



SURFACE VEHICLE RECOMMENDED PRACTICE	J1319™	AUG2022
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Superseding J1319 OCT2015		
Rear Fog Lamp System		

RATIONALE

The following updates were made during the Five-Year Review of this SAE Recommended Practice:

- Section 2.1.1 SAE Publications updated to reflect new title for SAE J578.
- SAE J1889 moved to 2.1.1 from 2.2.1, and SAE J1889 inserted as new requirement in 5.1.5.2.
- Section 2.1.2 title updated to “United Nations Publications” from “ECE Publication.”
- SAE J567 moved to 2.2.1 from 2.1.1, and SAE J387 added to 2.2.1.
- UN Regulation 148 added to the Foreword and 2.1.2 United Nations Publications.
- Section 3.3 title revised to LIGHT EMITTING DIODE (LED) was L.E.D.
- Section 5.3 added to clarify materials test SAE J576 is part of this report.
- Figure 1 revised by replacing arrows with dots to clarify the extents of H-Line A and V-Line B, and the associated footnote 2 revised to “... along entire lengths between end points of H-Line A and V-Line B...”
- Previous 7.1.3 combined into 7.2, subsequent sections renumbered.
- Section 7.2 reworded to align more closely with the electrical connection requirements stated in UN Regulation 48.

FOREWORD

“UN Regulation 38 - Uniform Provisions Concerning the Approval of Rear Fog Lamps for Power-Driven Vehicles and Their Trailers” and/or “UN Regulation 148 - Uniform Provisions Concerning the Approval of Light-Signaling Devices (Lamps) for Power Driven Vehicles and their Trailers” are similar to this SAE Recommended Practice. Rear fog lamp minimum photometric candela values are lower in this SAE Recommended Practice than those specified in UN Regulations to account for the differences between UN test voltage versus SAE design voltage when incandescent light sources are utilized in rear fog lamps. Maximum photometric candela values in this SAE Recommended Practice are common with those found in UN Regulations to account for rear fog lamps utilizing LED light sources.

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https://www.sae.org/standards/content/J1319_202208/

1. SCOPE

This SAE Recommended Practice provides test procedures, requirements, and guidelines for rear fog lamp systems.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications and the latest revision of referenced UN Regulations shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J575	Test Methods and Equipment for Lighting Devices for Use on Vehicles Less than 2032 mm in Overall Width
SAE J576	Plastic Material or Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices
SAE J578	Chromaticity Requirements for Ground Vehicle Lamps and Lighting Equipment
SAE J585	Tail Lamps (Rear Position Lamps) for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J759	Lighting Identification Code
SAE J1889	LED Signal and Marking Lighting Devices

2.1.2 United Nations Publications

Available from United Nations Economic Commission for Europe, Palais des Nations, CH-1211, Geneva 10, Switzerland, Tel: +41-0-22-917-12-34, <https://www.unece.org/transport/vehicle-regulations>.

UN Regulation 38	Uniform Provisions Concerning the Approval of Rear Fog Lamps for Power-Driven Vehicles and Their Trailers
UN Regulation 48	Uniform Provisions Concerning the Approval of Vehicles with Regard to the Installation of Lighting and Light-Signaling Devices
UN Regulation 148	Uniform Provisions Concerning the Approval of Light-Signaling Devices (Lamps) for Power-Driven Vehicles and Their Trailers

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J387	Terminology - Motor Vehicle Lighting
SAE J567	Light Source Retention System
SAE J2139	Tests for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width

3. DEFINITIONS

3.1 REAR FOG LAMP

A lighting device providing a continuous red light of higher intensity than a tail lamp (SAE J585) for the purpose of marking the rear of a vehicle during fog or similar conditions of reduced visibility.

3.2 REAR FOG LAMP SYSTEM

One or two rear fog lamps with their respective wiring, connectors, switch, and a function indicator.

