

ISO 14880-3:2024-11 (E)

Optics and photonics - Microlens arrays - Part 3: Test methods for optical properties other than wavefront aberrations

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Substrate test	1
5	Microscope test method	1
5.1	Principle	1
5.2	Measurement arrangement and test equipment	2
5.2.1	General	2
5.2.2	Test system	3
6	Procedure	4
6.1	General	4
6.2	Measurement of effective back or front focal length	4
6.3	Measurement of chromatic aberration	4
6.4	Measurement of the uniformity of the focal spot positions	5
7	Results and uncertainties	5
8	Coupling efficiency, imaging quality	6
9	Test report	6
Annex A (informative) Measurements with wavefront measuring systems		8
Annex B (informative) Confocal measurement of effective back or front focal length of lens array ...		10
Annex C (informative) Coupling efficiency, imaging quality		12
Annex D (informative) Measurement of the uniformity of the focal spot positions of a microlens array		13
Bibliography		14