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Registration No. CNAS L5415

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

Date of Issue: 2017-10-30

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SCHEDULE 6 ACCREDITED ENERGY STAR TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
五、Energy star					
1	Directional Solid-State Lamp	1	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 4	
		2	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		3	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		4	Ambient Temperature Life Test	Ambient Temperature Life Test Method, September 2015 ENERGY STAR Ambient Temperature Life Test Method Sept 2015 8	
		5	Elevated Temperature Life Test	Elevated Temperature Life Test Method, September 2015 ENERGY STAR Elevated Temperature Life Test Method Sept 2015 7	Except for: Option B
		6	Elevated Temperature Light Output Ratio	Elevated Temperature Light Output Ratio Test Method, September 2015 ENERGY STAR Elevated Temperature Light Output Ratio Test Method Sept 2015 7	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		7	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		8	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		9	Center Beam Intensity	Photometric Testing of Reflector Type Lamps IES LM-20-13 7.0	
		10	Zonal Lumen Distribution, Color Angular Uniformity, Luminaire Photometry	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.0	
		11	Light Source Life, Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules ANSI/IES LM-80-15 7.0	
		12	Efficacy, Light Output, Lumen Maintenance, CCT , CRI, Color Maintenance, Light Source Life	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12 6.0	
		13	Lumen Maintenance	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14 7.0	
		14	Efficacy, Light Output, CCT, CRI, Color Maintenance, Lumen Maintenance, Power Factor, Standby Power Consumption	Energy Conservation Program: Test Procedures for Integrated Light-Emitting Diode Lamps US DOE 81 FR 43403 III	
2	Omnidirectional & Decorative Solid-State Lamp	1	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 4	

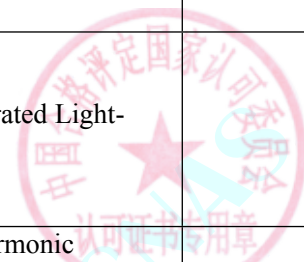


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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		2	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		3	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		4	Ambient Temperature Life Test	Ambient Temperature Life Test Method, September 2015 ENERGY STAR Ambient Temperature Life Test Method Sept 2015 7	
		5	Elevated Temperature Life Test	Elevated Temperature Life Test Method, September 2015 ENERGY STAR Elevated Temperature Life Test Method Sept 2015 7	Except for: Option B
		6	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		7	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		8	Zonal Lumen Distribution, Color Angular Uniformity, Luminaire Photometry	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.0	
		9	Light Source Life, Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules ANSI/IES LM-80-15 7.0	
		10	Lumen Maintenance	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14 7.0	
		11	Efficacy, Light Output, CCT, CRI, Color Maintenance, Lumen Maintenance, Power Factor, Standby Power Consumption	Energy Conservation Program: Test Procedures for Integrated Light-Emitting Diode Lamps US DOE 81 FR 43403 III	
		3	Directional Compact Fluorescent Lamp	1	Power Factor



