

# ISO 14490-5:2005-10 (E)

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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Principle .....</b>	<b>1</b>
<b>5</b>	<b>Test arrangement .....</b>	<b>2</b>
<b>5.1</b>	<b>General .....</b>	<b>2</b>
<b>5.2</b>	<b>Source of radiation and condenser .....</b>	<b>2</b>
<b>5.3</b>	<b>Monochromator or set of filters .....</b>	<b>2</b>
<b>5.4</b>	<b>Collimator .....</b>	<b>3</b>
<b>5.5</b>	<b>Aperture stop .....</b>	<b>3</b>
<b>5.6</b>	<b>Specimen mounting .....</b>	<b>3</b>
<b>5.7</b>	<b>Veiling glare stop .....</b>	<b>3</b>
<b>5.8</b>	<b>Integrating sphere .....</b>	<b>3</b>
<b>5.9</b>	<b>Radiation detector .....</b>	<b>3</b>
<b>6</b>	<b>Procedure .....</b>	<b>3</b>
<b>6.1</b>	<b>Preparation of the test assembly .....</b>	<b>3</b>
<b>6.2</b>	<b>Determination of the measurement values .....</b>	<b>4</b>
<b>6.3</b>	<b>Further test methods .....</b>	<b>4</b>
<b>7</b>	<b>Precision of the measurement .....</b>	<b>4</b>
<b>8</b>	<b>Presentation of the results .....</b>	<b>4</b>
<b>9</b>	<b>Analysis .....</b>	<b>4</b>
<b>9.1</b>	<b>Effective transmittance for photopic vision .....</b>	<b>4</b>
<b>9.2</b>	<b>Effective transmittance for scotopic vision .....</b>	<b>5</b>
<b>10</b>	<b>Test report .....</b>	<b>5</b>
<b>Annex A (informative) Calibration procedure for the photoreceiver/measuring instrument .....</b>		<b>6</b>
<b>Annex B (informative) Trichromatic coefficients and colour contribution index .....</b>		<b>9</b>
<b>Bibliography .....</b>		<b>12</b>