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Lighting Weld Test

Specification

A simple low-cost fixture was specified by the customer for the quality control laboratory. This was to hold a lighting assembly in a test where the welded contacts were pulled off.

A motorised test system was specified as the test needed to be repeatable and accurate.

Solution

A multi-purpose small wedge grip was used to hold both electrical contacts. The bulb assembly was held inside a mounting fixture attached to the motorised test stand.

To prevent point contact and possible damage to the bulb assembly, 2 pegs with rubber sleeves were used to secure it. The contacts were pulled to destruction at a test speed of 50mm/min with peak load being captured at fast rate of 1200Hz to ensure a high degree of repeatability between tests. A cable between the AFG and VersaTest stand was used to automatically reverse the crosshead of the stand to its start position after the contacts were broken.



System

- VersaTest Motorised Test Stand
- 1000N AFG
- Bulb Assembly Mounting Fixture
- Small Wedge Grip

Supplied to

GE Thorn Lighting, UK

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