

# Model 702T

## Three Mile<sup>1</sup> Threshold Light

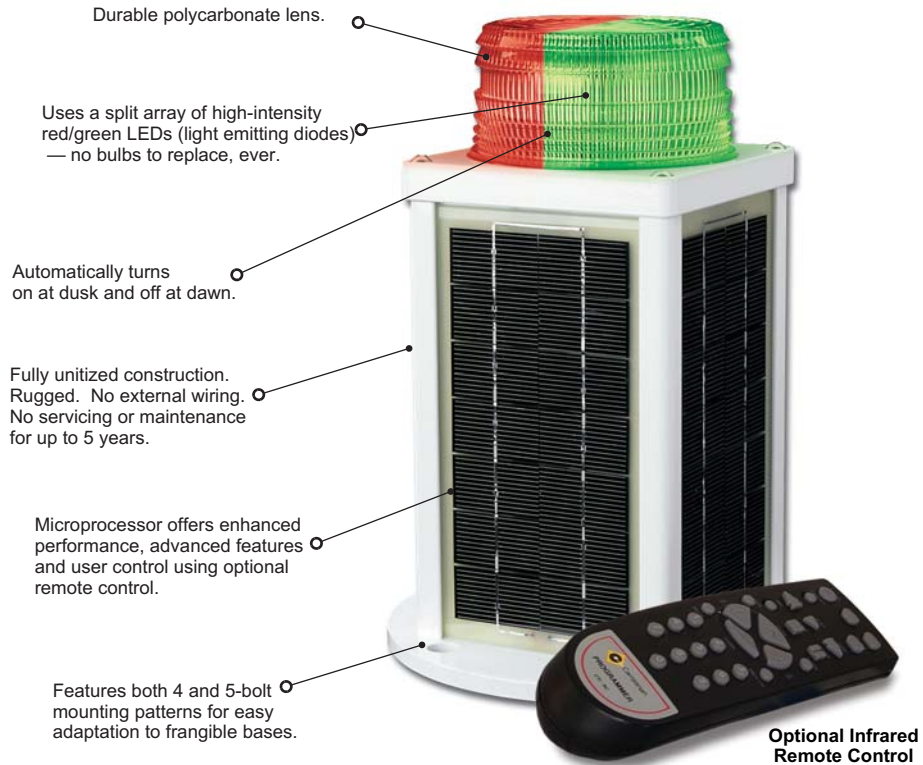
# SOLAR THRESHOLD LIGHT

### Typical Applications

- Short Airfield Lighting Systems
- Military Expedited Airfields
- General Aviation Airports
- Displaced Runway Thresholds
- Private Airstrips
- Remote Runways

### Features & Benefits

- Uses split red/green LED array
- Night vision goggle (NVG) compatible
- Provides up to five years of operation with no maintenance, servicing or infrastructure costs
- Installation takes minutes and requires minimal technical expertise
- Easily mounted to standard frangible coupling
- Completely self-contained and sealed against environmental conditions
- Extremely rugged, waterproof and vandal resistant
- Distance of visibility up to 3 miles (5.4 kilometers)
- Will charge under nearly all weather conditions
- Up to 150 hours of operating capacity from a full charge
- Can be programmed by the user via optional infrared remote control
- Features both four and five-bolt mounting patterns
- Replaceable battery packs available
- Manufactured under ISO 9001 Quality Assurance Practices
- 30 day satisfaction guarantee and three year warranty



**The Carmanah Model 702T is the world's most advanced, fully-integrated, threshold light. Using solar-power and LEDs (light emitting diodes), it installs in minutes and requires no maintenance or servicing for up to five years.**

### Typical Applications

Initially implemented for expedited airfield lighting with the US Air Force and the US Army, the 700 Series are the first solar powered LED aviation lights to be used for fixed wing operations at remote landing strips and expedited airfields.

The Model 702T is fully-integrated, self-contained and completely watertight. It is designed for permanent, temporary and expedited runway threshold edge lighting applications.

The 702T features a unique split red/green LED array with a clear lens for precision illumination and optimal brightness.

With 4 solar panels and significant power storage capacity, the 702T is designed to operate reliably at any location featuring a minimum of 1.5 hours of winter sunlight.

**No external wiring, no battery or bulb replacement, no maintenance, no worries...**

### The Technology

Utilizing an innovative combination of solar and LED technology, the 700 Series lights charge during the day, even under cloudy conditions, and turn on automatically at night. Instead of traditional incandescent bulbs, the 700 Series use durable, high-intensity light emitting diodes (LEDs), which have a minimum expected lifespan of 100,000 hours. Other than replacing the battery packs approximately every 5 years, the 700 Series are designed to operate flawlessly with no additional servicing or maintenance.

