Manufacturer's Representatives for the RV and Specialty Vehicle Markets



### **ABC Marketing**

4800 Eastland Drive

Elkhart, IN 46516

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## **TEST REPORT 151002-2228441**

Report Date: 2 October 2015

Test Component: ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn Signal Lamp (I) with reflex mounting flange

Devices Tested: Two (2) each submitted 4 September 2015

## Test Summary (FMVSS-108)

Photometric Tests – Turn Signal Lamp SAE J1395

PASSED

Mechanical Tests - SAE J575e Color Tests – SAE J578c Socket Tests – SAE J567b Dimensional Tests PASSED PASSED NOT APPLICABLE NOT APPLICABLE

Signature of responsible engineer:

Bay I Rolini

Gary I. Robin

# **DESCRIPTION SHEET**

ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn Signal Lamp (I) with reflex mounting flange			

Complies with SAE J576b requirements as specified in FMVSS 108 S6.2

# **TEST RESULT SHEET**

Device Name:	ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn
	Signal Lamp (I) with reflex mounting flange

### **PHOTOMETRIC TESTS**

Specification (s):	FMVSS-108 (SAE J592)
Tests performed by:	Gary I. Robin

Results:	Meets requirements at all points for:
	SAE J1395 (Rear turn lamp)

Test distance: 100 feet

Photometry tests performed at 12.8V

### LENS AREA REQUIREMENTS

Rear turn signal light area requirements:

7500 mm<sup>2</sup> (minimum) 7780 mm<sup>2</sup> (actual)

# **BULB SOCKET REQUIREMENTS – SAE J567b**

Lamp is a sealed unit. The bulb socket requirements are not applicable.

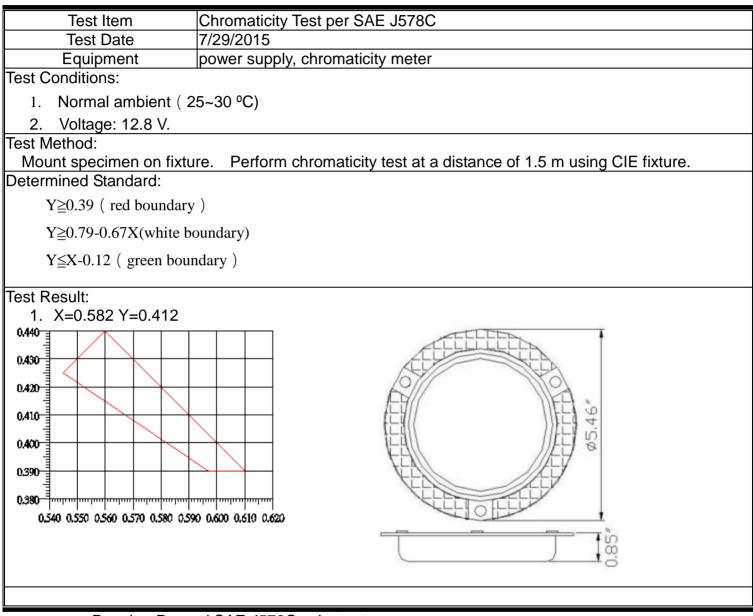
# **TEST RESULT SHEET**

Device Name:	ce Name: ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn			
Signal Lamp (I) with reflex mounting flange				
Mechanical tests Test performed l Sample:		SAE J575e Gary I. Robin 1		
	no evidenc n, displace	e of material physical weakness, len ement or rupture of components.	s PASSED	
(≤ 2cc requ	red). The aning was	sture accumulation inside of its cavity maximum luminous intensity after at least 100 percent of the intensity	PASSED	
The maximu	m candlep	the interior surfaces of the device. ower after external cleaning was / candlepower prior to exposure.	NOT REQUIRED	
		e of excessive corrosion which functioning of the device.	NOT REQUIRED	
Thermal Test:			PASSED	
There was no evidence temperature or humidit		e of reduced function from y.	PASSED	
Durability Test:			PASSED	
LED Life Test: Lamp is not l 1000 hrs.	olinking, bl	ackening or shutting off after	PASSED	

### **TEST DATA SHEET**

Device Name: ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn Signal Lamp (I) with reflex mounting flange

Sample : #1



Result: Passed SAE J578C color test

By:

Day 1 Parlini

### **REFLEX TEST DATA SHEET**

Device Name: ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn Signal Lamp (I) with reflex mounting flange Specification: SAE J594f (Red Reflex Reflector)

	CP	Req'd Min
Location	Measured	CP
10U V .2z	7.082	3
H 20L .2z	3.898	1.5
HV.2z	9.999	4.5
H 20R .2z	3.426	1.5
10D V .2z	7.094	3
10U V 1.5Z	0.042	0.05
H 20L 1.5Z	0.038	0.03
H V 1.5Z	0.153	0.07
H 20R 1.5Z	0.086	0.03
10D V 1.5Z	0.089	0.05

### Result: Passed SAE J594f Reflex Test

By:

Day 1 Parlini

#### PHOTOMETRIC TEST DATA SHEET

Device Name:

ABC Marketing 2228441 Yellow 7 LED 4-Inch Round, Rear Turn Signal Lamp (I)

with reflex mounting flange

Sample number: #2

Specification:

SAE J1395 FMVSS 108 (Rear Turn Signal Lamp [yellow])

	СР	Req	Req	
Location	Measured	Min CP	Max CP	Zone
10U 5L	70.99	27	750	1
10U 5R	75.10	27	750	5
5U 20R	23.32	15	750	5
5U 10R	76.92	50	750	4
5U V	157.09	110	750	3
5U 10L	72.81	50	750	2
5U 20L	22.65	15	750	1
H 10L	91.37	65	750	2
H 5L	141.60	130	750	3
ΗV	188.41	130	750	3
H 5R	191.00	130	750	3
H 10R	103.89	65	750	4
5D 20R	23.75	15	-	5
5D 10R	90.94	50	-	4
5D V	164.64	110	-	3
5D 10L	81.21	50	-	2
5D 20L	23.67	15	-	1
10D 5L	84.02	27	-	1
10D 5R	95.29	27	-	5
Zone	Candela	Req Min		
1	201.33	84		
2	245.39	165		

Device meets requirements at all points.

842.73

271.75

217.46

610

165

84

3

4

5

Voltage:	12.8 V / Current:	0.19A
vollage.	12.0 V / Current.	0.134

Reviewed and approved for submittal by

Day 1 Parlini

Gary I. Robin Responsible Engineer

October 1, 2015, 2015