

TEST REPORT**SABS****TL3D**

C&J SERVICES
 Attention: Mr S de La Porte
 PO Box 17278
 Congella
 4013

Your ref.: 1256
 Our ref.: YE328D
 Enquiries: KD Dhimmar
 Tel.: 428-6220
 Report No.: 7232/YE328D
 Date: 16 March 2005
 Page: 1 of 3

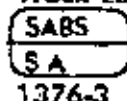
SECONDARY LIGHTS FOR MOTOR VEHICLES**1. SUBJECT**

The testing of a rear direction indicator light against the requirements of specification SABS 1376-2002, 'Lights for motor vehicles', Part 3 'Secondary lights' as referenced to in VC 8050.

2. DESCRIPTION OF SAMPLE

The sample consisted of a rear direction indicator light for operation with a P21W lamp. The light consisted of a silver plastic housing which was dome shaped and approximately 108 mm in diameter and 55 mm deep. The inner part of the housing had an aluminized reflector fitted to it. A round amber lens was permanently fixed to the front of the housing. The light assembly had a black rubber seal around it. A removable lamp socket was provided for connection to the supply.

The lens was marked: " TOP
 VS-L06
 Truck-Lamp "



2a DOT SAE I 03 YELLOW
 DOT SAE IST 03 RED "

A sticker was fitted to the back of the housing marked as follows:
 " SUGGESTED BULB SIZE P21W "

(See also page 3 for photograph)

3. SELECTION OF SAMPLE

The sample was selected by the test sponsor.

SANAS Accredited Testing Laboratory No. T0085

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4. METHOD OF TEST

The tests were conducted in accordance with the methods described in Section 5 of SABS 1376-Part 3. For the purpose of the photometric test the light assembly was fitted with a P21W reference lamp.

5. RESULTS OF TEST

5.1 The results of the tests are given in Table 1.

TABLE 1 — SECONDARY LIGHTS

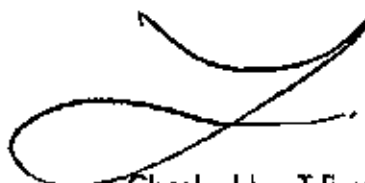
| DESCRIPTION OF SAMPLE | RESULT | REQUIREMENT |
|---|----------------------------------|-------------|
| General construction | Complied | Clause 3.1 |
| Lamps | Complied | Clause 3.2 |
| Grouped, combined and incorporated lights | Not applicable | Clause 3.3 |
| Colour | Complied | Clause 3.5 |
| Chromaticity co- ordinates | Complied See attached diagram | Clause 3.6 |
| Life (sealed lights) | Not applicable | Clause 3.8 |
| Photometric properties | Complied See Annex A | Clause 3.9 |
| Marking | Complied | Clause 4 |

6. CONCLUSION

The rear direction indicator light complied with the requirements of specification SABS 1376-2002, 'Lights for motor vehicles', Part 3 'Secondary lights' as referenced to in VC 8050, for the clauses for which it was tested.



