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TEST REPORT 211215-321861

Report Date: December 15, 2021

Test Component: ABC Marketing 321861 Amber 1-LED Clearance/Sidemarkers/ID lamp (P2) or Combination Clearance/Sidemarkers Lamp (PC)

Devices Tested: Three (3) each submitted December 13, 2021

Test Summary (FMVSS-108)

Mechanical Tests per SAE J575e

Vibration Test	PASSED
Moisture Test	PASSED
Thermal Test	PASSED
Durability Test	PASSED
LED Life Test	PASSED
Color Tests per SAE J578c	PASSED
Dimensional Tests	PASSED
Socket Tests per SAE J567b	Not Applicable

Photometric Test per SAE J592e

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

Signature of responsible engineer:

Gary I. Robin

DESCRIPTION SHEET

Device Name: ABC Marketing 321861 Amber 1-LED Clearance/Sidemarkers/ID lamp
(P2) or Combination Clearance/Sidemarkers Lamp (PC)

Markings:

Lens: "SAE DOT PCP2 12", "TOP"
Housing: None

Lens Information:

Material: PC (transparent amber)
Shape/Dimensions: Cylindrical, 18.8 mm Diameter x 17.6mm Deep
Attachment Method: None
Gasket: Mounting Grommet
Housing: Housing and lens are integral

BULB	FUNCTION	QUANTITY	VOLTAGE
LED	P2/PC (Amber)	1	14V

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

TEST RESULT SHEET

Device Name: ABC Marketing 321861 Amber 1-LED
Clearance/Sidemarker/ID lamp (P2) or Combination
Clearance/Sidemarker 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 material degradation or evidence of
reduced function.

PASSED

PASSED

Durability Test:

Lamp operates properly without any degradation

PASSED

LED Life Test:

Lamp is not blinking, blackening or shutting off after
operating 3000 hrs at 40 mA

PASSED

Color Test per SAE J578c

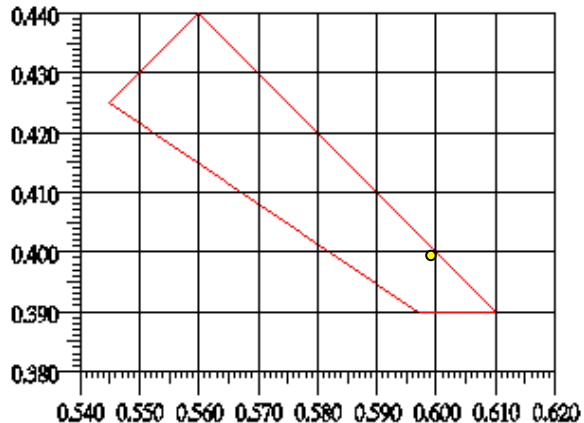
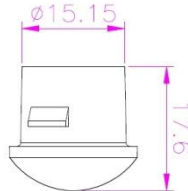

PASSED

Photometric Test per SAE J592e

PASSED

TEST DATA SHEET

Device Name: ABC Marketing 321861 Amber 1-LED
Clearance/Sidemarkers/ID lamp (P2) or Combination
Clearance/Sidemarkers Lamp (PC)

Test Item	Chroma Test per SAE J578C (AMBER)
Test Date	December 14, 2021
Equipment	power Supply, chroma Meter
<p>Test Condition :</p> <p>1. 23~28° C</p> <p>2. Voltage: 14.00 V.</p>	
<p>Test Method :</p> <p>Mount specimen on tooling, chroma test at a distance of 1.5 m using CIE fixture.</p>	
<p>Determined Standard :</p> <p>$Y \geq 0.39$ (red boundary)</p> <p>$Y \geq 0.79 - 0.67X$ (white boundary)</p> <p>$Y \leq X - 0.12$ (green boundary)</p>	
<p>Test Result :</p> <p>1. X=0.599 Y=0.399</p> <div style="display: flex; align-items: center; justify-content: space-around;">    </div>	

Result: PASSED SAE J578C color test

By:

Say / Rahni

PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 321861 Amber 1-LED
Clearance/Sidemarkers/ID lamp (P2) or Combination

Clearance/Sidemarkers Lamp (PC) Sample number: 2

Specification:

SAE J592e (AMBER Clearance, ID or Sidemarkers Lamp-P2)
SAE J592e (AMBER Combination Clearance and Sidemarkers Lamp-PC)

Location	CP Measured	Req'd Min CP
10U 90L	2.16	0.62
10U 45L	1.10	0.62
10U V	3.24	0.62
10U 45R	1.10	0.62
10U 90R	1.24	0.62
H 90R	0.91	0.62
H 45R	1.17	0.62
H V	3.53	0.62
H 45L	1.11	0.62
H 90L	2.15	0.62
10D 90L	5.28	0.62
10D 45L	1.14	0.62
10D V	3.30	0.62
10D 45R	1.12	0.62
10D 90R	0.76	0.62

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

Current: 30mA

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

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

By:



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 initial "G" and "R".

Gary I. Robin
Responsible Engineer

December 15, 2021