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SUPERNOVA



SUPERNOVA ELECTRONICS

18, Dnyanada, Kamatwade,
Nashik 422008

Maharashtra, India

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Fax. +91 253 2398857

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e-mail : supernovaelectronics@hotmail.com



Reg. No: R91/ 692
An ISO 9001:2000 Company

About us

SUPERNOVA ELECTRONICS, an ISO 9001:2000 professionally governed Company, established in 1998, with the team of professional technocrats and allied staff, based at Nashik, Maharashtra.

Supernova with its strong technological background is a player in diversified areas, which are as follows

- LED based Aviation Obstruction Lamps
- LED Based Road Traffic Signals
- Hybrid Energy Conservation Solutions
- Automobile & Industrial Battery Chargers
- Wire based and Wireless Bank & Home security Systems
- Thyristorised DC Drives
- LED Indicating Lamps for Control Panels
- PLC based and Electrical Power Control Panels
- Services in C -DOT Cards Repairs, maintenance & BSNL Detailed Billing Software for in-house printing of STD/ISD Detailed invoice sheets, etc.

In all areas such as Design, Manufacturing and supply of Electronics Products, Software Development etc.

We have State of the Art plethora of development, testing, measuring and maintenance facilities at our works. We at Supernova are committed to supply quality products & prompt services to achieve the customer satisfaction through the continuous improvements in all areas of operations, giving emphasis on technology up-gradation, training and reducing manufacturing & execution cost without compromising the quality and Customer Needs.

Supernova is equipped with sophisticated test and measuring set up includes

- Cathode Ray Oscilloscopes
- On Board Integrated Circuit Tester
- Light Me ter and Dark Room
- Test Bench for AC Voltage, Current and Power Factor
- High Voltage Tester
- EPROM Programmer
- LCR Meter
- Digital Multimeters



Product At a Glance

SUPERNOVA'S LED based Aviation Obstruction Lamps

SUPERNOVA LED based Aviation Obstruction Lamps symbolizes Innovation, Quality and reliability. The high-rise structures such as buildings, towers, windmills and chimney are the icons of great technological achievements of mankind but at the same time become hazardous obstacles for Air Traffic. To prevent the accidents and to navigate the Aircraft Pilots, The national and international authorities related to Civil Aviation recommends the different types of Lamps to be installed at different heights of the structures, which are above 45 meters from ground level. According to these technical guidelines, Supernova Electronics of Nashik, India an ISO 9001-2000 company developed the state of the art Aviation Obstruction Lamps. Super bright Light Emitting Diodes (LED) of highest luminous intensity output are utilized in these lamps to render long life service and also economical in comparison with earlier incandescent lamps. Along-with the long life, our lamps are energy saver, robust and rugged for the outdoor utility and works faithfully in diverse climatic conditions.

The lamps not only are robust, rugged but also aesthetically better, light in weight and easy to install. The base of lamp is made up of environment friendly LM6 aluminum alloy casting. The dome of the lamp is of Red transparent Polycarbonate. The lamps confirm ICAO, FAA standards for luminous intensity and to IP65-IEC 60947 ingress protection. The lamps are available in two models, Type 'A' Steady burning L-810 and Type 'B' flashing L-864. The control circuitry is also developed to operate these lamps automatically in AC/DC mode as required. In the DC operated lamps, the battery backup facility can be added in the control circuitry.

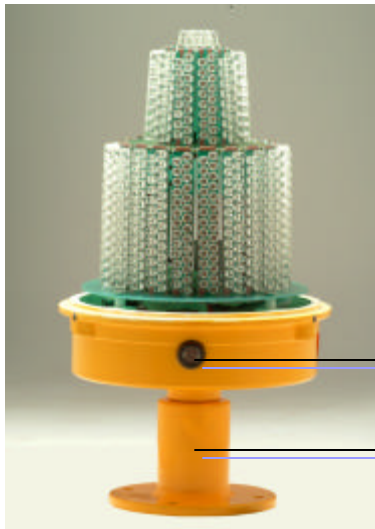


SUPERNOVA AOLS

Innovation
Quality
Reliability



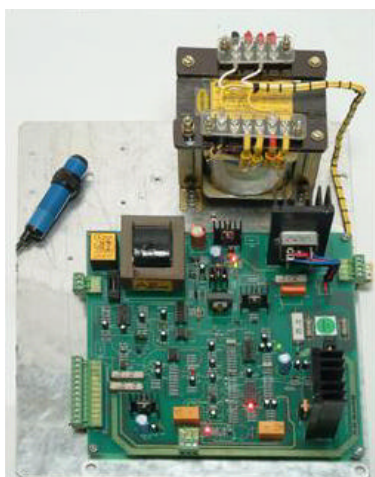
SUPERNOVA LED BASED AVIATION OBSTRUCTION WITH BIRD SPIKE AND IN-BUILT CONTROLLER AND AMBIENT LIGHT SENSOR.



