

**BUREAU OF INDIAN STANDARDS**  
**DRAFT FOR COMMENTS ONLY**

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*Draft Indian Standard*

**LED Modules for General Lighting Part 2 Performance Requirements**

*(First Revision)*

(ICS 29.140.99)

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Lamps and Related Equipments  
Sectional Committee, ETD 23

Last date for comments- 17/01/2025

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NATIONAL FOREWORD

This draft Indian Standard (Part 2) (First Revision) which is identical with IEC 62717: 2019 CSV 'LED modules for general lighting - Performance requirements' 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 62717: 2011. The first revision has been undertaken to align it with IEC 62717: 2019 CSV.

This standard specifies the performance requirements for LED modules for general lighting services. The other part in the series is:

Part 1 Safety 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 60068-2-14, Environmental testing – Part 2-14: Tests – Test N: Change of temperature	IS/IEC 60068-2-14 : 2023 Environmental Testing Part 2 Tests Section 14 Test N: Change of Temperature ( <i>first revision</i> )	Identical
IEC 61000-3-2: 2005, Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) IEC 61000-3-2:2005/AMD 1:2008 IEC 61000-3-2:2005/AMD 2:2009	IS 14700 (Part 3/Sec 2) : 2020/ IEC 61000-3-2 : 2018 Electromagnetic Compatibility (EMC) Part 3 Limits Section 2 Limits for harmonic current emissions ( equipment input current 16 A per phase ) ( <i>third revision</i> )	Identical
IEC 61000-4-7, Electromagnetic compatibility (EMC) – Part 4-7: Testing and measurement techniques – General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	IS 14700 (Part 4/Sec 7) : 2017/ IEC 61000-4-7 : 2009 Electromagnetic compatibility (EMC): Part 4 testing and measurement techniques: Sec 7 general guide on harmonic and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto ( <i>first revision</i> )	Identical
IEC TR 61341, Method of measurement of centre beam intensity and beam angle(s) of reflector Lamps	IS/IEC/TR 61341 : 2010 Method of Measurement of Centre Beam Intensity and Beam Angle(S) of Reflector Lamps	Identical
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 62031:2008, LED modules for general lighting – Safety specifications	IS 16103 (Part 1) : 2012 LED modules for general lighting: Part 1 safety requirements	Modified/Technically Equivalent
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

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 60050-845: 1987	International Electrotechnical Vocabulary – Chapter 845: Lighting
IEC 60068-3-5:2001	Environmental testing – Part 3-5: Supporting documentation

	and guidance – Confirmation of the performance of temperature chambers
IEC 60081 IEC 62717:2014+AMD1: 2015 +AMD2:2019 CSV	Double-capped fluorescent Lamps – Performance specifications
CIE 13.3:1995	Method of measuring and specifying colour rendering properties of light sources
CIE 177:2007	Colour rendering of white LED light sources
CIE S 025/E:2015	Test Method for LED Lamps, LED Luminaires and LED Modules
ANSI/IES LM-80-15	Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and 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 62717: 2019 CSV or kindly contact:

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