

**(R) SPOT LAMPS**

1. **Scope**—This SAE Standard provides test procedures and performance requirements for spot lamps.
2. **References**
  - 2.1 **Applicable Publications**—The following publications form a part of this specification to the extent specified herein. Unless otherwise specified, 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 J578—Color Specification
      - SAE J759—Lighting Identification Code
3. **Definitions**
  - 3.1 **Spot Lamps**—Lamps which are designed to be installed on a motor vehicle and which provide a substantially parallel beam of light and are capable of being aimed as desired by the user for non-driving purposes.
4. **Lighting Definition Code**—Spot light for vehicles may be identified with "0" in accordance with SAE J759 and designed to comply with SAE J575 and SAE J578.
5. **Tests**
  - 5.1 **SAE J575**—The following test procedures in SAE J575 tests for motor vehicle lighting devices and components are part of this document with modifications as indicated.
    - 5.1.1 VIBRATION TEST
    - 5.1.2 MOISTURE TEST
    - 5.1.3 DUST TEST—The dust test shall not be required for sealed units.
    - 5.1.4 CORROSION TEST

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5.1.5 WARPAGE

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

**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 indicated in SAE J575:

6.1.1 VIBRATION

6.1.2 MOISTURE

6.1.3 DUST

6.1.4 CORROSION

6.1.5 WARPAGE

6.1.6 COLOR—The color of the emitted light shall be white as defined in SAE J578.

6.1.7 BEAM PATTERN—The spot lamp beam pattern shall be well defined and generally round or oval in shape, without voids or dark areas.

**7. Notes**

**7.1 Marginal Indicia**—The change bar (I) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

PREPARED BY THE SAE ROAD ILLUMINATION DEVICES STANDARDS COMMITTEE  
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APPENDIX A

- A.1** As a matter of additional information, attention is called to SAE J567 for requirements and gages in socket design.

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