Tested by: KD Dhimmarr
TEST OFFICER
LIGHTING TECHNOLOGY



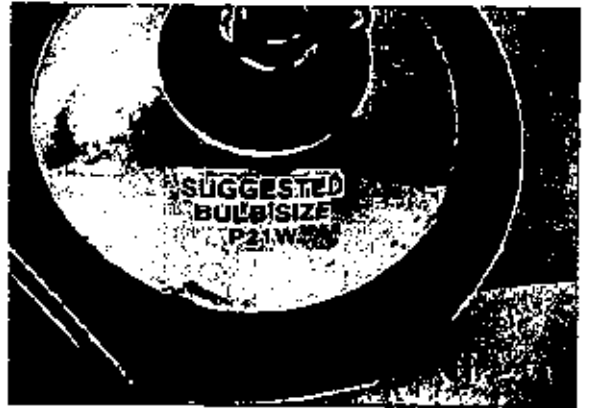
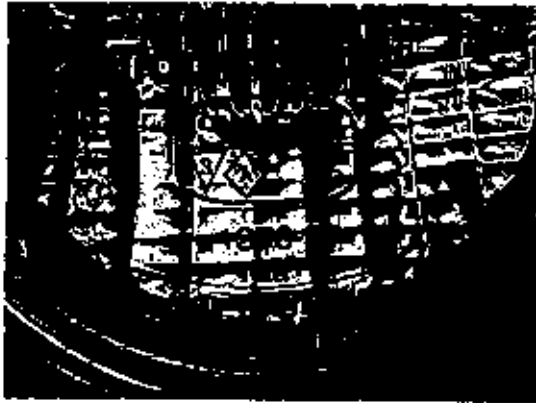
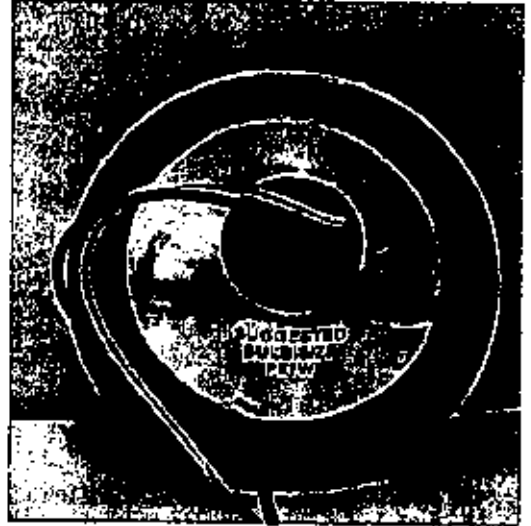
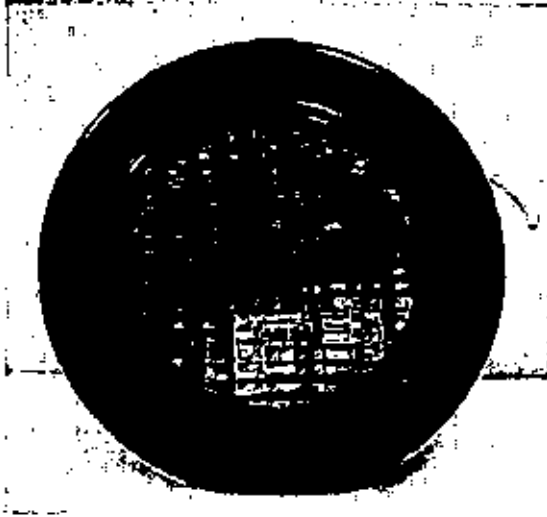
Checked by: T. Fourie
TECHNICAL SIGNATORY
LIGHTING TECHNOLOGY

Testing and Conformity Services (Pty) Ltd - An affiliate of the SABS

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PHOTOGRAPH OF THE SAMPLE



This test was performed by Testing and Conformity Services (Pty) Ltd, an affiliate of the SABS. 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.)

SABS

Photometric Test Report
 SABS 1376-3
 REAR DIRECTION INDICATOR CAT 2a

Date 18. Mar 2005
 Time 12:33:11
 Department Lighting Technology
 Name KALPESH
 Page 1

