

BS 5266-1:2016 — **Tracked changes**

compares BS 5266-1:2016
with BS 5266-1:2011



BSI Standards Publication

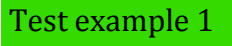


Emergency lighting

Part 1: Code of practice for the emergency lighting of premises

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IMPORTANT — PLEASE NOTE

This is a tracked changes copy and uses the following colour coding:

-  Test example 1 — indicates added text (in green)
- ~~Test example 2~~ — indicates removed text (in red)
-  — indicates added graphic figure or table
-  — indicates removed graphic figure or table

About tracked changes

This document is a combined PDF containing a “tracked changes” version of BS 5266-1, which compares BS 5266-1:2016 with BS 5266-1:2011.

The original version of BS 5266-1:2016, appended at the end of this document, should be considered the version of record for this publication.

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Amendments/corrigenda issued since publication

Date	Text affected
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Emergency lighting –

Part 1: Code of practice for the emergency **escape** lighting of premises

Version comparison

This version comparison compares where new and revised clauses are located between BS 5266-1:2016 and BS 5266-1:2011.

BS 5266-1:2016 to BS 5266-1:2011

BS 5266-1:2016		BS 5266-1:2011	
	Foreword		Foreword
	Introduction		Introduction
1	Scope	1	Scope
2	Normative references	2	Normative references
3	Terms and definitions	3	Terms and definitions
4	Consultation and records	4	Consultation and records
4.1	Consultation	4.1	Consultation
4.2	Supply of plans	4.2	Supply of plans
4.3	Records	4.3	Records
5	Illumination for emergency lighting conditions	5	Illumination for safe movement
5.1	General	5.1	Minimum illuminance and adaptation
5.2	Illumination for safe escape – Emergency escape lighting	5.2	Uniformity and diversity of illuminance
5.3	Illumination for safety in the building – Emergency safety lighting	5.3	Disability glare
5.4	Illumination for continued activity – Standby lighting	5.4	Safety signs
6	Emergency lighting design	6	Emergency escape lighting design
6.1	System integrity	6.1	System integrity
6.2	Failure of individual normal lamp	6.2	Failure of individual normal lamp

6.3	Failure of emergency lighting luminaire	6.3	Failure of emergency escape lighting luminaire
6.4	Mounting height of luminaires	6.4	Mounting height of luminaires
6.5	Spacing between luminaires	6.5 6.6 6.7	Spacing between luminaires Siting of emergency escape lighting luminaires Selection of appropriate emergency escape lighting luminaires
6.6	Classification of operation of emergency lighting systems	6.8	Classification of operation of emergency lighting systems
6.7	Choice of appropriate emergency lighting systems		NEW
7	Power supplies and equipment		NEW
7.1	Power supplies		NEW
7.2	Battery supplied systems	7	Batteries
7.3	Generators		NEW
7.4	Lamps and luminaires for emergency lighting		NEW
8	Wiring systems and circuits	8	Wiring systems and circuits
8.1	Wiring for self-contained systems	8.1	Wiring for self-contained systems
8.2	Wiring for central power supply systems	8.2	Wiring for central power supply systems
8.3	Wiring circuits	8.3	Circuits
8.4	Electromagnetic compatibility	8.4	Electromagnetic compatibility
9	Application of emergency escape and safety lighting for typical premises	9	Choice of appropriate emergency lighting systems
9.1	General	9.1	Duration
9.2	Premises used as sleeping accommodation	9.2 9.3	Type and classification of system Typical premises
9.3	Non-residential premises used for treatment or care		NEW
9.4	Non-residential premises used for recreation		NEW
9.5	Non-residential premises used for teaching, training and research, and offices		NEW
9.6	Non-residential public premises		NEW
9.7	Industrial premises used for manufacture, processing or storage of products		NEW
9.8	Multiple use of premises		NEW

9.9	Common access routes within blocks of flats or maisonettes		NEW
9.10	Covered car parks		NEW
9.11	Sports stadia		NEW
10	Emergency lighting design procedure	10	Emergency lighting design procedure
10.1	General	10.1	General
10.2	Determine requirements	10.2	Determine requirements
10.3	Design of illuminance	10.3	Design of illuminance
10.4	Design of system	10.4	Design of system
10.5	Design of circuit protection and controls	10.5	Design of circuit protection and controls
10.6	Installation, operating and commissioning instructions	10.6	Operation and maintenance following design and installation
10.7	Handover	10.7	Handover
11	Certificates and log book	11	Certificates and log book
12	Routine inspections and tests	12.3	Routine inspections and tests
13	Servicing and repair of emergency lighting systems	12	Servicing
13.1	Actions to be taken by the responsible person	12.1	Batteries
13.2	Action to be taken by the competent person to repair luminaires	12.2	Generators
13.3	Servicing of specialist components		NEW
13.4	Emergency lighting system service spares		NEW
Annex A (informative)	Summary of standards covering emergency lighting	Annex A (informative)	Summary of standards covering emergency lighting
Annex B (informative)	Developments in emergency lighting application and technology		NEW
Annex C (informative)	Guidance on the application of emergency lighting systems		NEW
Annex D (informative)	Measuring illuminance of emergency lighting	Annex B (informative)	Measuring illuminance of emergency lighting
Annex E (informative)	Typical illuminance for specific locations	Annex D (informative)	Illuminance for specific locations
Annex F (informative)	Emergency lighting classifications	Annex C (informative)	Emergency lighting classifications
Annex G (informative)	Guidance on illuminance measurements and calculations	Annex E (informative)	Guidance on illuminance measurements and calculations
Annex H (informative)	Model completion certificate	Annex F (informative)	Model completion certificate

