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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:

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
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USED : _____

	L	4	LED	14V
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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:

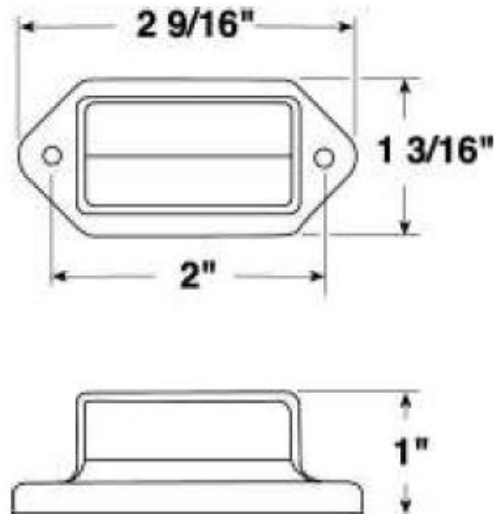
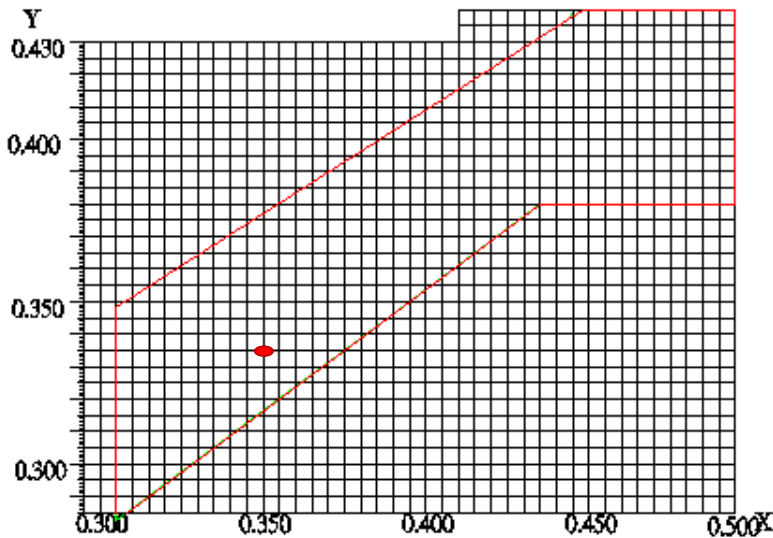
Install test lamp on tooling, test from a distance of 1.5 m using chroma test in CIE fixture

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:

A handwritten signature in black ink, reading "Gary I. Robin". The signature is written in a cursive style with a large, stylized "G" and "R".

Gary I. Robin

Responsible Engineer

December 15, 2021