



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

BELL-SOUTHCHN TESTING LABORATORY

FIRST FLOOR, HUAXIA BUILDING, NO. 116, JIANGMU ROAD,
JIANGHAI DISTRICT, JIANGMEN CITY,
GUANDONG PROVINCE 529000, PEOPLE'S REPUBLIC OF CHINA
Testing Laboratory TL-525

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date November 29, 2024



International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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BELL-SOUTHCN TESTING LABORATORY

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Accredited to ISO/IEC 17025:2017

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Lighting/Electrical	
ANSI C78.5	Specifications for Performance of Self-Ballasted Compact Fluorescent Lamps
ANSI C78.20	Electric Lamps – A, G, PS and Similar Shapes with E26 Medium Screw Bases
ANSI C78.21	Electric Lamps – PAR and R Shapes
ANSI C78.23	Incandescent Lamps – Miscellaneous Types
ANSI C78.50	Electric Lamps – Assigned LED Lamp Codes
ANSI C78.52	Electric Lamps—LED (Light Emitting Diode) Direct Replacement Lamps—Method of Designation
ANSI C78.54	Electric Lamps—Specification Sheet for Tubular Fluorescent Replacement and Retrofit LED Lamps
ANSI C78.79	Electric Lamps – Nomenclature for Envelope Shapes Intended for Use with Electric Lamps
ANSI C78.81	Double- Capped Fluorescent Lamps—Dimensional and Electrical Characteristics
ANSI C78.357	For Incandescent Lamps: Tungsten Halogen Lamps (non-vehicle)
ANSI C78.375	American National Standard for Fluorescent Lamps – Guide for Electrical Measurements
ANSI C78.376	Electric Lamps – Specifications for the Chromaticity of Fluorescent Lamps
ANSI C78.377	Chromaticity of Solid State Lighting (SSL) Products
ANSI C78.379	Electric Lamps Classification of the Beam Pattern of Reflector Lamps
ANSI C78.389	Electric Lamps, High Intensity Discharge, Methods of Measuring Characteristics
ANSI C78.901	Single-Based Fluorescent Lamps—Dimensional and Electrical Characteristics
ANSI C78.62612	Electric Lamps— Self-Ballasted LED Lamps—Performance Specifications
ANSI C78.62717	Electric Lamps— LED Modules for General Lighting—Performance Requirements
ANSI C81.61	Electrical Lamp Bases—Specifications for Bases (Caps) for Electric Lamps
ANSI C81.62	Electric Lampholders

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ANSI C82.2	Fluorescent Lamp Ballasts – Methods of Measurement
ANSI C82.6	Ballast for High Intensity Discharge Lamps – Methods of Measurement
ANSI C82.11	High-Frequency Fluorescent Lamp Ballasts
ANSI C82.16	Light-Emitting Diode Drivers— Methods of Measurement
ANSI C82.77	Harmonic Emission Limits – Related Power Quality Requirements for Lighting
ANSI C136.2	Roadway and Area Lighting Equipment—Dielectric Withstand and Electrical Transient Immunity Requirements
ANSI C136.4	Roadway and Area Lighting Equipment—Series Sockets and Series-Socket Receptacles
ANSI C136.10	Roadway and Area Lighting Equipment—Locking-Type Photocontrol Devices and Mating Receptacles—Physical and Electrical Interchangeability and Testing
ANSI C136.16	Roadway and Area Lighting Equipment—Enclosed, Post Top—Mounted Luminaires
ANSI C136.18	Roadway and Area Lighting Equipment—High-Mast Side-Mounted Luminaires
ANSI C136.25	Roadway and Area Lighting Equipment—Ingress Protection (Resistance to Dust, Solid Objects and Moisture) for Luminaire Enclosures
ANSI C136.31	Roadway and Area Lighting Equipment—Luminaire Vibration
ANSI C136.37	Solid State Light Sources Used in Roadway and Area Lighting
ANSI C136.40	Roadway and Area Lighting Equipment—Solar Lighting Systems
ANSI C136.41	Roadway and Area Lighting Equipment-Dimming Control Between an External Locking Type Photocontrol and Ballast or Driver
ANSI C136.48	Roadway and Area Lighting Equipment—Wireless Networked Lighting Controllers
ANSI C137.1	Lighting Systems— 0-10V Dimming Interface for LED Drivers, Fluorescent Ballasts, and Controls
ANSI C137.3	Minimum Requirements for installation of Energy Efficient Power over Ethernet (PoE) Lighting Systems
ANSI C137.4	Lighting Systems— Digital Interface with Auxiliary Power
ANSI E1.9	Reporting Photometric Performance Data for Luminaires Used in Entertainment
ANSI E1.24	Entertainment Technology - Dimensional Requirements for Stage Pin Connectors
ANSI E1.25	Recommended Basic Conditions for Measuring the Photometric Output of Stage and Studio Luminaires by Measuring Illumination Levels Produced on a Planar Surface
ANSI E1.35	Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use
ANSI E1.48	A Recommended Luminous Efficiency Function for Stage and Studio Luminaire Photometry

