SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ATLAS MATERIAL TESTING TECHNOLOGY LLC
1500 Bishop Court
Mount Prospect, IL 60056
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CALIBRATION

Valid To: *SEE FOOTNOTE 11* Certificate Number: 2101.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following tests listed below[1, 8]:

I. Optical Radiation

Parameter/Equipment	Range	CMC[2, 7] (±)	Comments[6]	Location[11]
Control Parameters in Weathering Instruments[3, 4] –				
Temperature	(0 to 85) °C	0.8 °C	Reference thermometer	WIN
Relative Humidity	(5 to 90) % RH	4.0 % RH	Vaisala humidity meter	
AC Power[5]	Up to 6 kW (6 to 12) kW	0.4 % 3.0 %	Hioki PW3335 power meter	
Pressure	Up to 20 psig	0.6 psig	Omega DPG1000B-100G digital pressure gauge	

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Parameter/Equipment	Range	CMC[2, 7] (±)	Comments[6]	Location[11]
Illuminance[3, 4] (With Xenocal) –				
SUNTEST Instruments (380 to 780) nm	Up to 240 klx	4.9 %	Daylight, SolarStandard, WG, StoreLight, ID65	WIN
Xenotest Instruments (380 to 780) nm	Up to 240 klx	7.5 %	XC270, XC300, B04	
		10 %	XC320, XC320HLF, 7IR, 16H, 4IR3WG, 6IR1UV, GMW3414	
		4.5 %	10WG, TM16, DL Ext. IR	
Irradiance[3, 4] (With Xenocal) –				
SUNTEST Instruments:				
340 nm – Spectral	Up to 1.4 $W \cdot m^{-2} \cdot nm^{-1}$	7.9 %	Daylight, SolarStandard, WG, StoreLight	WIN
420 nm – Spectral	Up to 3.5 $W \cdot m^{-2} \cdot nm^{-1}$	6.8 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	9.7 %		
(300 to 800) nm	Up to 1300 $W \cdot m^{-2}$	7.1 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	14 %	ID65	
(300 to 800) nm	Up to 1300 $W \cdot m^{-2}$	7.1 %		
Xenotest Instruments:				
340 nm – Spectral	Up to 1.4 $W \cdot m^{-2} \cdot nm^{-1}$	7.9 %	XC270, XC300, XC320, XC320HLF, 7IR, 16H 4IR3WG, 6IR1UV, GMW3414, 10WG, TM16, DL Ex. IR, B04	
420 nm – Spectral	Up to 3.5 $W \cdot m^{-2} \cdot nm^{-1}$	6.8 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	13 %	XC320, XC320HLF, 7IR, 16H, 4IR3WG, 6IRiUV, GMW3414	
(300 to 800) nm	Up to 1300 $W \cdot m^{-2}$	12 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	9.1 %	XC270, XC300, B04	
(300 to 800) nm	Up to 1300 $W \cdot m^{-2}$	9.1 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	10 %	10WG, TM16	
(300 to 800) nm	Up to 1300 $W \cdot m^{-2}$	6.9 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	8.4 %	DL Ext. IR	
(300 to 800) nm	Up to 1300 $W \cdot m^{-2}$	6.8 %		

Parameter/Equipment	Range	CMC[2, 7] (±)	Comments[6, 9]	Location[11]
Irradiance[3, 4] (With Xenocal) – (cont)				
Ci Instruments:				
340 nm – Spectral	Up to 1.4 $W \cdot m^{-2} \cdot nm^{-1}$	8.7 %	Boro S/Boro-S	WIN
420 nm – Spectral	Up to 3.5 $W \cdot m^{-2} \cdot nm^{-1}$	7.3 %		
(300 to 400) nm	Up to 150 $W \cdot m^{-2}$	11 %		
Irradiance[3, 4] (With Reference Lamp) –				
340 nm – Spectral	Up to 3.3 $W \cdot m^{-2} \cdot nm^{-1}$	5.8 %	Hioki PW3335 wattmeter w/Hioki 9660 current probe, Boro S/Boro-S	WIN
420 nm – Spectral	Up to 7.8 $W \cdot m^{-2} \cdot nm^{-1}$	5.5 %		
(300 to 400) nm	Up to 400 $W \cdot m^{-2}$	5.6 %		
Irradiance[3, 4] (With Reference Radiometer) –				
Fluorescent Instruments:				
(310, 340, 351) nm – Spectral	Up to 3.0 $W \cdot m^{-2} \cdot nm^{-1}$	7.6 %	UV test	WIN
254 nm – Spectral	Up to 16.0 $mW \cdot cm^{-2} \cdot nm^{-1}$	10 %	UVC test	
Irradiance (Calibration Standards) –				
Customer Xenon Ref. Lamps for Ci Instruments Operating at:				
Lamp AC Power up to 6 kW:				
340 nm – Spectral	Up to 3.3 $W \cdot m^{-2} \cdot nm^{-1}$	5.5 %	SP320 instrument systems spectroradiometer, Hioki PW3335 wattmeter w/Hioki 9660 current probe & 2 working standards	MPL
420 nm – Spectral	Up to 7.8 $W \cdot m^{-2} \cdot nm^{-1}$	4.4 %		
(300 to 400) nm	Up to 400 $W \cdot m^{-2}$	4.9 %		

