

## **GANESH** LED BASED AVIATION OBSTRUCTION LIGHT (DC Operated)



### **ELECTRICAL DATA ICAO**

**No. Of LEDs:** min 175 max 182 nos

**Maximum forward current:** 77mA

**Typical power consumption:** 3.7 W Maximum at 48 V DC

**Input voltage variability:** Can withstand fluctuation of  $\pm 15\%$

**PIV protection:** LEDs internally protected against rev. voltages up to 1 kV

**Insulation resistance:** >200 megohms at 1000V

**Dielectric strength:** 2.5 kV

**Earthing:** Terminal provided inside body

**Cable entry:** ET 19mm

**I luminance:** @30.2 lux at 1 mtr distance

**AOL COMPARATIVE COST-CALCULATION** of the savings affected by our AVIATION OBSTRUCTION LIGHT as compared to a single light using 48V filament bulb is given below:

	PARTICULARS	CONVENTIONAL AOL WITH 200W FILAMENT BULB	CONVENTIONAL AOL WITH NEON SPIRAL	<b>GANESH LED AOL</b>
1	Life	1000 hrs.	5000 hrs	1,00,000 hrs
2	Replacements/year	4.38	1	0.0438
3	Annual costs for replacement/maintenance activities	Rs. 4380.00 (@ Rs.1000.00/instance)*	Rs. 1000.00	Rs. 0.00
4	Wattage	100 W	80 VA	3.7 W
5	Units of Electricity (KwH) consumed/year	438 KwH	350 KwH	16.23KwH
6	Annual cost of above Electricity @ Rs.4.00/unit	Rs. 1752	Rs. 1,401.00	Rs. 65
7	Total cost/year (3+6)	Rs. 10,555.80	Rs. 7901.60	Rs. 65
<b>TOTAL AVERAGE YEARLY SAVINGS AFFECTED OVER FILA BULB AOL: RS. 10,491</b>				
<b>TOTAL AVERAGE YEARLY SAVINGS AFFECTED OVER NEON SPIRAL AOL: RS.7837</b>				


**Clients :** Airports Auth. of India, BSNL, Tata Teleservices Ltd, Bharti Cellular Ltd, Idea Cellular Ltd, GTL Ltd., Fascel Ltd, Prasar Bharti, Nokia, Ericsson, Aircell etc

### **Features of Aviation Obstruction Lights**

- Multiple Circuits provided so maximum reliability is achieved.
- Transformer has been eliminated and replaced by circuits, which enhance the life of product by suppressing any voltage fluctuations and also no magnetic losses.
- No heating.
- Ultra high glow LEDs are used to get optimum light output.
- Cable size reduces which helps in saving the installation cost.
- Wider operational voltage band of  $\pm 30\%$  of rated voltage.
- *Guarantee of 18 months offered.*
- *Solar Aviation lamps also available*

## Other Accessories Along with Aviation Lights

	<p><b><u>Photocontrollers</u></b></p> <p>For Automatic operation of the Aviation lamps</p>		<p><b><u>Mounting Clmps</u></b></p> <p>To directly mount the aviation lamps on tower without drilling or welding</p>
---	--	--	--

	<p>Double Type Aviation Fitting Total Weight: 3.0 Kg.          Single Type Aviation Fitting Total Weight: 1.3 Kg.          Controller Weight: 0.25 Kg.          Mounting Clamp Weight: 0.6 Kg.</p> <p><b><u>Single Dome Dimensions</u></b>          A = 170 mm.    B = 260 mm</p> <p><b><u>Double Dome Dimensions</u></b>          A = 170 mm.    B = 260 mm          D =</p>
<p>Connection Diagram of controller.</p> 