

ABC Marketing

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TEST REPORT 150416-2140091

Report Date: April 15, 2015
Test Component: ABC Marketing 2140091 License Plate Lamp (L)
Devices Tested: Three (3) Submitted April 3, 2015

TESTS (FMVSS-108)

SUMMARY

Photometric Tests: Incandescent License Plate Lamp

SAE J587e (License Lamp (L)): PASSED

Mechanical Tests: SAE J575e: PASSED

Color Tests: SAE J578c: PASSED

Socket Tests: SAE J567b: NOT APPLICABLE

Dimensional Tests: SAE J567b: NOT APPLICABLE

Responsible Engineer: Gary I. Robin

DESCRIPTION SHEET

Test Component: ABC Marketing 2140091 License Plate Lamp (L)

MARKINGS: LENS: None
HOUSING: "DOT- L-01"

LENS: MATERIAL: Clear PMMA (Acrylic)
SHAPE/DIMENSIONS: Trapezoidal, 70 mm Diameter x 40.5 mm deep
METHOD OF ATTACHMENT: Snap-fit
GASKET: None

HOUSING: MATERIAL: Black ABS
SHAPE/DIMENSIONS: Trapezoidal, 54 mm Diameter
METHOD OF ATTACHMENT: Stud mounted
Gasket: None

PAD: MATERIAL: Black PVC

BRACKET: Iron Electrophoresis deposition (EPD)

BULB USED :	FUNCTION	QUANTITY	SOURCE	VOLTAGE
	L	1	168 bulb	14V

TEST RESULT SHEET

Test Component: ABC Marketing 2140091 License Plate Lamp (L)

PHOTOMETRIC TESTS

Specification (s):	FMVSS-108 (SAE J587)
Tests performed by:	Gary I. Robin
Meets requirements at all points for:	SAE J587e (License Plate Lamp – L)
Test distance:	1.5 meters

All photometry tests performed at 14.00V

LENS AREA REQUIREMENTS

Lamp is a License Plate lamp - lens area requirements are not applicable.

BULB SOCKET REQUIREMENTS – SAE J567b

Lamp meets the bulb retention requirements of SAE J567b.

TEST RESULT SHEET

Test Component: ABC Marketing 2140091 License Plate Lamp (L)

MECHANICAL TESTS:

SAE J575e

Tests performed by:

Gary I. Robin

Sample: 2

Vibration Test (Shock test):

PASSED

There was no evidence of material physical weakness,
lens or reflector rotation, displacement or rupture of parts.

Moisture Test (Standard Rain Test):

PASSED

The device had 0cc of moisture accumulation inside device.
(≤ 2 cc Required).

Dust Test:

PASSED

No dust was found on the interior surfaces of the device.
The maximum candlepower after external cleaning was
at least 100% of the HV candlepower prior to exposure.

Thermal Test:

PASSED

There was no evidence of inferior function by temperature
& humidity.

Durability Test:

PASSED

TEST DATA SHEET

Test Component: ABC Marketing 2140091 License Plate Lamp (L)

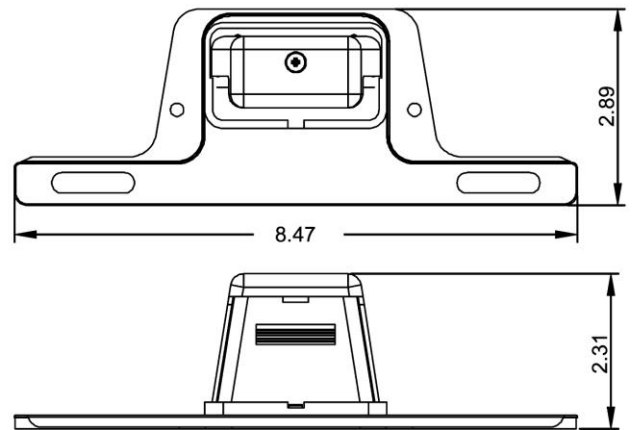
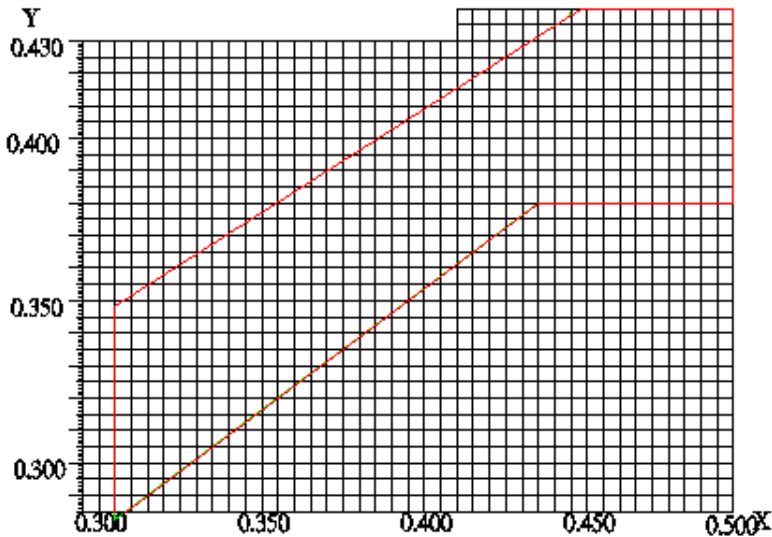
Test Item	Chroma Test
Test Date	April 13, 2015
Equipment	Power Supply, Chroma Meter

Test Condition:
 1. Normal indoor temperature (23~28) °C
 2. Voltage: 14.0 V.

Test Method:
 Install test lamp on tooling, test from a distance of 1.5 m using chroma test in CIE fixture

Determined Standard :
 $X > 0.31$ $Y < 0.44$
 $X < 0.5$ $Y > 0.38$
 $Y = 0.15 + 0.64X$ $Y = 0.05 + 0.75X$

Test Result :
 1. $X = 0.462$ $Y = 0.389$



Status: OK NG

Confirmed by:	Gary I. Robin	Tested by:	Gary I. Robin
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PHOTOMETRIC TEST DATA SHEET

Test Component: ABC Marketing 2140091 License Plate Lamp (L)
 Sample number: #3
 Specification: SAE J587e (License Plate Lamp)
 Test date: April 15, 2015

BLUB TYPE	168				Color		white			
RULE	SAE J587				SIZE		300x150 mm			
Test distance	1.5M		Voltage		14.0V		Current		0.35A	
	A=	3.02	B=	6.25	C=	5.63	D=	2.84		
	E=	4.15	F=	7.98	G=	9.42	H=	3.96		
Luminance TEST										
Unit				Requirement				Test Value		
cd/m ²				2 ↑				3.3		
Result				PASS						
Ratio of maximum to minimum Luminance										
Max/Min						Ratio				
20 ↓						3.8				
Result						PASS				
Tested by: Gary I. Robin										

Reviewed and approved for submittal by:

A handwritten signature in black ink that reads "Gary I. Robin". The signature is written in a cursive style with a large initial "G" and "R".

Gary I. Robin
Responsible Engineer

April 15, 2015