Project: C&J SERVICES
 YE328D
 08/01
 AMBER DELUXE TL3D

Channel 3.162m

| | H | V | MIN | MAX | SAMPLE | |
|---------|--------|--------|-------|--------|--------|----|
| 10U/6L | 5.00 | 10.00 | 8.00 | | 228.00 | cd |
| 10U/5R | -5.00 | 10.00 | 8.00 | | 252.00 | cd |
| 5U/20L | 20.00 | 5.00 | 4.00 | | 60.10 | cd |
| 5U/10L | 10.00 | 5.00 | 8.00 | | 195.40 | cd |
| 5U/V | 0.00 | 5.00 | 28.00 | | 306.00 | cd |
| 5U/10R | -10.00 | 5.00 | 8.00 | | 207.00 | cd |
| 5U/20R | -20.00 | 5.00 | 4.00 | | 64.00 | cd |
| 10L/V | 10.00 | 0.00 | 14.00 | | 193.00 | cd |
| SL/V | 5.00 | 0.00 | 36.00 | | 267.00 | cd |
| H/V | 0.00 | 0.00 | 40.00 | 350.00 | 308.00 | cd |
| 5R/V | -5.00 | 0.00 | 36.00 | | 282.00 | cd |
| 10R/V | -10.00 | 0.00 | 14.00 | | 202.00 | cd |
| 20L/5D | 20.00 | -5.00 | 4.00 | | 37.60 | cd |
| 10L/5D | 10.00 | -5.00 | 8.00 | | 153.80 | cd |
| H/5D | 0.00 | -5.00 | 28.00 | | 231.70 | cd |
| 10R/5D | -10.00 | -5.00 | 8.00 | | 168.40 | cd |
| 20R/5D | -20.00 | -5.00 | 4.00 | | 44.80 | cd |
| 5L/10D | 5.00 | -10.00 | 8.00 | | 165.90 | cd |
| 5R/10D | -5.00 | -10.00 | 8.00 | | 151.80 | cd |
| H/V | 0.00 | 0.00 | | | 308.00 | cd |
| 80R/15U | -80.00 | 15.00 | 0.30 | | 2.92 | cd |
| 80R/15D | -80.00 | -15.00 | 0.30 | | 0.91 | cd |
| 80L/15U | 80.00 | 15.00 | 0.30 | | 0.97 | cd |
| 80L/15D | 80.00 | -15.00 | 0.30 | | 2.08 | cd |
| 45L/15U | 45.00 | 15.00 | 0.30 | | 20.50 | cd |
| 45L/15D | 45.00 | -15.00 | 0.30 | | 42.30 | cd |
| 45R/15D | -45.00 | -15.00 | 0.30 | | 26.83 | cd |
| 45R/15U | -45.00 | 15.00 | 0.30 | | 26.98 | cd |
| H/V | 0.00 | 0.00 | | | 306.00 | cd |

Test passed

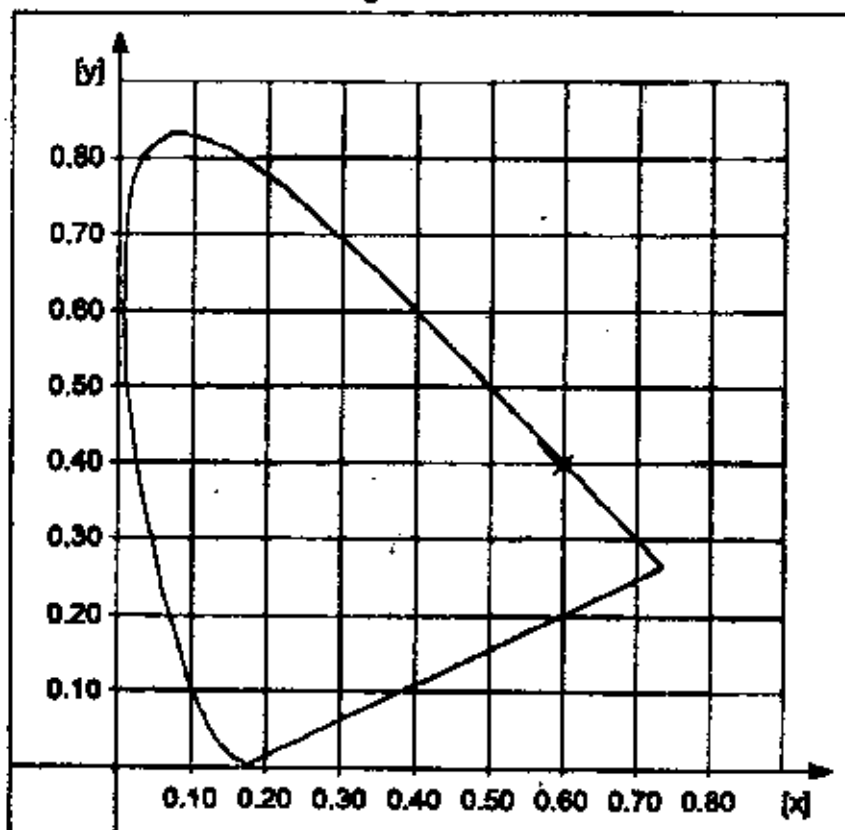
SABS

Photometric Test Report
 SABS 1376-3
 SABS 1376-3 Amber

Project : C&J SERVICES
 YE328D
 08/01
 AMBER DELUXE TL3D

Date 16. Mar 2005
 Time 12:34:08
 Department LIGHTING TECHNOLOGY
 Name KALPESH
 Page 1