INTERNAL CONSTRUCTION OF FLASHING LAMP.

AMBIENT LIGHT SENSOR

MOUNTING ACCESSORY



CONTROLLER AND BATTERY BACKUP CIRCUIT WITH PROVISION OF 3 LAMPS.

CERTIFICATE OF COMPLIANCE



This is to certify that the
QUALITY MANAGEMENT SYSTEM of

SUPERNOVA ELECTRONICS

D-117, M. I. D. C., Ambad, Nasik – 422 010, Maharashtra, India.

has been assessed by International Certifications Services (Asia) Pvt. Ltd. and registered
as complying with the requirements of the following International Standard:

ISO 9001 : 2000

The Quality Management System applicable to :

Scope : Design, Development, Manufacturing And Supply Of Electronic Products Such
As LED Based Aviation Obstruction Lamps, Digital DC Drives, LED Based Road Traffic
Signals, LED Indication Lamps, Electronic Security Systems, PLC And Electrical Control
Panels And Repairing Services Of Electronic Circuit / Equipments And Communication
Systems Such As C-DOT Exchange Cards And Electronic Data Processing And Related
Printing Services.

Registration No. : R91/692
Registered Date : 30th January, 2002.
Revision Date : 10th January, 2003.
Valid for : 3 years
Expiry Date : 29th January, 2005.



Managing Director
International Certifications Services

Accredited by Joint Accreditation System of Australia and New Zealand

Validity of this certificate is based on periodic audits of the management system defined by the above scope and is contingent upon prompt, written notification of significant changes to the management system and/or its components thereof shall be immediately communicated to ICS.
Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the above certified organization.

Fax : (91) 22-2836 9868
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E-mail: pth@eicindia.org

PILOT TEST HOUSE
EXPORT INSPECTION AGENCY-BOMBAY
(MINISTRY OF COMMERCE, GOVERNMENT OF INDIA)
E-3, MIDC Area, Andheri (East), Mumbai -400 093.

Report No. & date : PTH/E/04-05/T/2/1 dt. 29.04.2004 Page 1 of 1

CLIENT : SUPERNOVA ELECTRONICS,
: 18 Dayanada Corp. Hsg. Soc., Ltd.
: Kamat wade Ambad, Nashik - 422 008

SAMPLE
Ref No. & date : SE/RDC/04-05/08 dt.14.04.2004

Description & quantity : LED Based Medium Intensity Aviation Obstruction
Lamps Type -B Flushing, 2000 \pm 25% Candela
Total-3 Nos .
: LED Based Low Intensity Aviation Obstruction
Lamps Type -A Min 10cd Fixed. Total-1 No

Date of receipt : 17.04.2004.

SPBFCATION : Customer's specification

TEST RESULTS

1. MEDIUM INTENSITY LAMP

Lamp.No	Type	Voltage D.C	Candela
1.	B	24.00	1766.82 cd
2.	B	24.00	1568.15 cd
3.	B	24.00	1778.33 cd

2. LOW INTENSITY LAMP

Lamp.No	Type	Voltage D.C	Candela
4	A	24.00	391.45 cd



LABORATORY ASSTT.