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ANSI E1.50-1	Structural Support of Temporary LED, Video & Display Systems
ANSI E1.53	Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice
ANSI E1.54	Color Communication in Entertainment Lighting
ANSI E1.55	Theatrical Makeup Mirror Lighting
ANSI/IEEE C62.41.2	Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits
ANSI/UL 153	Portable Electric Luminaires
ANSI/UL 588	Seasonal and Holiday Decorative Products
ANSI/UL 935-2010	Fluorescent-Lamp Ballasts
ANSI/UL 1029	High-Intensity-Discharge Lamp Ballasts
ANSI/UL 1310	Class2 Power Units
ANSI/UL 1574	Track Lighting Systems
ANSI/UL 1598	Luminaires
ANSI/UL 1598C	Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits
ANSI/UL 1993	Self-Ballasted Lamps and Lamp Adapters
ANSI/UL 2108	Low-Voltage Lighting Systems
ANSI/UL 8750	Light Emitting Diode (LED) Equipment for Use in Lighting Products
AS 1680.3	Interior lighting - Measurement, calculation and presentation of photometric data
AS 2560.1	Sports lighting General principles
AS 60238	Edison screw lampholders
AS 60529	Degrees of protection provided by enclosures (IP Code)
AS 61184	Bayonet lampholders
AS/NZS 2293-1	Emergency lighting and exit signs for buildings System design, installation and operation
AS/NZS 2293-3	Emergency lighting and exit signs for buildings - Emergency luminaires and exit signs
AS/NZS 3112	Approval and test specification-Plugs and socket-outlets
AS/NZS 3117	Approval and test specification - Bayonet lampholders
AS/NZS 3119	Approval and test specification - Lampholder adaptors
AS/NZS 3120	Approval and test specification-Cord extension sockets
AS/NZS 3140	Approval and test specification - Edison screw lampholders
AS/NZS 3199	Approval and test specification-Cord extension sets
AS/NZS 4665.1	Performance of external power supplies Part 1: Test method and energy performance mark

