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**中国合格评定国家认可委员会**

**认 可 证 书 附 件**

**（注册号：CNAS L0128）**

名称:上海市质量监督检验技术研究院

地址：上海市徐汇区苍梧路381号（200233）

认可依据：ISO/IEC 17025、EPA能源之星以及CNAS特定认可要求

签发日期：2016年12月13日 有效期至：2018年10月11日

附件4 认可的“能源之星”检测能力范围

| 序号 | 检测  对象 | 项目/参数 | | 检测标准（方法）名称及编号（含年号） | 限制  范围 | 说明 |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 名称 |
| 1 | 房间空气调节器 | 1 | 部分项目 | 能源之星对空调器的要求V4.0 | 只测：制冷量3400-45000BTU/h，不测：水冷器具 | 变更 |

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**CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT**

**SCHEDULE OF ACCREDITATION CERTIFICATE**

**(Registration No. CNAS L0128)**

**NAME: Shanghai Institute of Quality Inspection and Technical Research**

**ADDRESS: No.381, Cangwu Road, Shanghai, China (200233)**

Accreditation Criteria:ISO/IEC 17025, requirements of EPA ENERGY STAR® Program and relevant requirements of CNAS

**Date of Issue: 2016-12-13 Date of Expiry: 2018-10-11**

SCHEDULE 4 ACCREDITED ENERGY STAR TESTING SCOPE

| № | Test Object | Item/Parameter | | Title, Code of Standard or Method | Limitation | Note |
| --- | --- | --- | --- | --- | --- | --- |
| № | Item/ Parameter |
| 1 | Room air conditioners | 1 | Part items | ENERGY STAR Program Requirements and Criteria for Room Air Conditioners V4.0 | Accredited only for：cooling capacity 3400-45000 BTU/h except for water-cooling units | Change |



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附件4 认可的“能源之星”检测能力范围

| 序号 | 检测  对象 | 项目/参数 | | 检测标准（方法）名称及编号（含年号） | 限制  范围 | 说明 |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 名称 |
| 1 | 房间空气调节器 | 1 | 全部项目 | 能源之星对空调器的要求V3.0 |  |  |
|  |  | 2 | 全部项目 | 10 CFR 430,B部分，附录 F | 只测：制冷量3400-45000BTU/h，不测：水冷器具 |  |
|  |  | 3 | 制冷量 | ANSI/AHAM RAC-1-2008 房间空气调节器 第6.1部分 |  |  |
|  |  | 4 | 制冷量试验 | 房间空调器和整体式空调的测试方法ANSI/ASHRAE 16-1983(RA2014) |  |  |
|  |  | 5 | 制冷功率 | ANSI/AHAM RAC-1-2008 房间空气调节器 第6.5部分 |  |  |
|  |  | 6 | 制热量试验 | 房间空调器和整体式空调的制热测试方法ANSI/ASHRAE 58-1986 (RA2014) |  |  |
|  |  | 7 | 能效比 | ANSI/AHAM RAC-1-2008 房间空气调节器 第3.9部分 |  |  |

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**Date of Issue: 2015-09-29 Date of Expiry: 2018-10-11**

SCHEDULE 4 ACCREDITED ENERGY STAR TESTING SCOPE

| № | Test Object | Item/Parameter | | Title, Code of Standard or Method | Limitation | Note |
| --- | --- | --- | --- | --- | --- | --- |
| № | Item/ Parameter |
| 1 | Room air conditioners | 1 | All items | ENERGY STAR Program Requirements and Criteria for Room Air Conditioners V3.0 |  |  |
|  |  | 2 | All items | 10 CFR 430,Subpart B, Appendix F | Accredited only for：cooling capacity 3400-45000 BTU/h except for water-cooling units |  |
|  |  | 3 | Cooling capacity | ANSI/AHAM RAC-1-2008 Room Air Conditioners Section 6.1 |  |  |
|  |  | 4 | cooling capacity test | Method of Testing for Rating Room Air Conditioners and Packaged Terminal Air Conditioners ANSI/ASHRAE 16-1983（RA2014） |  |  |
|  |  | 5 | Cooling power input | ANSI/AHAM RAC-1-2008 Room Air Conditioners Section 6.5 |  |  |
|  |  | 6 | heating capacity test | Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSI/ASHRAE 58-1986 (RA2014) |  |  |
|  |  | 7 | EER | ANSI/AHAM RAC-1-2008 Room Air Conditioners Section 3.9 |  |  |



