

ABC Marketing
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TEST REPORT 150507-3207251

Report Date: 07 May 2015

Test Component: ABC Marketing 3207251 Amber 3-LED
Clearance/Sidemarkers/ID lamp (P2, PC)

Devices Tested: Three (3) each submitted 01 May 2015

Test Summary (FMVSS-108)

Photometric Tests – Clearance/Side Marker/ID Lamp

SAE J592e (Marker Lamp - P2, PC)	PASSED
Mechanical Tests per SAE J575e	PASSED
Color Tests per SAE J578c	PASSED
Socket Tests per SAE J567b	Not Applicable
Dimensional Tests	Not Applicable

Signature of responsible engineer:

A handwritten signature in black ink, appearing to read 'Gary I. Robin'. The signature is written in a cursive, flowing style.

Gary I. Robin

DESCRIPTION SHEET

Device Name: ABC Marketing 3207251 Amber 3-LED
Clearance/Sidemarker/ID lamp (P2, PC)

Lens/housing marking: SAE P2 PC 14 DOT

Lens/Housing

Material: Polycarbonate (Red)
Shape/Dimensions: 4 in L x 7/8 in W x 1-1/8 in H
Attachment Method: PC board assembly encapsulated in lens/housing
Gasket: None

BULB	FUNCTION	QUANTITY	TYPE	VOLTAGE
LED	P2, PC (Yellow)	3	T-Type	14V

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

TEST RESULT SHEET

Device Name: ABC Marketing 3207251 Amber 3-LED
Clearance/Sidemarker/ID lamp (P2, PC)

Photometric Tests:

Specification(s): FMVSS-108 (SAE J592e)
Tests performed by: Gary I. Robin

Results: Meets requirements at all points for:
SAE J592e (Marker Lamp – P2, PC)

Test distance: 100 feet

Photometry test voltage: 14.00V

Lens area requirements:

Lamp is a marker lamp.
Lens Area requirements are not applicable.

Bulb socket requirements – SAE J567b:

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

TEST RESULT SHEET

Device Name: ABC Marketing 3207251 Amber 3-LED
Clearance/Sidemarkers/ID lamp (P2, PC)

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 or reflector rotation, 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).

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

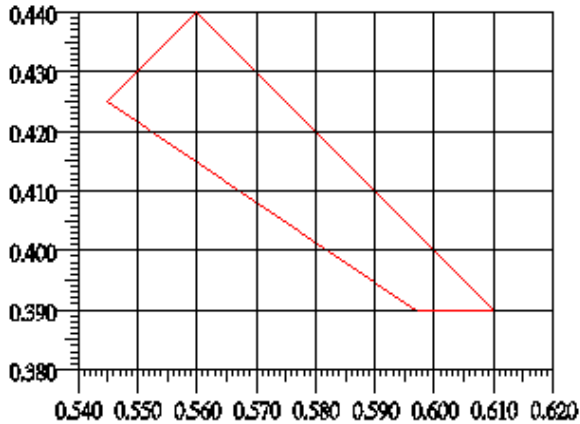
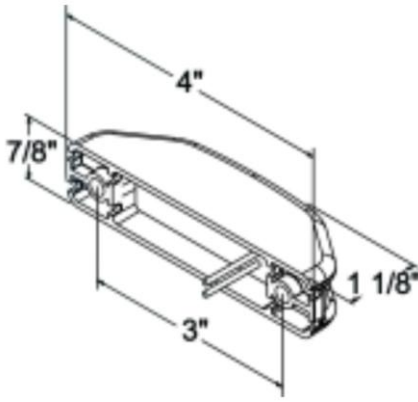
LED Life Test:

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

PASSED

TEST DATA SHEET

Device Name: ABC Marketing 3207251 Amber 3-LED
Clearance/Sidemarkers/ID lamp (P2, PC)

Test Item	Chroma Test per SAE J578C
Test Date	5/04/2015
Equipment	power supply, chroma meter
Test Condition : 1. 23~28° C 2. Voltage: 14.00 V.	
Test Method : Mount specimen on tooling, chroma 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 : 1. $X=0.599$ $Y=0.400$  	

Result: PASSED SAE J578C color test

By:

Say / Rubini

PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 3207251 Amber 3-LED
Clearance/Sidemarker/ID lamp (P2, PC)

Sample number: 1

Specification :

SAE J592e Yellow Clearance, ID or Sidemarker Lamp (P2, PC)

Function	Min	Max	I
10U - 90L	0.62	-	0.8
10U - 45L	0.62	-	8.1
10U - V	0.62	-	7.3
10U - 45R	0.62	-	9.0
10U - 90R	0.62	-	1.5
H - 90L	0.62	-	0.9
H - 45L	0.62	-	7.6
H - V	0.62	-	7.5
H - 45R	0.62	-	8.2
H - 90R	0.62	-	1.2
10D - 90L	0.62	-	1.1
10D - 45L	0.62	-	7.3
10D - V	0.62	-	7.0
10D - 45R	0.62	-	8.1
10D - 90R	0.62	-	1.0

Zone

Function	Min	Max	Value
1	1.86	-	2.8
2	1.86	-	23.0
3	1.86	-	21.8
4	1.86	-	25.3
5	1.86	-	3.6

Device meets SAE J592e P2, PC requirements at all points.

Voltage: 14.0 V (Device tested after 30 minute warm-up)

Current: 51 mA

Aim: Lamp mounted perpendicular to HV

By:

Say / Robin

Reviewed and approved for submittal by:

A handwritten signature in black ink, reading "Gary I. Robin". The signature is fluid and cursive, with the first name "Gary" and last name "Robin" clearly distinguishable.

Gary I. Robin
Responsible Engineer

May 7, 2015