

Model A702-5

Four Nautical Mile¹ Aviation Light

SOLAR AVIATION LIGHT

Typical Applications

- Runway edge lighting⁶
- Threshold lighting
- Obstruction lighting
- Runway caution lighting
- Helipad lighting
- Telecommunication towers

Features & Benefits

- Push button mechanical control - four intensity settings
- Up to 18cd output available. Steady on 24cd emergency mode, daytime operation
- Up to 100 hours of no-sun operating capacity from a full charge
- 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
- Will charge under nearly all weather conditions
- Features three, four and five-bolt mounting patterns
- Replaceable battery packs available
- Manufactured under ISO 9001:2000 Quality Assurance Practices
- Available in red, green, amber, white and blue
- 30-day satisfaction guarantee and three year warranty

Proprietary, self-cleaning solar dome protects solar panel, increases solar-charging performance and reduces the need for a bird deterrent (although, a bird deterrent is still available as an option).

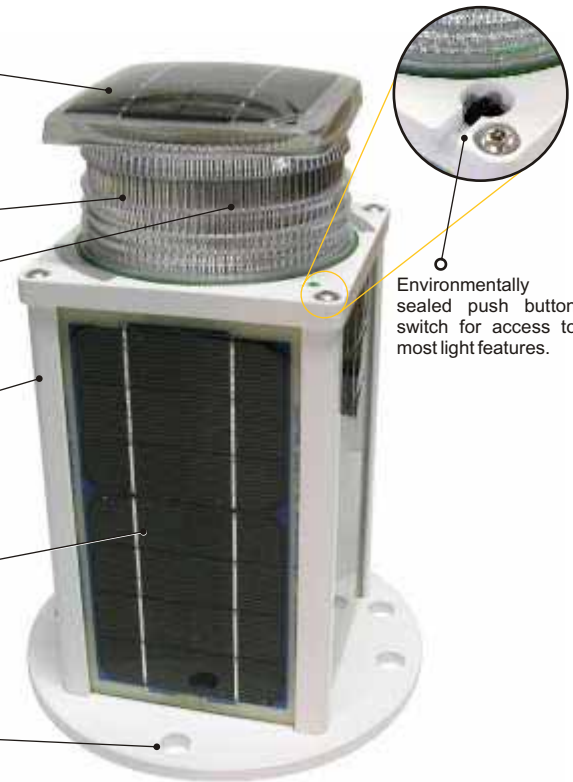
Uses an array of high-intensity LEDs (light emitting diodes) — no bulbs to replace, ever.

Automatically turns on at dusk and off at dawn.

Fully unitized construction. Rugged. No external wiring. No servicing or maintenance for up to 5 years.

Microprocessor offers enhanced performance, advanced features and user control using optional remote control.

Features 3, 4 and 5-bolt mounting patterns.



The Carmanah Model A702-5 is the world's most advanced, fully-integrated, solar LED four mile¹ (7.4 km) aviation runway light. 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 airfield landing strips and expedited airfields.

Fully-integrated, self-contained and watertight, the 700 Series are used for temporary and permanent runway edge lighting⁷, obstruction lighting and helipad lighting applications.

The A702-5 offers greater solar panel surface area enabling significantly higher sustainable light performance in areas where sunlight is readily available.

The Model A702-5 with switch normally operates automatically from dusk to dawn, although it can also be programmed to operate in the daytime during adverse or low visibility conditions.

The Technology

Utilizing an innovative combination of solar power 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 lifespan of up to 100,000 hours. Therefore, 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 A702-5 today and evaluate the product's quality, performance and reliability. If not fully satisfied, return the unit within 30 days for a refund of the purchase price.

Now Brighter than Ever!



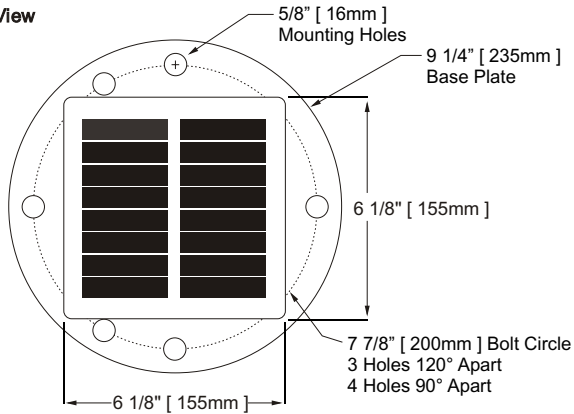
CHANGE THE WORLD WITH US™



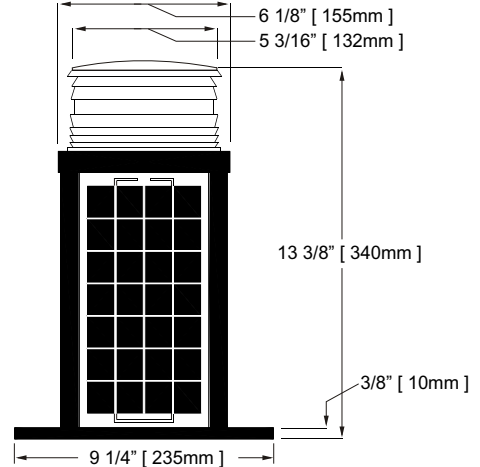
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Four Nautical Mile¹ Aviation Light

Top View



Side View



SPECIFICATIONS

LIGHT OUTPUT

Emergency	24cd
Max	18cd
Half	9cd
Flash ²	13cd
Vertical Divergence	~6 degrees
Horizontal Output	360°

OPERATION

Minimum Autonomy ³	
Emergency	30 hrs
Max	50 hrs
Half	100 hrs
Flash ²	150 hrs
Minimum Equivalent Peak Sun Hours to Maintain Minimum Autonomy	
Max	4.3 hrs
Half	2.3 hrs
Flash ²	1.5 hrs
On / Off Level	70 / 100 Lux
Illumination Technology	16 or 24 LEDs, depending on color
Lifespan of LEDs ⁴	Up to 100,000 Hours

CONSTRUCTION

Solar Panel	Mono-Crystalline
Battery	Potted with UV-protected polyurethane
Lens Material	Pure-lead thin plate with starved-electrolyte
Battery Venting	Polycarbonate
Sealing	Vent at the bottom of the lantern
Weight	Self-contained unit, sealed with gaskets
	17 lbs (7.75 kg)

ENVIRONMENTAL and ELECTRICAL

Temperature Range ⁵	-40° to 176° F (-40° to +80° C)
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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¹ Actual range is dependant on flash pattern, intensity, and LED color.

² The flash pattern is 60fpm at a 25% duty cycle. The 13Cd effective intensity is derived from application of the Schmidt-Clausen form-factor effective intensity modelling technique.

³ Actual figures for autonomy depend on the intensity level setting.

⁴ Amber, Red, Green: ~14 years to 80% of original effective intensity when operated at night with a 12.5% duty cycle.

⁵ Consistent ambient temperatures above +25°C (+77°F) may affect overall battery life. Temperatures above +60°C (+140°F) may affect output.

⁶ Not available for all applications. Please call your sales representative for clarification.

All specifications are subject to change without notice.

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