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TEST REPORT 211215-5264343

Report Date: December 15, 2021
Test Component: ABC Marketing 5264343 LED License Plate Lamp (L)
Devices Tested: Three (3) Submitted December 8, 2021

TESTS (FMVSS-108)

SUMMARY

Photometric Tests:	LED 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

Signature of responsible engineer:

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

Gary I. Robin

DESCRIPTION SHEET

Test Component: ABC Marketing 5264343 LED License Plate Lamp (L)

MARKINGS: LENS: None
HOUSING: "DOT L 10"

LENS: MATERIAL: PMMA (Acrylic)
SHAPE/DIMENSIONS: 43.55 mm x 15.2 mm
METHOD OF ATTACHMENT: Snap-fit
GASKET: None

HOUSING: MATERIAL: Chrome plated brass
SHAPE/DIMENSIONS: 65.7 mm
METHOD OF ATTACHMENT: Screw mounted

PAD: MATERIAL: Black EVA

BULB	FUNCTION	QUANTITY	SOURCE	VOLTAGE
USED : _____				
	L	4	LED	14V

TEST RESULT SHEET

Test Component: ABC Marketing 5264343 LED License Plate Lamp (L)

PHOTOMETRIC TESTS

Specification (s): FMVSS-108 (SAE J587)
Tests reviewed by: Gary I. Robin
Meets requirements at all points for: SAE J587e (License Plate Lamp – L)
Test distance: 150 feet

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 is a sealed unit. The bulb socket requirements are not applicable.

TEST RESULT SHEET

Test Component: ABC Marketing 5264343 LED License Plate Lamp (L)

MECHANICAL TESTS: SAE J575e

Tests reviewed 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 and humidity.

Durability Test: PASSED

TEST DATA SHEET

Test Component: ABC Marketing 5264343 LED License Plate Lamp (L)

Test Item	Chroma Test
Test Date	December 15, 2021
Equipment	Power Supply, Chroma Meter

Test Condition:

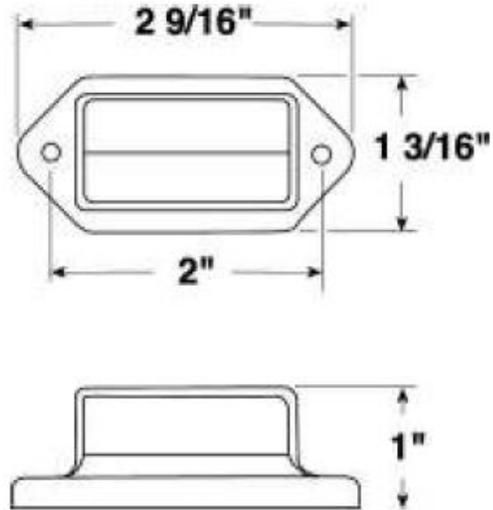
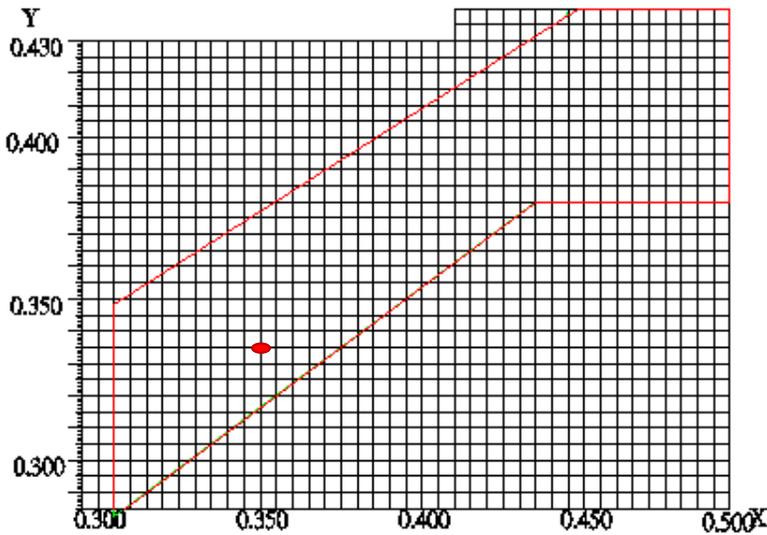
1. Normal indoor temperature (23~28) °C
2. Voltage: 14.0 V.

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=0.350 Y=0.336



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 5264343 LED License Plate Lamp (L)
 Sample number: #1
 Specification: SAE J587e (License Plate Lamp)
 Test date: December 15, 2021

BLUB TYPE	LED		Color		white				
RULE	SAE J587		SIZE		300x150 mm				
TEST DISTANCE	1.5M		VOLTAGE		14V		CURRENT		0.033A
	A=	7.7	B=	61.0	C=	61.2	D=	9.7	
	E=	3.8	F=	10.8	G=	10.9	H=	4.4	

LUMINANCE TEST

UNIT	REQUIREMENT	TEST VALUE
cd/m ²	2 ↑	3.8
RESULT	OK	

Ratio of maximum to minimum Luminance

Max/Min	Ratio
20 ↓	14.9
RESULT	OK

Remarks :

Reviewed by:
 Gary I. Robin

Reviewed and approved for submittal by:

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Gary I. Robin
Responsible Engineer

December 15, 2021