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Registration No. CNAS L4679

Accreditation Criteria: ISO/IEC 17025, requirements of EPA ENERGY STAR® Program and relevant requirements of
 CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
 CNAS

SCHEDULE OF ACCREDITATION CERTIFICATE

Date of Issue: 2017-10-25

Date of Expiry: 2022-08-11

SCHEDULE 6 ACCREDITED ENERGY STAR TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
Energy star					
1	LED Directional lamp	1	Luminous Efficacy	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 11	
		2	Light Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.1	Except for: Integrating sphere 2 π geometry test methods for total luminous flux measurement



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		3	Elevated Temperature Light Output Ratio	ENERGY STAR Elevated Temperature Light Output Ratio Test Method (2015)	Except for: Integrating sphere 2 π geometry test methods for total luminous flux measurement
		4	Center Beam Intensity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 10	
		5	Center Beam Intensity	Photometric Testing of Reflector - Type lamps IES LM-20-13	
		6	CCT	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		7	CCT	Colorimetry CIE Pub.No.15:2004	
		8	CRI	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		9	CRI	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub.No.13.3-1995	
		10	Color Maintenance	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		11	Color Angular Uniformity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		12	Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules IES LM-80-15	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		13	Lumen Maintenance	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		14	Lumen Maintenance	Energy Conservation Program: Test Procedures for Integrated Light-Emitting Diode Lamps US DOE 81 FR 43403	
		15	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014	
		16	Frequency	ENERGY STAR® Program RequirementsProduct Specification for Lamps (Light Bulbs), Version 2.1 11.3	
		17	Start Time	ENERGY STAR Start Time Test Method (2015)	
		18	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits C62.41.2-2002 5	
		19	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5	
2	LED Omnidirectional and Decorative Lamps	1	Luminous Efficacy	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 11	
		2	Light Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.1	Except for: Integrating sphere 2 π geometry test methods for total luminous flux measurement
		3	Luminous Intensity Distribution	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 10	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		4	Center Beam Intensity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 10	
		5	Center Beam Intensity	Photometric Testing of Reflector - Type lamps IES LM-20-13	
		6	CCT	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		7	CCT	Colorimetry CIE Pub.No.15:2004	
		8	CRI	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		9	CRI	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub.No.13.3-1995	
		10	Color Maintenance	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		11	Lumen Maintenance,Lifetime	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		12	Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules IES LM-80-15	
		13	Lumen Maintenance	Energy Conservation Program: Test Procedures for Integrated Light-Emitting Diode Lamps US DOE 81 FR 43403	
		14	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014	
		15	Frequency	ENERGY STAR® Program RequirementsProduct Specification for Lamps (Light Bulbs), Version 2.1 11.3	
		16	Start Time	ENERGY STAR Start Time Test Method (2015)	
		17	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits C62.41.2-2002 5.3	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		18	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5	
3	LED Directional luminaires and subcomponents	1	Luminous Efficacy	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 11	Except for: Integrating sphere 2 π geometry test methods for total luminous flux measurement
		2	Light Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.1	
		3	CCT	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		4	CCT	Colorimetry CIE Pub.No.15:2004	
		5	CRI	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		6	CRI	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub.No.13.3-1995	
		7	Color Angular Uniformity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		8	Color Angular Uniformity	Guide to Spectroradiometric Measurements IES LM-58-13	
		9	Color Angular Uniformity	Colorimetry CIE Pub.No.15:2004	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		10	Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules IES LM-80-08	
		11	Lumen Maintenance	Lumen Maintenance Projection Method IES TM-21-11 + Addendum B	
		12	Color Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules IES LM-80-08	
		13	Color Maintenance	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
		14	Source Start Time	ENERGY STAR Start Time Test Method (2015)	
		15	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 5	
		16	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits C62.41.2-2002	
		17	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5	
		18	Frequency	ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) Version 2.0 11.6	
4	LED Non-Directional luminaires and subcomponents	1	Luminous Efficacy	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 11	



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		2	Light Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.1	Except for: Integrating sphere 2 π geometry test methods for total luminous flux measurement
		3	Light Output	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		4	CCT	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 12	
		5	CCT	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		6	CCT	Colorimetry CIE Pub.No.15:2004	
		7	CRI	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		8	CRI	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub.No.13.3-1995	
		9	Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules IES LM-80-08	
		10	Lumen Maintenance	Lumen Maintenance Projection Method IES TM-21-11+Addendum B	
		11	Color Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules IES LM-80-08	



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		№	Item/ Parameter		
		12	Color Maintenance	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
		13	Source Start Time	ENERGY STAR Start Time Test Method (2015)	
		14	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 5	
		15	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits C62.41.2-2002 11.4	
		16	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5	
		17	Frequency	ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) Version 2.0 11.6	



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