ABC Marketing

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

TEST REPORT 131202-4255253

Report Date:	02 December 2013
Test Component:	ABC Marketing, 4" ROUND, 20 LED, BACKUP LAMP
Devices Tested:	Three (3) Submitted 10/28/2013

TEST SUMMARY (FMVSS-108)

Photometric Tests - Backup Lamp SAE J593c (Back Up Lamp, 2 systems lamp) PASSED

Mechanical Tests - SAE J575e Color Tests – SAE J578c Socket Tests – SAE J567b Dimensional Tests (All Vehicle Types) PASSED PASSED NOT APPLICABLE PASSED

Signature of responsible engineer:

Day 1 Palmi

Gary I. Robin

DESCRIPTION SHEET

Device Name: ABC Marketing, 4" ROUND, 20 LED, BACKUP LAMP

MARKINGS:

LENS:	"DOT SAE R 04" "TOP"	
HOUSING:	"GRND", "TAIL", "STOP&TURN"	

LENS:

MATERIAL:	HI-PMMA (Clear)
	Plastic meets SAE J576 3 year weathering
	requirements

SHAPE/DIMENSIONS:	Round, 108mm Diameter
METHOD OF ATTACHMENT:	Sonic Weld to Housing
GASKET:	None

HOUSING:

MATERIAL:	Hi Impact ABS (Gray)
SHAPE/DIMENSIONS:	Dome, 109mm Diameter x 19.5mm Deep
METHOD OF ATTACHMENT:	Sonic Weld to Lens
GASKET:	None

BULB:

FUNCTION	QUANTITY	TRADE NO.	VOLTAGE	
R	20	LED	12.8V	

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

TEST RESULT SHEET

Device Name: ABC Marketing, 4" ROUND, 20 LED, BACKUP LAMP

PHOTOMETRIC TESTS

Specification (s):FMVSS-108(SAE J593)Tests performed by:Gary I. Robin

Meets requirements at all points for:

SAE J593c (Back Up Lamp, 2 systems lamp)

Test distance: 100 feet

All photometry tests performed at 12.80V after 10 minute warm-up (SAE J1889 methodology).

All lamps seasoned 10 hours prior to testing.

LENS AREA REQUIREMENTS

Lens Area requirements are not applicable

BULB SOCKET REQUIREMENTS – SAE J567b

Lamp uses LEDs. The bulb socket requirements are not applicable.

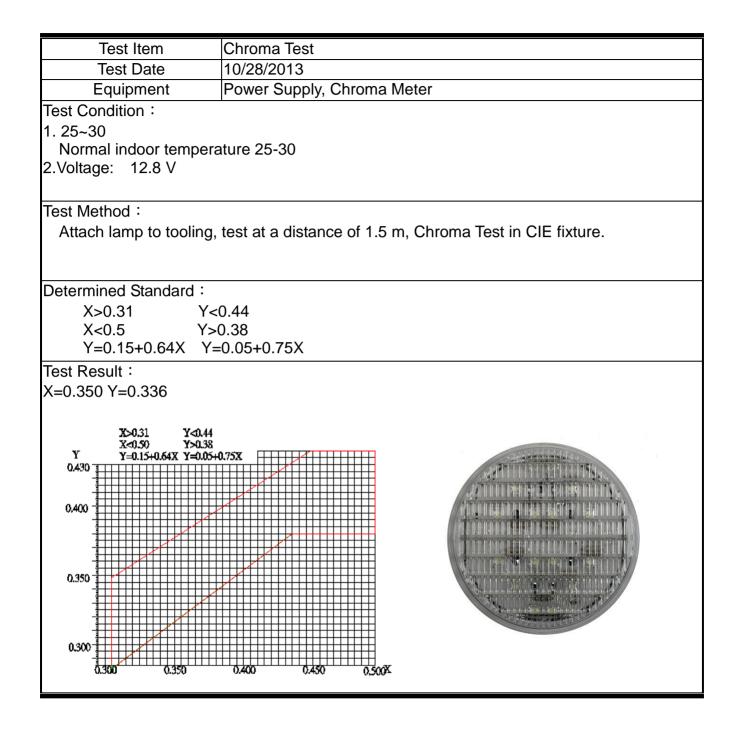
TEST RESULT SHEET

Device Name: ABC Marketing, 4" ROUND, 20 LED, BACKUP L	AMP
MECHANICAL TESTS:SAE J593Test 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 parts. LED parts were not damaged.	PASSED
Moisture Test Lamp had 0cc of moisture accumulation inside of the cavity. (\leq 2cc required).	PASSED
Dust Test: NOT F 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.	REQUIRED
Corrosion Test: NOT F There was no evidence of excessive corrosion which woul Affect the proper functioning of the device.	REQUIRED d
Thermal Test:	PASSED
Durability Test:	PASSED
LED Life Test: Lamp are not blinking, blacking or shutting off after 1000 h	PASSED rs.

TEST DATA SHEET

Device Name:

ABC Marketing, 4" ROUND, 20 LED, BACKUP LAMP



Result: Passed SAE J578C color test By:

Day 1 Palmi

PHOTOMETRIC TEST DATA SHEET

Device Name: ABC Marketing, 4" ROUND, 20 LED, BACKUP LAMP

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	Volts:	12.8 / Amps:	0.35 / Bu	ulb: LED		
Location	Measured	Min CP	Max CP	Min CP	Max CP	Zon
10U 10L	210.528	10	300	6	270	3
10U V	239.819	15	300	9	270	3
10U 10R	180.332	10	300	6	270	3
5U 45R	47.998	15	300	9	270	6
5U 10R	227.014	20	300	12	270	3
5U V	293.284	25	300	15	270	3
5U 10L	266.756	20	300	12	270	3
5U 45L	45.875	15	300	9	270	1
H 45L	60.706	15	300	9	270	1
H 30L	116.882	25	300	15	270	2
H 10L	293.296	50	300	30	270	4
ΗV	289.642	80	300	48	270	4
H 10R	257.122	50	300	30	270	4
H 30R	109.112	25	300	15	270	5
H 45R	42.177	15	300	9	270	6
5D 45R	30.343	15	-	9	-	6
5D 30R	84.608	25	-	15	-	5
5D 10R	243.907	50	-	30	-	4
5D V	333.598	80	-	48	-	4
5D 10L	303.26	50	-	30	-	4
5D 30L	124.407	25	-	15	-	2
5D 45L	68.886	15	-	9	-	1
Zone	Candela	Req Min	Req Max			
1	175.467	45	-			
2	241.289	50	-			
3	1417.733	100	-			
4	1720.825	360	-			
5	193.72	50	-			
6	120.518	45	-		-	

Sample number: #1 / Specification: SAE J593c (Backup Lamp)

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Gary I. Robin Responsible Engineer

02 December 2013