colour region SABS 1376-3 Amber



Channel color standard

| | H | V | colour x | colour y | luminance |
|--------------|------|------|----------|----------|-----------|
| first angle | 0.00 | 0.00 | 0.600 | 0.399 | 38.890 |
| second angle | 0.00 | 0.00 | 0.600 | 0.399 | 38.900 |

Test passed

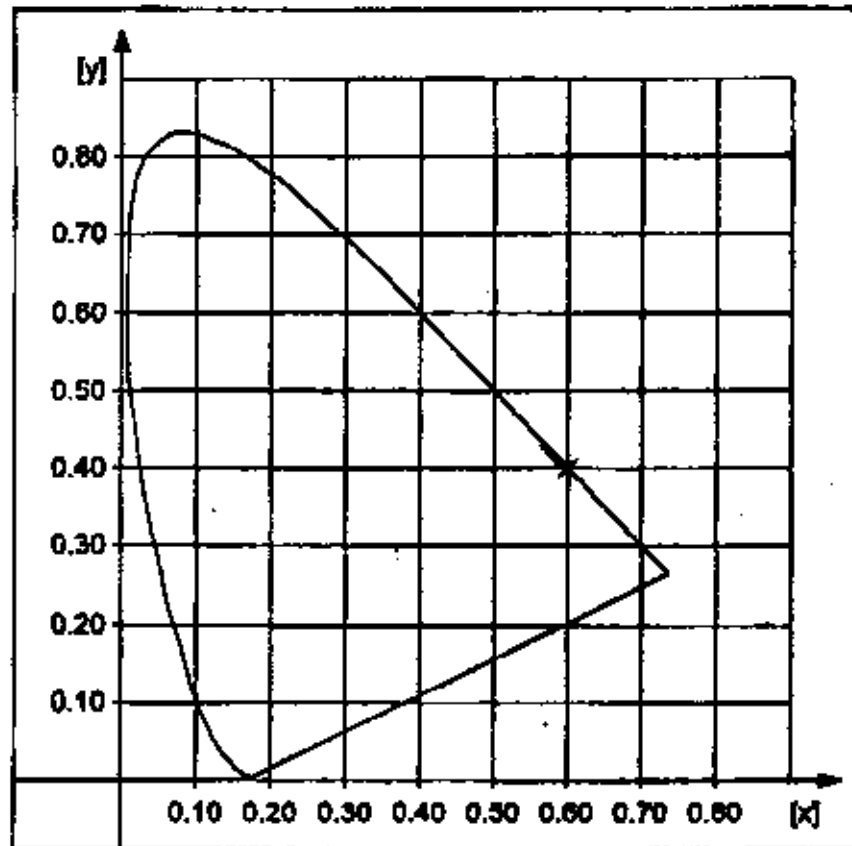
SABS

Photometric Test Report
 SABS 1376-3
 SABS 1376-3 Amber

Date 16. Mar 2005
 Time 12:34:08
 Department LIGHTING TECHNOLOGY
 Name KALPESH
 Page 1

Project: C&J SERVICES
 YE328D
 08/01
 AMBER DELUXE TL3D

colour region SABS 1376-3 Amber



Channel color standard

| | H | V | colour x | colour y | illuminance |
|--------------|------|------|----------|----------|-------------|
| first angle | 0.00 | 0.00 | 0.600 | 0.399 | 38.890 |
| second angle | 0.00 | 0.00 | 0.600 | 0.399 | 38.900 |

Test passed