

SHADE SAFETY ASSESSMENT

There is no dedicated safety standard for the approval of lamp shades.

It is the industry accepted practice that these items are tested and conform to clauses 3.2.8 (marking), 3.3 (instructions), 12.3 (endurance test) and 4.15.1 (flammable materials) of EN 60598-1: Luminaires General Requirements and Tests.

1. Marking

The shade must be marked with the maximum permissible wattage lamp that can be used with the product.

Note: It may also be required to include the shape (GLS, candle etc) and the technology (LED).

2. Instructions

Any assembly or mounting instructions required for the product to allow safe installation and operation will be reviewed.

3. Endurance Test

The shade should be tested as mounted in its normal use in an ambient temperature of the rated T_a (normally 25°C for the UK) for 240 hours operated on a 21 hours on / 3 hours off switching cycle.

The shade shall be tested with a test lamp supplied with 1.05 X voltage at which the rated wattage of the lamp is achieved.

At the end of the test period the shade and the luminaire to which it was mounted for operation shall show no damage and will not have become unsafe or unserviceable. All marking shall still be legible.

4. Flammability

Any part of the shade which is within 30mm of a heated part (ie the outer envelope / case of the lamp) should be subject to 650°C glow wire test of EN 60598-1.

Any flame or glowing of the material sample shall extinguish within 30s of removal of the glow wire and any drops from the material sample shall not ignite the tissue paper situated beneath the test sample.

5. Test Reports

LIA laboratory will issue a TEST REPORT upon completion of shade testing. It is not possible to issue a test certificate.

A test certificate can only be issued for products showing compliance to all relevant sections of an applicable standard as described in that standards scope

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6. Common Product Grouping

LIA laboratory is able to group products together under the rules of Annex S of EN 60598-1.

General grouping rules:

- Colour variants of the same product (generally the darkest colour is tested)
- Size variants of the same product with the same wattage rating (smallest product generally tested)
- Mounting type E27, B22, E14 and B15 gimbal types can be considered together
- Groups of products which do not have the same wattage rating, materials or construction methods cannot be tested as a group.
- Product groups which do not use the same lamp type (eg GLS, Candle, golfball) cannot be tested as a group even if they are the same wattage rating.

7. Testing

LIA laboratory can test lampshades of all types either with or without the luminaire supplied; We hold a stock of suitable test products on which lamp shades can be assessed.

As part of the standard assessment LIA laboratory would conduct the marking, instruction and endurance tests. Flammability tests would incur additional costs.

The LIA is UKAS accredited for the tests required to establish the safety of a light shade and all LIA shade test reports carry the UKAS accreditation marks.

RoHS assessment is not conducted by LIA Laboratory.

8. RoHS Assessment

There is no requirement for a lamp shade sold individually to be RoHS compliant. Any lamp shade sold combined with a luminaire must be RoHS compliant.

9. CE/UKCA Marking

There is no requirement to CE/UKCA mark a lampshade.

For more information see: <https://www.gov.uk/guidance/using-the-ukca-marking>