

Name: EMTEK(Dongguan) Co., Ltd.

Address: No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China

Registration No. CNAS L3150

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

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SCHEDULE 6 ACCREDITED ENERGY STAR TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
1	Audio/Video	1	Energy efficiency requirements	ENERGY STAR® Program Requirements Product Specification for Audio/Video Eligibility Criteria Version 3.0	
		2	Auto Power Down Requirements	ENERGY STAR Test Method for Audio/Video: 1. All Product Test Method for ENERGY STAR Test Method for Audio/Video, Rev. July-2012 2. supply by EPS Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies, Aug. 11, 2004	
		3	Sleep Mode Requirements	ENERGY STAR Test Method for Audio/Video: 1. All Product Test Method for ENERGY STAR Test Method for Audio/Video, Rev. July-2012 2. supply by EPS Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies, Aug. 11, 2004.	



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		4	Optical Disc Player On Mode Requirements	ENERGY STAR Test Method for Audio/Video: 1. All Product Test Method for ENERGY STAR Test Method for Audio/Video, Rev. July-2012 2.supply by EPS Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies, Aug. 11, 2004.	
		5	Idle State Requirements	ENERGY STAR Test Method for Audio/Video: 1. All Product Test Method for ENERGY STAR Test Method for Audio/Video, Rev. July-2012 2.supply by EPS Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies, Aug. 11, 2004.	
		6	Amplifier Efficiency Requirements	ENERGY STAR Test Method for Audio/Video: 1. All Product Test Method for ENERGY STAR Test Method for Audio/Video, Rev. July-2012 2.supply by EPS Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies, Aug. 11, 2004.	
2	Televisions	1	Energy efficiency requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	
		2	On Mode Requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	
		3	Standby-Passive Mode Requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	



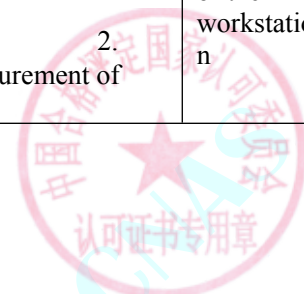
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		4	Standby-Active, Low Mode Requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	
		5	Luminance Requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	
		6	Download Acquisition Mode Requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	
		7	Hospitality Television Requirements	ENERGY STAR Test Method for Televisions, For Version 7.0 1. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 2.Final Rule Test Procedures for Television Sets (Appendix H to Subpart B of 10 CFR § 430).	
3	Set-top Boxes & Cable Boxes	1	Energy efficiency requirements	ENERGY STAR® Program RequirementsProduct Specification for Set-top BoxesEligibility CriteriaVersion 4.1 Test Method CEA-2043, Set-top Box (STB) Power Measurement, Rev, June- 2013, subject to the clarifications in Sections 4.2 - 4.9.	
		2	Auto Power Down	ENERGY STAR® Program RequirementsProduct Specification for Set-top BoxesEligibility CriteriaVersion 4.1 Test Method CEA-2043, Set-top Box (STB) Power Measurement, Rev, June- 2013, subject to the clarifications in Sections 4.2 - 4.9.	



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		3	Typical Energy Consumption (TEC) Requirements	ENERGY STAR® Program RequirementsProduct Specification for Set-top BoxesEligibility CriteriaVersion 4.1 Test Method CEA-2043, Set-top Box (STB) Power Measurement, Rev, June- 2013, subject to the clarifications in Sections 4.2 - 4.9.	
		4	Deep Sleep	ENERGY STAR® Program RequirementsProduct Specification for Set-top BoxesEligibility CriteriaVersion 4.1 Test Method CEA-2043, Set-top Box (STB) Power Measurement, Rev, June- 2013, subject to the clarifications in Sections 4.2 - 4.9.	
4	Telephony	1	Energy efficiency requirements	ENERGY STAR® Program Requirements for TelephonyEligibility Criteria Version 3.0 ENERGY STAR Test Method for Telephony, Final Test Method Rev. Nov-2013	
		2	Standby Mode Requirements	ENERGY STAR® Program Requirements for TelephonyEligibility Criteria Version 3.0 ENERGY STAR Test Method for Telephony, Final Test Method Rev. Nov-2013	
5	computer	1	Energy efficiency requirements	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,multi-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation.



