

# JIS

**JAPANESE INDUSTRIAL STANDARD**

**Lamps for railway**

**JIS C 7503<sup>—1990</sup>**

**Translated and Published**

**by**

**Japanese Standards Association**

In the event of any doubt arising,  
the original Standard in Japanese is to be final authority.

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## Lamps for railway

C 7503-1990

1. Scope

This Japanese Industrial Standard specifies lamps for railway (hereafter referred to as the "lamps") which are used as railway vehicle lamps (hereafter referred to as the "vehicle lamps"), railway signal lamps (hereafter referred to as the "signal lamps") and railway vehicle sealed beam lamps (hereafter referred to as the "sealed beam lamps").

Remarks: Applicable Standards are given in Attached Table 1.

2. Definitions

For the purpose of this Standard, in addition to the definitions specified in JIS Z 8113, the following principal definitions shall apply:

- (1) optical axis A straight line which connects the geometrical center in up and down direction and right and left direction on the isocandela curve of a sealed beam lamp and the center of the front lens.
- (2) lamp axis A straight line which passes the geometrical center of the front lens and is perpendicular to the seating plane of the lamp in a sealed beam lamp.
- (3) angle of optical-axis deflection The angle which shows the discrepancy between the lamp axis and the optical axis.

3. Classification

The classes of lamps shall be expressed by the type designation as given in Attached Tables 2 to 4.

The type designation shall consist of the following items.

First item	Second item	Third item	Fourth item
Symbol denoting lamps for railway	Symbol denoting rated voltage	Symbol denoting rated wattage	Symbol denoting kinds of base and glass bulb
R : vehicle lamp S : signal lamp RS or CS : sealed beam lamp	10V 12V 24V 30V 32V 100V 110V 130V	5W, 150/ 50W 10W, 100/100W 15W, 150/100W 20W, 150/150W 25W, 200/150W 28W 30W 35W 40W 45W 60W	G : glass bulb of type G P : base of type P

Remarks: In general the type shall be designated by the first to third items and the fourth item shall be added if necessary.

4. Performances

4.1 Adhesion Strength of Base When the specimen is tested for adhesion strength of base as specified in 9.2.3, the specimen shall withstand the appropriate torsional moment given in Table 1.