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TEST REPORT 160217-3212891

Report Date: 17 February 2016

Test Component: ABC Marketing 3212891 Amber 4-LED Clearance/Sidemarker/ID lamp (P2) with reflex (A)

Devices Tested: Three (3) each submitted 03 February 2016

Test Summary (FMVSS-108)

Photometric Tests - Marker Lamp

SAE J592e (Marker Lamp - P2) SAEJ594f (Reflector-A)

PASSED PASSED

Mechanical Tests per SAE J575e Color Tests per SAE J578c Socket Tests per SAE J567b **Dimensional Tests**

PASSED PASSED Not Applicable Not Applicable

Signature of responsible engineer:

Day 1 Palmi

Gary I. Robin

DESCRIPTION SHEET

Device Name:	ABC Marketing 3212891 Amber 4-LED Clearance/Sidemarker/ID lamp (P2) with reflex (A)			
Markings:				
Lens: Housing:	"DOT SAE AP298" None			
Lens:				
Material:	PMMA (Amber)			
Housing:				
Material:	ABS (White)			
BULB	FUNCTION	QUANTITY	VOLTAGE	
LED	P2 (Amber)	4	14V	

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

TEST RESULT SHEET

Device Name:	ABC Marketing 3212891 Amber 4-LED
	Clearance/Sidemarker/ID lamp (P2) with reflex (A)

Photometric Tests:

Specification(s): Tests performed by:	FMVSS-108 (SAE J592e) Gary I. Robin
Results:	Meets requirements at all points for:
	SAE J592e (Marker Lamp – P2) SAE J594f (Reflector-A)
Test distance:	3.16 M

Photometry test voltage: 14.0V

Lens area requirements:

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

Bulb socket requirements – SAE J567b:

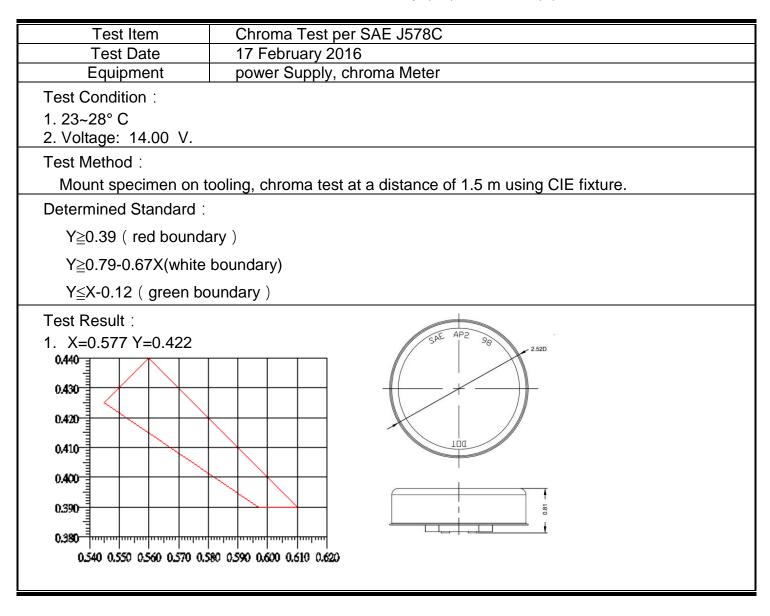
The bulb socket requirements are not applicable because the lamp is a sealed unit with LEDs.

TEST RESULT SHEET

Device Name:		Marketing 3212891 Amber 4-LED ance/Sidemarker/ID lamp (P2) with reflex	(A)
Mechanical tests: Test performed Sample:	by:	SAE J575e Gary I. Robin 2	
	io evide ition, di	ence of material physical weakness, lens splacement or rupture of components.	s or PASSED
Moisture Test: Lamp had 0œ (≦2cc requir		oisture accumulation inside of its cavity	PASSED
The maximu	im can	on the interior surfaces of the device. dlepower after external cleaning was e HV candlepower prior to exposure.	NOT REQUIRED
		ence of excessive corrosion which oper functioning of the device.	NOT REQUIRED
Thermal Test: There was no evide temperature or hum			PASSED
			PASSED
Durability Test	:		PASSED
LED Life Test: Lamp is not 1000 hrs.	blinkin	g, blackening or shutting off after	PASSED

TEST DATA SHEET

Device Name: ABC Marketing 3212891 Amber 4-LED Clearance/Sidemarker/ID lamp (P2) with reflex (A)



Result: PASSED SAE J578C color test

By:

Day 1 Parlini

PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 3212891 Amber 4-LED Clearance/Sidemarker/ID lamp (P2) with reflex (A)

Sample number: 1

Specification :

SAE J592e (Amber Clearance, ID or Sidemarker Lamp (P2)

Location	Measured CP	Required Min CP	
10U 45L	4.15	0.62	
10U V	1.81	0.62	
10U 45R	3.66	0.62	
H 45R	3.89	0.62	
ΗV	1.93	0.62	
H 45L	3.87	0.62	
10D 45L	3.77	0.62	
10D V	2.04	0.62	
10D 45R	3.64	0.62	

Device meets SAE J592e P2 requirements at all points.

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

Aim: Lamp mounted perpendicular to HV

By:

Day 1 Palmi

REFLECTOR TEST DATA SHEET

Device Name:	ABC Marketing 3212891 Amber 4-LED Clearance/Sidemarker/ID lamp (P2) with reflex (A)			
Sample number	: 1			
Specification : SAE J594 Jan 77 Amber Automotive Reflector				
OBS ANGLE (DEGREES)	ENTRANCE (DEGREES)	-	CANDELLA PER F MEASURED	OOTCANDLE REQUIRED MIN
0.2	H 10U 10D H H	V V 20L 20R	25.23 20.87 22.20 9.64 10.41	11.25 7.5 7.5 3.75 3.75
1.5	H 10U 10D H H	V V 20L 20R	0.639 0.365 0.338 0.179 0.242	0.175 0.125 0.125 0.075 0.075

Device meets SAE J594 automotive reflector requirements at all points.

Reviewed and approved for submittal by:

Day 1 Parlini

Gary I. Robin Responsible Engineer

February 17, 2016