



WL75 Aviation Obstruction light

WL75 (LED) Weatherproof aviation obstruction light compliant to FAA AC 150/5345-53 Appendix 3 (L-810) & CAA Cap 168 & ICAO Annex 14.

The WL75 was designed for a wide variety of uses as in the CAA CAP 168 for low intensity obstruction beacons, i.e. cranes, chimneys, masts, towers, residential buildings etc. It consists of LM6 cast-aluminium lamp holder and PMMA plastic, which houses the electronics and LED bulb, providing environmental protection and shock resistant. A cable is connected to the lamp from the base, convenient for mounting and replacement. Steel wire is used to connect to base against falling in operation.

The WL75 is composed of two separate parts:

1. LED Bulb
2. Light fitting

The essential circuitry is integrated within the bulb, so if any faults occurred just the replacement of the bulb is necessary. The bulb has a threaded 'male' type (Edison Screw) end which fits into the base holder; this makes it simple & convenient for replacement.



Bulb



Light fitting



Obstruction light

Obstruction Lighting/Aircraft Warning Lights Specialists

Delta Obstruction Lighting Ltd. Delta House Wrigley Street Oldham Lancashire OL4 1SL United Kingdom
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i. Mechanical Data

Material: Aluminium LM6 & PMMA material (dome & bird spike)

IP Protection: IP65

Hardware: Stainless steel

Cable Entry: Bottom Entry (G 3/4")

Gasket: Neoprene

Weight: 1.15Kg (Approx.)

ii. Electrical Data

Voltage: AC230V

Flashing rate: Steady mode

Lamp wattage: less than 8W

Intensity of LED cluster: 10candela

Colour: Red

iii. Features

1. Tested and approved to CAA CAP 168, ICAO Annex 14 & FAA regulations.
2. Base is made from LM6 aluminium - LM6 has excellent resistance to corrosion under both ordinary atmospheric and marine conditions.
3. The lamp housing accepts 3mm PMMA plastic and is water resistant and suitable in most environments, IP65 rating.
4. LED bulb unit completely replaceable.
5. The lamp body and base are connected with steel wire, protection against falling.
6. A bird spike is provided at the top.
7. Long life (estimated more than 100,000 hours) and energy saving (efficiency \geq 90%).

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iv. Photometric Light Distribution

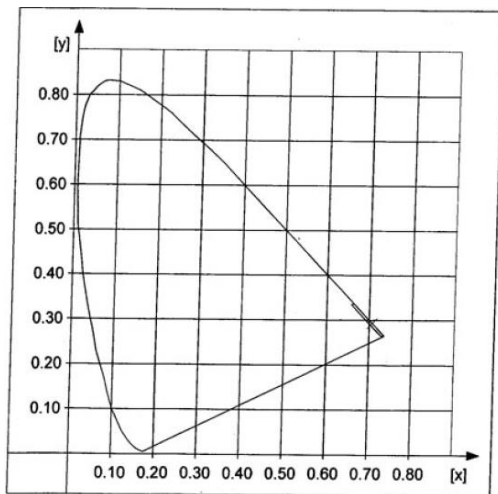
Table 1.

<u>Properties</u>	<u>Requirements</u>	<u>Result</u>
Photometric Properties	ICAO Annex 14, Volume 1, 3 rd Edition	Complied, available upon request

Table 2.

<u>Sample</u>	<u>Chromaticity Co-ordinates</u>			<u>Results</u>
	<u>X</u>	<u>Y</u>	<u>Z</u>	
Red	0.707	0.292	0	Complied, see below

Colour Region Graph



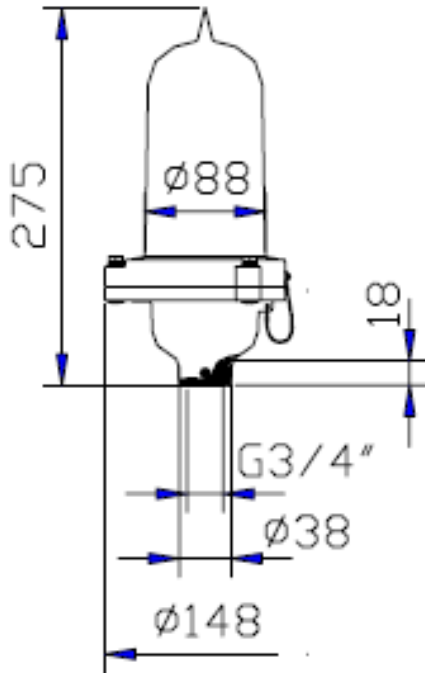
Channel Colour Standard Table

	H	V	Colour X	Colour Y	Illuminance
1st Angle	0.00	0.00	0.707	0.292	4.024
2nd Angle	0.00	0.00	0.707	0.292	4.023
3rd Angle	0.00	0.00	0.707	0.292	4.022

The graph above shows test results of the colour type for the light which is suitable for low intensity aircraft warning lights according with the ICAO Annex 14 & CAP 168 regulations.



v. Weight & Dimension (in mm)



Height: 275mm

Diameter (widest part): 148mm

**Threading for
Mounting bracket:** 3/4 "(inch) diameter

Weight: 1.15Kg (approx)

Notice

- Please use the product strictly on accordance with the instruction above.
- Because Delta has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

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