

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 201019-0

American Testing & Assessment Laboratories, LLC
Houston, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

Energy Efficient Lighting Products

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 Communique dated January 2009).

2020-11-06 through 2021-12-31

Effective Dates



[Signature]

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ENERGY EFFICIENT LIGHTING PRODUCTS

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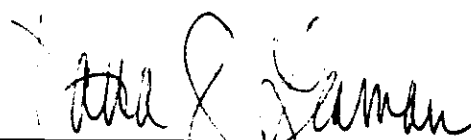
Lamps

Color Measurements

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/C02	IES LM-58:1994	Spectroradiometric Measurements
22/C02a	IES LM-58:2013	Spectroradiometric Measurements
22/C03	CIE Pub. 13.3:1995	Method of Measuring and Specifying Color Rendering of Light Sources
22/C05	CIE Pub. 15:2004	Colorimetry
22/C06	ANSI C78.376:2001	Electric Lamps - Specification for the Chromaticity of Fluorescent Lamps
22/C06a	ANSI C78.376:2014	Electric Lamps - Specification for the Chromaticity of Fluorescent Lamps

Electrical Measurements

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/E11a	IES LM-9:2009	Fluorescent Lamps - Electrical Measurements
22/E13b	IES LM-45:2015	Incandescent Lamps - Electrical Measurements
22/E14a	IES LM-51:2013	High Intensity Discharge (HID) Lamps - Electrical Measurements
22/E16a	IES LM-66:2011	Single-Ended Compact Fluorescent Lamps - Electrical Measurements



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22/E16b	IES LM-66:2014	Single-Ended Compact Fluorescent Lamps - Electrical Measurements
22/E26	ANSI C82.2:2002	Ballast for Fluorescent Lamps - Methods of Measurement
22/E27	ANSI C82.6:2005	Ballast for High Intensity Discharge Lamps - Methods of Measurement

Life Tests

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/L07	IES LM-47:2001	High Intensity Discharge Lamps - Life Test Performance
22/L07a	IES LM-47:2012	High Intensity Discharge Lamps - Life Test Performance

Photometric Measurements

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/P07c	IES LM-9:2009	Fluorescent Lamps - Total Flux Measurements
22/P07d	IES LM-9:2009	Fluorescent Lamps - Intensity Measurements
22/P10e	IES LM-45:2015	Incandescent Lamps - Total Flux Measurements
22/P10f	IES LM-45:2015	Incandescent Lamps - Intensity Measurements
22/P11c	IES LM-51:2013	High-Intensity Discharge Lamps - Total Flux Measurements
22/P11d	IES LM-51:2013	High-Intensity Discharge Lamps - Intensity Measurements
22/P13c	IES LM-66:2011	Single-Ended Compact Fluorescent Lamps - Total Flux Measurements
22/P13d	IES LM-66:2011	Single-Ended Compact Fluorescent Lamps - Intensity Measurements
22/P13e	IES LM-66:2014	Single-Ended Compact Fluorescent Lamps - Total Flux Measurements
22/P13f	IES LM-66:2014	Single-Ended Compact Fluorescent Lamps - Intensity Measurements

Luminaires

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/F06	IES LM-10:1996	Photometric Testing of Outdoor Fluorescent Luminaires
22/F07	IES LM-31:1995	Photometric Testing of Roadway Luminaires
22/F08	IES LM-35:2002	Photometric Testing of Floodlights Using Incandescent Filament or Discharge Lamps
22/F09a	IES LM-41:2014	Photometric Testing of Indoor Fluorescent Luminaires

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22/F10 IES LM-46:2004 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or Incandescent Filament Lamps

Solid State Lighting

SSL Color Measurements

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/S01	IES LM-58:1994	Spectroradiometric Measurements
22/S01a	IES LM-58:2013	Spectroradiometric Measurements
22/S02	CIE Pub. 13.3:1995	Method of Measuring and Specifying Color Rendering of Light Sources
22/S03	IES LM-79:2008 (Sec. 12)	Solid State Lighting Luminaires - Color Characteristic Measurements
22/S03a	IES LM-79:2019 (Sec. 9)	Optical and Electrical Measurements of Solid-State Lighting Products - Chromaticity Uniformity Measurements
22/S04	IES LM-16:1993	Practical Guide to Colorimetry of Light Sources
22/S05	CIE Pub. 15:2004	Colorimetry
22/S23	ANSI C78.377:2011	Specifications for the Chromaticity of Solid State Lighting Products
22/S23a	ANSI C78.377:2015	Specifications for the Chromaticity of Solid State Lighting Products

SSL Electrical Measurements

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/S06	ANSI C82.2:2002	Ballast for Fluorescent Lamps - Methods of Measurement
22/S07	ANSI C82.77:2002	Harmonic Emission Limits - Related Power Quality Requirements for Lighting Equipment
22/S07a	ANSI C82.77-10:2014	Harmonic Emission Limits - Related Power Quality Requirements for Lighting Equipment - Solid State
22/S38	IES LM-79:2019 (Sec. 5)	Optical and Electrical Measurements of Solid-State Lighting Products - Electrical Test Conditions

SSL Photometric Measurements

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/S09	IES LM-79:2008 (Sec. 9)	Solid State Lighting Luminaires - Total Flux Measurements (Luminous Efficacy)
22/S09a	IES LM-79:2019 (Sec. 7)	Optical and Electrical Measurements of Solid-State Lighting Products - Total Luminous Flux and Integrated Optical Measurements

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22/S10	IES LM-79:2008 (Sec. 10)	Solid State Lighting Luminaires - Luminous Intensity Measurements
22/S10a	IES LM-79:2019 (Sec. 8)	Optical and Electrical Measurements of Solid-State Lighting Products - Luminous Intensity or Optical Angular Distribution Measurement
22/S13	IES LM-82-12	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature

SSL Temperature Measurement

<u>Code</u>	<u>Designation</u>	<u>Description</u>
22/S17	ANSI/UL 1598:2008 (Secs. 19.7, 19.10-16)	Luminaires
22/S17a	ANSI/UL 1598C	Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits