Manufacturer's Representatives for the RV and Specialty Vehicle Markets



# **ABC Marketing**

4800 Eastland Drive Elkhart, IN 46516 Phone (574)293-9399 Fax (574)293-5801

## TEST REPORT 150804-3234031/3234041

Report Date: 4 August 2015

Test Component: ABC Marketing 3234031 (white base) and 3234041 (black base) Amber, 2-LED Clearance/Sidemarker/ID lamp w/reflex

**Devices Tested:** Three (3) each submitted 22 July 2015

# Test Summary (FMVSS-108)

Photometric Tests - Marker Lamp

SAE J592e (Marker Lamp- P2) SAE J594 Jan 77 Amber Automotive Reflector Mechanical Tests per SAE J575e Color Tests per SAE J578c Socket Tests per SAE J567b **Dimensional Tests** 

PASSED PASSED PASSED PASSED Not Applicable Not Applicable

Signature of responsible engineer:

Day 1 Parlini

Gary I. Robin

#### **DESCRIPTION SHEET**

Device Name: ABC Marketing 3234031 (white base) and 3234041 (black base) Amber, 2-LED Clearance/Sidemarker/ID lamp w/reflex

Markings:

Lens:	"DOT	
	SAE P2 A 99"	
Housing:	Date code	

Lens Information:

Material:	Acrylic (Amber)
Shape/Dimensions:	Rectangular 4 x 3/4
Gasket:	None

Housing Information Material: White ABS (3234031), Black ABS (3234041) Shape/Dimensions: Rectangular 4 x 2

Assembly Method: Printed circuit assembly is encapsulated into housing. Lens is press fitted onto housing

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

#### **TEST RESULT SHEET**

Device Name: ABC Marketing 3234031 (white base) and 3234041 (black base) Amber, 2-LED Clearance/Sidemarker/ID lamp w/reflex

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)		

Mounting requirements:

Lamp must be mounted parallel to the vehicle longitudinal or lateral axis and may be rotated to any position about the lamp axis.

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 and uses LEDs.

# **TEST RESULT SHEET**

Device Name:	ABC Mar Amber, 2	keting 3234031 (white base) and 323404 -LED Clearance/Sidemarker/ID lamp w/r	41 (black base) eflex
Mechanical tests Test perform Sample:	s: ned by:	SAE J575e Gary I. Robin 3	
Vibration tes There wa reflector i LEDs we	t (Shock te as no evide rotation, di re not dam	est). ence of material physical weakness, lens splacement or rupture of components. naged.	s or PASSED
Moisture Te Lamp had (≦2cc re	st: d 0cc of m quired).	oisture accumulation inside of its cavity	PASSED
Dust Test: No dust v The max at least 1	was found imum can 100% of th	on the interior surfaces of the device. dlepower after external cleaning was e HV candlepower prior to exposure.	NOT REQUIRED
Corrosion Te There wa would af	est: as no evid ifect the pr	ence of excessive corrosion which oper functioning of the device.	NOT REQUIRED
Thermal Tes There wa temperat	st: as no evide ture or hur	ence of reduced function from nidity.	PASSED PASSED
Durability T	est:		PASSED
LED Life Te Lamp is 1000 hrs	est: not blinkin s.	ng, blackening or shutting off after	PASSED

#### TEST DATA SHEET

Device Name: ABC Marketing 3234031 (white base) and 3234041 (black base) Amber, 2-LED Clearance/Sidemarker/ID lamp w/reflex



Result: PASSED SAE J578C color test

By:

Day I Palmi

### PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing 3234031 (white base) and 3234041 (black base) Amber, 2-LED Clearance/Sidemarker/ID lamp w/reflex

Sample number: 2

Specification :

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

Location	Measured CP	Required Min CP	
10U 45L	3.52	0.62	
10U V	1.03	0.62	
10U 45R	2.25	0.62	
H 45R	1.36	0.62	
ΗV	1.38	0.62	
H 45L	1.43	0.62	
10D 45L	2.49	0.62	
10D V	0.96	0.62	
10D 45R	1.65	0.62	

Device meets SAE J592e P2 requirements at all points.

Voltage: 14.0 V (Device tested after 30 minute warm-up) Current: 38 mA

Aim: Lamp mounted perpendicular to HV

By:

Day 1 Palmi

### **REFLECTOR TEST DATA SHEET**

Device Name: ABC Marketing 3234031 (white base) and 3234041 (black base) Amber, 2-LED Clearance/Sidemarker/ID lamp w/reflex

Sample number: 2

Specification :

SAE J594 Jan 77 Amber Automotive Reflector

OBS ANGLE (DEGREES)	ENTRAN (DEGRE	ICE ANGLE ES)	CANDELLA PER MEASURED	R FOOTCANDLE REQUIRED MIN
0.2	H 10U 10D H H	V V 20L 20R	36.10 32.68 32.43 20.28 20.52	11.25 7.5 7.5 3.75 3.75
1.5	H 10U 10D H H	V V 20L 20R	0.85 0.68 0.68 0.45 0.45	0.17 0.12 0.12 0.07 0.07

Device meets SAE J594 automotive reflector requirements at all points.

By:

Day 1 Palmi

Reviewed and approved for submittal by:

Day 1 Parlini

Gary I. Robin Responsible Engineer

August 4, 2015