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		2	Energy efficiency requirements test	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,muti-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation
		3	Power management requirements	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,muti-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation
		4	User Information Requirements	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,muti-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation



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		5	Requirements for Desktop, Integrated Desktop, and Notebook Computers	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,muti-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation
		6	Requirements for Workstations	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,muti-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation
		7	Requirements for Small-scale Servers	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,muti-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation



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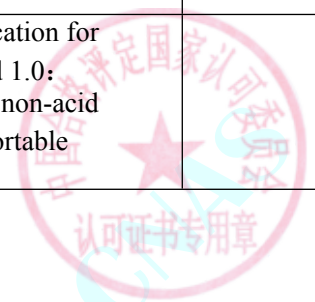
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		8	Requirements for Thin Clients	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Final Test Method Version 6.1 1.EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal,multi-output,or single output with in tegral cooling power supplies;available at:www.efficientpowersupplies.org) 2. IEC 62301:2011 Household Electrical Appliances - Measurement of Standby Power;(Internal power supplies)	Except for the energy efficiency of the workstation
6	Displays	1	Energy efficiency requirements	ENERGY STAR® Program Requirements Product Specification for Displays Test Method For Version 7.0 1.d < 30.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. VESA Flat Panel Display Measurements (FPDM) Standard, Version 2.0 2. 30.0 ≤ d ≤ 60.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 3. All Screen Sizes IEC 62301:2011, Household Electrical Appliances - Measurement of Standby Power Test Method for Determining Displays Energy Use Version 6.0 Rev. Jan-2013	
		2	On Mode Requirements	ENERGY STAR® Program Requirements Product Specification for Displays Test Method For Version 7.0 1.d < 30.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. VESA Flat Panel Display Measurements (FPDM) Standard, Version 2.0 2. 30.0 ≤ d ≤ 60.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 3. All Screen Sizes IEC 62301:2011, Household Electrical Appliances - Measurement of Standby Power Test Method for Determining Displays Energy Use Version 6.0 Rev. Jan-2013	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		3	Sleep Mode Requirements	ENERGY STAR® Program Requirements Product Specification for Displays Test Method For Version 7.0 1.d < 30.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. VESA Flat Panel Display Measurements (FPDM) Standard, Version 2.0 2. 30.0 ≤ d ≤ 60.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 3. All Screen Sizes IEC 62301:2011, Household Electrical Appliances - Measurement of Standby Power Test Method for Determining Displays Energy Use Version 6.0 Rev. Jan-2013	
		4	Off Mode Requirements	ENERGY STAR® Program Requirements Product Specification for Displays Test Method For Version 7.0 1.d < 30.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. VESA Flat Panel Display Measurements (FPDM) Standard, Version 2.0 2. 30.0 ≤ d ≤ 60.0 ENERGY STAR Test Method for Displays Rev. Aug 2010. IEC 62087:2011 Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment 3. All Screen Sizes IEC 62301:2011, Household Electrical Appliances - Measurement of Standby Power Test Method for Determining Displays Energy Use Version 6.0 Rev. Jan-2013	
7	Battery Chargers	1	Energy efficiency	ENERGY STAR Program Requirements Product Specification for Battery Charging Systems Version 1.1 - IEC61960 ed 1.0: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications. . December 2003	





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		2	Measuring Nonactive Energy -Charging Mode	ENERGY STAR Program Requirements Product Specification for Battery Charging Systems Version 1.1 – IEC61960 ed 1.0: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications. . December 2003	
		3	Measuring Nonactive Energy -Maintenance Mode	ENERGY STAR Program Requirements Product Specification for Battery Charging Systems Version 1.1 – IEC61960 ed 1.0: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications. . December 2003 IEC 62591-1 ed 2.1 January 2006,IEC 62591-2 ed 2.0 April 2003:	
		4	Measuring Nonactive Energy -Standby Mode	ENERGY STAR Program Requirements Product Specification for Battery Charging Systems Version 1.1 – IEC61960 ed 1.0: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications. . December 2003:	
		5	Battery Ernergy Measurement	ENERGY STAR Program Requirements Product Specification for Battery Charging Systems Version 1.1 – IEC61960 ed 1.0: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications. . December 2003	Just test secondary Li-ion cell and battery pack
8	Uninterruptible power supplies (UPSs)	1	Energy efficiency requirements	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products



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№	Test Object	Item/Parameter		Standard or Method	Note
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		2	Energy Efficiency Requirements for Ac-output UPSs	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products
		3	DC-output UPSs/Rectifiers	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products
		4	AC-output UPSs	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products
		5	Power Factor Requirements	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products
		6	Standard Information Reporting Requirements	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products
		7	Communication and Measurement Requirements	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products



