CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

American Standard Calibration Laboratory
5633 Creek Rd.
Blue Ash, OH 45242

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

L2347

Certificate Number

ANAB Approval

Certificate Valid Through: 03/28/2020

Version No. 002 Issued: 02/21/2019

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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).

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

American Standard Calibration Laboratory

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Blue Ash, OH 45242
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CALIBRATION

Valid to: **March 28, 2020** Certificate Number: **L2347**

Acoustics and Vibration

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Sound Pressure Level Meters	(74 to 114) dB 125 Hz to 4 kHz	0.38 dB	Reference Sound Level Calibrator
Sound Pressure Level Calibrators	(94 and 114) dB 1 kHz	0.43 dB	Reference Sound Level Meter and Acoustic Microphone

Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Photometric Sources: Illuminance	(0 to 200 000) lux	0.98 % of reading + 0.059 lux	Reference Photometer
Photometric Sources: Lamp Current	(1 to 10) A	16 mA	Reference DMM and Shunt
Photometric Sources: Lamp EMF	(1 to 1 000) V	0.009 % of reading	Reference DMM
Photometric Sources: Correlated Color Temperature[3]: Incandescent Non-Incandescent	(2 300 to 3 200) K (2 300 to 7 500) K	10 K 2 % of CCT + 10 K	Reference Photometer
Photometric Sources: Chromaticity coordinates	x, y	0.002 3	Reference Photometer

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Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Photometric Sources: Chromaticity coordinates	u', v'	0.002 3	Reference Spectrophotometer
Radiometric Detectors: Spectral Irradiance (UV-C) (100 to 280) nm	(0 to 2 000) µW/cm^2	12 % of reading + 0.059 µW/cm^2	Reference Radiometer
Radiometric Detectors Spectral Irradiance (UV-B) (280 to 315) nm	(0 to 2 000) µW/cm^2	9.4 % of reading + 0.059 µW/cm^2	Reference Radiometer
Radiometric Detectors: Spectral Irradiance (UV-A) (315 to 400) nm	(0 to 2 000) µW/cm^2	9.7 % of reading + 0.059 µW/cm^2	Reference Radiometer
Radiometric Detectors: Spectral Irradiance (Bilirubin / Phototherapy) (400 to 500) nm	(0 to 2 000) µW/cm^2	7.8 % of reading + 0.059 µW/cm^2	Reference Radiometer
Photometric Detectors: Illuminance responsivity (Illuminant A – CIE)	(0 to 50 000) lux	0.98 % of reading + 0.059 lux	Reference Photometer

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. CCT = Measured Correlated Color Temperature
3. This scope is formatted as part of a single document including Certificate of Accreditation No. L2347.