Parameter/Equipment	Range	CMC[2, 7] (±)	Comments[6]	Location[11]
Irradiance (Calibration Standards) – (cont) Customer Xenon Ref. Lamps for Ci Instruments Operating at: Lamp AC Power up to 12 kW: 340 nm – Spectral 420 nm – Spectral (300 to 400) nm Customer Ref. UV Radiometers for Fluorescent Instruments: UV Test Fluorescent Instrument: 310/340/351 nm – Spectral UVC Test Instrument 254 nm – Spectral	 Up to 3.3 $W \cdot m^{-2} \cdot nm^{-1}$ Up to 7.8 $W \cdot m^{-2} \cdot nm^{-1}$ Up to 400 $W \cdot m^{-2}$ Up to 3.0 $W \cdot m^{-2} \cdot nm^{-1}$ Up to 16.0 $mW \cdot cm^{-2} \cdot nm^{-1}$	 5.8 % 5.5 % 5.6 % 7.6 % 10 %	 Boro S/Boro-S SP320 instrument systems, spectroradiometer & 3 working standards ILT2400 photometer & 3 working standards	 MPL
Irradiance – XenoCal/XENOSENSIV	 (110 to 1300) W/m^2 (12 to 150) W/m^2 (0.10 to 1.4) W/m^2 (0.3 to 3.5) W/m^2	 5.8 % 6.2 % 7.0 % 5.8 %	 Wavelength (300 to 800) nm Wavelength (300 to 400) nm Wavelength 340 nm Wavelength 420 nm Note: Restricted to Xenon radiation at the Atlas calibration facility	 LAL

Parameter/Equipment	Range	CMC[2, 7] (±)	Comments	Location[11]
Illuminance –				
XenoCal/XENOSENSIV	(20 to 250) klx	3.0 %	Restricted to Xenon radiation at the Atlas calibration facility	LAL
Irradiance – Xenon				
Customer Xenon Ref. Lamps for Ci Instruments Operating at:			SP320 instrument systems spectroradiometer, Hioki PW3335 wattmeter w/ Hioki 9660 current probe & 2 working standards Boro S/Boro-S	LAL
Lamp AC Power Up to 6 kW:				
340 nm	Up to 3.3 $W \cdot m^{-2} \cdot nm^{-1}$	5.5 %		
420 nm	Up to 7.8 $W \cdot m^{-2} \cdot nm^{-1}$	4.4 %		
(300 to 400) nm	Up to 400 $W \cdot m^{-2}$	4.9 %		

II. Thermodynamics

Parameter/Equipment	Range	CMC[2] (±)	Comments[10]	Location[11]
Radiation Thermometers –				
XenoCal/XENOSENSIV	(20 to 120) °C	0.8 °C	BST/WST/BPT/WPT	LAL
XENOSENSIV BPT-C[3]	(30 to 80) °C	0.5 °C	Testo 735 reference RTD thermometer	

[1] This laboratory offers commercial calibration service.

[2] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[3] Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the Calibration and Measurement Capability Uncertainty (CMC) found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the item being calibrated, (e.g., resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC. Atlas Global Technical Service team members, residing in the following countries, fall under the Atlas ISO17025 accreditation scope: Germany, France, Switzerland, Austria, Netherlands, United Kingdom, India, and the United States.

[4] This includes but is not limited to all Atlas Weather-Ometer® and Fade-Ometer® instruments, UVTest, UV2000, Xenotest, and SUNTEST instruments.

[5] AC Power is calibrated in a weathering chamber for irradiance measurements.

[6] Calibration methods include use of the instruments listed, or instruments of comparable or higher performance.

[7] In the statement of CMC Uncertainty, all percentages are defined as "percent of reading", unless otherwise indicated.

[8] This scope meets A2LA's *P112 Flexible Scope Policy.*

[9] The Spectro 320D Spectroradiometer and NIST 1000-watt FEL Spectral Irradiance Standard reside at Atlas MTT in Mt. Prospect, IL – the Laboratory's parent company.

[10] Abbreviations used are as follows: BST stands for Black Standard Temperature according to DIN EN ISO 4892-1, WST stands for White Standard Temperature according to DIN EN ISO 4892-1, BPT stands for Black Panel Temperature according to ASTM G179-04, and WPT stands for White Panel Temperature according to ASTM G179-04.

[11] The locations of the laboratories that can perform the calibration are given by a three-letter code with valid to dates given in the table below:

Location	**Code**	**Valid to Dates**
1500 Bishop Court Mount Prospect, Illinois 60056, USA	WIN & MPL	11/30/2027
Volgelbergstraße 22 Linsengericht 63589, GERMANY	LAL	12/31/2025

Please click here to return to Page 1.

Accredited Laboratory

A2LA has accredited

ATLAS MATERIAL TESTING TECHNOLOGY LLC

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets *R205 – Specific Requirements: Calibration Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 24th day of September 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2101.01
Valid to See Scope of Accreditation
Revised 11/18/2025

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.