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		8	Diesel Coupled Rotary UPS Emissions Requirements	ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies Version 1.0 Rev. Jul-2012	Only for input power less than 2kV products
9		1	Efficacy	Energy Conservation Program for Consumer Products 10 CFR 430	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		2	Light Output	Energy Conservation Program for Consumer Products 10 CFR 430	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		3	Elevated Temperature Light Output Ratio	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		4	Center Beam Intensity	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		5	Luminous Intensity Distribution	ENERGY STAR® Lamp Center Beam Intensity Benchmark Tool for the referenced incandescent lamp	
		6	Correlated Color Temperature (CCT)	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		7	Color Rendering	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08					



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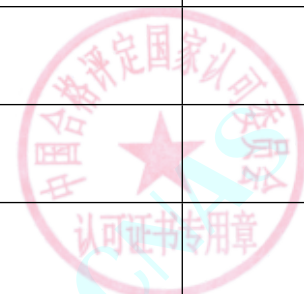
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		8	Color Maintenance	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IESLM-84-14	
		9	Color Angular Uniformity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IESLM-84-14	
		10	Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
		11	Rated Life	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
		12	Rapid Cycle Stress Test	Conservation Program for Consumer Products	
		13	Electrical Safety	Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2012	
Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009					



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		14	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment ANSI C82.77-10-2014	
		15	Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		16	Start Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	
		17	Run Up Time	ENERGY STAR® Program Requirements For Lamps and Luminaires Run-Up Time Test Method	
		18	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits IEEE ANSI C62.41.2-2002	
		19	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301 Edition 2.0 2011	
		20	Dimming Performance-Maximum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		21	Dimming Performance-Minimum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		22	Dimming Performance-Flicker	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Source Flicker	
		23	Dimming Performance-Audible Noise	ENERGY STAR® Program Requirements For Lamps and Luminaires Test Method - Noise	



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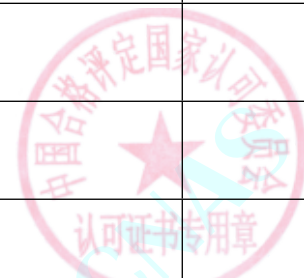
№	Test Object	Item/Parameter		Standard or Method	Note
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		24	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
		25	Lamp Shape Dimensions	Electric Lamps - A, G, PS and Similar Shapes with E26 Medium Screw Bases ANSI C78.20:2003	
				Electric Lamps - PAR and R Shapes ANSI C78.21-2011	
10	Lamps(Compact Fluorescent Lamps - Directional)	1	Efficacy	Conservation Program for Consumer Products	
		2	Light Output	Conservation Program for Consumer Products	
		3	Elevated Temperature Light Output Ratio	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		4	Center Beam Intensity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		5	Luminous Intensity Distribution	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		6	Correlated Color Temperature (CCT)	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		7	Color Rendering	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		8	Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		9	Rated Life	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14					
10	Rapid Cycle Stress Test	Energy Conservation Program for Consumer Products			



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№	Test Object	Item/Parameter		Standard or Method	Note
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		11	Electrical Safety	Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2012	
		12	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment ANSI C82.77-10-2014	
		13	Frequency		
		14	Start Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	
		15	Run Up Time	ENERGY STAR® Program Requirements For Lamps and Luminaires Run-Up Time Test Method	
		16	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low- Voltage (1000V and Less) AC Power Circuits IEEE ANSI C62.41.2- 2002	
		17	Dimming Performance- Maximum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		18	Dimming Performance- Minimum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		19	Dimming Performance- Flicker	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Source Flicker	
		20	Dimming Performance- Audible Noise	ENERGY STAR® Program Requirements For Lamps and Luminaires Test Method - Noise	



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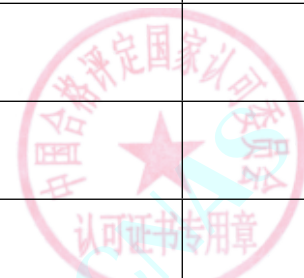
№	Test Object	Item/Parameter		Standard or Method	Note
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		21	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
		22	Lamp Shape Dimensions	Electric Lamps - A, G, PS and Similar Shapes with E26 Medium Screw Bases ANSI C78.20:2003	
				Electric Lamps - A, G, PS and Similar Shapes with E26 Medium Screw Bases ANSI C78.21-2011	
11	Lamps(Compact Fluorescent Lamps - Omnidirectional and Decorative)	1	Efficacy	Energy Conservation Program for Consumer Products	
		2	Light Output	Energy Conservation Program for Consumer Products	
		3	Luminous Intensity Distribution	Energy Conservation Program for Consumer Products	
		4	Correlated Color Temperature (CCT)	ENERGY STAR® Lamp Center Beam Intensity Benchmark Tool for the referenced incandescent lamp	
		5	Color Rendering	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		6	Lumen Maintenance	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		7	Rated Life	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		8	Rapid Cycle Stress Test	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14					
9	Electrical Safety	Energy Conservation Program for Consumer Products			