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AS/NZS 4847.1	Self ballasted lamps for general lighting services – Part 1: Test methods – Energy performance
AS/NZS 4879.1	Performance of transformers and electronic step-down convertors for ELV lamps - Part 1: Test method - Energy performance
AS/NZS 4879.2	Performance of transformers and electronic step-down convertors for ELV lamps - Part 2: Minimum Energy Performance Standards (MEPS) requirements
AS/NZS 4934.1	Incandescent lamps for general lighting service Part 1: Test methods—Energy performance
AS/NZS 4934.2	Incandescent lamps for general lighting services Part 2: Minimum Energy Performance Standards (MEPS) requirements
AS/NZS 60065	Audio, video and similar electronic apparatus - Safety requirements
AS/NZS 60598-1	Luminaires - General requirements and tests
AS/NZS 60598-2-1	Luminaires - Particular requirements - Fixed general purpose luminaire
AS/NZS 60598-2-2	Luminaires - Particular requirements - Recessed luminaires
AS/NZS 60598-2-3	Luminaires - Particular requirements - Luminaires for road and street lighting
AS/NZS 60598-2-4	Luminaires - Particular requirements - Portable general purpose luminaires
AS/NZS 60598-2-5	Luminaires Particular requirements - Floodlights
AS/NZS 60598-2-7	Luminaires - Particular requirements - Portable luminaires for garden use
AS/NZS 60598-2-8	Luminaires - Particular requirements - Handlamps
AS/NZS 60598-2-10	Luminaires - Particular requirements - Portable luminaires for children
AS/NZS 60598-2-12	Luminaires - Particular requirements - Mains socket-outlet mounted night lights
AS/NZS 60598-2-17	Luminaires Particular requirements - Luminaires for stage lighting, television and film studios
AS/NZS 60598-2-18	Luminaires Particular requirements - Luminaires for swimming pools and similar applications
AS/NZS 60598-2-19	Luminaires - Particular requirements - Air handling luminaires
AS/NZS 60598-2-20	Luminaires Particular requirements - Lighting chains
AS/NZS 60598-2-21	Luminaires Particular requirements - Rope lights
AS/NZS 60598-2-22	Luminaires – Particular requirements - Luminaires for emergency lighting
AS/NZS 60950-1	Information technology equipment - Safety - Part 1: General requirements
AS/NZS 61347-1	Lamp controlgear - General and safety requirements
AS/NZS 61347-2-11	Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
AS/NZS 61347-2-13	Lamp controlgear - Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules

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AS/NZS 62368-1	Audio/video, information and communication technology equipment - Safety requirements
AS/NZS 62560	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications
AS/SNZ TS1158.6	Lighting for roads and public spaces Part 6: Luminaires—Performance
ASTM E283/E283M	Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
ASTM G154	Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
Brazil Inmetro's Ordinance-No.144/2015	Conformity Evaluation Requirements For LED Lamps With Device Integrated Onto The Base
Brazil Inmetro Regulation-No. 389/2014	Technical Regulation of Quality For Self-Ballasted LED lamps
No.20/2017	Technical Regulation of Quality For Street Lighting Fixtures
CIE 13.3	Method of Measuring and Specifying Color Rendering of Light Sources
CIE 15	Colorimetry Standard
CIE 63	The Spectroradiometric Measurement of Light Sources
CIE 70	The Measurement of Absolute Luminous Intensity Distributions;
CIE 84	The Measurement of Luminous Flux
CIE 121	The Photometry and Goniophotometry of Luminaires
CIE 121-SP1	The Photometry and Goniophotometry of Luminaires, Supplement 1: Luminaires for Emergency Lighting
CIE 127	Measurement of LEDs
CIE 177	Colour Rendering of White LED Light Sources
CIE 188	Performance assessment method for vehicle headlighting system
CIE 189	Calculation of tunnel lighting quality criteria
CIE 190	Calculation and Presentation of United Glare Rating Tables for Indoor Lighting Luminaires
CIE 193	Emergency Lighting in Road Tunnels
CIE 194	On Site Measurement of the Photometric Properties of Road and Tunnel Lighting
CIE 225	Optical Measurement of High-Power LEDs
CIE 226	High-Speed Testing Methods for LEDs
CIE 235	Optical Measurement of LED Modules and Light Engines
CIE S 008	Lighting of Work Places - Part 1: Indoor