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		2	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		3	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		4	Elevated Temperature Life Test	Elevated Temperature Life Test Method, September 2015 ENERGY STAR Elevated Temperature Life Test Method Sept 2015 7	Except for: Option B
		5	Source Run-up Time	Run-Up Time Test Method, September 2015 ENERGY STAR Run Up Time Test Method Sept 2015 7	
		6	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		7	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		8	Center Beam Intensity	Photometric Testing of Reflector Type Lamps IES LM-20-13 7.0	
		9	Light Source Life, Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14 6.0	
		10	Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 6.0	
		11	Efficacy, Lumen Maintenance, Rapid Cycle Stress Test, Lifetime	Uniform Test Method for Measuring the Energy Consumption of Medium Base Compact Fluorescent Lamps US DOE 10 CFR Part 430 Appendix W to Subpart B Appendix W to Subpart B	
		12	Efficacy, Light Output, CCT, CRI, Power Factor, Start Time, Standby Power Consumption	Energy Conservation Program: Test Procedure for Compact Fluorescent Lamps US DOE 81 FR 59385 III	
4	Omnidirectional & Decorative Compact Fluorescent Lamp	1	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 4	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		2	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		3	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		4	Elevated Temperature Life Test	Elevated Temperature Life Test Method, September 2015 ENERGY STAR Elevated Temperature Life Test Method Sept 2015 7	Except for: Option B
		5	Source Run-up Time	Run-Up Time Test Method, September 2015 ENERGY STAR Run Up Time Test Method Sept 2015 7	
		6	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		7	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		8	Light Source Life, Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14 6.0	
		9	Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 6.0	
		10	Efficacy, Lumen Maintenance, Rapid Cycle Stress Test, Lifetime	Uniform Test Method for Measuring the Energy Consumption of Medium Base Compact Fluorescent Lamps US DOE 10 CFR Part 430 Appendix W to Subpart B Appendix W to Subpart B	
		11	Efficacy, Light Output, CCT, CRI, Power Factor, Start Time, Standby Power Consumption	Energy Conservation Program: Test Procedure for Compact Fluorescent Lamps US DOE 81 FR 59385 III	
		5	Directional Solid-State Luminaire	1	Power Factor
2	Color Rendering (CRI)			Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
6	Non-directional Solid-State Luminaires and Subcomponents	3	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		4	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		5	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		6	Color Angular Uniformity	Guide to Spectroradiometric Measurements IES LM-58-13 7.0	
		7	Zonal Lumen Distribution, Color Angular Uniformity, Luminaire Photometry	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.0	
		8	Lumen Maintenance	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14 7.0	
	Non-directional Solid-State Luminaires and Subcomponents	1	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 4	
		2	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		3	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		4	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		5	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		6	Zonal Lumen Distribution, Color Angular Uniformity, Luminaire Photometry	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 9.0	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		7	Efficacy, Light Output, Lumen Maintenance, CCT, CRI, Color Maintenance, Light Source Life	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12 6.0	
		8	Lumen Maintenance	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14 7.0	
7	LED Packages, Arrays, and Modules	1	Light Source Life, Lumen Maintenance	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules ANSI/IES LM-80-15 7.0	
8	Directional Fluorescent Luminaire	1	Operating Frequency	Method of Measurement of Fluorescent Lamp Ballasts ANSI C82.2-2002 6	
		2	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 4	
		3	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		4	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		5	Source Run-up Time	Run-Up Time Test Method, September 2015 ENERGY STAR Run Up Time Test Method Sept 2015 7	
		6	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		7	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	
		8	Luminous Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09 7.0	



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		9	Luminous Efficacy, Light Output, Zonal Lumen Distribution	Photometric Testing of Outdoor Fluorescent Luminaires IES LM-10-96 6.0-7.0	
		10	Light Source Life, Lumen Maintenance	Life Testing of Fluorescent Lamps IES LM-40-10 6.0	
		11	Luminous Efficacy, Light Output, Zonal Lumen Distribution	Photometric Testing of Indoor Fluorescent Luminaires IES LM-41-14 7.0	
		12	Light Source Life, Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14 6.0	
		13	Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 6.0	
9	Non-Directional Fluorescent Luminaire	1	Operating Frequency	Method of Measurement of Fluorescent Lamp Ballasts ANSI C82.2-2002 6	
		2	Power Factor	American National Standard for Lighting Equipment -Harmonic Emission Limits—Related Power Quality Requirements ANSI C82.77-10-2014 4	
		3	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		4	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		5	Source Run-up Time	Run-Up Time Test Method, September 2015 ENERGY STAR Run Up Time Test Method Sept 2015 7	
		6	Source Start Time	Start Time Test Method, September 2015 ENERGY STAR Start Time Test Method Sept 2015 7	
		7	Standby Power Consumption	Household electrical appliances -Measurement of standby power IEC 62301:2011 5.0	



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		8	Luminous Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09 7.0	
		9	Light Source Life, Lumen Maintenance	Life Testing of Fluorescent Lamps IES LM-40-10 6.0	
		10	Light Source Life, Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14 6.0	
		11	Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 6.0	
10	CSD -Fluorescent Lamp	1	Color Rendering (CRI)	Method of Measuring and Specifying Color Rendering of Light Sources CIE Pub. No. 13.3-1995 6	
		2	CCT	Colorimetry CIE Pub. No. 15:2004 7	
		3	Luminous Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09 7.0	
		4	Light Source Life, Lumen Maintenance	Life Testing of Fluorescent Lamps IES LM-40-10 6.0	
		5	Light Source Life, Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14 6.0	
		6	Efficacy, Light Output, Lumen Maintenance, CCT, CRI	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 6.0	
11	Decorative Light Strings	1	Input Power	ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 Annex A	



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		2	Over-Voltage	ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 Annex A	
		3	Reliability Testing	ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 Annex A	
		4	Weathering Testing	ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 Annex A	
		5	Light Output	ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 ENERGY STAR® Program Requirements Product Specification for Decorative Light Strings Eligibility Criteria Version 1.5 Annex A	



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