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		10	Power Factor	Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2012	
		11	Frequency	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment ANSI C82.77-10-2014	
		12	Start Time		
		13	Run Up Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	
		14	Transient Protection	ENERGY STAR® Program Requirements For Lamps and Luminaires Run-Up Time Test Method	
		15	Dimming Performance- Maximum Light Output	IEEE Recommended Practice on Characterization of Surges in Low- Voltage (1000V and Less) AC Power Circuits IEEE ANSI C62.41.2- 2002	
		16	Dimming Performance- Minimum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		17	Dimming Performance- Flicker	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		18	Dimming Performance- Audible Noise	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Source Flicker	
		19	Lamp Toxics Reduction	ENERGY STAR® Program Requirements For Lamps and Luminaires Test Method - Noise	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		20	Lamp Shape Dimensions	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
				Electric Lamps - A, G, PS and Similar Shapes with E26 Medium Screw Bases ANSI C78.20:2003	
				Electric Lamps - PAR and R Shapes ANSI C78.21-2011	
12	Lamps(Solid State Lighting Lamps - Directional)	1	Efficacy	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		2	Light Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		3	Elevated Temperature Light Output Ratio	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
		4	Center Beam Intensity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		5	Correlated Color Temperature (CCT)	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		6	Color Rendering	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		7	Color Maintenance	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IESLM-84-14	
8	Color Angular Uniformity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08			
9	Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14			



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
		10	Rated Life	Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
				Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
		11	Electrical Safety	Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2012	
		12	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment ANSI C82.77-10-2014	
		13	Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		14	Start Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	
		15	Transient Protection	ENERGY STAR® Program Requirements For Lamps and Luminaires Run-Up Time Test Method	
		16	Standby Power Consumption	IEEE ANSI C62.41.2-2002 IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits IEEE ANSI C62.41.2-2002	
		17	Dimming Performance- Maximum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		18	Dimming Performance- Minimum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		19	Dimming Performance- Flicker	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Source Flicker	
		20	Dimming Performance- Audible Noise	ENERGY STAR® Program Requirements For Lamps and Luminaires Test Method - Noise	
		21	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
		22	Lamp Shape Dimensions	Electric Lamps - A, G, PS and Similar Shapes with E26 Medium Screw Bases ANSI C78.20:2003	
				Electric Lamps - PAR and R Shapes ANSI C78.21-2011	
13	Lamps(Solid State Lighting Lamps - Omnidirectional and Decorative)	1	Efficacy	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		2	Light Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		3	Luminous Intensity Distribution	ENERGY STAR® Lamp Center Beam Intensity Benchmark Tool for the referenced incandescent lamp	
		4	Correlated Color Temperature (CCT)	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		5	Color Rendering	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		6	Color Maintenance	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
Measuring Lumen Maintenance of LED Light Sources IESLM-80-08					



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IESLM-84-14	
		7	Color Angular Uniformity	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08 Measuring Lumen Maintenance of LED Light Sources IESLM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IESLM-84-14	
		8	Lumen Maintenance	Life Testing of Compact Fluorescent Lamps IES LM-65-14 Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
		9	Rated Life	Life Testing of Compact Fluorescent Lamps IES LM-65-14 Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14 Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
		10	Electrical Safety	Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2012	
		11	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment ANSI C82.77-10-2014	
		12	Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		13	Start Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		14	Transient Protection	IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits IEEE ANSI C62.41.2-2002	
		15	Standby Power Consumption	IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits IEEE ANSI C62.41.2-2002	
		16	Dimming Performance-Maximum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		17	Dimming Performance-Minimum Light Output	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Output on a Dimmer	
		18	Dimming Performance-Flicker	ENERGY STAR® Program Requirements Product Specification for Lamps: Light Source Flicker	
		19	Dimming Performance-Audible Noise	ENERGY STAR® Program Requirements For Lamps and Luminaires Test Method - Noise	
		20	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
		21	Lamp Shape Dimensions	Electric Lamps - A, G, PS and Similar Shapes with E26 Medium Screw Bases ANSI C78.20:2003 Electric Lamps - PAR and R Shapes ANSI C78.21-2011	
14	Luminaires (Light Fixtures)	1	Luminous Efficacy and Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-9-09	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-9-09	
		2	Correlated Color Temperature (CCT): All Indoor Luminaires	Approved Method for Photometric Testing of Indoor Fluorescent Luminaires IES LM-41-14	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Photometric Testing of Outdoor Fluorescent Luminaires (2015 update anticipated) IES LM-10-1996	
		3	Correlated Color Temperature (CCT): All Indoor Luminaires	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
				Colorimetry CIE 15.2004	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		4	Color Rendering Index: All Indoor Luminaires	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
				Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Method of Measuring and Specifying Colour Rendering Properties of Light Sources (E) CIE 13.3-1995	



