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Service Performance Requirements For Motor Vehicle Lighting Devices and Components—SAE J256b

SAE Recommended Practice
Last Revised March 1978

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HANDBOOK.

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**SERVICE PERFORMANCE REQUIREMENTS
FOR MOTOR VEHICLE LIGHTING DEVICES
AND COMPONENTS—SAE J256b**

SAE Recommended Practice

Report of Lighting Committee approved July 1971 and last revised March 1978. Rationale statement available.

1. Scope—This recommended practice covers service performance tests, test methods, and requirements applicable to lighting devices and components covered by SAE Standards, Recommended Practices, and Information Reports. It is intended to supplement the engineering design test procedures and requirements by establishing test procedures and requirements for service evaluation of many of the lighting devices covered by SAE Standards.

2. Samples for Test—Test samples shall be new, unused devices fabricated from production tools and assembled by production processes. Bulbs used in tests shall be those supplied with the device and within the design tolerances. If the device to be tested does not contain a bulb(s) and/or socket(s), only those bulb(s) and/or socket(s) approved by the lamp manufacturer shall be used.

3. Requirements

3.1 The lighting devices shall comply with all test requirements specified in applicable SAE Standards unless otherwise noted herein.

3.2 For the device to comply with the photometric requirements, the summation of the candela readings of the specific test points in a zone shall meet the value specified for that zone in the appropriate table(s) and applicable footnotes.

3.3 The measured candela at each test point shall not be less than 60% of the minimum requirements specified in applicable SAE Standards.

4. Photometric Test Procedure

4.1 The photometric measurement shall be made with the device mounted in its normal operating position and at the distance between the light source and the point of measurement as specified in the appropriate SAE Standard.

4.2 A device using a two-filament bulb shall be oriented with respect to its major filament.

4.3 An adjustment in lamp orientation from design position may be made in determining compliance to the requirements of the appropriate table(s) and applicable footnotes, provided such adjustment does not exceed 3 deg. All zones must comply after final reaim.

4.4 Devices shall be operated at the design voltage. Devices designed for use with both 6 and 12 V systems or 24 and 12 V systems shall be tested with 12 V bulbs.

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The ϕ symbol is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

TABLE 1—MINIMUM LUMINOUS INTENSITY REQUIREMENTS, cd

Zones	Test Points, deg	Tail Lamps (Red Lighted Compartments) (see notes b, d)			Stop and Turn Signals (Red Lighted Compartments) (see notes c, d)			Turn Signals (Front Yellow Lighted Compartments) (see notes c, d, e)		Turn Signals (Rear Yellow Lighted Compartments) (see notes c, d)	
		1	2	3	1	2	3	1	2	1	2
		Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total	Compartment Zone Total
1	20L-5U	1.6	2.7	3.8	55	66	80	135	165	85	110
	20L-H										
	20L-5D										
	10L-10U										
2	10L-10D	2.1	3.6	5.5	85	100	115	210	251	140	160
	10U-V										
	5U-10L										
	5U-10R										
3	10L-H	3.4	5.3	8.0	140	167	195	350	420	225	275
	5L-5U										
	5L-5D										
	5U-V										
4	H-5L	9.6	16.5	24.0	380	449	520	950	1130	610	710
	H-V										
	H-5R										
	5D-V										
5	5R-5U	3.4	5.3	8.0	140	167	195	350	420	225	275
	5R-5D										
	10R-H										
	5D-10L										
6	5D-10R	2.1	3.6	5.5	85	100	115	210	251	140	160
	10D-V										
	10R-10U										
	10R-10D										
7	20R-5U	1.6	2.7	3.8	55	66	80	135	165	85	110
	20R-H										
	20R-5D										
	20R-5D										

^aApplies to lamps designed to SAE J575d requirements.

^bTail lamp candela shall not exceed 120% of maximum values as specified in SAE J585.

^cStop and turn lamps candela shall not exceed 120% of maximum values as specified in SAE J586 or J588.

^dA tolerance of 10% may be applied to each zone.

^eFront turn signal lamps having minimum intensities which are at least 2-1/2 times those shown above for zones 1-7 need not comply with the 4 in (100 mm) spacing requirement with respect to the lighted edge of the low beam headlamp unit.