

SINGAPORE STANDARD

# **Code of practice for lighting of work places**

– Part 3 : Lighting requirements for safety and security of outdoor work places

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## SS 531 : Part 3 : 2008 (2014)

This Singapore Standard was approved by the Electrical and Electronic Standards Committee on behalf of the Standards Council of Singapore on 13 November 2008.

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## SS 531 : Part 3 : 2008 (2014)

### National Foreword

This Singapore Standard was prepared by the Technical Committee on Lamps and Related Equipment under the direction of the Electrical and Electronic Standards Committee.

This standard is an identical adoption of the first edition of ISO 8995-3 : 2006 – ‘Lighting of work places – Part 3: Lighting requirements for safety and security of outdoor work places’. This Singapore Standard, a three- part series, replaces SS CP 38 : 1999 – ‘Code of practice for artificial lighting in buildings’ and SS CP 87 : 2001 – ‘Code of practice for illumination in industrial premises’.

The ISO 8995-3 : 2006 also numbered CIE S 016/E : 2005 is a joint edition published by the International Organisation for Standardisation and the International Commission on Illumination.

Attention is drawn to the following:

1. The comma has been used throughout as a decimal marker in ISO 8995-3 whereas in Singapore Standards it is a practice to use a full-point on the baseline as the decimal marker.
2. The reference to ISO 3864-1 shall be replaced by SS 508-1.

This part is to be read in conjunction with SS 531-2.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

#### NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.*
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3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

# INTERNATIONAL STANDARD

**ISO**  
**8995-3**

**CIE S 016/E**

First edition  
2006-10-15

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## **Lighting of work places —**

Part 3:

### **Lighting requirements for safety and security of outdoor work places**

*Éclairage des lieux de travail —*

*Partie 3: Exigences requises de l'éclairage des lieux de travail  
extérieurs en matière de sûreté et de sécurité*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

ISO 26182 was prepared as Standard CIE S 016 by the International Commission on Illumination, which has been recognized by the ISO Council as an international standardizing body. It was adopted by ISO under a special procedure which requires approval by at least 75 % of the member bodies casting a vote, and is published as a joint ISO/CIE edition.

The International Commission on Illumination (abbreviated as CIE from its French title) is an organization devoted to international cooperation and exchange of information among its member countries on all matters relating to the science and art of lighting.

ISO 8995-3 was prepared by Division 5 of the CIE.

ISO 8995 consists of the following parts, under the general title *Lighting of work places*:

- *Part 1: Indoor*
- *Part 2: Outdoor*
- *Part 3: Lighting requirements for safety and security of outdoor work places*



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COMMISSION INTERNATIONALE DE L'ÉCLAIRAGE  
INTERNATIONAL COMMISSION ON ILLUMINATION  
INTERNATIONALE BELEUCHTUNGSKOMMISSION

Standard

**CIE S 016/E:2005**

# **Lighting of Outdoor Work Places - Lighting Requirements for Safety and Security**

Beleuchtung von Arbeitsplätzen im Freien — Anforderungen hinsichtlich Arbeitssicherheit und Anlagenschutz

Éclairage des lieux de travail extérieurs — Exigences requises de l'éclairage en matière de sûreté et de sécurité

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Descriptor: Lighting for outdoor work

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**FOREWORD**

Standards produced by the Commission Internationale de l'Eclairage (CIE) are a concise documentation of data defining aspects of light and lighting, for which international harmony requires such unique definition. CIE Standards are therefore a primary source of internationally accepted and agreed data, which can be taken, essentially unaltered, into universal standard systems.

This document CIE S 016/E:2005 has been prepared by CIE Division 5 and should be read in conjunction with CIE S 015/E:2005.

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## **LIGHTING OF OUTDOOR WORK PLACES - LIGHTING REQUIREMENTS FOR SAFETY AND SECURITY**

### **INTRODUCTION**

To enable people to perform visual tasks efficiently and accurately, especially during the night, adequate and appropriate lighting has to be provided.

The degree of visibility and comfort required in a wide range of outdoor work places is governed by the type and duration of activity.

### **1. SCOPE**

This standard specifies the lighting requirements which will contribute to the visual needs for safety and security within outdoor work places.

### **2. NORMATIVE REFERENCES**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CIE S 015/E:2005. *Lighting of outdoor work places.*

CIE 112-1994. *Glare evaluation system for use within outdoor sports- and area lighting.*