



SURFACE VEHICLE STANDARD

J583™

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Superseding J583 NOV2011

Front Fog Lamp

RATIONALE

Revised Figure 2 - Photometric requirements for harmonized front fog lamp luminous intensity (cd) to correct errors and harmonize with current ECE R19 requirements.

1. Revised left side of drawn Line 1, 2, 3, 4, 5, 6, and 7 in the figure to end at correct angular value. Current lines extend to the left beyond specified angular extent of each line.
2. Reordered footnotes to list in a more logical order.
3. Separated current footnote #3 into footnote #4 for Line 6 and #5 for Line 7 to help with clarity.
4. Corrected footnote #4 that line 6 is a maximum and minimum measured line.
5. Corrected footnote #5 to state Line 7 is required to be less than 50% of Line 6 maximum. Current footnote incorrectly states Line 7 is required to be less than 50% of Line 6 minimum.
6. Revised drawn Line 6 and 7 along with modifying the text box pointing to each to indicate there is an asymmetric option to reduce the inboard angular extent if the lamps are a pair of lamps with an asymmetric beam pattern. This harmonizes with the current ECE R19.
7. Added footnote #7 allowing inboard angular relief for lines 6 and 7 consistent with figure modification above.

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1. SCOPE

This SAE standard provides test procedures, performance requirements, design guidelines and installation guidelines for front fog lamps.

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 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 J387	Terminology - Motor Vehicle Lighting
SAE J575	Test Methods and Equipment for Lighting Devices and Components 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	Color Specification
SAE J588	Turn Signal Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J599	Lighting Inspection Code
SAE J759	Lighting Identification Code
SAE J1383	Performance Requirements for Replaceable Bulb Motor Vehicle Headlamps
SAE J2139	Test for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width
SAE J2442	Harmonized Provisions for Installation of Lamps and Retro-Reflecting Devices on Road Vehicles except Motorcycles

2.1.2 CMVSS Publication

Available from Transport Canada, Road Safety and Motor Vehicle Regulation Directorate, P.O. Box 8880, Ottawa Post Terminal, Ottawa, Ontario, K1G 3J2, www.tc.gc.ca.

CMVSS 108 Canadian Motor Vehicle Safety Standard for Exterior Lighting

2.1.3 ECE Publication

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

ECE R19 Uniform Provisions Concerning the Approval of Motor Vehicle Front Fog Lamps

3. DEFINITIONS

3.1 FRONT FOG LAMP

A lighting device designed to provide illumination forward of the vehicle under conditions of fog, rain, snow, or dust.

3.2 GRADIENT

A measure of the change in light level over a change in location within the beam. It is an objective means to measure cutoff sharpness and determine cutoff location.

3.3 CUTOFF

A generally horizontal, visual/optical aiming cue in the beam that marks a separation between areas of higher and lower luminance.

3.4 CUTOFF LINE

The line where the maximum vertical photometric gradient is located.

3.5 ASYMMETRICAL LAMPS

Specifically designed lamps intended to be used together on a vehicle having beam patterns that are not symmetrical with respect to the vertical axis through H-V.

3.6 SYMMETRICALLY OPPOSITE LAMPS

Lamps with beam patterns that are mirror images of each other with respect to the vertical axis through H-V.

3.7 HARMONIZED FRONT FOG LAMP

A lamp for use with or without headlamps providing illumination forward of the vehicle under adverse weather conditions designed to harmonize with international front fog lamp requirements.

4. LIGHTING IDENTIFICATION CODE, MARKINGS AND NOTICES

Front fog lamps meeting the requirements of Photometry Figure 1 of this document may be identified by the code "F" in accordance with SAE J759. Front fog lamps meeting the requirements of Photometry Figure 2 of this document may be identified by the code "F3" in accordance with SAE J759.