Immersion, Vibration, Shock; MIL-STD-810F: Solar radiation, Salt Fog; EN 60945: ESD, EMI, EMC; IP68; L70. The SATO is acceptable for barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E. The SATO Blue is compliant with the requirements of ICAO Annex 14, Volume 1, Fourth Edition dated July 2004 (ETL Certified).
- User friendly: easy configuration and programming options including: on-board user interface, infrared remote and Device Manager software through USB connection. Optional programmable external switch.
- Green solution: a clean, renewable and reliable energy source with the lightest environmental footprint. The SATO features recyclable batteries and is entirely RoHS compliant.



LED  
PRODUCT

Ordering Code	SATO-XXX00
<b>Color</b>	
1 = Red	
2 = White	
3 = Blue	
4 = Green	
5 = Yellow	
<b>Switching</b>	
0 = No switch	
1 = Switch	
<b>Lens</b>	
1 = Clear	

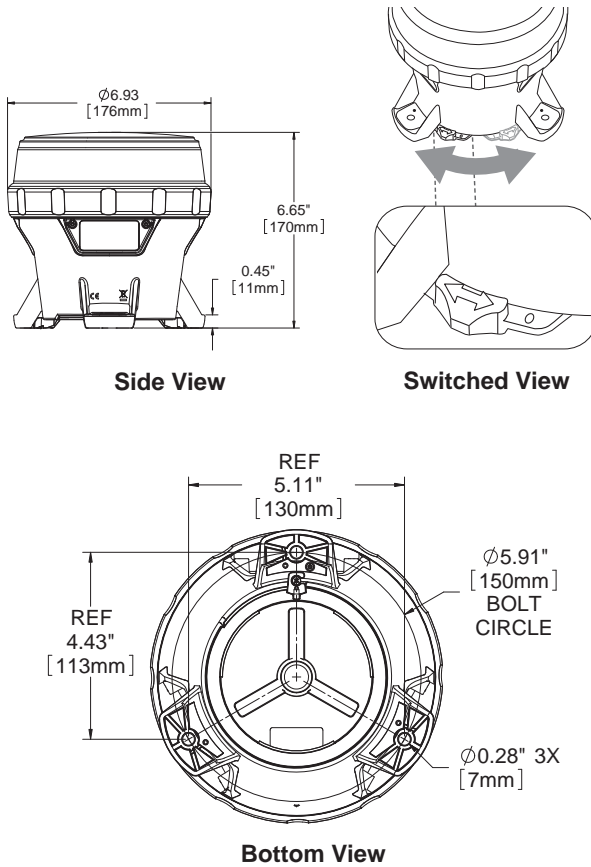
### Equipment Data

Solar Panel	High-efficiency cells with bypass and blocking diode function. Maximum power point tracking (MPPT) for optimal energy collection.
Battery	Tool-less replaceable and recyclable best-in-class battery pack with extreme temperature range. Battery status feedback of Good, Charge or Bad (Replace).
Light Source	High power LED. Color-specific temperature corrected LED drivers provide consistent intensity under all operating conditions.
Intensity	10 cd intensity, steady-on (see photometric plot on reverse). 18 cd peak intensity, flashing, 12.5% duty cycle (Red LEDs).
Flash Patterns	256+
Construction	Premium grade UV resistant, polycarbonate/polysiloxane co-polymer body and lens material. Double O-ring sealing with waterproof vent.
Colors	Blue, Red, Yellow, Green and White. ICAO and SAE25050 (FAA) compliant chromaticity.
Ambient Operating Temperature	-45 to 124 °F (-43 to 51 °C) The SATO will function up to 190 °F (88 °C) internal and surface temperatures.
Storage Temperature	-45 to 176 °F (-43 to 80 °C)
Color Indicator	Yes, FAA Engineering Brief No. 67 compliant.
Weight	3.5 lb (1.58 kg)
Wind Loading	400 mph (180 m/s)
Automatic Light Control (ALC)	When enabled, ALC will dynamically reduce brightness in response to unusually low amounts of sunlight to ensure continued operation.

### Features (Continued)

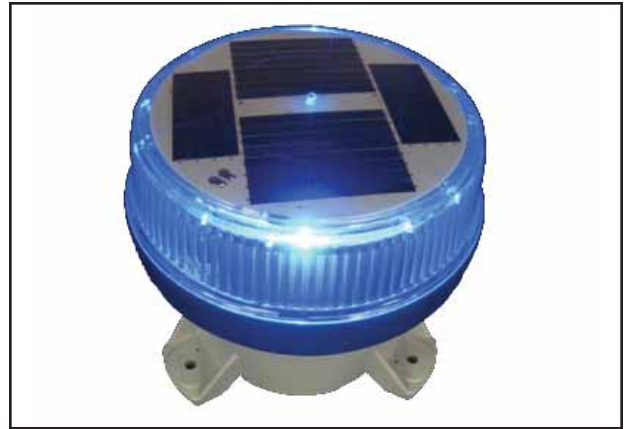
- Up to 10 cd of intensity (steady-on, green, equatorial).
- Replaceable and recyclable battery pack.
- Intuitive on-board user interface.
- Dusk-to-Dawn operation.
- Optional external switch.
- Intelligent deployment location settings protect against improper configuration.

### Technical Drawings and Dimensions

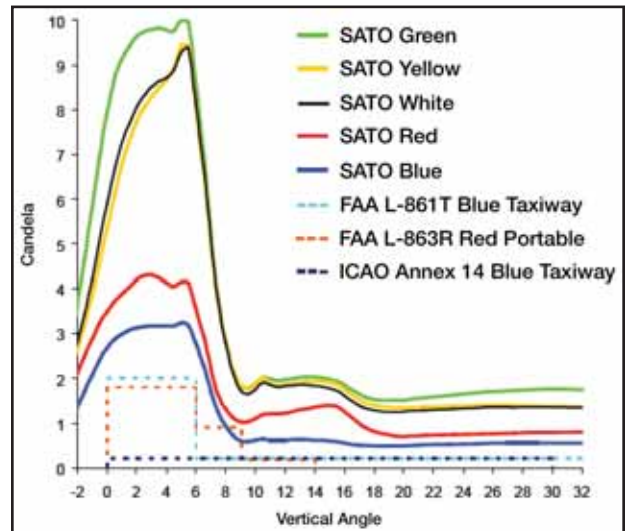


### Programming and Configuration Options

The information contained in this document is subject to change without notice. ADB reserves the right to make changes and improvements to its products and assumes no responsibility for making these modifications on any equipment previously sold.



### Photometric Data



**Note:** Intensity dependent on location. Based on equatorial location of 12-hour night duration and steady-on (001) flash code.

### Spare Components

For a complete list of solar aviation light accessories, including mounting equipment, see Catalog Sheet #3017.