



aviationrenewables

# SPECS SOLAR TAXIWAY LIGHT



The A650 meets traditional airfield requirements for taxiways and general purpose marking.

- ✦ ICAO and FAA compliant
- ✦ Intensity greater than 10 candela
- ✦ Dusk to dawn or ondemand operation
- ✦ Infrared LEDs for NVG compatibility available

## Applications

- ✦ Taxiway and apron edge
- ✦ Construction, barricades and fences
- ✦ Temporary and permanent markings
- ✦ Helipads
- ✦ Hazard marking

## Compliant Output

FAA L-861T and ICAO Annex 14. The A650 wireless blue is compliant with the requirements of ICAO Annex 14 Volume 1 6th edition.

## Easy Installation and Relocation

No specialized work crew required. Lights are immediately operational with limited air traffic disruption. The A650 can be quickly relocated for temporary or emergency applications.

## Self-Contained and Low Maintenance

All components are incorporated within a compact, stand-alone unit. The A650 features a replaceable battery pack that extends the service life beyond 5 years, reducing the total cost of ownership and resulting in significant cost savings.

## Unprecedented Reliability

Energy Management System (EMS) monitors and adapts the brightness to environmental conditions for consistent operation and long life under the toughest conditions.

## User-Friendly

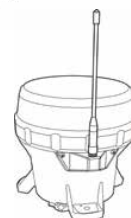
Easy configuration and programming options, including onboard user interface, Infrared Programmer and device manager software through USB connection or optional wireless control system offering secure 900 MHz.



A650 Non-Wireless



Optional Infrared Programmer



A650 Wireless



- Optional Handheld Controller
- 2.5 mi (4 km) control range
  - 900 MHz with encrypted signal
  - Control 8 groups of lights independently

**Address**  
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BC Canada, V8T 1E1

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TECHNOLOGY

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## SPECIFICATIONS

|                                       |  |
|---------------------------------------|--|
| Compliance                            | FAA L-861T per AC 150/5345-46D   |
|                                       | ICAO Annex 14 Vol 1, 5th edition blue taxiway light  |
|                                       | Barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E |
| 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 battery pack with extreme temperature range                                  |
|                                       | Battery status feedback of good, charge or bad (replace)   |
|                                       | 2500 cycles or 7-year lifetime on average  |
| Light Source                          | High-powered LED   |
|                                       | Color-specific temperature-corrected LED drivers provide consistent intensity under all operating conditions       |
| Intensity                             | Greater than 10 cd intensity, steady-on in certain colors  |
| Flash Patterns                        | 256+ (non-wireless)  |
|                                       | Steady-on mode and flash patterns (wireless)   |
| 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, white and red/green  |
|                                       | ICAO and SAE25050 (FAA) compliant chromaticity   |
| Operating Temperature                 | NVG-compatible infrared LEDs (wireless only)   |
|                                       | -45 to 124 °F (-43 to 51 °C) ambient temperature   |
|                                       | Functions up to 190 °F (88 °C) internal and surface temperatures   |
| Storage Temperature                   | -45 to 176 °F (-43 to 80 °C)   |
| Color Indicator                       | Yes, FAA Eng. Brief 67 compliant   |
| Weight                                | 3.5 lbs (1.6 kg)   |
| Wind Loading                          | 400 mph (644 kph)  |
| Automatic Light Control (ALC)         | When enabled, automatically adjust to low levels of sunlight to ensure continuous operation                        |
| Radio Receiver                        | 900 MHz ISM (wireless)   |
| Range                                 | Up to 2.5 mi (4 km) (wireless)   |
| Humidity, Immersion, Vibration, Shock | MIL-STD-202G   |
| Ingress                               | EN 60945 ESD, EMI, EMC; IP68; L70  |
|                                       | MIL-STD-810G solar radiation & salt fog  |

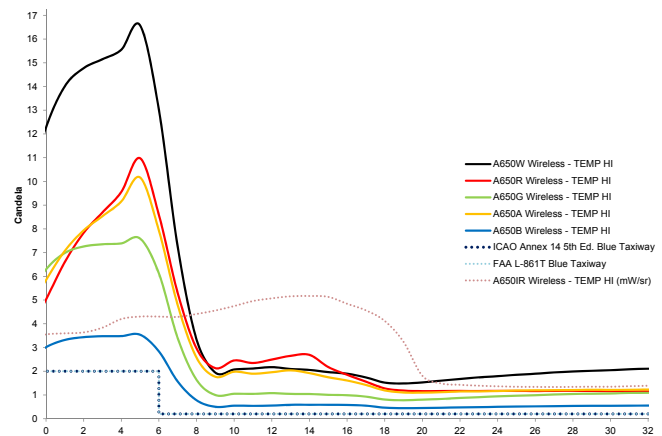
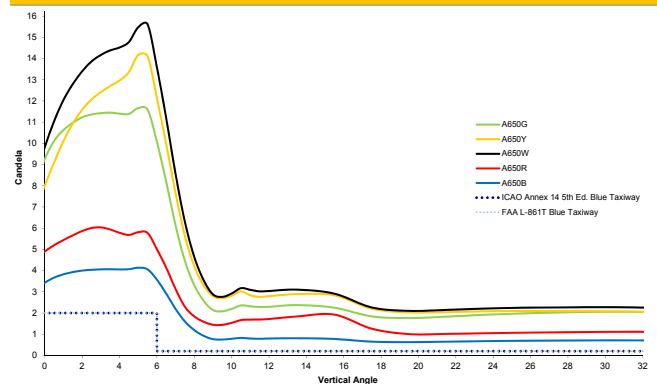
## CONFIGURATION

| Model | Output    |        | Switch       | Control      |
|-------|-----------|--------|--------------|--------------|
| A650  | Red       | White  | Non-switched | Non-wireless |
|       | Green     | Yellow |              |              |
|       | Red/Green | Blue   | Switched*    | Wireless*    |



\*A650 wireless version must have switch.

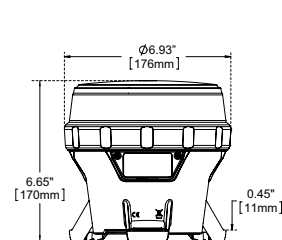
## A650 INTENSITY



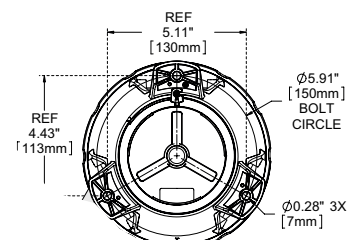
## DIMENSIONS

Side View

Bottom View

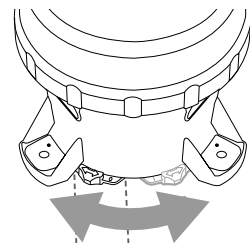
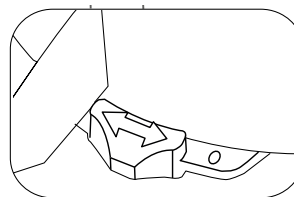


Total height including wireless antenna is 10.9" (276 mm)



Also available with 77/8" (200 mm) bolt circle adapter

Switched View\*



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