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№	Test Object	Item/Parameter		Standard or Method	Note	
		№	Item/ Parameter			
		5	Color Angular Uniformity: All Indoor Luminaires	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08		
				Method for Spectroradiometric Measurement Methods for Light Sources IES LM-58-13		
				Colorimetry CIE 15.2004		
		6	Lumen Maintenance		Life Testing of Fluorescent Lamps IES LM-40-10	
					Electric and Photometric Measurements of Fluorescent Lamps IES LM-09-09	
					Life Testing of Compact Fluorescent Lamps IES LM-65-14	
					Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
					Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11	
					Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
					Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
		7	Light Source Life		Life Testing of Fluorescent Lamps IES LM-40-10	
					Life Testing of Compact Fluorescent Lamps IES LM-65-14	
		8	Color Maintenance: Indoor Luminaires		Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
					Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		9	Source Start Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	
		10	Source Run-Up Time	ENERGY STAR® Program Requirements For Lamps and Luminaires Run-Up Time Test Method	
		11	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment C82.77-10:2014	
		12	Transient Protection	IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits ANSI/IEEE C62.41.1-2002	
				IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits ANSI/IEEE C62.41.2-2002	
		13	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301-2011	
		14	Standby Power Consumption	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		15	Light Source Replaceability	Lampholders for Electric Lamps ANSI/IEC C81.62-2009	
				Recommendations for Solid State Lighting Sub-Assembly Interfaces for Luminaires NEMA LSD 45-2009	
		16	Ballast/Driver Replaceability		
		17	Maximum Measured Ballast or Driver Case Temperature	Standard for Safety of Portable Electric Luminaires ANSI/UL 153:2002 (Sections 124-128A)	
				Standard for Safety of Track Lighting Systems ANSI/UL 1574:2004 (Section 54)	



№	Test Object	Item/Parameter		Standard or Method	Note	
		№	Item/ Parameter			
		18	Recessed Downlight Thermal Performance	Standard for Safety of Luminaires ANSI/UL 1598:2008 (Sections 19.7, 19.10-16)		
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014		
				Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen ASTM E283-04		
		19	Indoor Luminaire Safety: Portable Luminaires		Standard for Safety of Portable Electric Luminaires ANSI/UL 153-2002	
					Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
					Standard for Safety of Track Lighting Systems ANSI/UL 1574-2004	
					Standard for Safety of Luminaires ANSI/UL 1598-2008	
					Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
					Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014	
		20	Electronic Ballast or Driver Safety		Standard for Safety of Fluorescent-Lamp Ballasts ANSI/UL 935-2009	
					Standard for Safety of Class 2 Power Units ANSI/UL 1310-2010	
					Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2009	
					Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
					Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
		21	Dimming		Phase Cut Dimming for Solid State Lighting: Basic Compatibility NEMA SSL 7A-2013	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		22	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
15	Fluorescent Luminaires(Non-Directional Luminaires)	1	Luminous Efficacy and Output	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
		2	Correlated Color Temperature (CCT): All Indoor Luminaires	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09	
				Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps IES LM-66-14	
				Colorimetry CIE 15.2004	
		3	Color Rendering Index: All Indoor Luminaires	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09	
				IES LM-66-14 IES LM-66-14	
				Method of Measuring and Specifying Colour Rendering Properties of Light Sources (E) CIE 13.3-1995	
		4	Lumen Maintenance	Life Testing of Fluorescent Lamps IES LM-40-10	
				Electric and Photometric Measurements of Fluorescent Lamps IES LM-09-09	
				Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				IES LM-66-14 IES LM-66-14	
		5	Light Source Life	Life Testing of Fluorescent Lamps IES LM-40-10	
				Life Testing of Compact Fluorescent Lamps IES LM-65-14	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		6	Source Start Time	ENERGY STAR® Program Requirements for Lamps and Luminaires Start Time Test Method	
		7	Source Run-Up Time	ENERGY STAR® Program Requirements For Lamps and Luminaires Run-Up Time Test Method	
		8	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment C82.77-10:2014	
		9	Transient Protection	IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits ANSI/IEEE C62.41.1-2002	
				IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits ANSI/IEEE C62.41.2-2002	
		10	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301-2011	
		11	Operating Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		12	Maximum Measured Ballast or Driver Case Temperature	Lampholders for Electric Lamps ANSI/IEC C81.62-2009	
				Recommendations for Solid State Lighting Sub-Assembly Interfaces for Luminaires NEMA LSD 45-2009	
		13	Recessed Downlight Thermal Performance		
		14	Indoor Luminaire Safety: Portable Luminaires	Standard for Safety of Portable Electric Luminaires ANSI/UL 153-2002	
				Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	