ASST. DIRECTOR

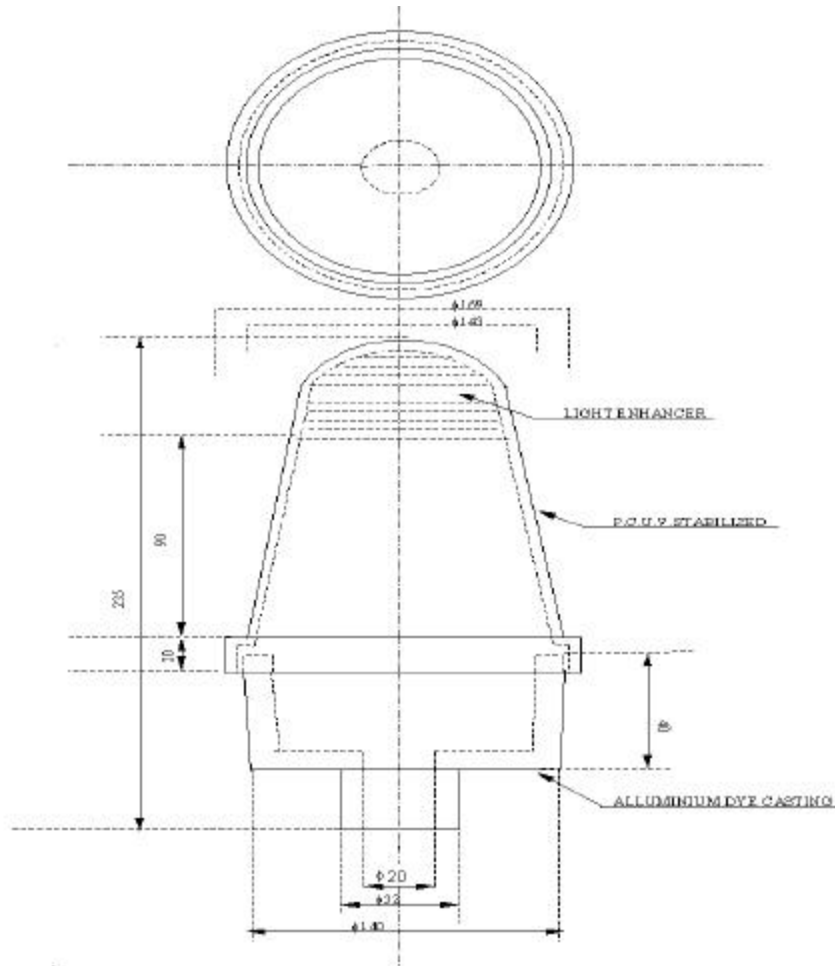
DEPUTY DIRECTOR

NOTE : -This test report refers only to the particular sample (s) submitted for testing.
-Sample not drawn by Pilot test House.
-This report may not be reproduced ,except in full,without prior permission of Pilot Test House.
Any correction invalidates this report.

Technical Specifications of Our AOL Range

<i>Description</i>	<i>Steady Burning Type "A" AOL, L-810</i>	<i>Flashing Type "B" AOL L-864</i>
Input Voltage	AC – 230 V _{ac} +/- 3% DC – 12 V _{dc} 24 V _{dc} 48 V _{dc}	AC – 230 V _{ac} +/- 3% DC – 12 V _{dc} 24 V _{dc} 48 V _{dc}
Luminous Intensity 360° Radial	>32 Candela	>1500 Candela
Colour of Light	Red, Wavelength 626nm	Red, Wavelength 626nm
LED Viewing angle	30°	30°
No. Of Flashes	Continuous Burning	20 to 60 Flashes Per Minute (ADJ.)
Visibility LEDs	2.2 Kilometers 5mm Round, Water Clear Lens	4.9 Kilometers 5mm Round, Water Clear Lens
No. Of LEDs	352 Nos. for AC operation 360 Nos. for DC operation	720 Nos.
Wattage	15 Watts	52 Watts Peak
Power Factor	0.95	0.95
Life Expectancy of LEDs	App. 1,00,000 Hours	App. 1,00,000 Hours
HV Testing	1K5 Voltage for 1 Min.	1K5 Voltage for 1 Min.
Ambient Light Sensor	Light Dependant Resistor	Light Dependant Resistor
Operation Controller	Built-in for AC operation only	Built-in AC operation only
Lamp Base Material	Aluminum LM6	Aluminum LM6
Lamp Base External Finish	Aviation Yellow	Aviation Yellow
Upper Enclosure- Dome	Transparent Polycarbonate	Transparent Polycarbonate
Cable Entry	20mm Threaded with ½" BSP	20mm Threaded with ½" BSP
Hardware Dimensions	Stainless Steel SS304 W: 169mm and H: 235 mm	Stainless Steel SS304 W: 169mm and H: 235 mm
Weight	1.5 Kgs.	1.5 Kgs.
Conforms	ICAO – Chapter 6 & Table 63 FAA - AC150 5345-43e	ICAO - Chapter 6 & Table 63 FAA - AC150 5345-43e
Ingress Protection	IP65 – IEC 60947	IP65 – IEC 60947

Dimensional Drawing Of Enclosures for AOL "A" & "B"



Component with Excellent Surface Finish.
 Cover: Red Colour P.C., Immune to UV Radiation Fitted with Neoprene Gasket.
 Weight: 1.2Kg Approx.

