

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-15044-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 10.05.2019

Date of issue: 10.05.2019

Holder of certificate:

**Atlas Material Testing Technology GmbH
Optisches Labor Atlas Linsengericht
Vogelsbergstraße 22, 63589 Linsengericht-Altenhaßlau**

Calibration in the fields:

High Frequency & Radiation quantities

Optical quantities

- Radiometry
- Photometry

Thermodynamic quantities

Temperature quantities

- Radiation thermometers

Abbreviations used: see last page

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Radiometry Irradiance XenoCal/XENOSENSIV	110 W/m ² to 1300 W/m ²	Wavelength 300nm-800nm	5.8 %	restricted to Xenon radiation at the Atlas calibration facility
	12 W/m ² to 150 W/m ²	Wavelength 300nm-400nm	6.2 %	
	0,10 W/m ² to 1,4 W/m ²	Wavelength 340nm	7.0 %	
	0,3 W/m ² to 3,5 W/m ²	Wavelength 420nm	5.8 %	
Photometry Illuminance XenoCal/XENOSENSIV	20 klx to 250 klx		3.0 %	
Radiation thermometers XenoCal/XENOSENSIV	20°C to 120°C	DIN EN ISO 4892-01:2016 ASTM G179:2004	0.7 K	

Abbreviations used:

BST	Black Standard Temperature, according to DIN EN ISO 4892-1
WST	White Standard Temperature, according to DIN EN ISO 4892-1
BPT	Black Panel Temperature, according to ASTM G179-04
WPT	White Panel Temperature, according to ASTM G179-04
ASTM	ASTM American Standard for Testing and Materials
CMC	Calibration and measurement capabilities

¹⁾ The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.