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№	Test Object	Item/Parameter		Standard or Method	Note		
		№	Item/ Parameter				
				Standard for Safety of Track Lighting Systems ANSI/UL 1574-2004			
				Standard for Safety of Luminaires ANSI/UL 1598-2008			
				Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004			
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014			
		15	Electronic Ballast or Driver Safety			Standard for Safety of Fluorescent-Lamp Ballasts ANSI/UL 935-2009	
						Standard for Safety of Class 2 Power Units ANSI/UL 1310-2010 Class 2	
						Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2009	
						Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
						Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
		16	Dimming			Phase Cut Dimming for Solid State Lighting: Basic Compatibility NEMA SSL 7A-2013	
		17	Lamp Toxics Reduction			Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
16	Fluorescent Luminaires(Directional Luminaires)	1	Luminous Efficacy, Output and Zonal Lumen Density	Approved Method for Photometric Testing of Indoor Fluorescent Luminaires IES LM-41-14			
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08			
				Photometric Testing of Outdoor Fluorescent Luminaires (2015 update anticipated) IES LM-10-2015			
		2	Correlated Color Temperature (CCT): All Indoor Luminaires		Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09		



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				IES LM-66-14 IES LM-66-14	
				Colorimetry CIE 15.2004	
		3	Color Rendering Index: All Indoor Luminaires	Electric and Photometric Measurements of Fluorescent Lamps IES LM-9-09 IES LM-66-14 IES LM-66-14	
				Method of Measuring and Specifying Colour Rendering Properties of Light Sources (E) CIE 13.3-1995	
		4	Lumen Maintenance	Life Testing of Fluorescent Lamps IES LM-40-10	
				Electric and Photometric Measurements of Fluorescent Lamps IES LM-09-09	
				Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				IES LM-66-14 IES LM-66-14	
		5	Light Source Life	Life Testing of Fluorescent Lamps IES LM-40-10	
				Life Testing of Compact Fluorescent Lamps IES LM-65-14	
		6	Source Start Time	ENERGY STAR Start Time Test	
		7	Source Run-Up Time	ENERGY STAR Run-Up Time Test	
		8	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment C82.77-10:2014	
		9	Transient Protection	IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits ANSI/IEEE C62.41.1-2002	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits ANSI/IEEE C62.41.2-2002	
		10	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301-2011	
		11	Operating Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		12	Maximum Measured Ballast or Driver Case Temperature	Standard for Safety of Portable Electric Luminaires ANSI/UL 153:2002 (Sections 124-128A)	
				ANSI/UL 1574:2004 (Section 54) ANSI/UL 1574:2004 (Section 54)	
				Standard for Safety of Track Lighting Systems ANSI/UL 1598:2008 (Sections 19.7, 19.10-16)	
		13	Recessed Downlight Thermal Performance	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen ASTM E283-04	
		14		Standard for Safety of Portable Electric Luminaires ANSI/UL 153-2002	
				Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
				Standard for Safety of Track Lighting Systems ANSI/UL 1574-2004	
				Standard for Safety of Luminaires ANSI/UL 1598-2008	
				Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014	
		15	Electronic Ballast or Driver Safety	Standard for Safety of Fluorescent-Lamp Ballasts ANSI/UL 935-2009	



№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Standard for Safety of Class 2 Power Units ANSI/UL 1310-2010 Class 2	
				Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2009	
				Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
				Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
		16	Dimming	Phase Cut Dimming for Solid State Lighting: Basic Compatibility NEMA SSL 7A-2013	
		17	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
17	Fluorescent Subcomponents (Lamps and Ballasts)	1	Light Source Replaceability	Lampholders for Electric Lamps ANSI/IEC C81.62-2009	
				Recommendations for Solid State Lighting Sub-Assembly Interfaces for Luminaires NEMA LSD 45-2009	
		2	Ballast/Driver Replaceability		
18	Solid State Luminaires(Non-directional Luminaires and Subcomponents)	1	Luminous Efficacy and Output	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		2	Correlated Color Temperature (CCT): All Indoor Luminaires	Colorimetry CIE 15.2004	
				Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	