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CIE S 015	Lighting of outdoor work places
CIE S 016	Lighting of Work Places - Part 3: Lighting Requirements for Safety and Security of Outdoor Work Places
CIE S 020	Emergency Lighting
CIE S 025	Test Method for LED Lamps, LED Luminaires and LED Modules
CSA C22.2 NO. 107.1	General Use Power Supplies
CSA C22.2 NO. 166	Stage and Studio Luminaires
CSA C22.2 NO. 1993	Self-Ballasted Lamps and Lamp Adapters
CSA C22.2 NO. 223	Power Supplies with Extra-Low-Voltage Class 2 Outputs
CSA C22.2 NO. 250.0	Luminaires
C22.2 No. 250.1	Retrofit kits for luminaire conversion
CSA C22.2 NO. 250.4	Portable Luminaires
CSA C22.2 NO. 250.7	Extra Low Voltage Landscape Lighting Systems
CSA C22.2 NO. 250.13	Light Emitting Diode (LED) Equipment for Lighting Applications
CSA C22.2 NO. 37	Decorative: Lighting Products
CSA C22.2 NO. 9.0	General Requirements for Luminaires
CSA-C381.1	Energy performance of external ac-dc and ac-ac power supplies
CSA-C381.2	Energy performance of battery-charging systems and uninterruptible power supplies
CSA-C382	Energy performance of televisions and displays
CSA-C383	Energy performance of displays
CSA C653	Photometric performance of roadway and street lighting luminaires
CSA-C654	Fluorescent lamp ballast efficacy measurements
CSA-C62301	Household electrical appliances – Measurement of standby power
CSA-C811	Performance of high mast luminaires for roadway lighting
CSA-C812	Energy performance of large battery charger systems
CSA-C819	Performance of general service fluorescent lamps
CSA-C860	Performance of internally lighted exit signs
CSA-C861	Performance of self-ballasted compact fluorescent lamps and ballasted adapters
CSA-C862	Performance of incandescent reflector lamps
CSA-C871	Performance of LED replacement lamps
CSA C881	Performance of general service integrated lamps

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DOE 10 CFR 429	Certification, Compliance, and Enforcement for Consumer Products and Commercial and Industrial Equipment
DOE 10 CFR 430	<p>Energy Conservation Program for Consumer Products:</p> <p>Appendix Q to Subpart B: Uniform Test Method for Measuring the Energy Consumption of Fluorescent Lamp Ballasts</p> <p>Appendix R to Subpart B: Uniform Test Method for Measuring Average Lamp Efficacy (LE), Color Rendering Index (CRI), and Correlated Color Temperature (CCT) of Electric Lamps</p> <p>Appendix V to Subpart B: Uniform Test Method for Measuring the Energy Consumption of Ceiling Fan Light Kits With Pin-Based Sockets for Fluorescent Lamps</p> <p>Appendix V1 to Subpart B: Uniform Test Method for Measuring the Energy Consumption of Ceiling Fan Light Kits Packaged With Other Fluorescent Lamps (not Compact Fluorescent Lamps or General Service Fluorescent Lamps), Packaged With Other SSL Lamps (not Integrated LED Lamps), or With Integrated SSL Circuitry</p> <p>Appendix W to Subpart B: Uniform Test Method for Measuring the Energy Consumption of Medium Base Compact Fluorescent Lamps (81 FR 59385)</p> <p>Appendix Y to Subpart B: Uniform Test Method for Measuring the Energy Consumption of Battery Chargers</p> <p>Appendix Z to Subpart B: Uniform Test Method for Measuring the Energy Consumption of External Power Supplies</p> <p>Appendix BB to Subpart B: Uniform Test Method for Measuring the Input Power, Lumen Output, Lamp Efficacy, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Power Factor, Time to Failure, and Standby Mode Power of Integrated Light-Emitting Diode (LED) Lamps (81 FR 43403)</p> <p>Appendix DD to Subpart B: Uniform Test Method for Measuring the Energy Consumption and Energy Efficiency of General Service Lamps That Are Not General Service Incandescent Lamps, Compact Fluorescent Lamps, or Integrated LED Lamps Appendix Y to</p>
EN 12464-1	Light and lighting - Lighting of work places - Part 1: Indoor work places
EN 12464-2	Light and lighting - Lighting of work places - Part 2: Outdoor work places
EN 13032-1	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 1: Measurement and file format
EN 13032-2	Light And Lighting - Measurement And Presentation Of Photometric Data Of Lamps And Luminaires - Part 2: Presentation Of Data For Indoor And Outdoor Work Place

