

ICS 29.140.20
CCS K 70



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

GB/T 19658-2013

Replacing GB/T 19658-2005

**Method of Measurement of Center Beam Intensity and Beam
Angle(s) of Reflector Lamps**

反射灯中心光强和光束角的测量方法

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Standardization Administration of China

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Foreword

This standard was drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This standard replaces GB/T 19658-2005 "reflector lamp center light intensity and beam angle measurement methods" and GB/T 19658-2005 phase Technology than the main changes are as follows.

--- Scope added LED light source reflector lamp (see Chapter 1).

--- Increased on the beam axis, the geometric/mechanical axis, and the center of the light intensity peak intensity relationship is illustrated (see Figure 2.1 1).

--- Increased about LED lighting test conditions described (see Chapter 4).

--- For the test step, an increase of irregular beam lamp description and examples of measurement points (see 6.3).

--- Increasing the intensity of the center is less than 50% of the peak intensity of the lights and test results are recorded instructions (see Chapter 7).

This standard uses the translation method is equivalent to using IEC/T R61341.2010 "reflector lamp center light intensity and beam angle measurement method." the standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee of electrical lighting (SAC/TC224) centralized.

This standard was drafted. National Electric Light Source Quality Supervision and Inspection Center (Beijing), Zhejiang Shenghui Lighting Co., Ltd., Hangzhou Opp Kitchen Branch Technology Co., Ltd., Hangzhou distance Photoelectric Information Co., Ltd., Hangzhou for Optoelectronic Technology Co., Limited Deqing County Metro Lighting Equipment the company, NVC Lighting Technology Co., Ltd., Beijing Institute of electric light.

Introduction

Light output characteristics of the lamp luminous flux is usually expressed, the reflected light, the light output characteristics with the center of the light intensity and beam angle.

This standard is intended to these two basic characteristics of the reflected light of the test and interpretation provides guidance so that the test data having Than sex.

The method used in this standard beam angle of the lamp by help categorize, but not for the assessment of individual lamps.

For additional cases, see CIE Technical Report No. 43 of the instructions on lamps for light photometric characteristics.

Center reflector lamp light intensity and beam angle measurement method

1 Scope

This standard specifies the definitions and methods of measurement of light intensity and corresponding center beam angle reflector lamp.

This standard applies to general lighting discharge lamps with incandescent, halogen, gas as well as LED reflector lamp as a light source, but not for special Special-purpose lamp, such as spot lights.

This standard test involves only the design of the lamp.

2 Terms and definitions

The following terms and definitions apply to this document.

Beam axis opticalbeamaxis Means the axis around which the light intensity distribution of a generally symmetrical state.

Note 1: The axis of the beam and not necessarily through the axis of the lamp cap of the lamp or perpendicular to the plane reflector is the same (e.g., edges) lamp axis, shown in Figure 1.

Note 2: Assuming visually determine the status of symmetry, the error is very small (negligible).

1 beam axis, and the geometrical/mechanical axis, and the center peak intensity of the relationship between light intensity 2.2 Peak intensity I_p the maximum luminous intensity, the maximum value is not necessarily on the beam axis.

Note: The peak intensity expressed in candelas.

Central light intensity centerbeamintensity I_c on the beam axis measured luminous intensity values.

Note: The center of the light intensity expressed in candelas.

Beam angle Two by the beam axis in the plane of the angle between imaginary straight line between the two lines respectively through a front lamp and a light emitting center Intensity of the central light intensity 50% of the points.