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№	Test Object	Item/Parameter		Standard or Method	Note	
		№	Item/ Parameter			
		3		Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12		
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08		
				Method of Measuring and Specifying Colour Rendering Properties of Light Sources (E) CIE 13.3-1995		
		4	Lumen Maintenance		Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
					Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11	
					Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
					Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
					Colorimetry CIE 15.2004	
		5	Light Source Life		Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11	
					Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
		6	Color Maintenance: Indoor Luminaires		Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
					Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
		7	Source Start Time		ENERGY STAR Start Time Test	
		8	Power Factor		Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment C82.77-10:2014	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		9	Transient Protection	IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits ANSI/IEEE C62.41.1-2002	
				IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits ANSI/IEEE C62.41.2-2002	
		10	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301-2011	
		11	Operating Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		12	Light Source Replaceability	Lampholders for Electric Lamps ANSI/IEC C81.62-2009	
				Recommendations for Solid State Lighting Sub-Assembly Interfaces for Luminaires NEMA LSD 45-2009	
		13	Ballast/Driver Replaceability		
		14	Maximum Measured Ballast or Driver Case Temperature	Standard for Safety of Portable Electric Luminaires ANSI/UL 153:2002 (Sections 124-128A)	
				Standard for Safety of Track Lighting Systems ANSI/UL 1574:2004 (Section 54)	
				Standard for Safety of Luminaires ANSI/UL 1598:2008 (Sections 19.7, 19.10-16)	
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014	
		15	Recessed Downlight Thermal Performance	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen ASTM E283-04	
		16	Indoor Luminaire Safety: Portable Luminaires	Standard for Safety of Portable Electric Luminaires ANSI/UL 153-2002	
Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009					



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№	Test Object	Item/Parameter		Standard or Method	Note		
		№	Item/ Parameter				
				Standard for Safety of Track Lighting Systems ANSI/UL 1574-2004			
				Standard for Safety of Luminaires ANSI/UL 1598-2008			
				Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004			
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014			
		17	Electronic Ballast or Driver Safety			Standard for Safety of Fluorescent-Lamp Ballasts ANSI/UL 935-2009	
						Standard for Safety of Class 2 Power Units ANSI/UL 1310-2010 Class 2	
						Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2009	
						Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
						Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
		18	Dimming			Phase Cut Dimming for Solid State Lighting: Basic Compatibility NEMA SSL 7A-2013	
19	Lamp Toxics Reduction			Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554			
19	Solid State Luminaires(Direction al Luminaires)	1	Luminous Efficacy, Output and Zonal Lumen Density	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08			
				Colorimetry CIE 15.2004			
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08			
		2	Correlated Color Temperature (CCT): All Indoor Luminaires				



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		3	Color Rendering Index: All Indoor Luminaires	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		4	Color Angular Uniformity: All Indoor Luminaires	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Method for Spectroradiometric Measurement Methods for Light Sources IES LM-58-13	
				Colorimetry CIE 15.2004	
		5	Lumen Maintenance	Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
				Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
				Colorimetry CIE 15.2004	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		6	Light Source Life	Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11	
				Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires IES TM-28-14	
		7	Color Maintenance: Indoor Luminaires	Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
		8	Source Start Time	ENERGY STAR Start Time Test	
		9	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment C82.77-10:2014	
		10	Transient Protection	IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits ANSI/IEEE C62.41.1-2002	
				IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits ANSI/IEEE C62.41.2-2002	
		11	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301-2011	
		12	Operating Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		13	Light Source Replaceability	Lampholders for Electric Lamps ANSI/IEC C81.62-2009	
		14			
		15		Standard for Safety of Portable Electric Luminaires ANSI/UL 153:2002 (Sections 124-128A)	
				Standard for Safety of Track Lighting Systems ANSI/UL 1574:2004 (Section 54)	



