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Parking Lamps (Front Position Lamps)—SAE J222a

SAE Standard
Last Revised January 1977

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**THIS IS A PREPRINT AND WILL
APPEAR IN THE NEXT EDITION
OF THE SAE HANDBOOK**

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PREPRINT

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**PARKING LAMPS
(FRONT POSITION LAMPS)—SAE J222a**

SAE Standard

Report of Lighting Committee approved December 1970 and last revised January 1977. Rationale statement available.

ϕ 1. Scope—This Engineering design standard provides design parameters and general requirements for parking lamps (front position lamps). It is intended for use in conjunction with the Service Performance Specification, SAE J256.

ϕ 2. Definition—Whether separate or in combination with other lamps, parking lamps (front position 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. Laboratory Requirements

ϕ 3.1 General Requirements—The following sections from SAE J575 are a part of this standard:

- Section 2 —Samples for Test
- Section 2.2—Bulbs
- Section 2.3—Test Fixture
- Section 3 —Laboratory Facilities
- Section 4.1—Vibration Test
- Section 4.2—Moisture Test
- Section 4.3—Dust Test
- Section 4.4—Corrosion Test
- Section 4.6—Photometry
- Section 4.8—Warpage Test on Devices with Plastic Components

ϕ 3.2 Plastic Materials—Any plastic materials used in optical parts shall comply with the requirements set forth in SAE J576.

ϕ 3.3 Color Test—The color of light from parking lamps (front position lamps) shall be white or yellow (amber). (See SAE J578.)

ϕ 3.4 Photometric Requirements—Photometric tests shall be made at a distance of at least 4 ft (1.2 m). The H-V axis of a parking lamp (front position lamp) shall be taken as parallel with the longitudinal axis of the vehicle. Candlepower (candela) requirements for parking lamps (front position lamps) are shown in Table 1.

ϕ 3.5 Parking Lamp in Combination—When a parking lamp (front position lamp) is optically combined with a turn signal and the parking lamp (front position lamp) is connected to be operated with the headlamps, the turn signal shall not be less than three times the candlepower of the parking lamp (front position lamp) at any test point on or above horizontal, except that at H-V, H-5L, H-5R, and 5U-V the turn signal

ϕ TABLE 1—PHOTOMETRIC REQUIREMENTS

Test Point, deg		Min Candle-power (Candela)	Test Point, deg		Min Candle-power (Candela)
10U	10L	0.8	H	5R	3.6
	V	0.8		10R	1.4
	10R	0.8		20R	0.4
5U	20L	0.4	5D	20L	0.4
	10L	0.8		10L	0.8
	5L	1.4		5L	1.4
	V	2.8		V	2.8
	5R	1.4		5R	1.4
	10R	0.8		10R	0.8
20R	0.4	20R	0.4		
H	20L	0.4	10D	10L	0.8
	10L	1.4		V	0.8
	5L	3.6		10R	0.8
	V	4.0			

shall not be less than five times the candlepower of the parking lamp (front position lamp). When a two-filament bulb is used, the bulb shall have an indexing base and the socket shall be designed so that bulbs with nonindexing bases cannot be used.

APPENDIX

ϕ As a matter of information, attention is called to SAE J567 for requirements and gages to be used in socket design.

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