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地址：上海市闵行区江月路900号（201114）

认可依据：ISO/IEC 17025、EPA能源之星以及CNAS特定认可要求

签发日期：2015年09月29日 有效期至：2018年10月11日

附件4 认可的“能源之星”检测能力范围

| 序号 | 检测  对象 | 项目/参数 | | 检测标准（方法）名称及编号（含年号） | 限制  范围 | 说明 |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 名称 |
| 1 | 灯（灯泡）产品 | 1 | 全部项目 | 能源之星项目要求 灯（灯泡）产品规范 资格认证1.1版 |  | 扩项 |
| 2 | 定向LED灯 | 1 | 光效、光输出、中心光强、光强分布、光通维持率、寿命、CCT、CRI、颜色漂移、色均匀性 | 固态照明产品电气和光度测量方法 IES LM-79-08 |  |  |
|  |  | 2 | 谐波电流 | 谐波发射限值-照明设备的相关电能质量要求 ANSI C82.77-2002 |  | 扩项 |
|  |  |  | 功率因数 |  |  | 扩项 |
|  |  |  | 总谐波失真 |  |  | 扩项 |
|  |  | 3 | 振铃波 | 低压(1000 V及以下)交流电路中电涌特性的IEEE推荐实施规程 IEEE Std C62.41.2-2002 |  | 扩项 |
|  |  | 4 | CCT | 色度学 CIE 15-2004 |  |  |
|  |  | 5 | CCT | 固态照明产品的色度指标 ANSI\_ANSLG C78.377-2011 |  | 扩项 |
|  |  | 6 | 显色指数 | 测量和评价光源显色性的方法 CIE 13.3–1995 |  |  |
|  |  | 7 | PAR灯和MR灯——最小中心光强 | 最小中心光强计算工具 |  |  |
|  |  | 8 | 光通维持率、寿命 | 能源之星项目要求 灯产品规范1.0版：高温寿命试验方法 | 只测：选项C | 扩项 |
|  |  | 9 | 环境温度寿命试验 | 能源之星项目要求 灯产品规范1.0版：环境温度寿命试验方法 |  | 扩项 |
|  |  | 10 | 高温光输出比率 | 能源之星项目要求 灯产品规范1.0版：高温光输出比率试验方法 |  | 扩项 |
|  |  | 11 | 启动时间试验 | 能源之星项目要求 灯产品规范1.0版：启动时间试验方法 |  | 扩项 |
| 3 | 非定向和装饰型LED灯 | 1 | 光效、光输出、中心光强、光强分布、光通维持率、寿命、CCT、CRI、颜色漂移、色均匀性 | 固态照明产品电气和光度测量方法 IES LM-79-08 |  |  |
|  |  | 2 | 功率因数 | 谐波发射限值-照明设备的相关电能质量要求 ANSI C82.77-2002 |  | 扩项 |
|  |  | 3 | 瞬态保护 | 低压(1000 V及以下)交流电路中电涌特性的IEEE推荐实施规程IEEE C62.41.2-2002 |  | 扩项 |
|  |  | 4 | CCT | 色度学 CIE 15-2004 |  |  |
|  |  | 5 | 显色指数 | 测量和评价光源显色性的方法 CIE 13.3–1995 |  |  |
|  |  | 6 | 光通维持率、寿命 | 能源之星项目要求 灯产品规范1.0版：高温寿命试验方法 | 只测：选项C | 扩项 |
|  |  | 7 | 环境温度寿命试验 | 能源之星项目要求 灯产品规范1.0版：环境温度寿命试验方法 |  | 扩项 |
