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

GB/T 26189.2-2024

**Lighting of work places - Part 2: Lighting requirements for
safety and security of outdoor work places**

工作场所照明 第2部分：室外作业场所的安全保障照明要求

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 2 of GB/T 26189 "Lighting in the workplace". GB/T 26189 has been published in the following parts.

--- Part 2: Safety lighting requirements for outdoor workplaces.

This document is modified to adopt ISO/CIE8995-3:2018 "Workplace lighting - Part 3: Safety and security lighting for outdoor workplaces" Clear Requirements.

The technical differences between this document and ISO/CIE8995-3:2018 and their reasons are as follows.

--- Added the scope of application in Chapter 1 to adapt to my country's technical conditions;

--- In Chapter 3 "Terms and Definitions", GB/T 2900.65-2023 is used as a normative reference to replace CIES017 to adapt to my country's Technical conditions to increase operability;

--- Chapter 4 adds relevant provisions of the lighting application requirements of this document to adapt to my country's technical conditions and increase operability;

--- Chapter 5 adds glare level limits in accordance with the requirements of Table 1 to adapt to my country's technical conditions and increase operability;

--- In Appendix A, the normative reference GB/Z 26214 replaces CIE112 to adapt to my country's technical conditions and increase operability Acting nature.

The following editorial changes were made to this document.

--- The name of the standard is changed to "Workplace Lighting Part 2: Safety and security lighting requirements for outdoor workplaces";

--- The notes on Table 1 in Chapter 4 are moved into the table;

--- Added the title of Table 1.

Introduction

Good lighting can create a visual environment that enables people to observe objects, move around safely, and complete tasks effectively, accurately, and safely.

GB/T 26189 specifies the lighting requirements for different workplaces, including the following.

2 parts.

--- Part 1: Lighting for indoor workplaces. The purpose is to standardize the lighting requirements for indoor workplaces so that workers can Perform visual tasks comfortably, effectively and safely throughout the working day.

--- Part 2: Safety lighting requirements for outdoor workplaces. In some specific outdoor workplaces, workers must There are potential risks and safety hazards when working in outdoor areas, especially at night.

The basic lighting requirements required to ensure the safety of people in the venue.

Lighting of workplaces Part 2: Outdoor work Safety lighting requirements for places

1 Scope

This document specifies the basic lighting requirements and inspection procedures for outdoor workplaces to meet the visual needs of personnel for safety and security.

This document applies to the lighting design of newly built, renovated and expanded outdoor workplaces.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version

(including all amendments) applies to this document.

GB/T 2900.65-2023 Electrical terminology Lighting (IEC 60050-845:2020, IDT) GB/Z 26214
Glare evaluation for outdoor sports and area lighting (GB/Z 26214-2012, CIE112.1994, IDT)

3 Terms and definitions

The terms and definitions defined in GB/T 2900.65-2023 and the following apply to this document.

Specifies the value that the average illuminance on a surface is not allowed to fall below.

NOTE: The maintained average illuminance is the average illuminance at which maintenance is required on a specified surface.

[Source. GB/T 2900.65-2023,845-29-157] 3.2 Illuminance uniformity the ratio of the minimum illuminance to the average illuminance on a surface.

[Source. GB/T 2900.65-2023,845-29-160] 3.3 Glare level limit glare rating limit R_{GL} , L the maximum permissible value given by the CIE glare rating system.

[Source. GB/T 2900.65-2023,845-22-106] 3.4 Color rendering index the psychophysical color presented by the object illuminated by the measured illuminant is consistent with the psychophysical color presented by the same object illuminated by the reference illuminant
A measure of the degree to which appropriate chromatic adaptation is taken into account.

[Source. GB/T 2900.65-2023,845-22-109]