Title: AVIATION OBSTRUCTION LAMP

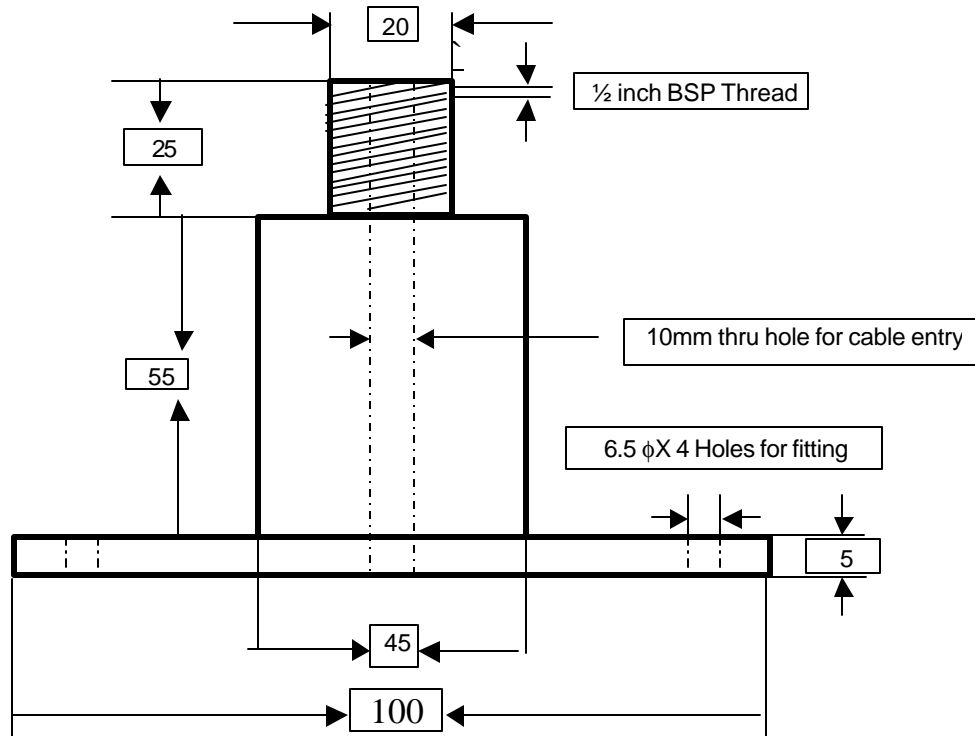
Date :26/06/2003

Drawn By:
DH QAD

Checked &
Apprd. By:
CEO

**SUPERNOVA ELECTRONICS,
NASHIK**

Dimensional Front View of Mounting Accessory
For AOL "A" & "B"



MS MOUNTING ACCESSORY

MS Mounting Accessory with MS Bush, Powder Coated with Aviation Yellow Colour			
Weight: 1.2 Kg Approx.			
Title: MS- Mounting Plate For AOL			
All Dimensions are in mm.			
Date: 26/06/2003	Drawn By: DH QAD	Checked & Apprd. By: CEO	SUPERNOVA ELECTRONICS, NASHIK

LIST OF OUR VALUABLE CLIENTELE

BSNL

1. G.M.T.D. NASHIK TELECOM.
2. G.M.T.D. JALGAON TELECOM.
3. G.M.T.D. SATARA TELECOM.
4. G.M.T.D. SOLAPUR
5. T.D.M. DHULE.
6. T.D.M. OSMANABAD.
7. T.D.M. BEED.

OTHER GOVT. OFFICES.

1. CENTRAL RAILWAY (S&T), BHUSAWAL
2. IIREEN, RAILWAY TRACTION, NASHIK ROAD.
3. INDIAN TELEPHONE INDUSTRIES LTD., MUMBAI .
4. INDIAN TELEPHONE INDUSTRIES LTD., AHMEDABAD

PRIVATE INDUSTRIES

1. KADWA SAHAKARI SAKHAR KARKHANA, NASHIK.
 2. ESSEM TIPS PVT.LTD. , NASHIK.
 3. MICRON TIPS PVT.LTD. , M.I.D.C. SURAT.
 4. M/S. S.S.BALL POINTS (I) PVT.LTD. , NOIDA
 5. M/S. SHETKARI PLATICS PVT.LTD, M.I.D.C., SATPUR
 6. M/S.MAHINDRA & MAHINDRA LTD, IGATPURI , NASHIK.
 7. SKY COMMUNICATIONS, NASHIK.
 8. THE BRIHANS MAHARASTRA SUGAR SYNDICATE LTD, SHREEPUR, DIST. SOLAPUR.
 9. ATLAS COPCO LTD, M.I.D.C. SATPUR, NASHIK
 10. INDIAN TOOLS LTD, M.I.D.C. SATPUR, NASHIK
 11. BANK OF MAHARASHTRA, NASHIK
 12. M/S. ENERCON INDIA LIMITED, DAMAN.
 12. M/s. VIKRAM ISPT (ADITYA VIRKAM BIRLA GROUP), RAIGADH, MAHARSHTRA.
 13. M/s. GUPTA SYNTHETICS LTD, SILVASA.
 14. M/S. CENTURY LAMINATING CO.LTD, GHAZIABAD
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