|  |  | 8 | 启动时间试验 | 能源之星项目要求 灯产品规范1.0版：启动时间试验方法 |  | 扩项 |
| 4 | LED封装，阵列和模块 | 1 | 光源寿命、光通维持率 | LED光源光通维持率的测量 IES LM-80-08 |  |  |
| 5 | 灯产品 | 1 | 环境温度寿命试验 | 能源之星项目要求 灯产品规范1.0版：环境温度寿命试验方法 |  | 扩项 |
| 6 | 灯产品 | 1 | 高温寿命试验 | 能源之星项目要求 灯产品规范1.0版：高温寿命试验方法 | 只测：选项C | 扩项 |
| 7 | 灯产品 | 1 | 高温光输出比率试验 | 能源之星项目要求 灯产品规范1.0版：高温光输出比率试验方法 |  | 扩项 |
| 8 | 灯产品 | 1 | 启动时间试验 | 能源之星项目要求 灯产品规范1.0版：启动时间试验方法 |  | 扩项 |
| 9 | 灯产品 | 1 | Run-Up时间试验 | 能源之星项目要求 灯产品规范1.0版：Run-Up时间试验方法 |  | 扩项 |
| 10 | 灯产品 | 1 | 调光器光输出 | 能源之星项目要求 灯产品规范1.0版：调光器光输出 推荐规程 |  | 扩项 |
| 11 | 灯产品 | 1 | 光源频闪 | 能源之星项目要求 灯产品规范1.0版：光源频闪 推荐规程 |  | 扩项 |
| 12 | 灯产品 | 1 | 噪声 | 能源之星项目要求 灯产品规范1.0版：噪声 推荐规程 |  | 扩项 |
| 13 | 电视机（能源之星） | 1-1 | 开机能耗 | 1.能源之星电视机产品程序要求5.3版 |  |  |
|  |  |  |  | 2.音频、视频和相关设备的功率消耗用测量方法 IEC 62087:2008 Ed.2.0 |  |  |
|  |  | 1-2 | 下载模式能耗 | 3.电视机平均功率消耗的确定 CEA-2037:2009 |  |  |
|  |  | 1-3 | 待机能耗 | 4.家用电器 待机功耗的测量 IEC 62301:2011 |  |  |
| 14 | 显示器（能源之星）< 30 " | 1-1 | 能源效率 | 1、能源之星显示器产品程序要求(含能源之星显示器产品程序要求合格判据5.1版 |  |  |
|  |  |  |  | 2、能源之星显示器产品程序要求测试方法2010年8月版) |  |  |
|  |  | 1-2 | 待机能耗 | 3、家用电器 待机功耗的测量 IEC 62301:2011 |  |  |
| 15 | 显示器（能源之星）30" -60 " | 1-1 | 能源效率 | 1、能源之星显示器产品程序要求(含能源之星显示器产品程序要求合格判据5.1版 |  |  |
|  |  |  |  | 2、能源之星显示器产品程序要求测试方法2010年8月版) |  |  |
|  |  |  |  | 3、家用电器 待机功耗的测量 IEC 62301:2011 |  |  |
|  |  | 1-2 | 待机能耗 | 4、音频、视频和相关设备的功率消耗用测量方法 IEC 62087:2008 |  |  |
| 16 | 计算机（能源之星） | 1 | 典型能源消耗 | 1、能源之星计算机产品程序要求(含能源之星计算机产品程序要求合格判据5.2版 |  |  |
|  |  |  |  | 2、能源之星计算机产品程序要求测试方法2010年8月 |  |  |
|  |  |  |  | 3、计算机内置AC-DC和DC-DC电源能量效率的测试规程 Rev. 6.4.2 |  |  |
|  |  |  |  | 4、AC-DC和DC-DC单电压外部电源能效测试方法 |  |  |
|  |  |  |  | 5、家用电器 待机功耗的测量 IEC 62301:2011 |  |  |

