ISO 14490-5:2005-10 (E)

Optics and optical instruments - Test methods for telescopic systems - Part 5: Test methods for transmittance

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 1

5 Test arrangement 2
5.1 General 2
5.2 Source of radiation and condenser 2
5.3 Monochromator or set of filters 2
5.4 Collimator 3
5.5 Aperture stop 3
5.6 Specimen mounting 3
5.7 Veiling glare stop 3
5.8 Integrating sphere 3
5.9 Radiation detector 3

6 Procedure 3
6.1 Preparation of the test assembly 3
6.2 Determination of the measurement values 4
6.3 Further test methods 4

7 Precision of the measurement 4

8 Presentation of the results 4

9 Analysis 4
9.1 Effective transmittance for photopic vision 4
9.2 Effective transmittance for scotopic vision 5

10 Test report 5

Annex A (informative) Calibration procedure for the photoreceiver/measuring instrument 6

Annex B (informative) Trichromatic coefficients and colour contribution index 9

Bibliography 12