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EN 13032-3	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires – Part 3: Presentation of data for emergency lighting of work places
EN 13032-4	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 4: LED lamps, modules and luminaires
EN 15193-1	Energy Performance Of Buildings - Energy Requirements For Lighting - Part 1: Specifications, Module M9
CEN/TR 15193-2	Energy Performance Of Buildings - Energy Requirements For Lighting - Part 2: Explanation And Justification Of En 15193-1, Module M9
EN 50075	Flat Non-Wirable Two-Pole Plugs, 2,5 A 250 V, with Cord, for the Connection of Class II-Equipment for Household and Similar Purposes
EN/IEC 60081	Double-capped fluorescent lamps – Performance specifications
EN/IEC 60598-1	Luminaires - Part 1: General requirements and tests
EN/IEC 60598-2-1	Luminaires. Part 2: Particular requirements. Section One: Fixed general purpose luminaires
EN/IEC 60598-2-2	Luminaires - Part 2-2: Particular requirements - Recessed luminaires
EN/IEC 60598-2-3	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting
EN/IEC 60598-2-4	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires
EN/IEC 60598-2-5	Luminaires - Part 2-5: Particular requirements - Floodlights
EN/IEC 60598-2-7	Luminaires. Part 2: Particular requirements. Section Seven: Portable luminaires for garden use
EN/IEC 60598-2-8	Luminaires- Part 2-8: Particular requirements – Handlamps
EN/IEC 60598-2-10	Luminaires - Part 2-10: Particular requirements – Portable Luminaires for children
EN/IEC 60598-2-11	Luminaires - Part 2-11: Particular requirements – Aquarium luminaires
EN/IEC 60598-2-12	Luminaires - Part 2-12: Particular requirements - Mains socket-outlet mounted nightlights
EN/ IEC 60598-2 -13	Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires
EN/IEC 60598-2-17	Luminaires. Part 2: Particular requirements. Section Seventeen - Luminaires for stage lighting, television and film studios (outdoor and indoor)
EN/IEC 60598-2-18	Luminaires - Part 2: Particular requirements - Section 18: Luminaires for swimming pools and similar applications
EN/IEC 60598-2-19	Luminaires. - Part 2: Particular requirements. Section 19: Air-handling luminaires
EN/IEC 60598-2-22	Luminaires - Particular requirements -Luminaires for emergency lighting
EN/IEC 60598-2-24	Luminaires - Part 2-24: Particular requirements - Luminaires with limited surface temperatures

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EN/ IEC 60598-20	Luminaires Particular requirements - Lighting chains
EN/ IEC 60598-21	Luminaires Particular requirements - Rope lights
EN/IEC 60809	Lamps for road vehicles - Dimensional, electrical and luminous requirements
EN/IEC 60810	Lamps, light sources and LED packages for road vehicles - Performance requirements
EN/IEC 60901	Single-capped fluorescent lamps - Performance specifications
EN/IEC 60969	Self-ballasted lamps for general lighting services - Performance requirements
EN 61341	Method of measurement of centre beam intensity and beam angle(s) of reflector lamps
EN/IEC 61347-2-3	Lamp controlgear -Part 2-3: Particular Requirements for A.C. Supplied Electronic Ballasts for Fluorescent Lamps
EN/IEC 62612	Self-ballasted LED-lamps for general lighting services –Performance requirements
Energy Conservation 2021 No. 1095	The Eco-design for Energy-Related Products and Energy Information (Lighting Products) Regulations 2021
ENERGY STAR Program Requirements for Lighting (except Electromagnetic and Radio Frequency Interference and Mercury Content)	
EPA Ceiling Fan	ENERGY STAR Ceiling Fans and Ceiling Fan Light Kits Version 4.0 Program Requirements
EPA CFL	ENERGY STAR Elevated Temperature Test Procedure
EPA Displays	ENERGY STAR Test Method for Display – Rev. May – 2019 International Committee for Display Metrology (ICDM) Information Display Measurements Standard – Version 1.03
EPA DLS	ENERGY STAR Program Requirements for Decorative Light Strings
EPA Lamp	Ambient Temperature Life Test Method EPA Lamp Elevated Temperature Life Test Method
EPA Lamp	Elevated Temperature Light Output Ratio Test Method
EPA Lamp	Recommended Practice - Light Output on a Dimmer
EPA Lamp	Recommended Practice - Light Source Flicker
EPA Lamp	ENERGY STAR Program Requirements for Lamps (Light Bulbs)
EPA Luminaires	ENERGY STAR Program Requirements Product Specification for Luminaires (Light Fixtures)
EPA Lamp/Luminaires	Noise Test Method
EPA Lamp/ Luminaires	Run-up Time Test Method
EPA Lamp/Luminaires	Start Time Test Method
Ventilating Fans	ENERGY STAR Residential Ventilating Fans V4.1 Program Requirements
EU 2019/2015	Energy labelling of light sources and repealing Regulation (EU) No 874/2012

