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Reflex Reflectors**1. Scope**

This SAE Standard provides test procedures, requirements, and guidelines for reflex reflectors.

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 J575—Tests for Motor Vehicle Lighting Devices and Components

SAE J576—Plastic Materials for Use in Optical Parts Such as Lenses and Reflectors of Motor Vehicle Lighting Devices

SAE J578—Color Specification

SAE J759—Lighting Identification Code

2.2 Related Publications

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

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2.2.1 SAE PUBLICATIONS

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-001.

SAE J585—Tail Lamps (Rear Position Lamps) for Use on Motor Vehicles Less Than 2032 mm in Overall Width

SAE J586—Stop Lamps for Use on Motor Vehicles Less Than 2032 mm in Overall Width

SAE J588—Turn Signal Lamps for Use on Motor Vehicles Less Than 2032 mm in Overall Width

SAE J592—Clearance, Side Marker, and Identification Lamps

SAE J1395—Front and Rear Turn Signal Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width

SAE J1398—Stop Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width

SAE J2040—Tail Lamps (Rear Position Lamps) for Use on Vehicles 2032 mm or More in Overall Width

SAE J2041—Reflex Reflectors for Use on Vehicles 2032 mm or More in Overall Width

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

2.2.2 FEDERAL SPECIFICATIONS:

Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

FMVSS 108 56FR 64733 - 64737—Turn Signal Geometric Visibility Requirements

3. Definitions

3.1 Reflex Reflectors

Devices that are used on vehicles to give an indication of presence to an approaching driver by reflected light from the headlamps on the approaching vehicle.

3.2 The Observation Angle

The angle between a line from the observation point to the center of the reflector and a second line from the center of the reflector to the source of illumination.

3.3 The Entrance Angle

The angle between the axis of the reflex reflector and a line from the center of the reflector to the source of illumination.

4. Identification Code

Reflex reflectors may be identified by the Code "A" in accordance with SAE J759.

5. Tests

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

5.1.1 VIBRATION TEST

5.1.2 MOISTURE

5.1.3 DUST TEST

5.1.4 CORROSION TEST

5.1.5 PHOTOMETRY

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

5.1.5.1 Test Setup

Photometric measurement shall be made at a test distance of at least 30 m with the reflex reflector setup for testing as shown in Figure 1. The reflex reflector shall be mounted in a goniometer with the center of the reflex area at the center of rotation and at the same horizontal level as the source of illumination.

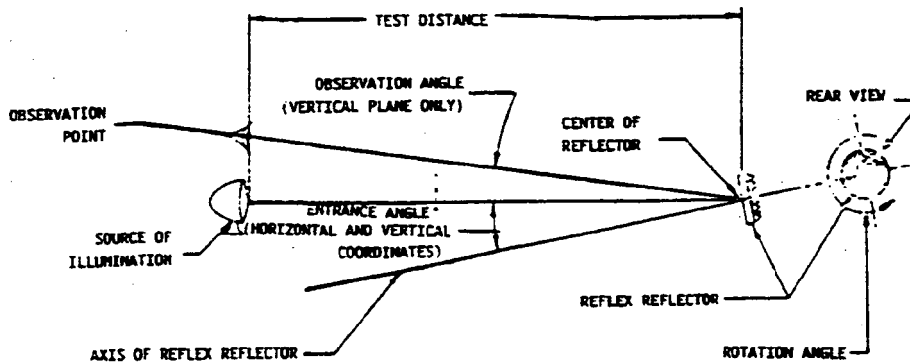


FIGURE 1—SETUP FOR TESTING