

BUREAU OF INDIAN STANDARDS

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Doc No.: PGD 39 (24220)
IS XXXX (Part 3) : XXXX
ISO 14880-3 : 2006
November 2023

भारतीय मानक मसौदा

प्रकाशिकी और फोटोनिक्स – सूक्ष्म लेंस सरणियाँ

भाग 3 वेव फ्रंट विरूपण के अलावा अन्य ऑप्टिकल गुणधर्मों की परीक्षण पद्धतियाँ

Draft Indian Standard

Optics and Photonics — Microlens Arrays

Part 3 Test Methods for Optical Properties other than Wavefront Aberrations

ICS 31.260

Optics and Photonics Sectional Committee PGD 39

NATIONAL FOREWORD

This draft Indian Standard which is identical with ISO 14880-3 : 2006 ‘Optics and Photonics — Microlens Arrays — Part 3: Test Methods for Optical Properties other than Wavefront Aberrations’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Optics and Photonics Sectional Committee and approval of the Production and General Engineering Division Council.

This standard specifies methods of testing optical properties, other than wavefront aberrations, of microlens arrays. Examples of applications for microlens arrays include three-dimensional displays, coupling optics associated with arrayed light sources and photo-detectors, enhanced optics for liquid crystal displays, and optical parallel processor elements. Considering the importance of microlens and microlens arrays the Optics and Photonics Sectional Committee decided to adopt the ISO 14880-1 as an Indian Standard. This standard is published in 5 parts, the other parts in this series are:

Part 1	Vocabulary
Part 2	Test methods for wave front aberrations
Part 4	Test methods for geometrical properties
Part 5	Guidance on testing

The text of ISO 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

- Wherever the words ‘International Standard’ appear 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:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 10110-5 Optics and photonics — Preparation of drawings for optical elements and systems — Part 5: Surface form tolerances	IS 5920-2 : XXXX/ISO 10110-5 Optics and photonics — Preparation of drawings for optical elements and systems Part 2 Surface form tolerances	Identical
ISO 14880-1 Optics and photonics — Microlens arrays — Part 1: Vocabulary	IS XXXX (Part 1) : XXXX/ ISO 14880 - 1 : 2019 Optics and Photonics — Microlens arrays Part 1 Vocabulary	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*).’

NOTE: The technical content of draft standard is not available on website. For details, please refer to ISO 14880-3 : 2006 or contact:

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