

ICS 29.140.40

CCS K 73



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

GB/Z 34447-2017

**Sharp edge testing apparatus and test procedure for lighting
equipment -- Tests for sharpness of edge**

Issued on: October 14, 2017

Implemented on: May 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

This Guidance Document is drafted in accordance with the rules given in GB/T 1.1-2009 and GB/T 20000.2-2009.

This Guidance Document uses the translation method equivalent to IEC TR62854.2014 "Sharp Edge Testing Equipment and Test Procedures for Lighting Equipment

Ordered sharp edge test. "

This Guidance Document is proposed by China National Light Industry Council.

The guidance of technical documents by the National Standardization Technical Committee Lighting Lighting Technical Committee (SAC/TC224/SC2)

Focused.

The drafting of the guidance of technical documents. Shanghai Times Lighting Appliance Co., Ltd. test, the National Lighting Quality Supervision and Inspection Center,

National Light Source Quality Supervision and Inspection Center (Shanghai).

1 Scope

This Guidance Document describes in detail a test device and test procedure for photographs that may be accessible to users or installers

Hazard sharp edge on equipment for risk assessment.

2 test equipment

Sharp edge tester --- Equipment mainly includes a handle with arm, a fixed to the handle, the stability of the arm to exert a constant force Zhang

Spring force. The arm is a piece of cylindrical steel located at the end of the adjustable arm, with an outer diameter of 12.7 mm and a length of 19 mm. Swing arm to be wrapped with

three test

Tape inspection, the outer two as a sensing zone, the inner as an indicator zone.
Alternatively, the above three test strips are wrapped around a maximum diameter of 15.9 mm

Remove the sleeve, while the sleeve is set on the diameter of 12.7mm steel head. See Figure 1 or Figure 2.

Indicator band (inner) --- 19.1mm wide, one side (back) with an adhesive coating, with the characteristics of Table 1 black vinyl foam tape.

Sensing tape No. 2 (middle layer) - white vinyl foam tape with 19.1 mm wide, double-sided adhesive coating and having the characteristics of Table 1.

No. 1 sensing tape (outer) --- 19.1mm wide, single-sided adhesive coating, with the characteristics of Table 1 natural color PTFE tape. thin

Tetrafluoroethylene backing (film) is a thin layer cut from the cylindrical block material.

Calibration equipment --- a can be applied (6.672 +/- 0.133) N weight (mass) and a line.

3 calibration

The sharp edge tester should be calibrated to have a force of (6.7 +/- 0.133) N applied to the center of the test head when the arm is between stops. Arm length adjustable

To complete the calibration. For special evaluation, the force can be adjusted to different values.

A typical calibration procedure for adjusting arm length during calibration is shown in Figure 3.

Loosen the adjustment screw that fixes the boom on the main drum.

When the handle is firmly held in the horizontal position, the calibration weight is hung in the center of the boom head.

Adjust the length of the inner boom of the main drum so that the boom that receives the weight of the loaded weight remains in a horizontal position.

Tighten the adjusting screw to lock the rotating arm firmly in the main drum.

Recheck the calibration and remove the weight.

4 test head preparation

The surface of the test head shall be coated with three layers of test tape in the following order.

- a) The first layer (inner layer) --- indicating tape, as shown in Table 1, black vinyl foam tape.
- b) Second layer (middle layer) --- No. 2 sensing tape, as shown in Table 1, white vinyl foam tape.
- c) Third layer (outer layer) --- No. 1 sensing tape, as shown in Table 1 tetrafluoroethylene tape.

In order to prevent the test strip is stretched, each test strip should be wrapped around the circumference of the test head about 180 °. When fixed to the test head, the test tape is not

To be stretched. See Figure 4.