DIN ISO 14490-5:2018-05 (E)

Optics and photonics - Test methods for telescopic systems - Part 5: Test methods for transmittance (ISO 14490-5:2017)

Contents

Page

National foreword ... **3**

National Annex NA (informative) **Bibliography** ... **4**

Foreword ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Principle ... **6**

5 Test arrangement ... **7**
5.1 General ... 7
5.2 Source of radiation and condenser ... 8
5.3 Monochromator or set of filters ... 8
5.4 Collimator ... 8
5.5 Aperture stop ... 8
5.6 Specimen mounting ... 8
5.7 Veiling glare stop ... 9
5.8 Integrating sphere ... 9
5.9 Radiation detector ... 9

6 Procedure ... **9**
6.1 Preparation of the test assembly ... 9
6.2 Determination of the measurement values ... 9
6.3 Further test methods ... 10

7 Precision of the measurement ... **10**

8 Presentation of the results ... **10**

9 Analysis ... **10**
9.1 Effective transmittance for photopic vision ... 10
9.2 Effective transmittance for scotopic vision ... 11

10 Test report ... **11**

Annex A (informative) **Calibration procedure for the photoreceiver/measuring instrument** ... **12**

Annex B (informative) **Trichromatic coefficients and colour contribution index** ... **15**

Bibliography ... **19**