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Interested committees:

Title: Draft BS EN 60598-2-10 Ed. 3.0 BS EN 60598-2-10 Luminaires. Part 2-10: Particular requirements - Portable luminaires for children.

Please notify admin.start@bsigroup.com if you are aware of any keywords that might assist in clarifying or identifying the standard or of the content of this standard:

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



34D/1775/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER: IEC 60598-2-10 ED3	
DATE OF CIRCULATION: 2025-03-28	CLOSING DATE FOR COMMENTS: 2025-06-20
SUPERSEDES DOCUMENTS: 34D/1711/RR	

IEC SC 34D : LUMINAIRES	
SECRETARIAT: United Kingdom	SECRETARY: Ms Shanti Conn
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Safety	

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Luminaires - Part 2-10: Particular requirements - Portable luminaires for children

NOTE FROM TC/SC OFFICERS:

Project Leader: David Ford

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Annex A

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES

**Part 2-10: Particular requirements –
Portable luminaires for children**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.
- International Standard IEC 60598-2-10 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This third edition cancels and replaces the second edition published in 2003. It constitutes a technical revision.

The text of this standard is based on the following documents:

FDIS	Report on voting
34D/xxx/FDIS	34D/xxxx/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-10 is to be used in conjunction with the latest edition of IEC 60598-1 and its amendment(s). It was established on the basis of the tenth edition (20XX) of that standard.

NOTE 1 When "Part 1" is mentioned in this document, it refers to IEC 60598-1.

69 Where this document states "*addition*", "*modification*" or "*replacement*", the relevant text of Part
70 1 is to be adapted accordingly.

71 Subclauses, notes, figures and tables additional to those in Part 1 are numbered starting from
72 101; supplementary annexes are entitled AAA, AAB, etc.

73

74 The committee has decided that the contents of this publication will remain unchanged until
75 .xxxx At this date, the publication will be

- 76 • reconfirmed;
- 77 • withdrawn;
- 78 • replaced by a revised edition, or
- 79 • amended.

80

81

82 The proposed changes include:

83

- 84 1) Introduction of SELV supply at 24V or lower. (removed use of mains voltage or higher
85 within luminaire to operate lamps such as compact fluorescent or filament lamps and
86 any associated control gear)
- 87 2) Removed use of Class II from the luminaire except for the power supply.
- 88 3) Addition of a definition for "attractive to children"
- 89 4) Addition of classification of suitability for children under 36 months.
- 90 5) Addition of requirements for; use of a tool for fixing battery covers, detachable power
91 supply, fans and prevention of strangulation.
- 92 6) Addition of requirements to not allow coin or button cell batteries.
- 93 7) Review of touch temperatures
- 94 8) Alignment with IEC 60598 Ed 10 and changes introduced there.
- 95 9) Cable detachment is required to diminish risk of strangulation.

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97

98

LUMINAIRES

Part 2-10 : Particular requirements – Portable luminaires for children

1 Scope

This clause of Part 1 is applicable with the following limitations. This part of IEC 60598 covers requirements for portable luminaires for children for use either indoors or outdoors. This document is intended to provide an enhanced safety luminaire for use in an unattended children's environment.

Note 1: Portable luminaires for children are designed to provide a level of safety in excess of that provided by a portable general purpose luminaire conforming with IEC 60598-2-4.

Note 2: A portable luminaire that can be advertised or intended to be attractive to children, appeal to children, used or operated by children, is considered to be a portable luminaire for children within the meaning of this document.

Note 3: Fixed or free standing luminaires which would normally fall within the scope of this standard, required by the manufacturer's instructions to be fixed to a wall or other surface but are still manifestly complete without fixing and can be detached and operated without fixing to the surface, are considered to be portable luminaires for children within the meaning of this document

Note 4. : If the portable luminaire also has features designed or intended for "play" by children, IEC 62115 "Electric toys-Safety" applies instead

Note 5: This document also cover non-rechargeable or rechargeable Battery powered luminaires.

This document is not applicable to the following:

- Luminaires typically placed as an extra ornamental element in temporary decorative configurations due to festivities or celebrations, such as outdoor luminaires to be mounted beyond arms reach.
- Low luminance (light output) background product integral with a plug, for example, an indicator part of a plug-in device where the primary function is not lighting
- Luminaires designed or clearly intended for adult use, or when it is clear from the manufacturer's instructions, marketing and packaging, it is not a portable luminaire for children and does not include features that promote a child's exploration, imagination, curiosity or encourages interest.
- Electric toys within the scope of IEC 62115
- Luminaires within the scope of IEC 60598-2-12
- Luminaires within the scope of IEC 60598-2-20 and IEC 60598-2-21

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.

