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**TEST REPORT 151116-2203751**

Report Date: 16 November 2015

Test Component: ABC Marketing 2203751 Amber 11 LED 4-Inch Round Front  
Turn Signal Lamp

Devices Tested: Two (2) each submitted 29 October 2015

**Test Summary (FMVSS-108)**

Photometric Tests – Front Turn Signal Lamp

SAE J1395 (Turn Lamp) PASSED

Mechanical Tests - SAE J575e PASSED

Color Tests – SAE J578c PASSED

Socket Tests – SAE J567b NOT APPLICABLE

Dimensional Tests 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

Device Name: ABC Marketing 2203751 Amber 11 LED 4-Inch Round Front Turn Signal Lamp

### MARKINGS:

Lens: "SAE DOT I ST 14"

LENS:	Material:	Acrylic (Amber)
	Shape/Dimensions:	Round, 107 mm D
	Attachment Method:	Vibration Weld
	Gasket:	None
HOUSING:	Material:	ABS (Black)
	Shape/Dimensions:	Round, 109 mm D
	Attachment Method:	Vibration Weld
	Electrical Attachment:	Leads
	Gasket:	None

BULB	FUNCTION	QUANTITY	VOLTAGE
LED	I	11	12.8

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Complies with SAE J576b requirements as specified in FMVSS 108 S6.2

## TEST RESULT SHEET

Device Name: ABC Marketing 2203751 Amber 11 LED 4-Inch Round Front  
Turn Signal Lamp

### PHOTOMETRIC TESTS

Specification (s): FMVSS-108 (SAE J592e)

Tests performed by: Gary I. Robin

Results: Meets requirements at all points for:  
SAE J1395 (Front Turn Signal Lamp)

Test distance: 100 feet

Photometry tests performed at 12.8V

### BULB SOCKET REQUIREMENTS – SAE J567b

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

## TEST RESULT SHEET

Device Name: ABC Marketing 2203751 Amber 11 LED 4-Inch Round Front  
Turn Signal Lamp

Mechanical tests: SAE J575e  
Test performed by: Gary I. Robin  
Sample: 2

### Vibration test (Shock test).

There was no evidence of material physical weakness, lens deterioration, displacement or rupture of components.  
LEDs were not damaged.

PASSED

### Moisture Test:

Lamp had 0cc of moisture accumulation inside of its cavity ( $\leq 2$ cc required). The maximum luminous intensity after external cleaning was at least 100 percent of the intensity prior to exposure.

PASSED

### Dust Test:

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.

NOT REQUIRED

### Corrosion Test:

There was no evidence of excessive corrosion which would affect the proper functioning of the device.

NOT REQUIRED

### Thermal Test:

There was no evidence of reduced function from temperature or humidity.

PASSED

PASSED

### Durability Test:

PASSED

### LED Life Test:

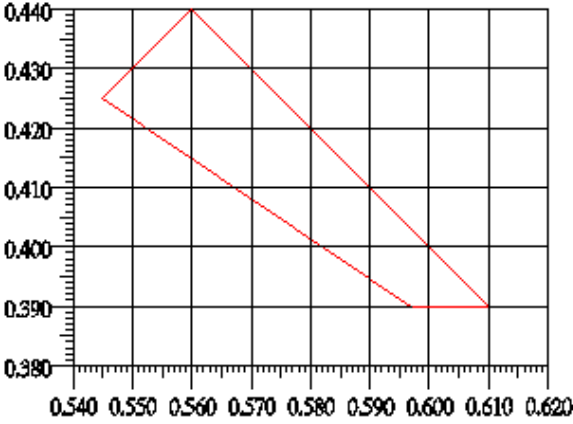
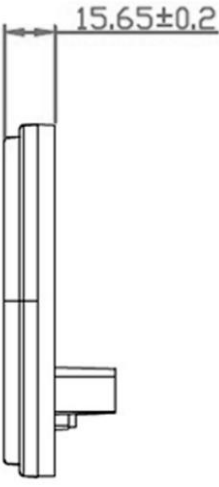
Lamp is not blinking, blackening or shutting off after 1000 hrs.

PASSED

## TEST DATA SHEET

Device Name: ABC Marketing 2203751 Amber 11 LED 4-Inch Round Front Turn Signal Lamp

Sample : #2

Test Item	Chromaticity Test per SAE J578C
Test Date	11/2/2015
Equipment	power supply, chromaticity meter
Test Conditions:	
<ol style="list-style-type: none"> <li>1. Normal ambient ( 25~30 °C)</li> <li>2. Voltage: 12.8 V.</li> </ol>	
Test Method:	
Mount specimen on fixture. Perform chromaticity test at a distance of 1.5 m using CIE fixture.	
Determined Standard:	
$Y \geq 0.39$ (red boundary) $Y \geq 0.79 - 0.67X$ (white boundary) $Y \leq X - 0.12$ (green boundary)	
Test Result:	
X=0.585 Y=0.413	
	

Result: Passed SAE J578C color test

By:

Gay / Rubin

## PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 2203751 Amber 11 LED 4-Inch Round Front Turn Signal Lamp

Sample number: #1

Specification: SAE J1395 (Front Turn Signal Lamp)

Location	CP Measured	Req Min CP	Req Max CP	Zone
10U 5L	80.29	40		1
10U 5R	77.75	40		5
5U 20R	26.23	25		5
5U 10R	78.34	75		4
5U V	179.60	175		3
5U 10L	81.90	75		2
5U 20L	31.90	25		1
H 10L	109.86	100		2
H 5L	217.68	200		3
H V	419.15	200		3
H 5R	233.79	200		3
H 10R	107.14	100		4
5D 20R	26.57	25		5
5D 10R	84.18	75		4
5D V	287.15	175		3
5D 10L	84.40	75		2
5D 20L	29.99	25		1
10D 5L	87.08	40		1
10D 5R	83.54	40		5

Zone	Candela	Req Min
1	229.26	130
2	266.16	250
3	1337.37	960
4	259.66	250
5	214.08	130

Device meets requirements at all points.  
Voltage: 12.80V/ Current: 0.22A

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".

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**Gary I. Robin**

*Responsible Engineer*

November 16, 2015