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TEST REPORT 151116-2203651

Report Date: 16 November 2015

Test Component: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear Turn Signal Lamp

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

Test Summary (FMVSS-108)

Photometric Tests – Rear Turn Signal Lamp

SAE J1395 (Turn Lamp)	PASSED
SAE J222 (Parking 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:

Gary I. Robin

DESCRIPTION SHEET

Device Name: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear 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	7	12.8/14.00

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

TEST RESULT SHEET

Device Name: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear 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 J222 FMVSS 108 (Parking Lamp)

SAE J1395 (Rear Turn Signal Lamp)

Test distance: 100 feet

Photometry tests performed at 12.8V (stop) / 14.0V (tail)

BULB SOCKET REQUIREMENTS – SAE J567b

Lamp is a sealed unit.

The bulb socket requirements are not applicable.

TEST RESULT SHEET

Device Name: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear Turn Signal Lamp

Mechanical tests: SAE J575e
Test performed by: Gary I. Robin
Sample: 1

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 (≤ 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:

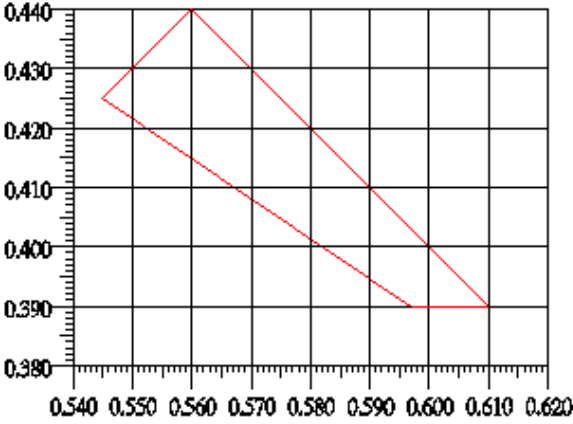
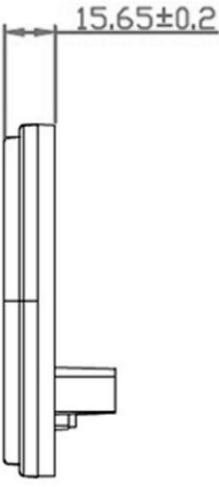
Lamp is not blinking, blackening or shutting off after 1000 hrs.

PASSED

TEST DATA SHEET

Device Name: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear Turn Signal Lamp

Sample : #1

Test Item	Chromaticity Test per SAE J578C
Test Date	11/2/2015
Equipment	power supply, chromaticity meter
Test Conditions: 1. Normal ambient (25~30 °C) 2. Voltage: 12.8 V.	
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=0.586 Y=0.414	
	

Result: Passed SAE J578C color test

By:



PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear Turn Signal Lamp

Sample number: #1

Specification: SAE J222 FMVSS 108 (Parking Lamp)

Location	CP Measured	Req Min CP	Req Max CP	Zone
10U 5L	4.61	0.8	125	1
10U 5R	4.27	0.8	125	5
5U 20R	1.61	0.8	125	5
5U 10R	4.47	2	25	4
5U V	11.00	2.8	125	3
5U 10L	5.05	0.8	125	2
5U 20L	1.80	0.8	125	1
H 10L	6.72	1.4	125	2
H 5L	15.90	3.6	125	3
H V	26.24	4	125	3
H 5R	11.43	3.6	125	3
H 10R	5.64	1.4	125	4
5D 20R	1.67	0.4	250	5
5D 10R	4.91	0.8	250	4
5D V	14.89	2.8	250	3
5D 10L	5.84	0.8	250	2
5D 20L	2.00	0.4	250	1
10D 5L	5.72	0.8	250	1
10D 5R	3.64	0.8	250	5

Zone	Candela	Req Min
1	13.80	2.4
2	16.68	3
3	79.45	16.8
4	15.02	3
5	11.51	2.4

Device meets requirements at all points.

Voltage: 14.00V / Current: 0.02A

PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 2203651 Amber 7 LED 4-Inch Round Rear Turn Signal Lamp

Sample number: #1

Specification: SAE J1395 (Rear Turn Signal Lamp)

Location	CP Measured	Req Min CP	Req Max CP	Zone
10U 5L	95.44	27	750	1
10U 5R	85.66	27	750	5
5U 20R	28.52	15	750	5
5U 10R	81.52	50	750	4
5U V	202.77	110	750	3
5U 10L	95.87	50	750	2
5U 20L	36.19	15	750	1
H 10L	117.58	65	750	2
H 5L	277.38	120	750	3
H V	426.81	130	750	3
H 5R	188.18	120	750	3
H 10R	92.93	65	750	4
5D 20R	25.89	15	750	5
5D 10R	77.65	50	750	4
5D V	230.16	110	750	3
5D 10L	92.03	50	750	2
5D 20L	33.50	15	750	1
10D 5L	86.64	27	750	1
10D 5R	77.79	27	750	5

Zone	Candela	Req Min
1	251.76	82
2	305.48	165
3	1325.30	610
4	252.10	165
5	217.85	82

Device meets requirements at all points.
Voltage: 12.80V/ Current: 0.23A

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".

Gary I. Robin

Responsible Engineer

November 16, 2015