IEC 60598-1 (Check whole doc/situation re dated references), Luminaires - Part 1: General requirements and tests

IEC 60598-2-4, Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires

IEC 60695-,

IEC 61032:1998, *Protection of persons and equipment by enclosures – Probes for verification*

- 146 IEC 61347-2-11, *Lamp controlgear - Part 2-11: Particular requirements for miscellaneous*
 147 *electronic circuits used with luminaires*
- 148 IEC 61347-2-13, *Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied*
 149 *electronic controlgear for LED modules*
- 150 IEC 61558-1:2005, *Safety of power transformers, power supplies, reactors and similar*
 151 *products – Part 1: General requirements and tests*
- 152 IEC 61558-2-6:2009, –Part 2-6: Particular requirements and tests for safety isolating
 153 transformers and power supply units incorporating safety isolating transformers
- 154 IEC 61558-2-7:2007, *Safety of power transformers, power supplies, reactors and similar*
 155 *products – Part 2-7: Particular requirements and tests for transformers and power supplies for*
 156 *toys*
- 157 IEC 61558-2-16:2009+AMD1:2013 Safety of transformers, reactors, power supply units and
 158 similar products for supply voltages up to 1 100 V – Part 2-16: Particular requirements and tests
 159 for switch mode power supply units and transformers for switch mode power supply units
- 160 IEC 62115-2017, *Electric toys – Safety*
- 161 IEC 62368-1:2014, *Audio/video, information and communication technology equipment - Part*
 162 *1: Safety requirements (is this still used)?*
- 163 IEC 62368-3: Audio/video, information and communication technology equipment - Part 3:
 164 Safety aspects for DC power transfer through communication cables and ports
 165 (TITLE)_ISO 8124-1:2014, *Safety of toys – Part 1: Safety aspects related to mechanical and*
 166 *physical properties*
- 167 IEC TR 62854:2014 *Sharp edge testing apparatus and test procedure for lighting equipment -*
 168 *Tests for sharpness of edge”.*
- 169 ISO 8124-2:2014, *Safety of toys – Part 2: Flammability*
- 170 ISO 8124-3:2010, *Safety of toys – Part 3: Migration of certain elements*

171

172

173 **3 Terms and Definitions**

174 For the purposes of this document, the terms and definitions given in Part 1 apply with the
 175 following additions:

176 ISO and IEC maintain terminology databases for use in standardization at the following
 177 addresses:

- 178 • IEC Electropedia: available at <http://www.electropedia.org/>
- 179 • ISO Online browsing platform: available at <http://www.iso.org/obp>

180

181 **3.101**

182 **portable luminaire for children**

183

184 Portable luminaire with features attractive to children, that is intended to be used by children,
 185 and in normal use, can be moved from one place to another while connected to the supply.

186

187 Note 1 to entry: Luminaires for children provided with instructions or similar to fix the luminaire are not excluded from
 188 IEC 60598-2-10-

189

3.102**child**

person aged under 14 years

Note 1 to entry: Ages may vary according to local legislation; some standards may use different age limits.

[SOURCE: ISO IEC Guide 50:2014, 3.2 modified - Note 2 to entry has been deleted]

3.103**removable component**

component which is intended to or can be removed from the luminaire without the use of a tool

3.104**attractive to children**

distinctive aspects of a luminaire's design that stimulate a child's exploration and interaction (e.g. grasping),

Note 1 to entry: Such features can include interactive characteristics similar to those of familiar toys (i.e., stuffed animals, model vehicles with moving parts, buildings, sports equipment, cartoon characters, playhouses, or a "busy box" with lights, sliding or rotating features, or manually actuated music, and similar features), that are attractive to children. Non-interactive features like decorative displays with pre-set patterns, pictures, or music can be entertaining, but do not necessarily invite interaction.

3.105**shade**

screen that is designed to prevent direct viewing of the electric light source

[SOURCE: IEC 60050-845 845-30-042 modified - Note 1 to entry has been deleted]"

Note to entry: A shade can be translucent, of light weight construction, plain or decorated with 2 or 3 dimensional images. A shade can be supplied with or separate to a luminaire.

4 General requirements

This clause of Part 1 is applicable with the following addition

4.101 Test sequence

The clauses according to this document shall be applied in the following order:

5 Classification of luminaires

6 Marking

7 Construction

13 Creepage distances and clearances

9 Provisions for earthing

16 Screw terminals

17 Screwless terminals and electrical connections

8 External and internal wiring

10 Protection against electric shock

14 Endurance tests and thermal tests

11 Resistance to dust, solid objects and moisture

12 Insulation resistance and electric strength, touch current and protective conductor current

15 Resistance to heat, fire and tracking

For luminaires with an IP classification greater than IP20 the tests of Clauses 14 and 11 of Part 1 shall be carried out in the following order:

14.3 Endurance test

11.2 General conditions and tests for IP classification

14.4 Thermal test (normal operation);

14.5 Thermal test (abnormal operation);

14.6 Thermal test (failed windings in controlgear);

14.7 Thermal test in regard to fault conditions in controlgear or electronic devices incorporated in thermoplastic luminaires