

## FLPW 1248

LED CLUSTER BASED AVIATION OBSTRUCTION LIGHT



### Mechanical Data

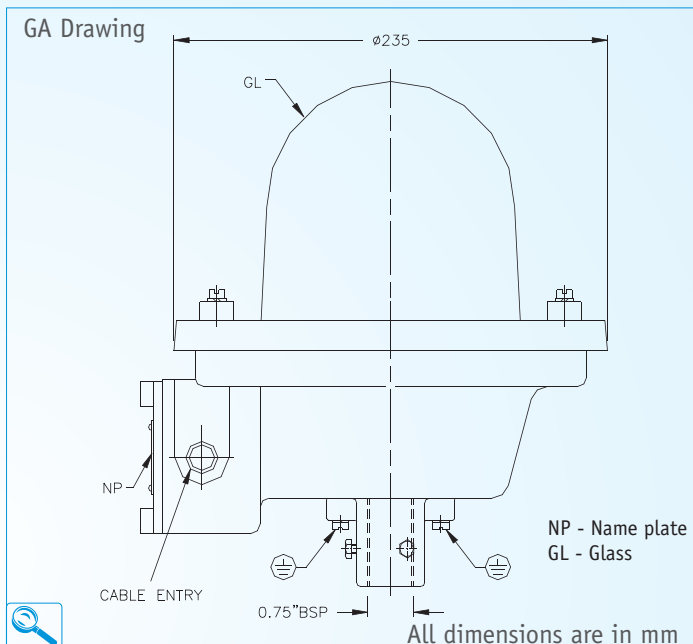
Material	: Aluminium LM6
Weight	: 6.0 Kg(Approx)
IP Protection	: IP 65 & IS 12063/1987 (IEC 60529/1989)
Finish	: Anti corrosive epoxy powder coated
Cable Entry	: 2 x (0.75" ET / 0.5" NPT / BSP / M20)
Glass	: Toughened Borosilicate Type 'A'
Suspension	: Pipe
Gasket	: Neoprene
Hardware	: Stainless Steel (SS-304)

### Electrical Data

Voltage V	: 230 V AC , 50 Hz
Lamp Wattage W	: 15 W (Max.)
Temperature	: 42° C at flashing & 54° C at steady mode
Angle of reflection	: 15° from horizontal
Colour	: Red / Green / Amber
Wiring	: Fibreglass class F insulated 1.5 sq.mm stranded copper
Max. Cable size	: 3 x 4 sq.mm
Int. Terminations	: 4 sq.mm crimping lugs
Insulators	: Glass fibre reinforced DMC
Earthing	: External : 2 Nos - M6 Internal : 1 No - M5

### Description

Explosion proof aviation obstruction light with an integral terminal chamber. A toughened borosilicate type 'A' glass is cemented to retaining ring and fixed to the body by 4 nos. Hexagonal screws. An aviation lamp unit ( Filament/LED/Xenon) is housed inside the fitting. Two bushes are provided in the inner wall of the terminal chamber to provide wiring for aviation lamp unit through the FLP cable glands. Neoprene 'O' rings are provided for weatherproof protection.



Type of protection	Flame Proof - Exd
Area Classification	Zone 1 & 2
Gas Groups	Group I, II A ,II B
Apparatus Standard	IS-13346/2004 (IEC 60079-0/200) IS-2148/2004 (IEC 60079-1/2001)
CMRI Certificate No.	CMRI / TC / P / H 1308
Approvals	CCE
Temperature Rating	T6
Wattage Rating	15 W LED

### Salient Features

1. Illumination can be selected between 55 or 110 candelas for low intensity lamps
2. Illumination Rate for medium intensity lamp will be around 1600 to 2000 cd and 55 watt with flashing.

### Options

- A Xenon / Filament lamp instead of LED lamp is available.

