

Engineering Test Summary

Warning Light Conformance - SAE J595

LIGHT MODELS: VTG48RBA Lightbar

1. Rationale/Background:

This document summarizes conformance testing per SAE J595 (Mar 2014) on the above stated products as conducted by ESG's Test Laboratory.

2. References:

SAE J595 (Mar 2014) – Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles
 SAE J575 (Aug 2015) - Test Methods and Equipment for Lighting Devices for Use on Vehicles Less than 2032 mm in Overall Width
 SAE J576 (Aug 2017) – Plastic Material or Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices
 SAE J578 (Mar 2016) - Color Specification
 SAE J2139 (Dec 2014) – Tests for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width

3. Results:

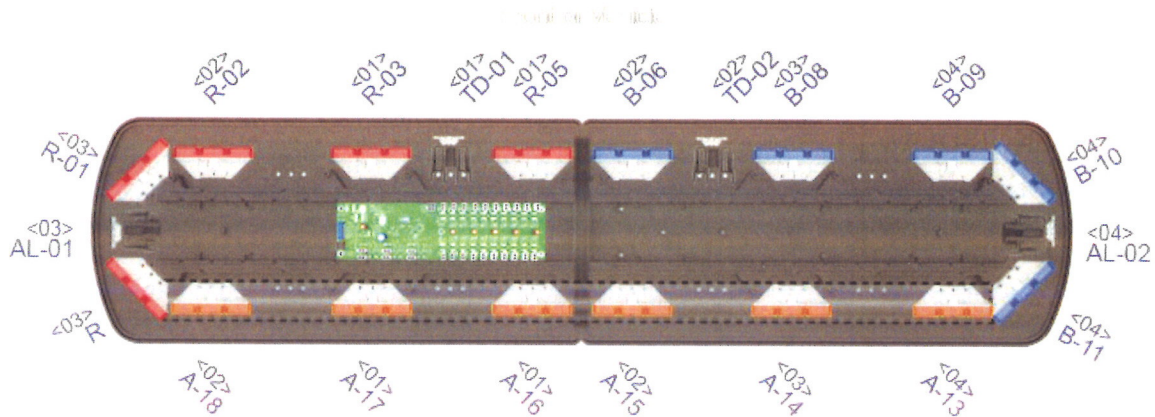
This is to certify test units were subjected to requirements outlined in SAE J595. The test results show the test units **PASSED** the necessary requirements outlined in SAE J595.

4. Summary of Results:

The following summary references the test clauses outlined in SAE J595.

<u>SAE J595 Test Requirement</u>		<u>Status</u>
5.1	Vibration Test	Pass
5.2	Moisture Test	Pass
5.3	Dust Test	Pass
5.4	Corrosion Test	Pass
5.5	Warpage Test for Plastic Component	Pass
5.6	Photometry (See Photometric Summary Table)	Pass
5.7	Flash Rate and Flash Patterns (See Photometric Summary Table)	Pass
5.8	Color Test (See Photometric Summary Table)	Pass
5.9	High Temperature Flash Rate Test	Pass
5.10	Low Temperature Flash Rate Test	Pass
5.11	Durability Flash Rate Test	Pass
5.12	Materials Test	Pass


 Test Engineering Supervisor
 Date: 3 July 2018



Photometric Summary Table (Day Mode)

Pattern	Description	FPM	Amber	Blue	Red	White
1	Double	75	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
2	Quad	65	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
3	Double	65	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
4	Quint	75	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
5	Pulse8	85	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
6	Single	120	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
7	Double	120	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
8	Triple	120	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
9	Quad	120	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A
10	Burst	120	CLASS 1A	CLASS 1A	CLASS 1A	CLASS 1A

Safety Director Photometric Summary Table (Day Mode)

Pattern	Description	FPM	Amber	Blue	Red	White
1	Center Out Chase	75	N/A	N/A	N/A	N/A
2	Center Out Fill	65	N/A	N/A	N/A	N/A
3	Wig Wag	65	CLASS 1S	CLASS 1S	CLASS 1S	CLASS 1S
4	Alt Quad	75	CLASS 1S	CLASS 1S	CLASS 1S	CLASS 1S
5	Alt Quad w/center	85	CLASS 1S	CLASS 1S	CLASS 1S	CLASS 1S
6	Alt Single	120	CLASS 1S	CLASS 1S	CLASS 1S	CLASS 1S
7	Alt Single w/ center	120	CLASS 1S	CLASS 1S	CLASS 1S	CLASS 1S
8	Left Chase	120	N/A	N/A	N/A	N/A
9	Left Fill	120	N/A	N/A	N/A	N/A
10	Right Chase	120	N/A	N/A	N/A	N/A
11	Right Fill	90	N/A	N/A	N/A	N/A



Worldwide Headquarters | 833 West Diamond Street, Boise, Idaho 83705

T (800) 635-5900 | F (800) 688-3226 | sales@eccogroup.com | www.eccosafetygroup.com

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