

Microtronix Manufacturing  
Attention: Ms Odette Norman  
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Bromhof, Strijdom Park  
Randburg

Your ref.: O/No.MAT034131  
Our ref.: DE720A  
Enquiries: KD Dhimmar  
Tel.: 012 428-6220  
Report No.: 2330/ DE720A  
Date: 25-11-2010  
Page: 1 of 4

## SECONDARY LIGHTS FOR MOTOR VEHICLES

### 1. DESCRIPTION OF SAMPLE

The sample consisted of a rear stop/position light equipped with an array of LED emitting red light. The light consisted of a black plastic housing approximately 105 mm in diameter and 20 mm deep. The circuitry was mounted inside the housing. The front opening was permanently covered with a clear faceted plastic lens. Flying leads were provided for the connection to the supply.

The lens was marked as follows: " TOP SANS 1376-3  
R-S1"

The housing was marked as follows: " WHITE = -Ve SOLID= +Ve  
STRPE= =+Ve Function 12V-24V".

See page 3 and 4 for the photographs of the sample.

### 2. TESTS REQUESTED

The testing of a LED rear stop/position light for compliance with the requirements of standard SANS 1376-3:2006, 'Lights for motor vehicles', Part 3 'Secondary lights' as referenced to in VC 8050.

### 3. CONCLUSION

The LED rear stop/position light complied with the requirements of standard SANS 1376-3:2006, 'Lights for motor vehicles', Part 3 'Secondary lights' as referenced to in VC 8050. See Table 1.

SANAS Accredited Testing Laboratory No. T0085

The acceptance of an item for test and the issue of a test report are subjected to the SABS's CONDITIONS OF TEST\*, from which the following have been extracted:

1. If published or reproduced by the client, a test report shall be reproduced in full, i.e. the reproduction shall contain the printed as well as the typed parts of the report, nothing excepted. In special circumstances an abridged form of the report or certain parts of the report may be published or reproduced, provided that the abridged form or partial version of the report is approved in writing by the President and CEO of the SABS before publication or issue.
2. A test report relates only to an item submitted for the actual test. It furnishes or implies no guarantee whatsoever in respect of a similar item that has not been tested.
3. The performance of a test and the issue of a test report do not imply approval by the SABS of the quality and/or performance of the item that has been tested. This does not authorize the use of a certification mark.

NOTE - An unlawful statement implying that an item has been approved by the SABS constitutes a punishable offence in terms of the Standards Act.

4. While every endeavour will be made to ensure that a test is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test, the SABS or its officers shall in no way be liable for any error made in carrying out the test or for any erroneous statement, whether in fact or in opinion, contained in a report issued pursuant to a test.

\*Obtainable upon request from the Chief Executive Officer, SABS, Private Bag X191, Pretoria, 0001.

#### 4. SAMPLE SUBMITTED

The sample received in a condition suitable for testing.

Date sample received : 12-11-2010  
 Starting date of test : 22-11-2010  
 Completion date of test : 23-11-2010

#### 5. TEST METHOD

The tests were conducted in accordance with the methods described in section 5 of SANS 1376-Part 3.

#### 6. TEST RESULTS

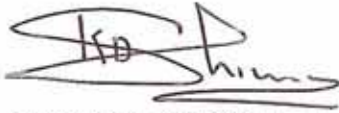
The results of the tests are given in Table 1.

TABLE 1 — SECONDARY LIGHTS

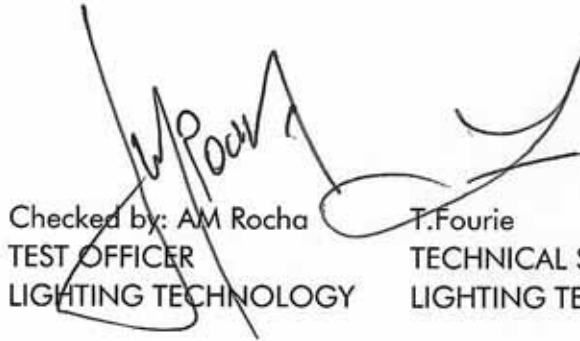
PROPERTY	CLAUSE	RESULTS
General construction	Clause 3.1	Complied
Lamps	Clause 3.2	Not applicable
Grouped, combined and incorporated lights	Clause 3.3	Complied
Colour	Clause 3.5	Complied
Chromaticity co-ordinates	Clause 3.6	Complied
Stop light		See Annex A
Position light		See Annex B
Photometric properties	Clause 3.9	Complied
Stop light		Complied See Annex C-F
Position light		Complied See Annex G-L
Marking	Clause 4	Complied

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.)



Tested by: KD Dhimmar  
TEST OFFICER  
LIGHTING TECHNOLOGY

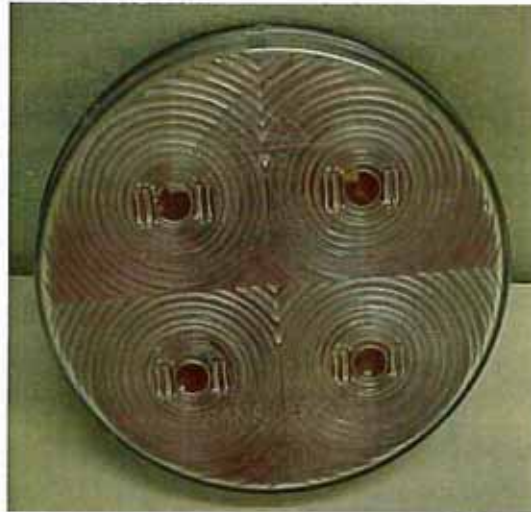


Checked by: AM Rocha  
TEST OFFICER  
LIGHTING TECHNOLOGY



T. Fourie  
TECHNICAL SIGNATORY  
LIGHTING TECHNOLOGY

PHOTOGRAPH OF THE SAMPLE



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PHOTOGRAPH OF THE SAMPLE