Annex I (informative) Model certificate for completion of small new installations	Annex G (informative) Model certificate for completion of small new installations and verification of existing installations
Annex J (informative) Emergency lighting log book	NEW
Annex K (informative) Model certificate for verification of existing installations	Annex H (informative) Model periodic inspection and test certificate
Annex L (informative) Additional guidance on the compliance checklist and report for an	Annex I (informative) Additional guidance on the compliance checklist and report for an
Annex M (informative) Model periodic inspection and test certificate	NEW
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preview

National Foreword

Publishing and copyright information

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30 June 2012	Removed 'and verification of existing installations' from Figure F.1
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Summary of pages

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Foreword

Publishing information

This part of BS 5266 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 November 2011. 31 May 2016. It was prepared by Subcommittee CPL/34/9, Lamps and related equipment – EL/1/1, Emergency lighting, under the authority of Technical Committee CPL/34, Lamps EL/1, Light and related equipment lighting applications. A list of organizations represented on these committees can be obtained on request to their secretary.

Supersession

This part of BS 5266 supersedes BS 5266-1:2005 and BS 5266-10:2008 2011, which are withdrawn.

Relationship with other publications

This part of BS 5266 is intended for use in conjunction with BS EN 1838:1999 (BS 5266-7:1999) † and BS EN 50172:2004 (BS 5266-8:2004).

BS EN 50172:2004, 4.1 specifies compliance with the wiring rules given in HD 384/HD 60364. The UK applicable parts of HD 384/HD 60364 are implemented in the IET Wiring Regulations (BS 7671).

The other BS 5266 parts published in the following parts of this standard are:

- Part 1: Code of practice for the emergency lighting of premises;
- Part 2: Code of practice for electrical low mounted way guidance systems for emergency use;
- Part 4: Code of practice for design, installation, maintenance and use of optical fibre systems;
- Part 5: Specification for components parts of optical fibre systems;
- Part 6: Code of practice for non-electrical low mounted way guidance systems for emergency use – Photoluminescent systems;
- ~~Part 7: Lighting applications – emergency lighting (also numbered BS EN 1838);~~
- Part 8: Emergency escape lighting systems (also numbered BS EN 50172).

The following topics are covered in BS EN 50172 and BS EN 1838:

- general requirements for emergency escape lighting;
- escape route lighting;
- open area (anti-panic) lighting;
- high risk task area lighting;
- standby lighting.

Detailed guidance on fire risk assessments is given in PAS 79, in a series of guides published by the Department for Communities and Local Government [1–11], and in guidance published by the Justice Department of the Scottish Government [12–21].

Guidance on risk assessments for health and safety is given in HSE publication INDG 163 [22].

A summary of the hierarchy of standards covering the different aspects of emergency lighting systems is given in Annex A.

† BS EN 1838 is being revised at the time of publication of this part of BS 5266.

Information about this document

This is a full revision of the standard. ~~It has been updated to assist those engineers wishing to protect occupants from the hazards identified by risk assessments, and also to evaluate existing premises to decide if they need to be upgraded to meet current requirements.~~ The standard has also been expanded to give guidance to ~~protect occupants from a sudden loss~~ principal change introduced is an expansion of the normal scope to cover emergency safety lighting supply and standby lighting, as well as emergency escape lighting.

The aim of this standard is to promote wider understanding of the different types of emergency lighting system which may be employed, and to give guidance on their correct application to the varied requirements of different categories of premises.

The recommendations given in this standard have been drawn up to encourage uniformity of application, based on providing adequate safety for people in the event of interruption of the normal lighting, and having regard to the hazard level and degree of familiarity of occupants with particular premises.

The standard recognizes that, in addition to ensuring safe unobstructed means of escape from the premises at all times, an important function of emergency lighting is to make possible the immediate location and operation of fire alarm call points and fire-fighting equipment, and another to minimize the chance of panic arising in enclosed spaces, such as lifts. Although the standard makes recommendations for the provision of emergency lighting in a wide variety of premises, the fact that particular types of premises are mentioned in clause 9 does not necessarily mean that all such premises will be required by law to have emergency lighting installed. For certain types of premises the provisions of this standard might be supplemented or replaced by alternative requirements at the discretion of the enforcing authority.

Use of this document

As a code of practice, this part of BS 5266 takes the form of guidance and recommendation. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this part of BS 5266 is expected to be able to justify a course of action that deviates from its recommendations.

BSI permits the reproduction by individual users of BS 5266-1:2011 2016, Figures F.1, F.2, F.3, F.4, G.1, G.2, G.3, K.1, K.2, M.1, M.2 and H.1 M.3. This reproduction is only permitted where it is necessary for the user to use the sample certificates given in the figures during each application of the standard.

Presentational conventions

The provisions in this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is "should".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. "organization" rather than "organisation").

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Particular attention is drawn to legal requirements in respect of emergency lighting. Further guidance is given in the Building Regulations 2010, Approved Document B [23] and its equivalents in Wales [24], Scotland [25] and Northern Ireland [26].