

φ **PARKING LAMPS (FRONT POSITION LAMPS)—
SAE J222 MAR86**

SAE Standard

Report of the Lighting Committee, approved October 1951, and revised March 1986. Rationale statement available.

1. **Scope**—This SAE Standard provides test procedures, requirements, and guidelines for parking lamps (front position lamps).

2. **Definitions**

2.1 **Parking Lamps**—Whether separate or in combination with other lamps, parking lamps are lamps on both the left and right of the vehicle which show to the front and are intended to mark the vehicle when parked. In addition, these front lamps serve as a reserve front position indicating system in the event of headlamp failure.

3. **Lighting Identification Code**—Parking lamps may be identified by the code "P" in accordance with SAE J759, Lighting Identification Code.

4. **Tests**

4.1 SAE J575, Tests for Motor Vehicle Lighting Devices and Components, is a part of this report. The following tests are applicable with the modifications as indicated:

4.1.1 VIBRATION TEST

4.1.2 MOISTURE TEST

4.1.3 DUST TEST

4.1.4 CORROSION TEST

4.1.5 **PHOTOMETRY TEST**—In addition to the test procedures in SAE J575, the following apply:

4.1.5.1 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 parallel to the axis of reference of the lamp as mounted on the vehicle.

4.1.6 **WARPAGE TEST FOR DEVICES WITH PLASTIC COMPONENTS**

4.2 **Color Test**—SAE J578, Color Specification for Electric Signal Lighting Devices, is a part of this report.

5. **Requirements**

5.1 **Performance Requirements**—A device, when tested in accordance with the test procedures specified in Section 4, shall meet the following requirements:

5.1.1 VIBRATION—SAE J575.

5.1.2 MOISTURE—SAE J575.

5.1.3 DUST—SAE J575.

5.1.4 CORROSION—SAE J575.

5.1.5 **PHOTOMETRY**—In addition to the photometric requirements in SAE J575, the following apply:

5.1.5.1 The lamp under test shall meet the photometric performance

TABLE 1—PHOTOMETRIC REQUIREMENTS^{1,2}

Zone	Test Points (Degrees)	Minimum Luminous Intensity (Candela)
	Lighted Section	
1	10U- 5L 5U-20L 5D-20L 10D- 5L	2.4
2	5U-10L H-10L 5D-10L	3.0
3	5U-V H-5L H-V H-5R 5D-V	16.8
4	5U-10R H-10R 5D-10R	3.0
5	10U- 5R 5U-20R 5D-20R 10D- 5R	2.4

¹ The measured values at each test point shall not be less than 60% of the minimum values in Table 2.

² Ratio requirements of paragraph 5.1.5.2 apply.

requirements contained in Table 1. The summation of the luminous intensity measurements at the specified test points in a zone shall be at least the value shown.

5.1.5.2 When a parking lamp is combined with the turn signal lamp, the signal lamp shall not be less than three times the luminous intensity of the parking lamp at any test point on or above horizontal; except that at H-V, H-5L, H-5R, and 5U-V, the (turn signal) lamp shall not be