

ICS 17.180
CCS A 60

JJG

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JJG 246-2005

Replacing JJG 246-1991; JJG 732-1991

**Verification Regulation of Standard Lamp of Luminous Intensity
(English Translation)**

Issued on: March 3, 2005

Implemented on: September 3, 2005

**Issued by: The General Administration of Quality Supervision, Inspection
and Quarantine issued, This regulation was approved by the General
Administration of Quality Supervision, Inspection and Quarantine on
March 3, 2005, and**

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Luminous intensity standard lamp verification procedure

1 Scope

This procedure is applicable to the first verification, subsequent verification and in-use inspection of luminous intensity standard lamps (referred to as standard lamps).

Test. The requirements for metering performance in standard lamp qualification can be referred to.

2 Citations

JJG 213-2003 "Distribution (color) temperature standard lamp" when using this procedure, care should be taken to use the current valid version of the above cited documents.

3 Overview

Luminous intensity standard lamps are measuring instruments that maintain and transmit a unit of luminous intensity. It is made to specific requirements an incandescent lamp with stable illuminating characteristics, the illuminants are arranged in a plane, the shape of the bulb and the additional aperture are sought to avoid or Reduce stray light. Such a lamp has a uniform light distribution in the measurement direction and has excellent reproducibility of magnitude.

4 Metrological performance requirements

4.1 Luminous intensity standard lamp stability Luminous intensity standard lamps must be aged according to relevant regulations before leaving the factory. The stability of the lamp after aging should be achieved.

When the test current (see Appendix A) is ignited for 4h, the lamp terminal voltage change of the vacuum lamp should be less than 0.15%, and the lamp end of the gas lamp the voltage change should be less than 0.25%.

4.2 Luminous intensity standard lamp angle characteristics Luminous intensity standard

lamps should have good horizontal and vertical angle characteristics, and the lamp should be rotated $\pm 1.5^\circ$ in the horizontal direction.

When the luminous intensity changes by no more than 0.6%. When the bulb is rotated $\pm 1.0^\circ$ in the vertical direction, the luminous intensity does not change more than 0.6%.

4.3 Annual rate of change of standard lamp luminous intensity value the luminous intensity standard lamp for the first inspection is not rated. Year after the re-examination, the year according to the luminous intensity of the lamp the rate of change and the level of the standard lamp used for calibration of this lamp are rated as specified in Table 1.

Table 1 Annual change rate of luminous intensity of lamps at each level

The annual change rate of the luminous intensity of the standard lamp level to be tested should be less than Sub Benchmark Work Benchmark 0.5% Work benchmark level 0.7% Level 1 and Level 1.2% the annual rate of change of the luminous intensity of a standard lamp is calculated by the following formula.