

T e s t R e p o r t

Report No : L10539 A (Amd.2)
Client: : Tenmat
Ashburton Road West
Trafford Park, Manchester
M17 1RU
Description : Conical Fire Hood
Manufacturer : Not Disclosed
Type/Model : Firefly 130 Flanged loft cone
Lamp Type : 12V - 50W MR16 (G5.3) – Dichroic reflector
Condition on Receipt : Good
Test Specification : Refer to page 3 of this test report
Date Tested : 13/11/09
Conclusion : On the basis of the tests undertaken, the submitted sample is considered to COMPLY with the requirements of the above specification
Date Issued : 13/07/10
Signed: **G. RICHARDS**
Position: Quality Manager

Approved: **S.W.POOLE**
Position: Laboratory Manager



These Test Results relate only to the unit tested. This Report and following report may not be reproduced except in full without the written approval of the Testing Laboratory.

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REPORT L10539 A (Amd.2)

Note: This amendment corrects dimensional errors contained in both the original report and amendment 1, and also references BS EN 60598-2-2:1997 in the conclusion.

Introduction

The Lighting Association Laboratories were commissioned to perform a thermal test to the clients own specification with reference to clause 12.4 of BS EN 60598-1:2008 and BS EN 60598-2-2:1997* on the clients fire hood, used in conjunction with a readily available recessed luminaire supplied by the client.

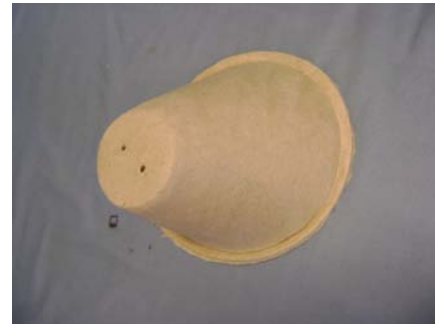


Product details

The product is a fire hood for use in conjunction with recessed luminaires to maintain fire barriers in commercial and domestic premises.

The hood has the following dimensions:-

Height – 160 mm, Thickness – 10 mm,
External diameter at base – 260 mm (length),
External diameter at base – 230 mm (width),
External diameter at top – 80 mm,



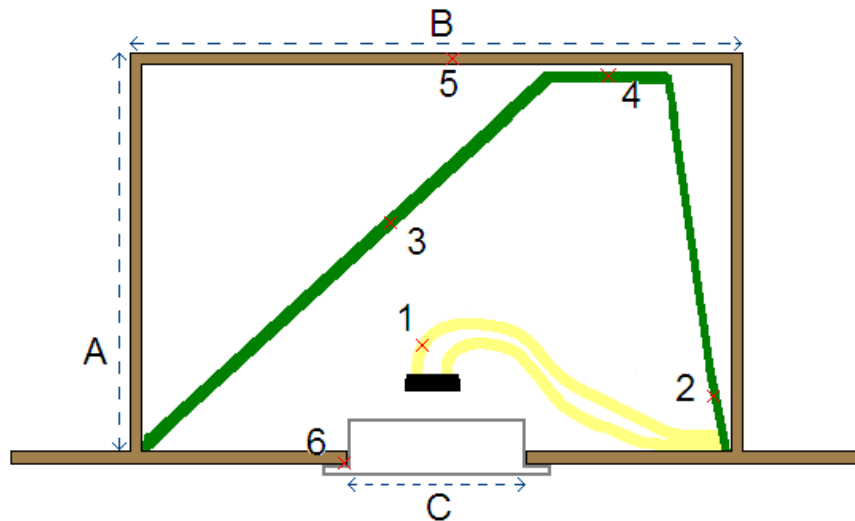
* Please note that the thermal tests of BS EN 60598-1 and BS EN 60598-2-2 are identical to those detailed in the international standards IEC 60598-1 and 60598-2-2 from which AS 60598-1 and AS 60598-2-2 are derived from.

Continued on following page

REPORT L10539 A (Amd.2)

Test specification

The luminaire was installed in a false suspended ceiling, the ceiling being made of 12 mm thick porous wood fibre board. The fire hood was placed over the top of the luminaire, so as to position the luminaire centrally within the fire hood. The edges of the fire hood were sealed down onto the false ceiling and a recess box was constructed, using 19 mm thick laminated wood, around the fire hood touching on all sides. The recess box was then covered in fibre-glass loft insulation 200 mm thick.



Dimensions of test box:-

A = 170 mm

B = 280 mm

C = 80 mm

Positions marked 1 – 6 are the locations of the thermocouples used on the fitting

1 = Insulation 10 mm from lampholder terminal

2 = Side of fire hood (50 mm from base)

3 = Side of fire hood (80 mm from base)

4 = NOT USED

5 = Mounting surface (rear of recess box)

6 = Mounting surface (under rim of luminaire)

Continued on following page

REPORT L10539 A (Amd.2)

Test specification (continued)

The testing was conducted in a draught proof enclosure as detailed in Annex D of BS EN 60598-1:2008, the luminaire was fitted with a 50W 12V Dichroic lamp operated at 1.05 times the lamps rated wattage (52.5W).

The luminaire was allowed to reach thermal stability – i.e temperature change <1°C per hour – prior to recording the temperatures measured below.

Results

All thermal results are referenced to an ambient of 25°C as required by the standard

The following results were recorded:-

Position	Recorded result	Referenced to 25°C ambient	Temperature limit*
0 (ambient)	24.0	25.0	--
1	160.0	161.0	200
2	76.7	77.7	90
3	73.9	74.9	90
5	93.0	94.0	90
6	91.2	92.2	90

* temperature limits have either been taken from table 12.2 of BS EN 60598-1:2008 or have been specified by the client

The results highlighted in blue are over temperatures to the limits given in BS EN 60598-1:2008 (tables 12.1 and 12.2) however, the standard does give a 5°C tolerance for errors and uncertainties.

Conclusion

Due to the recorded temperatures the fire hood/recessed luminaire/lamp combination are deemed to comply with the requirements of the test specification with regards to BS EN 60598-1:2008 and BS EN 60598-2-2:1997.

Continued on following page

REPORT L10539 A (Amd.2)

Illustrations



End