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**Date of Issue: 2015-09-29 Date of Expiry: 2018-10-11**

SCHEDULE 4 ACCREDITED ENERGY STAR TESTING SCOPE

| № | Test Object | Item/Parameter | | Title, Code of Standard or Method | Limitation | Note |
| --- | --- | --- | --- | --- | --- | --- |
| № | Item/ Parameter |  |  |  |
| 1 | Lamps (Light Bulbs) | 1 | All Items | ENERGY STAR Program Requirements Product Specification for Lamps (Light Bulbs) Eligibility Criteria Version 1.1 |  | Extended |
| 2 | Solid State Lighting Lamps – Directional | 1 | Efficacy、Output、Center Beam Intensity、Luminous Intensity Distribution、 Lumen Maintenance、 Lifetime、CCT、 CRI、 Color Maintenance、 Color Angular Uniformity | Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 |  |  |
|  |  | 2 | Harmonic | Harmonic Emission Limits— Related Power Quality Requirements for Lighting Equipment ANSI C82.77-2002 |  | Extended |
|  |  |  | Power factor |  |  | Extended |
|  |  |  | Total harmonic distortion |  |  | Extended |
|  |  | 3 | Ringwave | IEEE recommended practice on characterization of surges in low-voltage (1000 v and less) ac power circuits IEEE Std C62.41.2-2002 |  | Extended |
|  |  | 4 | CCT | Colorimetry CIE 15-2004 |  |  |
|  |  | 5 | CCT | Specifications for the Chromaticity of Solid State Lighting Products ANSI\_ANSLG C78.377-2011 |  | Extended |
|  |  | 6 | CRI | Method of Measuring and Specifying Color Rendering of Light Sources CIE 13.3–1995 |  |  |
|  |  | 7 | Minimum Center Beam Intensity – PAR and MR lamps | Tool for Calculating Minimum Center Beam Intensity |  |  |
|  |  | 8 | Lumen Maintenance、Lifetime | ENERGY STAR Program RequirementsProduct Specification for Lamps Version 1.0:Elevated Temperature Life Testing Test Method | Only for ：option C | Extended |
|  |  | 9 | Ambient Temperature Life Testing | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Ambient Temperature Life Testing Test Method |  | Extended |
|  |  | 10 | Elevated Temperature Light Output Ratio | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Elevated Temperature Light Output Ratio Test Method |  | Extended |
|  |  | 11 | Start Time | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Start Time Test Method |  | Extended |
| 3 | Solid State Lighting Lamps – Omnidirectional and Decorative | 1 | Efficacy、Output、Center Beam Intensity、Luminous Intensity Distribution、 Lumen Maintenance、 Lifetime、CCT、 CRI、 Color Maintenance、 Color Angular Uniformity | Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 |  |  |
|  |  | 2 | Power Factor | Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment ANSI C82.77-2002 |  | Extended |
|  |  | 3 | Transient Protection | IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits IEEE C62.41.2-2002 |  | Extended |
|  |  | 4 | CCT | Colorimetry CIE 15-2004 |  |  |
|  |  | 5 | CRI | Method of Measuring and Specifying Color Rendering of Light SourcesCIE 13.3–1995 |  |  |
|  |  | 6 | Lumen Maintenance、Lifetime | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Elevated Temperature Life Testing Test Method | Only for ：option C | Extended |
|  |  | 7 | Ambient Temperature Life Testing | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Ambient Temperature Life Testing Test Method |  | Extended |
|  |  | 8 | Start Time | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Start Time Test Method |  | Extended |
| 4 | LED Packages、 Arrays、 and Modules | 1 | Light Source Life、Lumen Maintenance | Method for Measuring Lumen Maintenance of LED Light Sources IES LM-80-08 |  |  |
| 5 | Lamps | 1 | Ambient Temperature Life Testing | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Ambient Temperature Life Testing Test Method |  | Extended |
| 6 | Lamps | 1 | Elevated Temperature Life Testing | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Elevated Temperature Life Testing Test Method | Only for ：option C | Extended |
| 7 | Lamps | 1 | Elevated Temperature Light Output Ratio | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Elevated Temperature Light Output Ratio Test Method |  | Extended |
| 8 | Lamps | 1 | Start Time | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Start Time Test Method |  | Extended |
| 9 | Lamps | 1 | Run-Up Time | ENERGY STAR Program RequirementsProduct Specification for Lamps Version 1.0:Run-Up Time Test Method |  | Extended |
| 10 | Lamps | 1 | Light Output on a Dimmer | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Light Output on a Dimmer Recommended Practice |  | Extended |
| 11 | Lamps | 1 | Light Source Flicker | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Light Source Flicker Recommended Practice |  | Extended |
| 12 | Lamps | 1 | Noise | ENERGY STAR Program Requirements Product Specification for Lamps Version 1.0: Noise Recommended Practice |  | Extended |
| 13 | Television receiver (Energy Star) | 1-1 | Operation energy consumption | 1、ENERGY STAR Program Requirements for Television receiver(include ENERGY STAR Program Requirements Product Specification for Television receiver-Eligibility Criteria Version 5.3 |  |  |
|  |  |  |  | 2、Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment IEC 62087:2008 Ed.2.0 |  |  |
|  |  | 1-2 | Download mode energy consumption | 3、Determination of Television Average Power Consumption CEA-2037:2009 |  |  |
|  |  | 1-3 | Standby energy consumption | 4、Household Electrical Appliances – Measurement of Standby Power IEC 62301:2011 |  |  |
| 14 | Displays(Energy Star)< 30 inch | 1 | Energy consumption | 1、ENERGY STAR Program Requirements for Displays(include ENERGY STAR Program Requirements Product Specification for Displays-Eligibility Criteria Version 5.1 |  |  |
|  |  |  |  | 2、 ENERGY STAR Program Requirements Product Specification for Displays-Test Method Rev. Aug-2010 ) |  |  |
|  |  | 1-2 | Standby Power | 3、Household Electrical Appliances – Measurement of Standby Power IEC 62301:2011 |  |  |
| 15 | Displays(Energy Star) 30-60 inch | 1 | Energy consumption | 1、ENERGY STAR Program Requirements for Displays(include ENERGY STAR Program Requirements Product Specification for Displays-Eligibility Criteria Version 5.1 |  |  |
|  |  |  |  | 2、 ENERGY STAR Program Requirements Product Specification for Displays-Test Method Rev. Aug-2010 ) |  |  |
|  |  |  |  | 3、Household Electrical Appliances – Measurement of Standby Power IEC 62301:2011 |  |  |
|  |  | 1-2 | Standby Power | 4、Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment  IEC 62087:2008 |  |  |
| 16 | Computers(Energy Star) | 1 | typical energy consumpution | 1、ENERGY STAR Program Requirements for Computers Eligibility Criteria Version 5.2 |  |  |
|  |  |  |  | 2、ENERGY STAR Program Requirements Product Specification for Computers-Test Method Rev. Aug-2010 |  |  |
|  |  |  |  | 3、Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies Revision 6.4.2 |  |  |
|  |  |  |  | 4、Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies |  |  |
|  |  |  |  | 5、Household Electrical Appliances – Measurement of Standby Power IEC IEC 62301:2011 |  |  |