3.3 LIGHT EMITTING DIODE (LED)

A pn junction semiconductor device that emits incoherent optical radiation when forward biased. The optical emission may be in the ultraviolet, visible, or infrared wavelength regions (ANSI definition).

4. LIGHTING IDENTIFICATION CODE

Rear fog lamps shall be identified by the code F2 in accordance with SAE J759.

5. TESTS

5.1 SAE J575 is a part of this report.

The following tests are applicable:

5.1.1 Vibration Test

5.1.2 Moisture Test

5.1.3 Dust Test

5.1.4 Corrosion Test

5.1.5 Photometry Test

5.1.5.1 Photometric measurements shall be made with the light source(s) of the lamp at least 3 m from the photometer. The H-V axis shall be taken as parallel to the axis of reference of the lamp as mounted on the vehicle.

5.1.5.2 The test methods and procedures of SAE J1889 shall also apply if LED light sources are present in the lamp.

5.1.6 Warpage Test for Devices with Plastic Components

5.2 Color Test

SAE J578 is a part of this report.

5.3 Materials Test

SAE J576 is a part of this report.

6. REQUIREMENTS

6.1 Performance Requirements

A device, when tested in accordance with the test procedures specified in Section 5, shall meet the following requirements with the modifications indicated:

6.1.1 Vibration

SAE J575.

6.1.2 Moisture

SAE J575.

6.1.3 Dust

SAE J575.

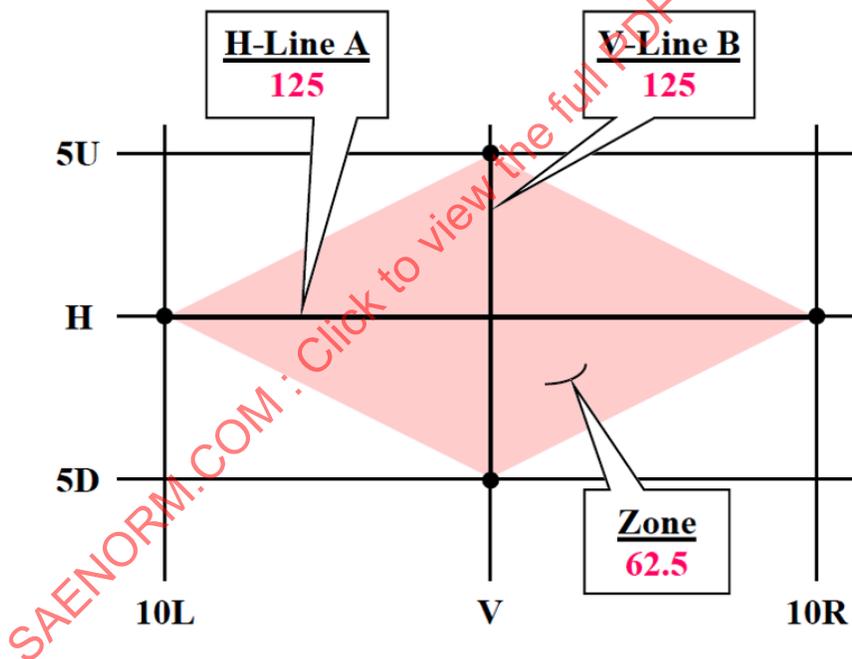
6.1.4 Corrosion

SAE J575.

6.1.5 Photometry

SAE J575.

6.1.5.1 Each lamp shall meet the photometric performance requirements contained in Figure 1 and its footnotes.



1. The maximum luminous intensity in all directions in which the lamp(s) can be observed is 300 cd per lamp.
2. The minimum luminous intensity of 125 cd shown is required along the entire lengths between end points of H-Line A and V-Line B (expressed in degrees of angle with the H-V axis of reference).
3. The minimum luminous intensity of 62.5 cd is required in the entire shaded zone (rhombus defined by the end points of H-Line A and V-Line B).

**Figure 1 - Photometric requirements
minimum luminous intensity (cd)**