

Introducing Carmanah's Model A704-5 solar-powered LED obstruction light – self-contained, maintenance-free and featuring revolutionary optics that provide unsurpassed vertical divergence and light uniformity.

# Compliant with ICAO Annex 14 Type A Standards<sup>1</sup>



Carmanah's solar-powered LED lights are the preferred solution for marking obstructions such as telecommunications towers, meteorological evaluation towers and temporary towers, especially in remote applications where power is unreliable or not available.

Not only are Carmanah's lights ultra-bright, they are extremely durable with up to 5 years maintenance-free operation, a 12-month limited warranty, and unsurpassed performance in all environments. Carmanah's lights meet or exceed reliability and maintenance criteria of traditional lights connected to an

electrical power grid.

More than 250,000 installations operating reliably in 110 countries attest to the durability of Carmanah's products.



## Carmanah

Carmanah Technologies Corp. Building 4, 203 Harbour Rd. Victoria, BC, Canada V9A 3S2 Tel: +1 (250) 380-0052 Fax: +1 (250) 380-0062 E-mail: info@carmanah.com Website: obstructionlights.com

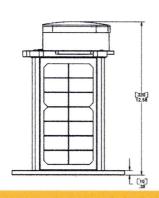


**Model A704-5** 

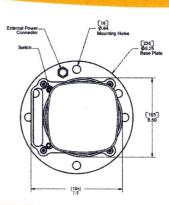
# **Model A704-5 Obstruction Light**



#### Side View



## **Top View**



#### **SPECIFICATIONS**

LIGHT OUTPUT	STEADY   FLASHING
Effective Intensity	~ 10 Candela   ~ 38 Candela
Nominal Night Range	~4NM (7.2Km)
Vertical Divergence	0-30°
Horizontal Output	360°

# **OPERATION**

600 Hours (45 Days) Autonomy (Flashing) 200 Hours (15 Days) Autonomy (Fixed-on) 55° S to 55° N Latitude Range 8 High Power Light Emitting Diodes Illumination Technology Up to 100,000 Hours Meets FAA, ICAO specifications Lifespan of LEDs Chromaticity of Color Output Available Standard Flash Patterns
Power Management System Steady-on or Flashing (On 0.3 sec. / Off 0.7 sec.)
MICROSOURCE®

**POWER SUPPLY** 

Solar Panels ( Top )	1.4W
Solar Panels ( Side )	12W (3 × 4W)
Battery Capacity	50AH
Nominal Voltage	4V
Battery Charger	12VDC

#### CONSTRUCTION

Solar Panels	Monocrystalline
	Potted with UV-protected polyurethane
Battery	Sealed pure lead-tin - recyclable
Lens Material	UV stabilized polycarbonate
Battery Venting	Vent at the bottom of the light
Sealing	Self-contained unit, sealed with gaskets
Weight	26 lb (11.75 kg)
Light Base	Marine grade aluminum
Mounting	3, 4, and 5-bolt mounting pattern

## ENVIRONMENTAL and ELECTRICAL

ENVIRONMENTAL AND ELECTRICAL	
Temperature Range	-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



Carmanah's new optics are designed to meet international aviation and obstruction lighting standards.

Carmanah is a Canadian public corporation - TSX: CMH

© 2008 Carmanah Technologies Corp.
"Carmanah" and Carmanah logo are
trademarks of Carmanah Technologies Corp.
Document: SPC\_OBS-704-5-Towers\_vD

