

The Managing Director
ELECTROWEB (PTY) LTD
Attention: Mr G Boecker
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Our ref: CE970A
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Report : 2330/CE970A
Date: 2009-08-19
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LED LUMINAIRE

1. SAMPLE DESCRIPTION

The sample consisted of an Electroweb Z-lite lighting luminaire equipped with LED lights and round reflector system.

For description of sample please refer to photo on page 4 of this report.

2. SAMPLE SUBMITTED

The sample was received in a condition suitable for testing.

Date sample received	:	2009/07/16
Starting date of test	:	2009/08/07
Completion date of test	:	2009/08/17

3. PHOTOGRAPH OF SAMPLE

See Annexure A.

4. TESTS REQUESTED

4.1 Photometric test in accordance SANS 475 as per customer request.

5. METHOD OF TEST

5.1 Photometric test.

5.1.1 The luminaire was mounted horizontally in the centre of a rotating mirror distribution photometer (lamp compartment horizontal).

5.1.2 The electrical connections were made according to the instructions on the control gear which was connected to a stabilized alternating current supply. The supply was held at 220 V r.m.s \pm 0,2 % and the frequency at 50 Hz \pm 0,5 % throughout the duration of the test.

5.1.3 Measurements were taken with a vision-corrected photocell at a test distance of approximately 21,5 m from the light centre of the luminaire.

5.1.4 The 0-180 degrees vertical plane was taken through the centre and along the width of the luminaire. (Street-side / Street-side)

5.1.5 The 90 - 270 degrees vertical plane was taken through the centre and along the length of the luminaire. (Street-side / House-side)

5.1.6 During all the measurements the ambient temperature was held at 25 \pm 2 °C.

6. SUBCONTRACTING OF LABORATORY

None.

7. TEST RESULTS

7.1 Photometric Results.

7.1.1 The luminous intensities (cd) are given on the attached data sheets.

7.1.2 The attached Graph 1 gives the luminous intensity distribution diagram in the form of a polar curve for the vertical plane 0-180 degrees.

7.1.3 The attached Graph 2 gives the luminous intensity distribution diagram in the form of a polar curve for the vertical plane 90 - 270 degrees.

7.1.4 The attached Graph 3 gives the iso-candela diagram as derived from the polar curves.

This test was performed by SABS Commercial (Pty) Ltd.

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.

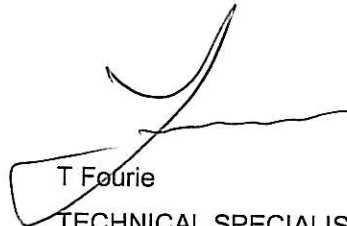
(Refer also to the complete conditions printed on the back of official test reports.)

8. REMARKS

The estimated uncertainty of measurement of the photometric measurements is approximately 6.5 % for a 95 % level of confidence.



E Struthers
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