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CIE S 020/E

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Emergency lighting

Éclairage de secours

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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 30061 was prepared as Standard CIE S 020/E 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 30061 was prepared by CIE Technical Committee 5-19 *Emergency Lighting*.

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Standard

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

CIE S 020/E:2007

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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 CIE Standard has been prepared by CIE Technical Committee TC 5-19* "Emergency Lighting":

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EMERGENCY LIGHTING

1. INTRODUCTION

The primary objective of emergency lighting is the provision of visual conditions that can alleviate panic and facilitate safer evacuation of buildings' occupants during the failure of normal power supply/lighting, in clear (non-smoke) and smoke filled conditions.

The emergency lighting scheme design should be based on worst conditions (e.g. minimum light output, maximum glare limits) of the luminaires during operating life and should be based only on direct light from luminaires. The contributions by room surface inter-reflections should be ignored. However, in lighting systems such as indirect luminaires or uplights (used in maintained/combined mode), where the luminaire works in conjunction with a reflecting surface, the first reflection should be taken as direct light from the system and subsequent reflections should be ignored.

The requirements given in this standard are a minimum for design purposes and are calculated for the full rated duration period and end of design life of the equipment. A special chapter for smoke is included.

Safety signs may also fulfil further functions within maintained operation.

In most countries, states or towns statutory regulations relating to emergency lighting already exist. For this reason, the appropriate authority should always be consulted before commencing the design of a specific emergency lighting system. It is hoped that by providing an international standard, lighting technical requirements in local statutory regulations will converge on that standard.

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2. SCOPE

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This standard specifies the luminous requirements for emergency lighting systems installed in premises or locations where such systems are required. It is principally applicable to locations where the public or workers have access.

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3. 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 17.4-1987. *International lighting vocabulary (ILV)* (Joint publication IEC/CIE).

IEC 60598-2-22. *Luminaires – Part 2-22: Particular requirements - Luminaires for emergency lighting*.

ISO 3864-1. *Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs in workplaces and public areas*.

ISO 6309. *Fire protection – Safety signs*.

ISO 7010. *Graphical symbols – Safety signs used in workplaces and public areas*.

ISO 16069. *Graphical symbols – Safety signs – Safety way guidance systems (SWGS)*.