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№	Test Object	Item/Parameter		Standard or Method	Note	
		№	Item/ Parameter			
		16	Recessed Downlight Thermal Performance	Standard for Safety of Luminaires ANSI/UL 1598:2008 (Sections 19.7, 19.10-16)		
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014		
				Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen ASTM E283-04		
		17	Indoor Luminaire Safety: Portable Luminaires		Standard for Safety of Portable Electric Luminaires ANSI/UL 153-2002	
					Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
					Standard for Safety of Track Lighting Systems ANSI/UL 1574-2004	
					Standard for Safety of Luminaires ANSI/UL 1598-2008	
					Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
					Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014	
		18	Electronic Ballast or Driver Safety		Standard for Safety of Fluorescent-Lamp Ballasts ANSI/UL 935-2009	
					Standard for Safety of Class 2 Power Units ANSI/UL 1310-2010 Class 2	
					Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2009	
					Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
					Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
		19	Dimming		Phase Cut Dimming for Solid State Lighting: Basic Compatibility NEMA SSL 7A-2013	



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		№	Item/ Parameter		
		20	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
20	SSL Retrofit Kits	1	Luminous Efficacy and Output	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		2	Luminous Efficacy, Output and Zonal Lumen Density	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		3		Colorimetry CIE 15.2004	
				Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		4	Color Rendering Index: All Indoor Luminaires	Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature IES LM-82-12	
				Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Method of Measuring and Specifying Colour Rendering Properties of Light Sources (E) CIE 13.3-1995	
		5	Color Angular Uniformity: All Indoor Luminaires	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
				Method for Spectroradiometric Measurement Methods for Light Sources IES LM-58-13	
				Colorimetry CIE 15.2004	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		6	Lumen Maintenance	Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
				Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
				Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
				Colorimetry CIE 15.2004	
		7	Light Source Life	Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11	
				Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
		8	Color Maintenance: Indoor Luminaires	Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
				Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14	
		9	Source Start Time	ENERGY STAR Start Time Test	
		10	Power Factor	Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment C82.77-10:2014	
		11	Transient Protection	IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits ANSI/IEEE C62.41.1-2002	
IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits ANSI/IEEE C62.41.2-2002					
12	Standby Power Consumption	Household electrical appliances - Measurement of standby power IEC 62301-2011			



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		13	Operating Frequency	IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers	
		14	Light Source Replaceability	Lampholders for Electric Lamps ANSI/IEC C81.62-2009 Recommendations for Solid State Lighting Sub-Assembly Interfaces for Luminaires NEMA LSD 45-2009	
		15	Ballast/Driver Replaceability		
		16	Maximum Measured Ballast or Driver Case Temperature	Standard for Safety of Portable Electric Luminaires ANSI/UL 153:2002 (Sections 124-128A)	
				Standard for Safety of Track Lighting Systems ANSI/UL 1574:2004 (Section 54)	
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014	
		17	Recessed Downlight Thermal Performance	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen ASTM E283-04	
		18	Indoor Luminaire Safety: Portable Luminaires	Standard for Safety of Portable Electric Luminaires ANSI/UL 153-2002	
				Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
				Standard for Safety of Track Lighting Systems ANSI/UL 1574-2004	
				Standard for Safety of Luminaires ANSI/UL 1598-2008	
				Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
				Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits ANSI/UL 1598C-2014	
		19	Electronic Ballast or Driver Safety	Standard for Safety of Fluorescent-Lamp Ballasts ANSI/UL 935-2009	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Standard for Safety of Class 2 Power Units ANSI/UL 1310-2010 Class 2	
				Standard for Safety of Self-Ballasted Lamps and Lamp Adapters ANSI/UL 1993-2009	
				Standard for Low-Voltage Lighting Systems ANSI/UL 2108-2004	
				Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products ANSI/UL 8750-2009	
		20	Dimming	Phase Cut Dimming for Solid State Lighting: Basic Compatibility NEMA SSL 7A-2013	
		21	Lamp Toxics Reduction	Sample Preparation for Measurement of Mercury Level in Fluorescent Lamps IEC 62554	
21	LED Package, Array, Module Lumen Maintenance Testing	1	Luminous Efficacy and Output	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		2	Luminous Efficacy, Output and Zonal Lumen Density	Electrical and Photometric Measurements of Solid-State Lighting Products IES LM-79-08	
		3	Lumen Maintenance	Life Testing of Fluorescent Lamps IES LM-40-10	
				Electric and Photometric Measurements of Fluorescent Lamps IES LM-09-09	
				Life Testing of Compact Fluorescent Lamps IES LM-65-14	
				IES LM-66-14 IES LM-66-14	
				Measuring Lumen Maintenance of LED Light Sources IES LM-80-08	
Projecting Long Term Lumen Maintenance of LED Sources IES TM-21-11					
Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires IES LM-84-14					



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries IES TM-28-14	
				Colorimetry CIE 15.2004	

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