carmanah®

# A650

## SOLAR TAXIWAY AND BARRICADE LIGHT

Meets traditional airfield requirements for taxiways and general purpose marking.

- ICAO and FAA compliant
- Greater than 10 cd of intensity
- Dusk-to-dawn or on-demand operation
- NVG compatible IR LEDs available

### Applications

Taxiway and apron edge

Construction, barricades and fences

Temporary or 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, Sixth Edition (2013).

### 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 five 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.

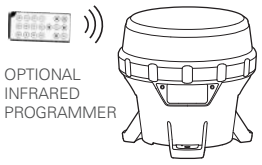
### Designed and Tested to Tough Industrial Standards

MIL-STD-202G Humidity, Immersion, Vibration, Shock; MIL-STD-810G: Solar Radiation, Salt Fog; EN 60945: ESD, EMI, EMC; IP68; L70. The A650 is acceptable for barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E.

### User Friendly

Easy configuration and programming options including: on-board user interface, infrared remote and device manager software through USB connection or optional wireless control system offering secure 900 MHz.

**REPRESENTED IN YOUR REGION BY:**




NON-WIRELESS A650

WIRELESS A650



OPTIONAL HANDHELD CONTROLLER

- 4 km (2.5 m) control range
- 900 MHz with encrypted signal
- Control 8 groups of lights independently

# A650

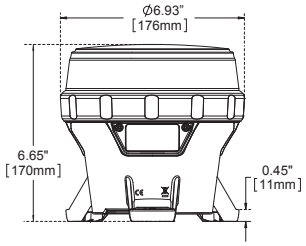
## SOLAR TAXIWAY AND BARRICADE LIGHT

## SPECIFICATIONS

| | |
|---|---|
| Solar Panel | High-efficiency cells with bypass and blocking diode function<br>Maximum power point tracking (MPPT) for optimal energy collection |
| Battery | Tool-less, replaceable and recyclable best-in-class battery pack with extreme temperature range<br>Battery status feedback of Good, Charge or Bad (Replace) |
| Light Source | High power LED<br>Colour-specific temperature corrected LED drivers provide consistent intensity under all operating conditions |
| Intensity | Greater than 10 cd intensity, steady-on (see photometric plots) |
| 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<br>Double O-ring sealing with waterproof vent |
| Colours | Blue, Red, Yellow, Green and White<br>ICAO and SAE25050 (FAA) compliant chromaticity<br>NVG-compatible infrared (IR) LEDs (wireless only) |
| Operating Temperature | -43 to 51 °C (-45 to 124 °F) ambient temperature<br>The A650 will function up to 190 °F (88 °C) internal and surface temperatures |
| Storage Temperature | -43 to 80 °C (-45 to 176 °F) |
| Colour Indicator | Yes, FAA Eng. Brief 67 compliant |
| Weight | 1.6 kg (3.5 lb) |
| Wind Loading | 644 kph (400 mph) |
| Automatic Light Control (ALC) | When enabled, ALC will dynamically reduce brightness in response to unusually low amounts of sunlight to ensure continued operation |
| Radio Receiver | 900 MHz ISM (wireless) |
| Range | Up to 4 km (2.5 m) (wireless) |

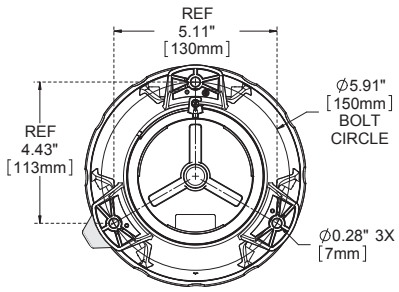
## DIMENSIONS

### SIDE VIEW



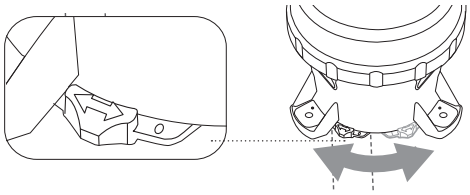

Total height including wireless antenna is 10.9" (276 mm)

### BOTTOM VIEW



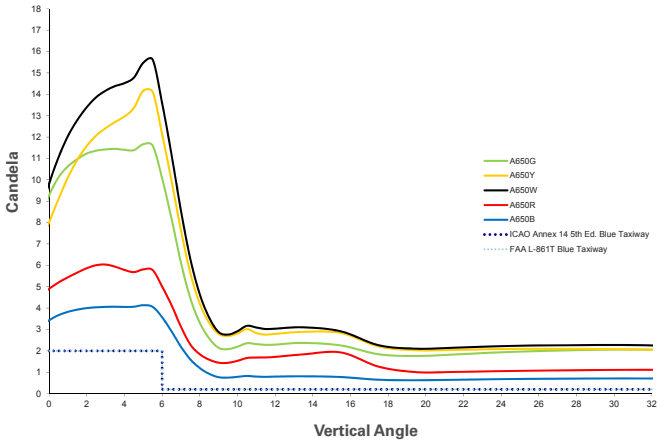

Also available with 7$^{7/8}$" (200 mm) bolt circle adapter

### SWITCHED VIEW*



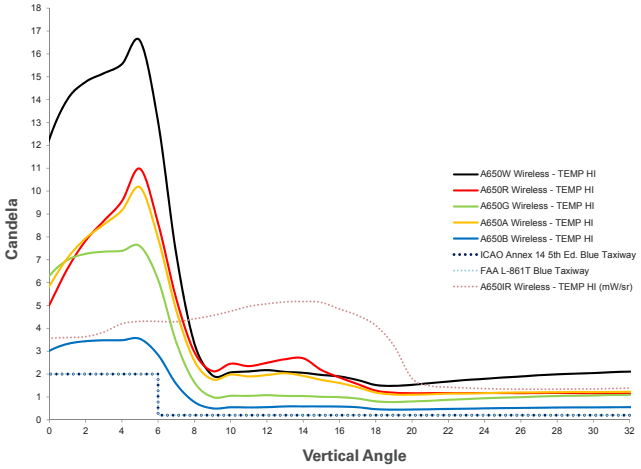
## PHOTOMETRICS

### A650 NON-WIRELESS




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

### A650 WIRELESS




## CONFIGURATION

| MODEL | OUTPUT ▼ | SWITCH ▼ | CONTROL ▼ |
|---|---|---|---|
| A650 | RED<br>GREEN<br>WHITE<br>YELLOW<br>BLUE | NON-SWITCHED<br>SWITCHED* | NON-WIRELESS<br>WIRELESS* |

*A650 Wireless version must have switch.

All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

**Specifications subject to local environmental conditions.**
**Specifications may be subject to change.**
US and International patents apply. Other patents pending.
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