

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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मसौदा भारतीय मानक
प्रकाश संवेदनशील उपकरणों का मापन
भाग 3: दृश्य स्पेक्ट्रम में उपयोग के लिए फोटोकंडक्टिव
कोशिकाओं की मापन विधियाँ
(पहला परिशोधन)

Draft Indian Standard

*Measurement of Photosensitive Devices –
Part 3: Methods of Measurement of Photoconductive
Cells for use in the Visible Spectrum
(First Revision)*

ICS.No. 31.260

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NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 3) (First Revision) which is identical with IEC 60306-3:1970 'Measurement of photosensitive devices - Part 3: Methods of measurement of photoconductive cells for use in the visible spectrum' issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendation of Electronic Display Devices and Systems Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was originally published in 1975 and assistance has been derived from the IEC Pub 306-3: 1970. The first revision aligns this Indian Standard with existing version of IEC 60306-3:1970, there is a need to align the formatting and appearance of the standard as per the current practice.

The following changes has been required in the standards under this revision:

- a) Adding Front cover page.
- b) Addition of Hindi Title.
- c) National foreword to be written as current practice.
- d) UDC Number to be changed to ICS code.

This standard (Part 3) is one of the parts of a series of standards on 'Measurement of Photosensitive Devices'. The other parts in this series are:

Part 1: Basic Recommendations

Part 2: Methods of measurement of phototubes

Part 4: Methods of measurement for photo-multipliers

The text of IEC Standard *may be* 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 certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International standards	Corresponding Indian standards	Degree of Equivalence
IEC 60050-531: 1974 International Electrotechnical Vocabulary (IEV) - Part 531: Electronic tubes	IS 18123: 2023 Electro technical Vocabulary: Electronic tubes	Identical
IEC 60306-1:1969 Measurement of photosensitive devices - Part 1: Basic recommendations	IS 7146 (Part 1) Measurement of photosensitive devices - Part 1: Basic recommendations (Under Development)	Identical

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 or analysis, 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 same as that of the specified value in this standard.

SCOPE OF IEC 60306-3:1970

“IEC 60306-3:1970 outlines the requirements and specifications for the design and performance of high-voltage electrical equipment, particularly focusing on the insulation coordination for such equipment. This standard is intended to ensure the reliable operation and safety of electrical systems by establishing guidelines for the selection and application of insulation materials, as well as the coordination of insulation levels to protect against electrical stresses. It provides criteria for insulation strength, dielectric properties, and the interaction of different insulation components within electrical installations. This standard applies to equipment operating at voltages above 1 kV and serves as a reference for manufacturers, engineers, and technicians involved in the design, testing, and maintenance of high-voltage electrical systems.”

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details, please refer to IEC 60306-3:1970 or kindly contact.

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