

ABC Marketing, Inc.
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TEST REPORT 121220-321811

Report Date: 20 December 2012
Test Component: ABC Marketing 321811 Yellow 3-LED Clearance/Sidemarkers/ID lamp (P2) or Combination Clearance/Sidemarkers Lamp (PC)
Devices Tested: Three (3) each submitted 06 December 2012

Test Summary (FMVSS-108)

Photometric Tests - Marker Lamp

SAE J592e (Marker Lamp- P2)	PASSED
SAE J592e (Marker Lamp- 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:



Gary I. Robin

DESCRIPTION SHEET

Device Name: ABC Marketing 321811 Yellow 3-LED
clearance/sidemarkers/ID lamp (P2) or combination
clearance/sidemarkers lamp (PC)

Markings:

Lens: "SAE PCP2 06", "TOP"
Housing: None

Lens Information:

Material: PMMA (Yellow)
Shape/Dimensions: Cylindrical, 18.8 mm Diameter x 24.4mm Deep
Attachment Method: None
Gasket: None

Housing: None

BULB	FUNCTION	QUANTITY	TRADE NO.	VOLTAGE	FLUX
LED	P2/PC (Amber)	3	LYE6SF-BABB-46 SMD	14V	N/A

Lens complies with SAE J576 JUL 91 requirements as specified in FMVSS 108.

TEST RESULT SHEET

Device Name: ABC Marketing 321811 Yellow 3-LED
clearance/sidemarker/ID lamp (P2) or Combination
clearance/sidemarker lamp (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)
SAE J592e (Marker Lamp – PC)

Mounting requirements:

Lamp must be mounted at a 45° angle to the vehicle longitudinal or lateral axis
(i.e. at a diagonal at the corners).

Test distance: 100 feet

Photometry test voltage: 14.00V

Len 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 321811 Yellow 3-LED
clearance/sidemarkers/ID lamp (P2) or combination
clearance/sidemarkers lamp (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 321811 Yellow 3-LED
clearance/sidemarkers/ID lamp (P2) or combination
clearance/sidemarkers lamp (PC)

Test Item	Chroma Test per SAE J578C
Test Date	2012/12/06
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=0.581 Y=0.402	

Result: PASSED SAE J578C color test

By:

Gay / Pashini

PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 321811 Yellow 3-LED
clearance/sidemarkers/ID lamp (P2) or Combination
clearance/sidemarkers lamp (PC)

Sample number: 1

Specification :

SAE J592e (Yellow Clearance, ID or Sidemarkers Lamp-P2)

SAE J592e (Yellow Combination Clearance and Sidemarkers Lamp-PC)

Location	Measured CP	Required Min CP
10U 90L	1.282	0.62
10U 45L	2.461	0.62
10U V	1.443	0.62
10U 45R	1.964	0.62
10U 90R	1.749	0.62
H 90R	1.308	0.62
H 45R	1.777	0.62
H V	1.274	0.62
H 45L	2.206	0.62
H 90L	0.898	0.62
10D 90L	0.798	0.62
10D 45L	1.949	0.62
10D V	1.125	0.62
10D 45R	1.444	0.62
10D 90R	0.934	0.62

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

Voltage: 14V (Device tested after 30 minute warm-up)

Current: 50mA

Aim: Lamp mounted perpendicular to HV with "SAE" markings upright.

By:



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 prominent initial "G".

Gary I. Robin
Responsible Engineer

December 20, 2012