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

GB 7793-2025

Replacing GB 7793-2010

**Hygienic standard for day lighting and artificial lighting for
middle and elementary school**

中小学校教室采光和照明卫生标准

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB 7793-2010 "Hygienic Standards for Daylighting and Illumination in Primary and Secondary School Classrooms". Compared with GB 7793-2010, except for the structure... Aside from adjustments and editorial changes, the main technical changes are as follows:

---The scope has been changed (see Chapter 1, Chapter 1 of the 2010 edition);

---Added "Classroom", "Secondary Vocational School", "Lighting Uniformity", "Writing Board", "Color Transmission Index", "Visible Light Transmission Ratio", and "Flicker". Terms and definitions for "index" and "flicker effect visibility" (see 3.1, 3.2, 3.4~3.9);

---The definitions of the terms "daylight factor" and "maintained average illuminance" have been changed (see 3.3, 3.10, and

3.8 in the 2010 edition);

---The following terms have been removed. "Window-to-floor area ratio", "Direct glare", "Reflectance ratio", "Illuminance uniformity", "Maintenance factor", "Reflected glare", "Color rendering index" and... The terminology and definitions of "Unified Glare Value" (see sections 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.9, and

3.10 of the 2010 edition);

---The requirements for lighting direction, daylight factor, window-to-floor area ratio, glare, and reflectivity of classroom surfaces have been changed (see 4.1, 4.2, 4.5, 4.6). 4.8 (4.1~

4.5 in the 2010 edition)

---Added requirements for uniform lighting and full window sunshine duration on the winter solstice (see 4.3, 4.4);

---Requirements for the color transmittance index and visible light transmittance of glass

have been added (see 4.7);

---Classroom lighting requirements have been revised (see 5.1.1, 5.1 in the 2010 version);

1 Scope

GB 7793-2025 is the Chinese national standard on hygienic standard for day lighting and artificial lighting for middle and elementary school, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2026. Classification: ICS 13.100, CCS C56. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2900.65 Electrical Engineering Terminology - Lighting

GB/T 5699 Methods for measuring daylight

GB/T 5700 Methods for measuring illumination

GB/T 5702 Evaluation Method for Color Rendering of Light Sources

GB/T 7000.1 Luminaires - Part

GB/T 7922 Method for measuring the color of lighting sources

GB 28231 Safety and Hygiene Requirements for Writing Boards

GB/T 36979 Measurement Method for Spatial Color Distribution of LED Products GB /Z 39942 applies

GB/T 20145 to evaluate the blue light hazards of light sources and luminaires.

GB 40070 Hygiene Requirements for Myopia Prevention in Children's and Adolescents'

School Supplies

GB/T 42064 Scintillation Characteristics Test Method for General Lighting Equipment

GB 43472 Safety requirements for luminaires and power rail systems for luminaires

GB 43473 Safety requirements for control devices and their components for lighting products GB /Z 45064 Objective Test Method for Flicker Effect of General Lighting Equipment

GB 50033 Standard for Daylighting Design of Buildings

GB/T 50034 Standard for Lighting Design of Buildings

GB 50099 Design Code for Primary and Secondary Schools

3 Terms and Definitions

The terms defined in GB/T 2900.65, GB/T 5699, GB 28231, GB 40070, GB 50033, and GB/T 50034, as well as the following terms and... The definition applies to this document.

3.1 classroom The room where teachers conduct teaching activities for students.

Note

1. Classrooms include regular classrooms, special classrooms, and public teaching rooms.

Note

2. Specialized classrooms include computer classrooms, laboratories, art classrooms, music classrooms, dance classrooms, etc. Note

3. Public teaching rooms include classrooms for combined classes, student activity rooms, psychological counseling rooms, lecture halls, multi-functional classrooms, etc.