

4800 Eastland Dr. - Elkhart, IN 46516 Phone: (574) 293-9399 - Fax: (574) 293-5801 www.abcmktginc.com

### TEST REPORT 190501-1225382

Report Date: May 1, 2019

Test Component: Stellar 1225382 18 LED Stop and Tail Lamp Bar – 12 inch

Devices Tested: Three (3) each submitted April 24, 2019

# **Test Summary (FMVSS-108)**

Photometric Tests – Stop and Tail Lamp

FMVSS-108 Table VIII Tail Lamp (3 Sections)	PASSED
FMVSS-108 Table IX Stop Lamp (3 Sections)	PASSED

# Mechanical Tests per SAE J575e

IP X7 Water Immersion	PASSED
Vibration	PASSED
Thermal	PASSED
Durability	PASSED
LED Life	PASSED
Color (SAE J578c)	PASSED
Dimensional Tests	PASSED
Socket Tests per SAF J567h	Not Applicable

Socket Tests per SAE J567b Not Applicable

Signature of responsible engineer:

Gary I. Robin

# **DESCRIPTION SHEET**

Test Component: Stellar 1225382 18 LED Stop and Tail Lamp Bar – 12 inch

Markings:

Lens: DOT SAE ST 18

Housing: None

Lens Information:

Material: PC (Red transparent)

Housing:

Material: N/A

BULB	QUANTITY	VOLTAGE
LED	18	12.8/14V

Note: lens complies with SAE J576 JUL 91 requirements as specified in FMVSS 108.

### **TEST RESULT SHEET**

Stellar 1225382 18 LED Stop and Tail Lamp Bar – 12 inch

**MECHANICAL TESTS:** SAE J575e Sample: 3 Vibration test (Shock test). There was no evidence of material degradation, displacement or rupture of components. LEDs were not damaged. **PASSED** Moisture Test (IP X7): Lamp had no moisture intrusion inside of its cavity **PASSED Dust Test: NOT REQUIRED** Corrosion Test: **NOT REQUIRED** Thermal Test: **PASSED** There was no evidence of reduced function, material degradation or discoloration **PASSED** 

LED Life Test:

**Durability Test:** 

Test Component:

Lamp is not blinking, blackening or shutting off after

Lamp operation remains normal after testing

1000 hrs. PASSED

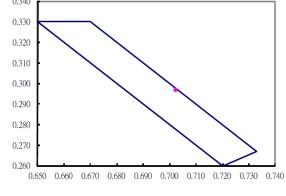
Tests reviewed by: Gary I. Robin

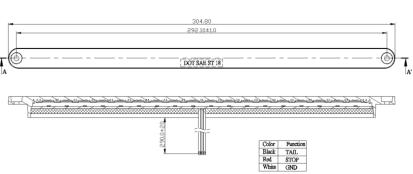
**PASSED** 

### **TEST DATA SHEET**

Test Component: Stellar 1225382 18 LED Stop and Tail Lamp Bar -12 inch

·					
Test Item	Chroma Test per SAE J578C				
Test Date	4.25.19				
Equipment	power Supply, chroma Meter				
Test Condition:					
1. 23~28° C					
2. Voltage: 12.8 V					
Test Method:					
Mount specimen on t	cooling, chroma test at a distance of 1.5 M using CIE fixture.				
Determined Standard :					
Y≦0.33 ( yellow bou	indary)				
Y≧0.98-X(purple boo	undary)				
Test Result :					
X=0.702 Y=0.297					
0.340					





Result: PASSED SAE J578C color test

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By:

# PHOTOMETRIC TEST DATA SHEET

Test Component: Stellar 1225382 18 LED Stop and Tail Lamp Bar – 12 inch

Sample: 1

Specification: FMVSS 108 Table VIII Tail Lamp (3 or more sections)

Test Distance: 3.16M

Test Voltage: 14.00 Volts
Test Current: 0.03 Amps
Test Power: 0.42 Watts

# LUMINOUS INTENSITY, CANDELLA

TEST POINT	<u>MIN</u>	MAX	<u>MEASURED</u>	<u>H-REAIM</u>	V-REAIM
10U-5L 10U-5R 5U-20L 5U-10L 5U-V 5U-10R 5U-20R H-10L H-5L H-V H-5R H-10R 5D-20L 5D-10L 5D-V 5D-10R 5D-20R 10D-5L 10D-5R	1 1 .7 2 4.5 2 .7 2 5 5 5 2 .7 2 4.5 2 .7 2 4.5 2 .7 2 4.5 2 .7 2 4.5 2 .7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 25 25 25 25 25 25 25 25 25 25 25 25 2	5.74 5.85 6.09 10.34 14.02 7.72 3.47 11.84 16.54 15.61 12.33 7.15 5.66 8.56 11.93 7.26 3.59 5.08 7.01	-5 +5 -20 -10 0 +10 +20 -10 -5 0 +5 +10 -20 -10 0 +10 +20 -5 +5	+10 +10 +5 +5 +5 +5 0 0 0 0 0 -5 -5 -5 -10 -10
GROUP 1 GROUP 2 GROUP 3 GROUP 4 GROUP 5	3.5 6 24 6 3.5		22.58 30.74 70.43 22.12 19.92		

Device meets requirements at all points.

# PHOTOMETRIC TEST DATA SHEET

Test Component: Stellar 1225382 18 LED Stop and Tail Lamp Bar – 12 inch

Sample: 1

Specification: FMVSS 108 Table IX Stop Lamp (3 or more sections)

Test Distance: 3.16M

Test Voltage: 12.80 Volts Test Current: 0.28 Amps Test Power: 3.58 Watts

# LUMINOUS INTENSITY, CANDELLA

TEST POINT	MIN	MAX	MEASURED	<u>H-REAIM</u>	V-REAIM
10U-5L 10U-5R 5U-20L 5U-10L 5U-V 5U-10R 5U-20R H-10L H-5L H-V H-5R H-10R 5D-20L 5D-10L 5D-V 5D-10R 5D-20R 10D-5L	22 22 15 40 95 40 15 55 110 110 55 15 40 95 40 110 55 12	420 420 420 420 420 420 420 420 420 420	61.83 62.09 65.11 109.35 148.68 82.17 36.63 125.66 174.00 165.34 130.23 75.56 60.16 90.11 126.01 76.62 37.76 53.68	-5 +5 -20 -10 0 +10 +20 -10 -5 0 +5 +10 -20 -10 0 +10 +20 -5	+10 +10 +5 +5 +5 +5 +5 -5 -5 -5 -5 -5
10D-5R	22	420	54.95	+5	-10
GROUP 1 GROUP 2 GROUP 3 GROUP 4 GROUP 5	70 135 520 135 70		240.78 325.12 744.26 234.36 191.42		

Device meets requirements at all points.

Reviewed and approved for submittal by:

Gary I. Robin

Responsible Engineer

Day 1 Palmi

May 1, 2019