

TEST REPORT

SABS

Your ref: PO 013900
Our ref: 2335/10-227
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Date: 12 March 2010

Electroweb Electronics
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CENTURION
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IP 65 RATING TEST ON A STREET LIGHT

1. DESCRIPTION OF SAMPLE

The Powelite-Street Light consisted of a main body with a light compartment, control gear compartment and a spigot. The lens assembly was secured to the main body by means of six screws. Control gear lid was secured to the main body by means of four screws.

The main body was made from a high grade aluminium casting and the spigot cover was made from mild steel. The light compartment consisted of six power LED's which allow the unit to run efficiently and without maintenance. A silicone was used between glass lens assembly and the light compartment to uphold the required IP rating.

2. TEST ITEM

Powelite-Street Light.

2.1 Customer

The Powelite Street Light for testing was supplied by Electroweb Electronics cc.

2.2 Identification

The sample was allocated an E.P.T laboratory sample No: 10-227.

2.3 Markings

The sample was marked as follows:

Z - POWELITE
High Beam optics
LED Power Street Light
Manufactured by:
Electroweb Electronics

3. PHOTOGRAPHS...

1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria, 0001. Tel +27 12 428 7911, Fax +27 12 344 1568

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4. TESTS REQUESTED

At the request of Electroweb Electronics and further to their order No: PO013900 dated 12 April 2010, the sample was tested in order to verify compliance with the requirements of the specification as laid out under "Test Methodology".

5. TEST METHODOLOGY

The sample was tested in accordance with sub clauses 9.2.2 and 9.2.6 of section 9 "Resistance to dust, solid objects and moisture" of SANS 60598-1: 2007 "Luminaires: General requirements and tests".

5.1 Dust Test (IP 6X): Method (SANS 60598-1, clause 9.2.2)

- The sample was operated at a supply voltage of 230V inside the dust test chamber, with doors open, until a constant temperature was established.
- Whilst operating, the sample was placed inside the dust chamber and doors were then closed.
- Talcum powder was suspended inside the dust test chamber by means of a vibration unit.
- After 1 minute the sample was switched off and allowed to cool for at least 3 hours whilst the talcum powder was kept in suspension during cooling down period.

5.2 Water test (IP X5): Method (SANS 60598-1, clause 9.2.6)

- The sample was switched off after reaching a constant temperature and was immediately subjected to a water jet test for 15 minutes from all directions by means of a hose having a nozzle of internal diameter of 6,3 mm at a delivery rate of 12,5 l/min.

6. RESULTS

Neither dust nor water **entered** the sample when tested in accordance with the requirements of above mentioned specification.

7. CONCLUSIONS

The Powelite-Street Light **complied with an IP65 rating**, during testing in accordance with the requirements of the specification as laid out under "Test methodology" above.



Tested by: **RM Radebe**
TEST OFFICER



Report approved and checked by: **P Heigers**
TECHNICAL SIGNATORY

EXPLOSION PREVENTION TECHNOLOGY