

Motorcycle Turn Signal Lamps

1. Scope—This SAE Standard provides design parameters and general requirements for motorcycle turn signal lamps. It does not apply to mopeds.

2. References

2.1 Applicable Publications—The following publications form a part of the specification to the extent specified herein. Unless otherwise indicated, the latest revision of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J213—Motorcycle Classification

SAE J567—Lamp Bulb Retention System

SAE J575—Tests 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 Reflectors of Motor Vehicle Lighting Devices

SAE J578—Color Specification

3. Definition

3.1 Motorcycle Turn Signal Lamps—The signaling elements of a turn signal system which indicate the intent to change direction by giving a flashing light on the side toward which the turn will be made.

4. General Requirements—The effective projected illuminated area measured on a plane at right angles to the axis of a lamp shall not be less than 22 cm² (3-1/2 in²).

4.1 The following sections from SAE J575 are a part of this document:

4.1.1 SECTION 3.1—Vibration Test

4.1.2 SECTION 3.2—Moisture Test

4.1.3 SECTION 3.3—Dust Exposure Test

4.1.4 SECTION 3.4—Corrosion Test

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4.1.5 SECTION 3.5—Warpage Test on Devices with Plastic Components

4.1.6 SECTION 3.6—Photometry Test

4.1.6.1 See Table 1 for Motorcycle Class including C, D + H and Table 2 for Class including A,B,E,+L.

TABLE 1—MINIMUM INTENSITY REQUIREMENTS (cd) CLASS C,D+H MOTORCYCLES⁽¹⁾⁽²⁾

Test Points (degrees)		Front Signal Yellow	Rear Signal Red	Rear Signal Yellow
10 U and D	10 L and R	13	3	8
	V	30	8	20
5 U and D	20 L and R	13	3	8
	10 L and R	38	10	25
	5 L and R	63	15	40
	V	88	20	55
H	20 L and R	18	5	13
	10 L and R	50	13	33
	5 L and R	100	25	68
	V	100	25	65
Maximum Rear Lamp Only		—	300	750

1. Specifications in Tables 1 and 2 are based on laboratories using accurate, rated bulbs during testing.
2. Lamps designed for use in both 6 V and 12 V systems shall be tested with 12 V bulbs. Lamps designed to operate on the vehicle through a resistor or equivalent shall be photometered with the listed design voltage of the design source applied across the combination of resistance and filament.

TABLE 2—MINIMUM INTENSITY REQUIREMENTS (cd) CLASS A,B,E+L AND C MOTORCYCLES⁽¹⁾⁽²⁾

Test Points (degrees)		Red	Yellow
10 U and D	10 L and R	3	8
	V	7	15
5 U and D	20 L and R	3	8
	10 L and R	8	20
	5 L and R	13	30
	V	18	45
H	20 L and R	4	10
	10 L and R	10	28
	5 L and R	20	60
	V	20	60
Maximum Rear Lamp Only		300	750

1. Specifications in Tables 1 and 2 are based on laboratories using accurate, rated bulbs during testing.
2. Lamps designed for use in both 6 V and 12 V systems shall be tested with 12 V bulbs. Lamps designed to operate on the vehicle through a resistor or equivalent shall be photometered with the listed design voltage of the design source applied across the combination of resistance and filament.

4.1.6.2 All intensity measurements shall be made with the filament of the signal lamp at least 3 m (10 ft) from the photometer screen. The H-V axis shall be taken as parallel to the longitudinal axis of the vehicle.