

Sidemarkers Lamps for Use on Road Vehicles Less Than 2032 mm in Overall Width

1. Scope—This SAE Standard provides test procedures, requirements, and guidelines for sidemarkers lamps for vehicles less than 2032 mm in overall width.

1.1 Rationale—This document has been reaffirmed to comply with the SAE 5-Year Review policy.

2. References

2.1 Applicable Publications—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, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J567—Lamp Bulb Retention System

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 Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices

SAE J578—Color Specification

SAE J759—Lighting Identification Code

SAE J1889—L.E.D. Lighting Devices

SAE J2042—Clearance, Sidemarkers, and Identification Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width

SAE J2139—Test for Lighting Devices and Components used on Vehicles 2032 mm or More in Overall Width

2.2 Related Publications—The following publications are provided for information purposes only and are not a required part of this document.

2.2.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J387—Terminology—Motor Vehicle Lighting

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2.2.2 NHTSA PUBLICATION—Available from the Superintendent of Documents, U. S. Government Printing Office, Mail Stop: SSOP, Washington, DC 20402-9371. www.nhtsa.dot.gov.

Code of Federal Regulations 49 - Part 571.108 FMVSS 108

3. **Definitions**

3.1 **Sidemarkers Lamps**—Lighting devices used to indicate the presence and length of the vehicle when viewed from the side.

4. **Lighting Identification Code**—Sidemarkers lamps which meet the requirements of this document may be identified by the code “P2” in accordance with SAE J759.

5. **Tests**

5.1 SAE J575 and SAE J1889 are a part of this document. The following tests are applicable with the modifications as indicated. Alternatively, sidemarkers lamps may be tested according to SAE J2139.

5.1.1 VIBRATION

5.1.2 MOISTURE

5.1.3 DUST

5.1.4 CORROSION

5.1.5 PHOTOMETRY

5.1.5.1 The photometric tests shall be made at a distance of at least 3 m between the lighting device and the photometer.

5.1.5.2 The H-V axis of a sidemarkers lamp in a position as it will be mounted on a vehicle shall be taken as perpendicular to a vertical plane passing through the longitudinal axis of the vehicle.

5.1.6 WARPAGE

5.2 **Color**—SAE J578 is a part of this document.

5.3 **Plastic Materials**—SAE J576 is part of this document.

6. **Requirements**

6.1 **Performance Requirements**—The device when tested in accordance with the test procedures of this document shall meet the requirements of SAE J575 and, if applicable, SAE J1889. Alternatively, if tested according to SAE J2139, sidemarkers lamps shall meet the requirements of SAE J2139.

NOTE—Sidemarkers conforming to requirements of SAE J2042 meet requirements of SAE J592.

6.1.1 VIBRATION

6.1.2 MOISTURE

6.1.3 DUST