

 ARTC 財團法人

車輛研究測試中心

AUTOMOTIVE RESEARCH & TESTING CENTER

公正 IMPARTIALITY / 科技 TECHNOLOGY / 服務 SERVICE

TEST REPORT

Report No. : B100LE0022

Report Date : Apr. 20, 2011

CUSTOMER : ROXIM TECHNOLOGIES, INC.

ADDRESS : No. 5, Lane 388, Sec. 1, Jieshou Rd., Sanxia, New Taipei
City 23743, Taiwan, R.O.C.

TEST LAB. : Automotive Lighting Testing & Photometric
Calibration Lab.

TEST ITEM : Performance Test Per StVZO 22A, TA23

TESTING CATEGORY : COMPLIANCE STANDARD TEST

PRODUCT : Front Lamp for Cycle

MODEL : RX5

THIS REPORT CONSISTED OF 8 PAGES IN TOTAL WHICH INCLUDING 1 COVER PAGE.
NON-PART OF THIS REPORT MAY BE ABSTRACTED OR REPRODUCED WITHOUT AUTHORIZATION.
THE TEST RESULT OF THIS REPORT APPLIED ONLY TO THE TESTED SUBJECT.



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Automotive Research & Testing Center

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TEST REPORT

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Page 1 of 4

Report Date : Apr. 20, 2011

Test Component : Front Lamp for Cycle : RX5

Regulation Applied : StVZO 22A, TA23

Manufacturer : ROXIM TECHNOLOGIES, INC.


(No. 5, Lane 388, Sec. 1, Jieshou Rd., Sanxia, New Taipei City
23743, Taiwan, R.O.C.)

Test Laboratory : Automotive Research & Testing Center

Description of samples : The client submitted two lamps
Cycle : Unspecified
P/N : RX5
Light Source : LED (6V) x 3

GENERAL DESCRIPTION : (Ref. Information Folder No. RX5 provided by ROXIM
TECHNOLOGIES, INC.)

MARKINGS : LENS : NONE

HOUSING : "  ROXIM "; " RX5 "; " www.roxim.net "; " RX5 "; " Made in
Taiwan "

MATERIAL : LENS : PMMA(Clear)
HOUSING : PC+ABS(Black)

GASKET : NONE

Signature of Responsible Laboratory Official
Laboratory Director :

Test Engineer :


Mao-Chun Shih


Wei-Cheng Chao

DESCRIPTION SHEET

Device Name : ROXIM TECHNOLOGIES, INC.
 Front Lamp for Cycle : RX5

LIGHT SOURCES :

<u>Function</u>	<u>Quantity</u>	<u>Rated Voltage</u>	<u>Rated Wattage</u>
Front Lamp	3 LED	6.0V	2.640W/2.658W

LED : Output reference luminous flux 107 lm

Rated wattage of LED at 6.0 voltage of Sample #1 is 2.640W .
 and Sample #2 is 2.658W .

TEST EQUIPMENT :

Photometrics (intensity of light emitted) test :

Goniometer : LMT GO-H 1200;
 * DC Power Supply : HP 6038A;
 * Photometer : LMT S1000;
 Integrating sphere : LMT UL 1500

Color test :

Colorimeter : LMT C1210

TEST PROCEDURE :

[Low voltage indicator] - StVZO 22A, TA23

Activated the lamp with batteries. The low voltage indicator should not light on before 1 hour.

[INTENSITY OF LIGHT EMITTED] - StVZO 22A, TA23

Both the two lamps were identical and used LEDs during photometric tests. The LEDs was activated at constant voltage control during tests.

The unit was mounted on the goniometer at a position simulating the standard on-cycle mounting position with the center of reference aiming to H-V. The bulb was activated at its rated luminous output, the lamp was rotated horizontally and vertically about the center of reference to each test point/field and the intensity was recorded. The receiving area lie within a 30mm diameter at 25.32m measurement distance, then the test data were converted as at 10 m.

DESCRIPTION SHEET (Contd.)

Device Name : ROXIM TECHNOLOGIES, INC.
Front Lamp for Cycle : RX5

[COLOR OF LIGHT EMITTED] - StVZO 22A, TA23

Activated the LEDs by increasing the voltage to 6.0V, mounted the assembly on the goniometer. Aimed the lamp's reference axis to the colorimeter head, then the chromaticity coordinates were read from LMT C1210.

RESULTS OF TESTS

[COLOR OF LIGHT EMITTED]

Test Performed by : Wei-Cheng Chao

Date : Apr. 20, 2011

Results of Test

	<u>x</u>	<u>y</u>	<u>Status</u>
Sample #1	0.3024	0.3045	pass
Sample #2	0.3068	0.3084	pass

Note : The constant voltage setting of LEDs was 6.0V .

[Low voltage indicator]

Test Performed by : Wei-Cheng Chao

Date : Apr. 20, 2011

[RX5]

	<u>light on duration</u>	<u>Status</u>
Sample #1	>1hr	pass

Note : Activated the lamp with batteries.

