**Purchase Specifications for a   
Universal AC LED Dual Fixture  
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 dual light head enabling simultaneous twin operation or redundant failsafe.

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 per light fixture.

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 light shall have a current draw at 240V of 4mA steady-on with relay energised.

When set to ICAO LIOL Type B intensity the light shall have a current draw at 240V of 8mA steady-on with relay energised.

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 from7-stage powder-coated aluminium.

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

The light shall be a dual light fixture.

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

The light shall have a single LED optic.

The light shall have 4 x 6.5mm mounting holes.

The light shall have a height of 262mm (10⅜ inches).

The light shall have a width of 481mm (19 inches).

The light shall have a mass of 2.3kg (5lbs).

**4.0 Options**

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

* GSM Cell-Phone Monitoring
* RS422/485 communications port
* Dual visual/IR output
* IR LED

**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.