**Purchase Specifications for a
Radio Controlled Solar Helipad Floodlight**

**Overview**

This specification is for a solar powered LED helipad floodlight.

The floodlight shall have a lens designed specifically for heliports to provide even surface illumination.

The floodlight shall have an optic hood to prevent potential glare to pilots upon approach.

No part of the floodlight or solar assembly shall be taller than 250mm (9¾ inches).

Each light shall have 1 x 20watt solar panel, 12V 18Ah Sealed Lead Acid (SLA) battery, microprocessor-controlled electronics and high intensity LEDs.

The angle of tilt of the luminaire shall be able to be adjusted to maximise surface illumination.

The light shall be able to be operated via 2.4GHz encrypted RF radio control.

The lights shall be delivered ready to install. The only assembly required will be activation of each individual light and optional mounting accessories.

**1.0 Light Characteristics**

The light shall use eight (8) visible LEDs.

The light output shall be available in white with other colours available on request.

**2.0 Electrical Characteristics**

The light shall have integrated circuit protection.

The light shall have an operating voltage of 12v.

The light shall have an external battery charging port.

The light shall have an operating temperature range between -40 to 80°C.

**3.0 Solar Characteristics**

The light shall use one (1) multi-crystalline solar module.

The total output of the solar module shall be 20watts.

The solar module efficiency shall be 14%.

Charging regulation shall be microprocessor controlled.

**4.0 Power Supply**

The light shall use a user-replaceable Sealed Lead Acid (SLA) battery.

The battery capacity shall be 18Ah.

The nominal voltage shall be 12v.

**5.0 Radio Controlled**

The light shall be controlled by handheld radio controller.

The radio controller shall operate on a frequency of 2.4GHz ISM Band.

**6.0 Physical Characteristics**

The body of the light shall be manufactured from 7-stage powder coated aluminium.

The body of the light shall be aviation yellow in colour.

The light lens shall be manufactured from UV-stabilised LEXAN® polycarbonate.

The luminaire housing and solar assembly shall have a frangible mounts. The solar assembly shall have two (2) frangible points. The luminaire housing shall have one (1) frangible point.

The light shall have a height of 250mm (9¾ inches). No part of the floodlight or solar assembly shall be taller than 250mm (9¾ inches).

The battery housing shall have a length of 674mm (26½ inches).

The luminaire housing shall have a length of 406mm (16 inches).

The battery housing shall have a width of 332mm (13⅛ inches).

The luminaire housing shall have a width of 230mm (9 inches).

The light shall have a mass of 18.4kg (40½lbs).

**7.0 Options**

The light shall be offered with the following options available from the manufacturer:

* Pilot Activated Lighting Control
* Mains power

**8.0 Environmental Factors**

The light shall meet the following environmental factors:

Humidity: 0 to 100%, MIL-STD-810F

Icing: 22kg per square inch

Wind Speed: up to 160kph

**8.0 Certifications**

The light shall meet CE EN61000-6-3:1997. EN61000-6-1:1997

The manufacturer shall be ISO9001:2008 certified.

**9.0 Warranty**

The light shall have a three (3) year warranty full product warranty, excluding battery which will have a warranty of one (1) year.