

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Luminaires Part 5: Particular requirements Section 8: Luminaires for emergency lighting

(First Revision)

(ICS 29.140. 40)

Illumination Engineering and Luminaries
Sectional Committee, ETD 49

Last date for comments-18/01/2025

NATIONAL FOREWORD

This draft Indian Standard (Part 5/Sec 8) (First Revision) which is identical with IEC 60598-2-22: 2021 'Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting' issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Illumination Engineering and Luminaries Sectional Committee and approval of the Electrotechnical Division Council.

This standard was originally published in year 2013 to align it with the IEC 60598-2-22: 1997+ Amd 1:2002. The First revision has been undertaken to align it with IEC 60598-2-22: 2021.

This standard covers the safety and performance requirements of luminaires for emergency lighting chains.

This standard (Part 5/Sec 8) is one among the series of Indian Standards which deals with luminaries. The others parts and sections are as follows:

Part 1	General requirements
Part 5	Particular requirements
(Section 1)	Particular requirements, Sec 1 General purpose luminaires
(Section 2)	Recessed luminaires
(Section 3)	Luminaires for road and street lighting
(Section 4)	Portable general purpose luminaires
(Section 5)	Flood lights
(Section 6)	Handlamps
(Section 7)	Lighting chains

This standard is to be read in conjunction with IS 10322 (Part 1) 'Luminaires: Part 1 General requirements'. For the sake of convenience, the clauses of this standard correspond to those of IS

10322 (Part 1), instead of reproducing full text of each clause; reference to relevant clauses of IS 10322 (Part 1) has been given.

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60073, Basic and safety principles for man-machine interface, marking and identification – Coding principles for indicators and actuators	IS/IEC 60073 : 2002 Basic and safety principles for man-machine interface marking and identification - Coding principles for indicators and actuators	Identical
IEC 60155, Glow-starters for fluorescent lamps	IS 2215 : 2006 Starters for fluorescent lamps (<i>third revision</i>)	Modified/Technically Equivalent
IEC 60598-1, Luminaires – Part 1: General requirements and tests	ETD/49/25743 Luminaires: Part 1 general requirements and tests (second revision) (IEC 60958-1: 2024, Mod)	Modified
IEC 60896-21, Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test	IS 16220 (Part 1) : 2015/ IEC 61056-1: 2012 General purpose lead - Acid batteries (Valve - Regulated Types): Part 1 general requirements, functional characteristics - Methods of test	Identical with IEC 61056-1: 2012
IEC 61032:1997, Protection of persons and equipment by enclosures – Probes for verification	IS 1401 : 2008 Protection of persons and equipment by enclosures - Probes for verification (Second Revision)	Modified/Technically Equivalent
IEC 61056-1, General purpose lead-acid batteries (valve-regulated types) – Part 1: General requirements, functional characteristics – Methods of test	IS 16220 (Part 1) : 2015/ IEC 61056-1: 2012 General purpose lead - Acid batteries (Valve - Regulated Types): Part 1 general requirements, functional characteristics - Methods of test	Identical
IEC TR 61341, Method of	IS/IEC/TR 61341 : 2010 Method of	Identical

measurement of centre beam intensity and beam angle(s) of reflector lamps	Measurement of Centre Beam Intensity and Beam Angle(S) of Reflector Lamps	
IEC 61347-2-3:2011, Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	IS 15885 (Part 2/Sec 3) : 2011 Safety of lamp control gear: Part 2 particular requirements: Sec 3 ac supplied electronic ballasts for fluorescent lamps	Modified/Technically Equivalent
IEC 61347-2-13, Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	IS 15885 (Part 2/Sec 13) : 2012 Safety of lamp controlgear: Part 2 particular requirements: Sec 13 d.c. or a.c. supplied electronic controlgear for led modules	Modified/Technically Equivalent
IEC 61951-1, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications – Part 1: Nickel-Cadmium	IS 16048 (Part 1) : 2021/ IEC 61951-1 : 2017 Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes — Secondary Sealed Cells and Batteries for Portable Applications Part 1 Nickel-cadmium (<i>first revision</i>)	Identical
IEC 61951-2, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications – Part 2: Nickel-metal hydride	IS 16048 (Part 2) : 2021/ IEC 61951-2 : 2017 Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Secondary Sealed Cells and Batteries for Portable Applications Part 2 Nickel-metal Hydride (<i>first revision</i>)	Identical
IEC 62133-2:2017, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems	IS 16046 (Part 2) : 2018/ IEC 62133-2 : 2017 Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells and for Batteries Made from Them for Use in Portable Applications Part 2 Lithium Systems (<i>second revision</i>)	Identical
IEC 62620:2014, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	IS 16822 : 2019/ IEC 62620 : 2014 Secondary cells and batteries containing alkaline or other non - Acid electrolytes - Secondary lithium cells and batteries for use in industrial applications	Identical
ISO 3864-4:2011, Graphical symbols – Safety colours and	IS 16449 (Part 4) : 2017/ ISO 3864-4 : 2011 Graphical symbols - Safety	Identical

safety signs – Part 4: Colorimetric and photometric properties of safety sign materials	colours and safety signs: Part 4 colorimetric and photometric properties of safety sign materials	
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The technical committee has reviewed the provision of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
IEC 61347-2-2	Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps
IEC 61347-2-7:2011	Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) IEC 61347-2-7:2011/AMD1:2017 IEC 61347-2-7:2011/AMD2:2021
IEC 61347-2-12	Lamp controlgear – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)
IEC 62034	Automatic test systems for battery powered emergency escape lighting
IEC 62391-1:2015	Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification
IEC 62391-2:2006	Fixed electric double-layer capacitors for use in electronic equipment – Part 2: Sectional specification – Electric double-layer capacitors for power application
ISO 30061:2007	Emergency lighting
CIE 121 SP1	The Photometry and Goniophotometry of Luminaires – Supplement 1: Luminaires for Emergency Lighting
CIE S025	Test Method for LED Lamps, LED Luminaires and LED Modules

Only English language text has been retained while adopting it in this Indian Standard, and as such the page numbers given here are not the same as in the International Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of their document has not been enclosed as there are identical with the corresponding IEC standards for details, please refer the corresponding IEC 60598-2-22: 2021 or kindly contact:

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