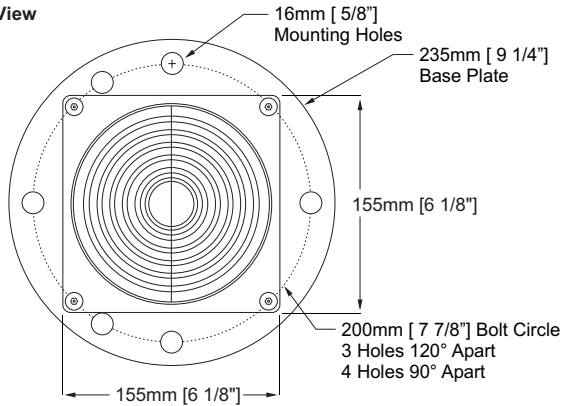
### 30-Day Risk-Free Evaluation

Order a Model 702T today and evaluate the product's quality, performance and reliability for yourself. If you are not fully satisfied, you can return the unit within 30 days for a refund of the purchase price.

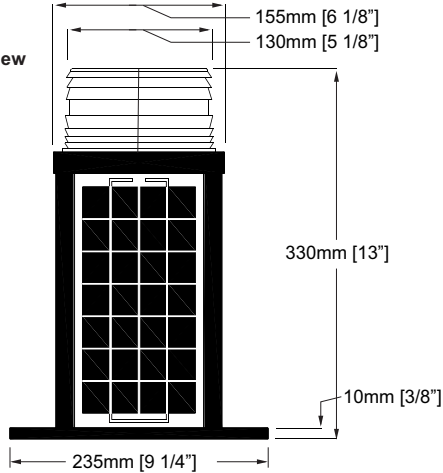
# Model 702T

## Three Mile<sup>1</sup> Aviation Light

Top View



Side View



Optional Infrared Remote Control



### SPECIFICATIONS

#### LIGHT OUTPUT

	STEADY ON
Effective Intensity (Transmissivity constant of 0.74)	
Green	~ 10 Candela
Red	~ 6 Candela
Nominal Night Range (Employs Method of Schmidt-Clausen)	
Green	~ 2.6 NM
Red	~ 2.2 NM
Vertical Divergence	7° at 50% intensity
Horizontal Output	360°

#### OPERATION

Minimum Autonomy <sup>2</sup>	150 Hours
Daily Equivalent Peak Sun Hours to Maintain Minimum Autonomy	1.5 Hours
Latitude Range <sup>3</sup>	55° S to 55° N
On / Off Level	70 / 100 Lux
Illumination Technology	Split Red/Green LED Array
Lifespan of LEDs	Expected minimum 100,000 Hours
Available Standard Flash Patterns (Custom patterns available)	208 including "steady-on"

#### SOLAR PANELS

Type	Mono-Crystalline Potted with UV-protected polyurethane
Maximum Power	11.2 Watts
Efficiency	14%

#### BATTERY

Type	Pure-lead thin plate with starved-electrolyte
Nominal Voltage	4 Volts
Capacity	24 Amp-hr at 10-hr discharge rate

#### CONSTRUCTION

Lens Material	Polycarbonate
Battery Venting	Vent at the bottom of the lantern
Sealing	Self-contained unit, sealed with gaskets
Weight	7.75 kg (17 lbs)

#### ENVIRONMENTAL and ELECTRICAL

Temperature Range <sup>4</sup>	-40° to +80° C (-40° to 176° F)
Waterproof	As per IP67 (NEMA 6)
CE Approval	As per EN 60945:1997

#### TRADEMARKS and PATENTS

Trademarks and Patents	US Patents: 5,782,552 & 6,013,985 European Patent Application: 96925627.0 Other Patents Pending
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<sup>1</sup> Actual range is dependant on flash pattern, intensity, and LED color.

<sup>2</sup> Actual figures for autonomy depend on the intensity level setting.

<sup>3</sup> Lights will function reliably at higher latitudes than 55° North or South if intensity/autonomy is properly adjusted to suit operating environment by an Authorised Carmanah Representative.

<sup>4</sup> Consistent ambient temperatures above +25°C (+77°F) may affect overall battery life. Temperatures above +60°C (+140°F) may affect output.

All specifications are subject to change without notice.



THE LEADER IN SOLAR LED LIGHTING SOLUTIONS

