

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

LED Modules for General Lighting Part 1 Safety Specifications

(First Revision)

(ICS 29.140.99; 31.080.99)

Lamps and Related Equipments
Sectional Committee, ETD 23

Last date for comments- 17/01/2025

NATIONAL FOREWORD

This draft Indian Standard (Part 1) (First Revision) which is identical with IEC 62031: 2018 ‘LED modules for general lighting - Safety specifications’ issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Lamps and Related Equipments Sectional Committee and approval of the Electrotechnical Division Council.

This standard, originally published in 2012, was based on IEC 62031:2008. The first revision has been undertaken to align it with IEC 62031: 2018.

This standard specifies the general and safety requirements for LED modules for general lighting services.

This standard is published in two parts. The other part in the series is:

Part 2 Performance requirements

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 60598-1:2014, Luminaires – Part 1: General requirements and tests IEC 60598-1:2014/AMD1:2017	ETD/49/25743 / IEC 60598-1:2024 Luminaires Part 1 General Requirements and Tests (<i>second revision</i>)	Identical
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 (<i>second revision</i>)	Modified/Technically Equivalent
IEC 61347-1: 2015 Lamp controlgear – Part 1: General and safety requirements	IS 15885 (Part 1) : 2011 Safety of Lamp controlgear: Part 1 general requirements	Indigenous
IEC 62471:2006, Photobiological safety of Lamps and Lamp systems	IS 16108 : 2012/ IEC 62471 :2006 Photobiological safety of Lamps and Lamp systems	Identical
IEC 62504, General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions	IS 16101 : 2012/ IEC/TS 62504 :2011 General lighting - LEDs and LED modules - Terms and definitions	Identical
IEC TR 62778:2014, Application of IEC 62471 for the assessment of blue light hazard to light sources and Luminaires	IS 16661 : 2019/ IEC/TR 62778 : 2014 Application of IS 16108/IEC 62471 for the assessment of blue light hazard to light sources and luminaires	Identical
ISO 4046-4:2016, Paper, board, pulp and related terms – Vocabulary – Part 4: Paper and board grades and converted products	IS 4661 (Part 4) : 2022/ ISO 4046-4: 2016 Paper, board, pulp and related terms – Vocabulary – Part 4: Paper and board grades and converted products	Identical

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>
ISO 7089:2000	Plain washers – Normal series – Product grade A

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 62031: 2018 or kindly contact:

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