TEST DATA SHEET

Device Name : ROXIM TECHNOLOGIES, INC.
 Front Lamp for Cycle : RX5

RESULTS OF TESTS

[INTENSITY OF LIGHT EMITTED]

Test performed by : Wei-Cheng Chao
 Results of Test (Illuminance, lx)

Date : Apr. 20, 2011

(At test voltage : 6.0V)

TEST POINTS/FIELD	Regulation Required		Measured	
	Minimum	Maximum	Sample #1	Sample #2
Max.	--	1.20xH-V	59.69	58.07
H - V	20	--	54.30	54.69
3.4U - U	--	2.0	0.34	0.83
4L-4R	0.50xMax	--	34.18	34.96
1.5D-D	0.50xMax	--	50.98	48.54
5D-1.5D	2.5	--	3.13	3.31
5D 8L-8R	2.0	--	3.18	3.23

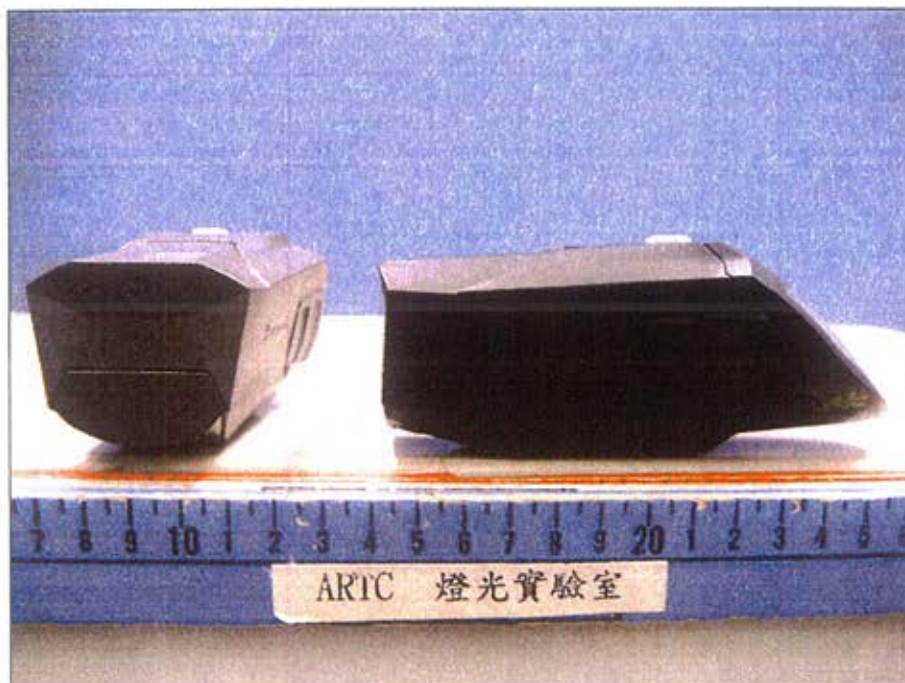
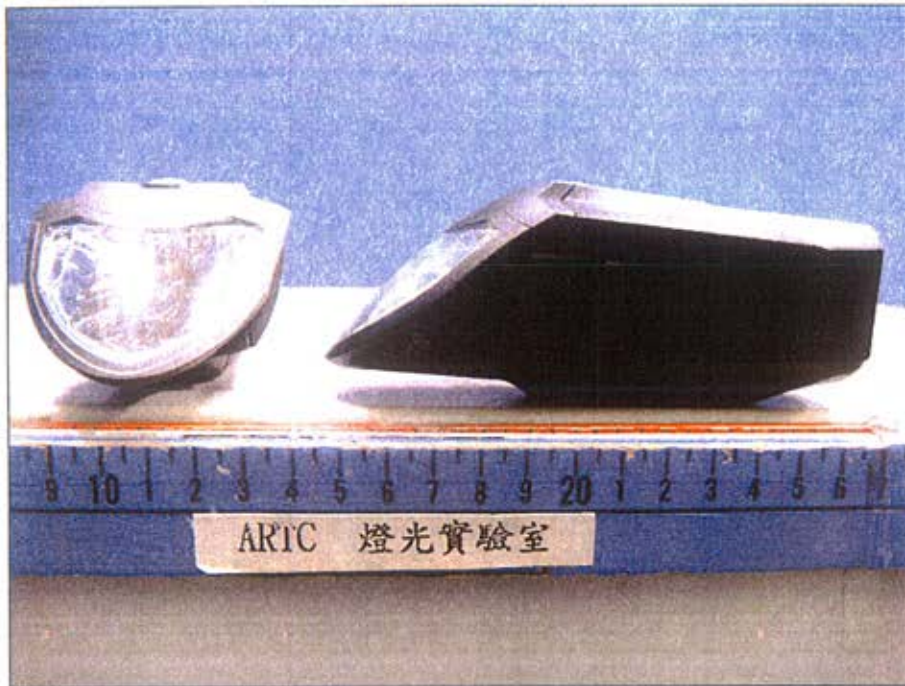
(At low test voltage : 4.1V)

TEST POINTS/FIELD	Regulation Required		Measured	
	Minimum	Maximum	Sample #1	Sample #2
Max.	--	1.20xH-V	58.12	58.84
H - V	20	--	52.51	55.26
3.4U - U	--	2.0	0.33	0.81
4L-4R	0.50xMax	--	33.06	35.03
1.5D-D	0.50xMax	--	49.89	48.68
5D-1.5D	2.5	--	3.11	3.33
5D 8L-8R	2.0	--	3.16	3.20

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SAMPLE PICTURES

Device Name : ROXIM TECHNOLOGIES, INC.
Front Lamp for Cycle : RX5



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