**Purchase Specifications for a
Universal AC LED
ICAO LIOL Type A & Type B Obstruction Light**

**Overview**

This specification is for a universal AC (110-240VAC) LED, steady burning, ICAO LIOL Type A and Type B obstruction light.

The light shall have adjustable intensity settings to allow the user to select either ICAO LIOL Type A (10cd) or ICAO LIOL Type B (32cd).

The light shall have an alarm contact for remote monitoring.

The light shall have a light sensor for day/night operation.

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 1 visible LED.

The light output shall be available in red. Other colours, including IR, shall also be available on request.

The light shall have a peak intensity which complies with ICAO LIOL Type A & ICAO LIOL Type B.

The light shall have a horizontal output of 360 degrees.

The light shall have a vertical divergence as per ICAO Type A/B specification.

The intensity of the light shall be adjustable between 10cd and 32cd.

**2.0 Electrical Characteristics**

When set to ICAO LIOL Type A intensity the power usage of the light steady-on with relay energised and IR shall be no more than 2W.

When set to ICAO LIOL Type B intensity the power usage of the light steady-on with relay energised and IR shall be no more than 3W.

The light shall have integrated circuit protection.

The light shall have an operating voltage of 110-240VAC.

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

**3.0 Physical Characteristics**

The body of the light shall be manufactured from UV-stabilised LEXAN® polycarbonate.

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

The light shall have a lens diameter of 100mm (3⅞ inches).

The light shall have a single LED optic.

The light shall have a ¾ inch pipe thread mount.

The light shall have a height of 137mm (5½ inches).

The light shall have a width of 121mm (4¾ inches).

The light shall have a mass of 0.4kg (⅞lbs).

**4.0 Options**

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

* Dual visual/IR output
* IR LED
* Threaded adaptor to fit one (1) inch pipe

**5.0 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

**6.0 Certifications**

The light shall meet the requirements for ICAO Low Intensity Obstruction Light Type A and B.

The light shall be IP67 waterproof.

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

The manufacturer shall be ISO9001:2008 certified.

**7.0 Compliance**

The light shall be supplied with an optic to meet:

* Photometrics for Low Intensity Type A and B Obstruction Light, ICAO Annex 14 Volume 1, ‘Aerodrome Design and Operations’, table 6.3.

**8.0 Warranty**

The light shall have a three (3) year warranty.