

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

**Report No** : L16455

**Client:** : Penhale Quantock Ltd  
Units 13-15 Roughmoor Enterprise Centre  
Roughmoor Trading Estate  
Williton  
Somerset  
TA4 4AT

**Description** : Solar Bulkhead

**Manufacturer** : Not Disclosed

**Type/Model** : Solar

**Test Specification** : BS EN 60598-1:2015 (Section 9 only - tests for resistance to dust and moisture) – IP65 with Impact testing to BS EN 62262: 2002 (clause 6 only) and using test apparatus as described in BS EN 60068-2-75:1997

**Date Testing Started** : 09/05/2017

**Conclusion** : The sample tested complied with the above specification – IP65 & IK10 (20 joules)

**Date of Issue** : 12/05/2017

**Date of Expiry** : 11/05/2022

**Signed:** A.BOROVY  
**Position:** Laboratory Engineer



**Approved:** M.LLOYD  
**Position:** Head of Department –  
Product Safety



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## **INTRODUCTION**

Penhale Quantock Ltd have supplied the product identified in Table 1. for determination of Ingress Protection rating in accordance with the specification detailed on page one of this report.

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	Solar Bulkhead
Model No.	Solar
Number of Samples	One
Condition on Receipt	Good
Nominal Dimensions	L380mm x W380mm x H115mm
Classification	Class I IP65 IK10
Product Supply Requirement	220-240V 50Hz
Lamp Type and Power	LED 15.7W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

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## **RESULTS**

### **CLAUSE      CLAUSE TITLE AND RESULT**

**6.            Test to verify the protection against mechanical impacts-IK10 at an impact energy of 20J**

The luminaire (front face & rear) was subjected to 3 impacts (6 in total) with the pendulum impact hammer at different points of each face of the product at an impact energy of 20J (IK10).

**Plastic frame and plastic shade of luminaire.**

After the impact test neither the plastic frame or the plastic side panels of the luminaire showed any visible signs of damage, and the impacts applied did not affect creepage and clearance distances, IP rating or protection against electric shock.

The sample is therefore deemed to comply with the test specification as stated on page 1 of this report (IK10).

**9.            RESISTANCE TO DUST AND MOISTURE**

The luminaire was subjected to tests for ingress of dust and water in accordance with the requirements of BS EN 60598-1 Section 9. At the end of the test period the sample luminaire was examined with the following results:

**9.2.2        TEST FOR INGRESS OF DUST**

When the luminaire was subjected to the test for ingress of dust, it was deemed to comply with the requirements for dust tight luminaires, i.e. ingress protection classification IP6X.

**9.2.6        TEST FOR INGRESS OF WATER**

When the luminaire was subjected to the test for ingress of water, it was deemed to comply with the requirements for Jet-proof luminaires, i.e. ingress protection classification IPX5.

Upon completion of the above test the luminaire was immediately subjected to the electric strength test specified in section 10.2.2 of the standard.

**The luminaire is therefore deemed to comply with the requirements for ingress protection classification IP65 & IK10.**

**NO OTHER TESTS WERE PERFORMED ON THIS SAMPLE.**

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## DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

## ILLUSTRATION

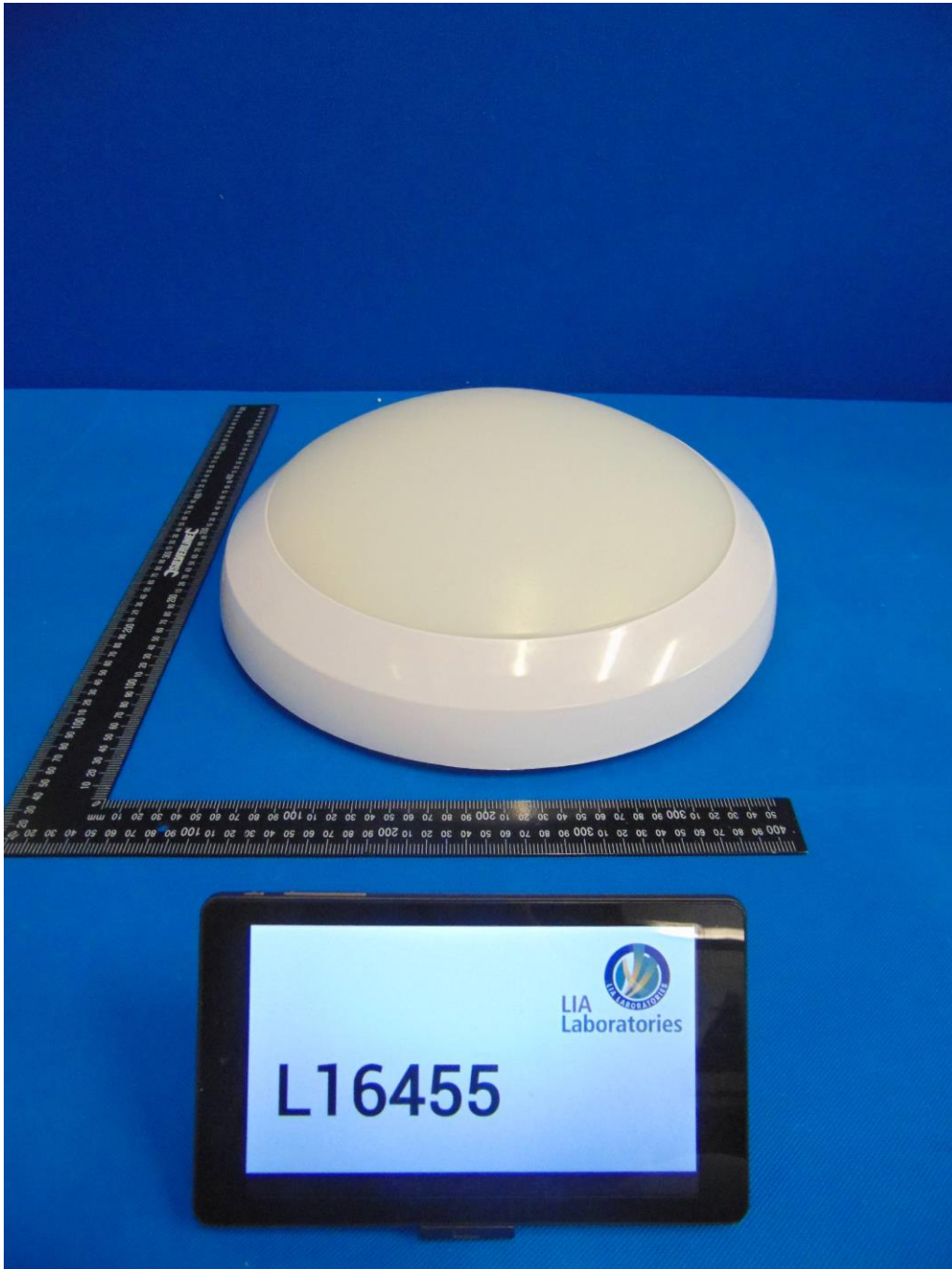


Figure 1. *Product image*

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End

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