SAE International	SURFACE VEHICLE RECOMMENDED PRACTICE	J1373	REV. MAY2006
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Rear Cornering Lamps for Use on Motor Vehicles Less than 9.1 m in Overall Length

RATIONALE

Content Changes:

The following statements will give the rationale for the changes/modifications in the content of SAE J1373 APR1996:

Section 6.1.5.1 Table 1: Moved the photometric values from Table 2 (Guidelines) into Table 1 (Requirements). This is consistent with the direction of eliminating photometric guidelines and having photometric requirements in the SAE J-documents.

Section 6.1 has been changed to read: A device, when tested in accordance with the test procedures specified in Section 5, shall be designed to conform to the following requirements:

Section 7.1.3 Table 2: Eliminated Table 2 (Guidelines).

Numbering corrections and formatting where needed.

1. SCOPE

This SAE Recommended Practice provides test procedures, requirements, and guidelines for rear cornering lamps for use on vehicles less than 9.1 m in overall length.

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, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

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

3. DEFINITIONS

3.1 Rear Cornering Lamps

Supplemental lamps used to provide illumination to an area to the side and rearward of the vehicle when it is backing up.

3.2 Incidental Light

Light emitted from a lamp that is projected from other than the intended light emitting surface. Incidental light is typically a color other than that of the intended lighting function.

4. LIGHTING IDENTIFICATION CODE

Rear cornering lamps may be identified by the code K2 in accordance with SAE J759.

5. TESTS

5.1 SAE J575 is a part of this document. The following tests are applicable with the modifications as indicated:

5.1.1 Vibration Test

5.1.2 Moisture Test

5.1.3 Dust Exposure Test

5.1.4 Corrosion Test

5.1.5 Photometry Test

In addition to the test procedure in SAE J575, the following shall apply:

5.1.5.1 Photometric measurements shall be made with the light source of the lamp at least 3 m from the photometer. The H-V axis shall be taken as the horizontal line through the light source and perpendicular to the longitudinal axis of the vehicle.

5.1.6 Warpage Test on Devices with Plastic Components

5.2 Color Test

SAE J578 is part of this document.

5.3 Plastic Optical Materials Test

SAE J576 is part of this document.

6. REQUIREMENTS

6.1 A device, when tested in accordance with the test procedures specified in Section 5, shall be designed to conform to the following requirements per SAE J575 unless otherwise noted.

6.1.1 Vibration

6.1.2 Moisture

6.1.3 Dust Exposure

6.1.4 Corrosion

6.1.5 Photometry

6.1.5.1 The lamp under test shall meet the performance requirements contained in Table 1. Test points shown are for a lamp mounted on the left side of the vehicle. Right-hand angles should be substituted for left-hand angles for a lamp mounted on the right side of the vehicle.

TABLE 1 - PHOTOMETRIC REQUIREMENTS

Test Position (Degrees)	Luminous Intensity Candela (cd)
2-1/2 D - 30 L	40 min
2-1/2 D - 45 L	80 min
2-1/2 D - 60 L	40 min
Horizontal and Above	500 max

6.1.5.2 If the lamp has portions of its lens which project nonwhite light, that light shall be excluded from measurements made to determine compliance with 6.1.5.1. The lamp shall meet the photometric requirements of this document with white light alone.

6.1.6 Warpage

Per SAE J575 (for devices with plastic components).

6.2 Color

The color of the light from a rear cornering lamp shall be white as specified in SAE J578. The lamp may project incidental red, yellow, or white light through reflectors or lenses that are adjacent, close to, or a part of the lamp assembly. If a lamp has portions of its lens which project nonwhite light, that light shall be regarded as incidental if, when only the nonwhite light is measured at each test point specified in Table 1, the sum of such measurements does not exceed 20% of the sum of the test point measurements of the total light output (white plus nonwhite).

6.3 Material Requirements

Plastic materials used in optical parts shall meet the requirements of SAE J576.

7. GUIDELINES

7.1 Installation Guidelines

The following guidelines apply to rear cornering lamps as used on the vehicle and shall not be considered part of the requirements:

7.1.1 Rear cornering lamps should be mounted on each side, near or at the rear of the vehicle. These lamps may be combined with other lamps on the vehicle provided each function of the combined lamp meets its respective requirements.