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

**GB/T 13379-2023**

Replacing GB/T 13379-2008

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**Principles of visual ergonomics - The lighting of indoor work  
places**

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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/T 13379-2008 "Visual Ergonomics Principles for Indoor Workplace Lighting" and is consistent with GB/T 13379-2008.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

---Added terms such as visual ergonomics, visual efficacy, color tolerance, flicker, (light) flicker index, and stroboscopic effect visibility (see Section 3

chapter);

---Added illumination requirements for walls and ceilings (see 4.3);

---Added strobe requirements (see 4.8);

---Changed the illumination uniformity (see 4.3.9, 4.3.7 of the.2008 version);

--- Added regulations for the maximum surface brightness limit of protective cover lamps (see 4.4.3);

---Changed the regulations on the average brightness limit of visual display terminal lamps (see 4.10.2, 4.9.2 of the.2008 version);

--- Added provisions for visual fatigue (see 4.5);

--- Added requirements for the adjustment performance of the lighting system (see 4.11).

This document was drafted with reference to ISO 8995-1:2002 "Workplace Lighting Part 1: Indoor", and the degree of consistency is not equivalent.

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

## 1 Scope

This document specifies guideline requirements for the visual ergonomics of lighting in indoor workplaces.

This document applies to indoor workplaces such as residential buildings, public buildings and industrial buildings.

This document does not apply to low-light workplaces, such as projectors, slide shows, processing of photosensitive materials, and the use of auxiliary equipment to enlarge objects, etc.

place.

## 2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 5699 Daylight measurement method

GB/T 5700 Lighting measurement methods

GB 50033 Building lighting design standards

GB 50034 architectural lighting design standards

GB 55015 General specifications for building energy conservation and renewable energy utilization

GB 55016 General specifications for the built environment

GB 55037 General specifications for building fire protection

JGJ/T 119 Architectural lighting terminology standard

ISO 9241-302 Ergonomics of human-system interaction Part 302. Terminology for electronic visual displays (Ergonomics of human-

### 3 Terms and definitions

The following terms and definitions defined in GB/T 5699, GB/T 5700, GB 50034, JGJ/T 119, ISO 9241-302 apply to

this document.

#### 3.1

lightenvironmentluminousenvironment

The physical environment associated with the physiological and psychological effects produced by light.

#### 3.2

visual task visualtask

Perform visual elements in work assignments.

Note. Visual work is also reflected in the process of observing details and targets presented in front of the background during work and activities.

#### 3.3

visualergonomicsvisualergonomics

The science of studying whether the light environment in which people are located is suitable for people to obtain the best visual safety, visual efficacy and visual comfort.