

प्रदीपक
भाग 5 विवरणात्मक अपेक्षाएँ
अनुभाग 1 स्थिर सामान्य प्रयोजको के प्रदीपक
(दूसरा पुनरीक्षण)

Luminaires
Part 5 Particular Requirements
Section 1 Fixed General Purpose Luminaires
(Second Revision)

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NATIONAL FOREWORD

This Indian Standard (Part 5/Sec 1) (Second Revision) which is identical to IEC 60598-2-1 : 2020 'Luminaires — Part 2-1: Particular requirements — Fixed general purpose luminaires' issued by the International Electrotechnical Commission (IEC) was adopted by the Bureau of Indian Standards on the recommendation of the Illumination Engineering and Luminaires Sectional Committee and approval of the Electrotechnical Division Council.

This standard covers the safety and photometric requirements of fixed general purpose luminaires.

This standard was first published in year 1985 and subsequently revised in year 2012 to align it with the IEC 60598-2-1 : 1979. This revision has been brought out to align it with IEC 60598-2-1 : 2020.

This revision includes the following significant technical changes with respect to the previous version:

- a) The scope has been modified to be in line with IS 10322 (Part 1) to include all electric light sources; and
- b) References to IS 10322 (Part 1) have been updated.

This standard is one among the series of Indian Standards which deals with luminaires. This series consists of the following parts and sections:

Part 1	General requirements
Part 5	Particular requirements,
Sec 2	Recessed luminaires
Sec 3	Luminaires for road and street lighting
Sec 4	Portable general purpose luminaires
Sec 5	Floodlights
Sec 6	Handlamps
Sec 7	Lighting chains
Sec 8	Luminaires for emergency lighting
Sec 18	Luminaires for swimming pools and similar applications

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'; and
- 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.

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Indian Standard
LUMINAIRES
PART 5 PARTICULAR REQUIREMENTS
SECTION 1 FIXED GENERAL PURPOSE LUMINAIRES
(*Second Revision*)

1.1 Scope

This part of IEC 60598 specifies requirements for fixed general purpose luminaires for use with electric light sources on supply voltages not exceeding 1 000 V.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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, *Luminaires – Part 1: General requirements and tests*

1.3 Terms and definitions

For the purposes of this document, the terms and definitions given in Part 1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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

1.4 General test requirements

The provisions of Section 0 of Part 1 apply. The tests described in each appropriate section of Part 1 shall be carried out in the order listed in this document.

1.5 Classification of luminaires

Luminaires shall be classified in accordance with the provisions of Section 2 of Part 1.

1.6 Marking

The provisions of Section 3 of Part 1 apply.

1.7 Construction

The provisions of Section 4 of Part 1 apply.

1.8 Creepage distances and clearances

The provisions of Section 11 of Part 1 apply.

1.9 Provision for earthing

The provisions of Section 7 of Part 1 apply.

1.10 Terminals

The provisions of Sections 14 and 15 of Part 1 apply.

1.11 External and internal wiring

The provisions of Section 5 of Part 1 apply.

1.12 Protection against electric shock

The provisions of Section 8 of Part 1 apply.

1.13 Endurance tests and thermal tests

The provisions of Section 12 of Part 1 apply.

Luminaires with an IP classification greater than IP20 shall be subjected to the relevant tests of 12.4, 12.5, 12.6 and 12.7 of Section 12 of Part 1 after the test(s) of 9.2 but before the test(s) of 9.3 of Section 9 of Part 1 as specified in Clause 1.14 of this document.

1.14 Resistance to dust, solid objects and moisture

The provisions of Section 9 of Part 1 apply.

For luminaires with an IP classification greater than IP20, the order of the tests specified in Section 9 of Part 1 shall be as specified in Clause 1.13 of this document.

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

The provisions of Section 10 of Part 1 apply.

1.16 Resistance to heat, fire and tracking

The provisions of Section 13 of Part 1 apply.

Annex A
(informative)

**Schedule of amended subclauses containing more serious/critical
requirements which require products to be retested**

No requirements of this document are considered more onerous compared with the previous edition.

(Continued from second cover)

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 60598-1 Luminaires — Part 1: General requirements and tests	IS 10322 (Part 1) : 2026 Luminaires: Part 1 General requirements and tests (<i>second revision</i>) (IEC 60598-1 : 2024, MOD)	Modified

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.

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Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the website- www.bis.gov.in or www.standardsbis.in.

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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