



## T e s t R e p o r t

**Report No** : LS1309 Final Report  
**Client:** : Holscot Fluoroplastics Ltd  
Alma Park Road  
Alma Park Industrial Estate  
Grantham  
Lincs NG31 9SE  
**Description** : FT8/58W/840 Tubular Fluorescent Shatterproof Lamps  
**Lamp Type/Model** : Model No. 93333/37559  
**Condition on Receipt** : Good  
**Test Specification** : BS EN 61549:2003+A2:2010 – Requirements for double capped fluorescent fragment retention lamps. Impact resistance drop test (Clause 4.4.1) Ageing (Clause 4.4.2.2) Glow-wire test (Clause 4.3.1).  
**Date Tested** : 03/07/13-19/01/15  
**Conclusion** : See report  
**Date Issued** : 20/01/15  
**Expiry Date** : 19/01/20

**Signed:** S. RICHARDS  
**Position:** Photometrics Engineer

A handwritten signature in blue ink, appearing to read "S. Richards", written over a light blue rectangular background.

**Approved:** J. ADAMS  
**Position:** Laboratory Supervisor

### Page 1 of 5

These test results relate only to the unit(s) tested. This Report and any subsequent report(s) may not be reproduced except in full without the written approval of the Testing Laboratory.

Registered Office: Stafford Park 7, Telford, Shropshire, TF3 3BQ, United Kingdom  
Tel: +44 (0) 1952 290907 Fax: +44 (0) 1952 290908 Email: [lab@thelia.org.uk](mailto:lab@thelia.org.uk)  
Web: [www.lialab.org.uk](http://www.lialab.org.uk)  
Web: [www.lialabcert.org.uk](http://www.lialabcert.org.uk)



### **Clause 4.4.1 – Impact Resistance Drop Test – Before Ageing**

The client supplied 60 new unused T8 Tubular Fluorescent lamp samples in order to conduct the drop test in accordance with clause 4.4.1 of BS EN 61549:2003+A2:2010.

Each lamp was dropped horizontally from a height of 4 metres onto a flat concrete surface. The concrete surface around the lamp was examined in order to determine whether any glass had escaped from the lamp. The lamp coating was then visually examined for signs of holes where glass could escape, and to confirm that the lamp caps had been retained by the coating.

#### **Standard requirements**

The requirement of the standard is that the lamps are considered to have passed the test if all glass fragments and the lamp caps are retained by the coating/sleeving. Glass fragments are allowed to puncture the coating/sleeving but must be retained by it.

#### **Test results**

All of the new unused T8 lamp samples complied with the requirements of the standard.

---

**Continued on following page**



### **Clause 4.4.2.2 – Ageing Test**

The client supplied 60 new unused T8 Tubular Fluorescent lamp samples for ageing as per clause 4.4.2.2 in order to conduct the drop test in accordance with clause 4.4.1 of BS EN 61549:2003+A2:2010.

### **Clause 4.4.1 – Impact Resistance Drop Test – After Ageing**

The aged T8 Tubular Fluorescent lamp samples were subjected to the drop test in accordance with clause 4.4.1 of BS EN 61549:2003+A2:2010.

Each lamp was dropped horizontally from a height of 4 metres onto a flat concrete surface. The concrete surface around the lamp was examined in order to determine whether any glass had escaped from the lamp. The lamp coating was then visually examined for signs of holes where glass could escape, and to confirm that the lamp caps had been retained by the coating.

### **Standard requirements**

The requirement of the standard is that the lamps are considered to have passed the test if all glass fragments and the lamp caps are retained by the coating/sleeving. Glass fragments are allowed to puncture the coating/sleeving but must be retained by it.

### **Test results**

All of the aged T8 lamp samples complied with the requirements of the standard.

---

**Continued on following page**



### **Clause 4.3.1 – Glow-wire Test**

A sample of the shatterproof coating material from the lamps was then subjected to the Glow-wire test at 650°C.

#### **Standard requirements**

The requirement of the Standard is that the duration of any burning shall not exceed 30 seconds after removal of the Glow wire and any burning drop from the sample shall not ignite the underlying parts of tissue paper spread out horizontally 200mm below the sample.

#### **Test results**

The shatterproof coating sample did not ignite when the Glow-wire was applied to the sample. No drop occurred to the tissue paper situated beneath the test sample. The sample is therefore deemed to comply with the requirements of the standard.

---

**Continued on following page**

**This page is to be read in conjunction with the first page of this report**

## ILLUSTRATION



---

**End**

**This page is to be read in conjunction with the first page of this report**