## FLPW 1248

LED CLUSTER BASED PATH LIGHT



### Mechanical Data

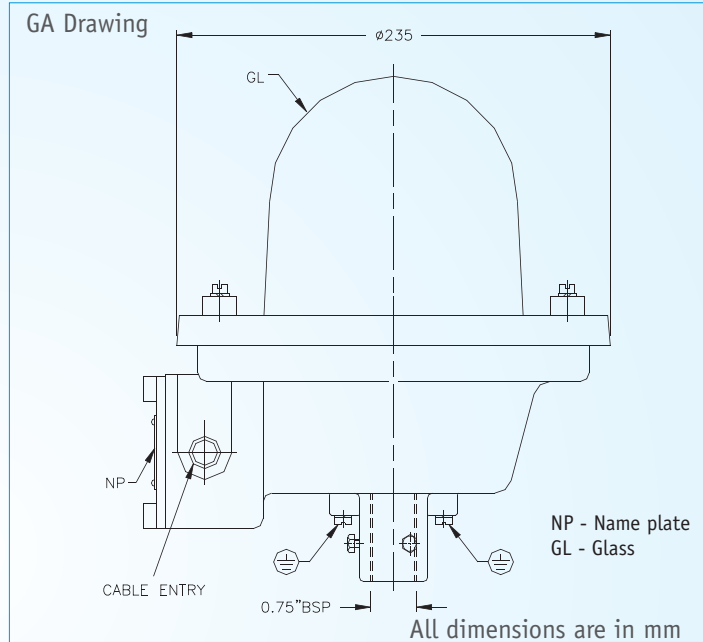
Material	: Aluminium LM6
Weight	: 6.0 Kg(Approx)
IP Protection	: IP 65 to IS:/2063/87 (IEC 60529/89)
Finish	: Anti corrosive epoxy powder coated
Cable Entry	: 2 x (0.75" ET / 0.5" NPT / BSP / M20)
Glass	: Toughened Borosilicate Type 'A'
Suspension	: Pipe
Gasket	: Neoprene
Hardware	: Stainless Steel (SS-304)

### Electrical Data

Voltage V	: 230 V AC , 50 Hz
Lamp Wattage W	: 18/36W LED
Temperature	: 55° C Max
Colour	: Clear white/worm white
Wiring	: Fibreglass class F insulated 1.5 sq.mm stranded copper
Max. Cable size	: 3 x 4 sq.mm
Int. Terminations	: 4 sq.mm crimping lugs
Earthing	: External : 2 Nos - M6 Internal : 1 No - M5

### Description

**E**xplosion proof Path Light with an integral terminal chamber. A toughened borosilicate type 'A' glass is cemented to retaining ring and fixed to the body by 4 nos. Hexagonal screws. An lamp unit (Filament/LED/Xenon) is housed inside the fitting. Two bushes are provided in the inner wall of the terminal chamber to provide wiring for lamp unit through the FLP cable glands. Neoprene 'O' rings are provided for weatherproof protection.



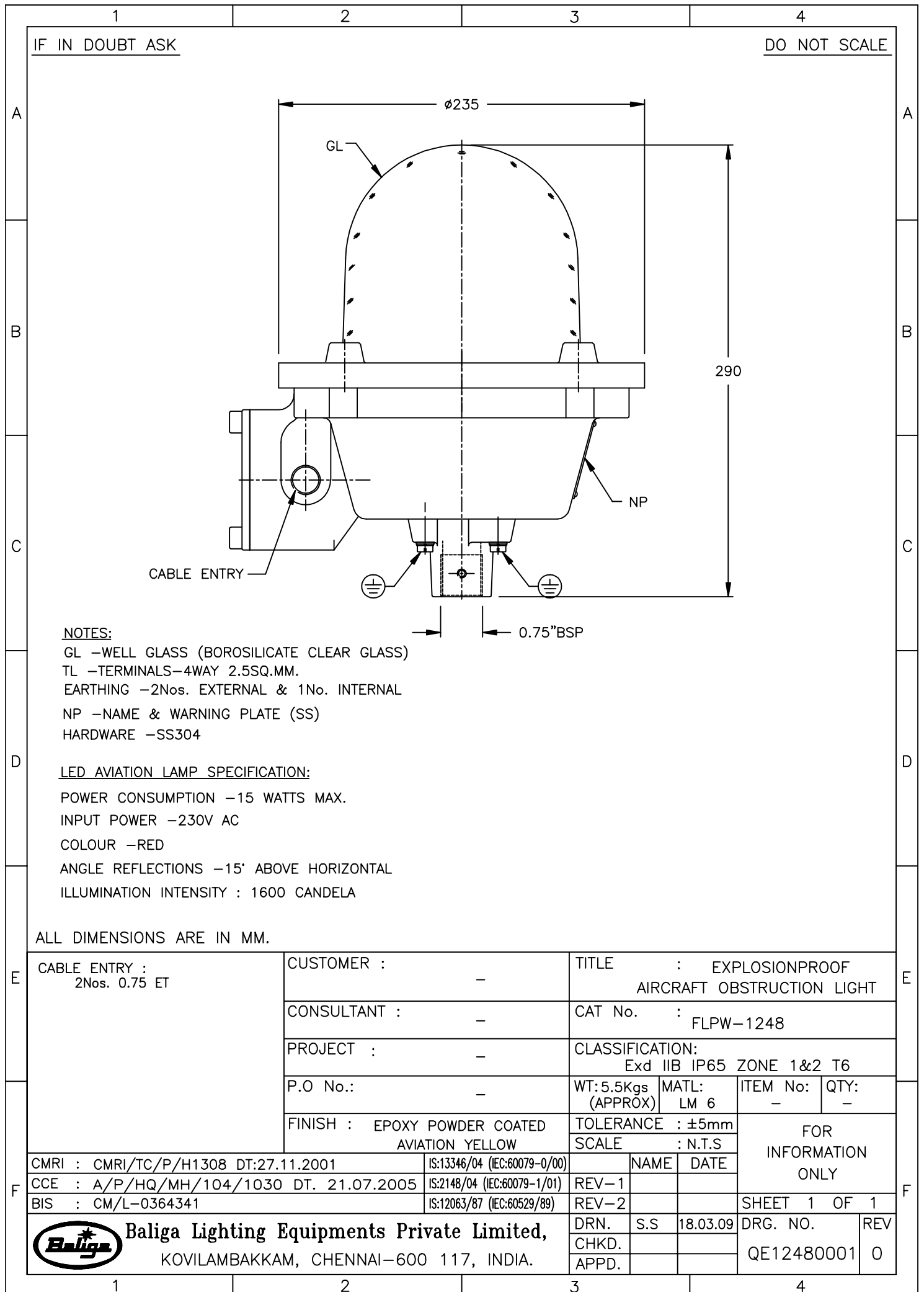
Type of protection	Flame Proof - Exd
Area Classification	Zone 1 & 2
Gas Groups	Group I, II A ,II B
Apparatus Standard	IS - IS-13346/2004 (IEC 60079-0/200) IS-2148/2004 (IEC 60079-1/2001)
CIMFR Certificate No.	CIMFR / TC / P / H 1308
Approvals	CCE
Temperature Rating	T6
Wattage Rating	18 W LED/36W LED

### Salient feature

- 1) LED's having long life (up to 35000 hrs.)
- 2) less power consumption
- 3) no regular maintenance required for lamp replacement
- 4) less heat dissipation

### Options

**A** Xenon / Filament lamp instead of LED lamp is available.



# केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)  
बरवा रोड, धनबाद - 826 001, झारखण्ड, भारत



ADDITIONAL FIRST COPY

## Central Institute of Mining and Fuel Research

Formerly : Central Mining Research Institute  
(Council of Scientific & Industrial Research)  
BARWA ROAD, DHANBAD-826 001, JHARKHAND, INDIA

### REGISTERED POST/COURIER SERVICE

No. CIMFR/TC/SR/H282  
I.D. No. 965/07

Dated: 17<sup>th</sup> July, 2008  
CODE NO. FLP/204F/08

To,  
**M/s. BALIGA LIGHTING EQUIPMENTS PRIVATE LIMITED,**  
389, Medavakkam Road,  
Kovilambakkam,  
**CHENNAI-600 117, India**

**Sub:** Supplementary Testing for **REVALIDATION** as per IS: 2148- 2004 (IEC 60079-1/2001) of your **Flameproof-cum-Weatherproof Aircraft Obstruction Light**, designated by **Cat. No. FLPW-1248** for application in Gas Groups: IIA & IIB atmospheres only.

**- Report on (REVALIDATION)**

**Your Ref. No. CMRI/6/287/IIB**

**dated: 26/12/2007**

Dear Sir,

Please find enclosed the **Supplementary Test Report** for **REVALIDATION** of the above sample as per IS: 2148-2004.

The above apparatus was earlier certified as per IS: 2148-1981 vide then CMRI Certificate No. CMRI/TC/P/H1308, dated: 27.11.2001 mentioned in the schedule of this report.

Charges of **Rs. 9,259/- (Rupees Nine thousand two hundred fifty nine)** only including applicable service charges involved towards the testing/issuing the schedule have been adjusted against the advance deposit made by you.

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CIMFR would dispose off the sample by public auction without any further NOTICE to you.

Kindly acknowledge receipt.

Thanking you,

Yours faithfully,

**(G. M. PRASAD)**

**HEAD OF THE DEPARTMENT  
TESTING CELL**

Encl.: As above  
Supplementary Report for Revalidation in Triplicate  
Copy to: 1. Head, Flame & Explosion Lab.  
2. Bill Section.

1 of 5

फोन-निदेशक Director  
Ph.: 0091-326-2202326/2203043

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Ph.: 0091-326-2203010/2203070/2203090/2205045/2209041

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कार्यालय के दिन : सोमवार से शुक्रवार तक Working days : Monday to Friday