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EU 2019/2020	Eco-design requirements for light sources and repealing Regulation (EU) 1194/2012
IEC 60065	Audio, video and similar electronic apparatus - Safety requirements
IEC 60068-2-5	Environmental testing - Part 2-5: Tests - Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering
IEC 60068-2-6	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)
IEC 60068-2-11	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist
IEC 60068-2-38	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test
IEC 60068-2-42	Environmental testing - Part 2-42: Tests - Test Kc: Sulphur dioxide test for contacts and connections
IEC 60068-2-43	Environmental testing - Part 2-43: Tests - Test Kd: Hydrogen sulphide test for contacts and connections
IEC 60068-2-52	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)
IEC 60068-2-68	Environmental testing - Part 2-68: Tests-Test L: Dust and sand
IEC 60086-1	Primary batteries - Part 1: General
IEC 60086-4	Primary batteries - Part 4: Safety of lithium batteries
IEC 60086-5	Primary batteries - Part 5: Safety of batteries with aqueous electrolyte
IEC 60238	Edison screw lampholders
IEC 60320	Appliance couplers for household and similar general purposes
IEC 60529	Degrees of protection provided by enclosures (IP Code)
IEC 60570	Electrical supply track systems for luminaires
IEC 60669-1	Switches for household and similar fixed-electrical installations - Part 1: General requirements
IEC 60669-2-1	Switches for household and similar fixed electrical installations -Part 2-1: Particular requirements - Electronic switches
IEC 60669-2-2	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches
IEC 60669-2-3	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches
IEC 60669-2-4	Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches
IE C 60669-2-5	Switches for household and similar fixed electrical installations - Part 2-5: Particular requirements - Switches and related accessories for use in home and building electronic systems

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IEC 60669-2-6	Switches for household and similar fixed electrical installations - Part 2-6: Particular requirements - Fireman's switches for exterior and interior signs and luminaires
IEC 60670-1	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements
IEC 60670-22	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures
IEC 60799	Electrical accessories - Cord sets and interconnection cord sets
IEC 60825-1	Safety of laser products - Part 1: Equipment classification and requirements
IEC 60838-1	Miscellaneous lampholders - Part 1: General requirements and tests
IEC 60838-2-2	Miscellaneous lampholders - Part 2-2: Particular requirements - Connectors for LED-modules
IEC 60884-1	Plugs and socket-outlets for household and similar purposes - Part1: General requirements
IEC 60884-2-1	Plugs and socket-outlets for household and similar purposes - Part 2-1: Particular requirements for fused plugs
IEC 60884-2-4	Plugs and socket-outlets for household and similar purposes - Part 2-4: Particular requirements for plugs and socket-outlets for SELV
IEC 60884-2-5	Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors
IEC 60884-2-7	Plugs and socket-outlets for household and similar purposes - Part2-7: Particular requirements for cord extension sets
IEC 60904-1	Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics
IEC 60904-1-1	Photovoltaic devices - Part 1-1: Measurement of current-voltage characteristics of multi-junction photovoltaic (PV)
IEC 60947-1	Low-voltage switchgear and controlgear-Part 1: General rules
IEC 60947-3	Low-voltage switchgear and controlgear-Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
IEC 60947-5-1	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
IEC 60947-6-1	Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment
IEC 60950-1	Information technology equipment - Safety - Part 1: General requirements
IEC 60998-1	Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements
IEC 60998-2-1	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

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IEC 60998-2-2	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units
IEC 60998-2-3	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units
IEC 60998-2-4	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-4: Particular requirements for twist-on connecting devices
IEC 60999-1	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)
IEC 61020-1	Electromechanical switches for use in electrical and electronic equipment - Part 1: Generic specification
IEC 61058-1	Switches for appliances - Part 1: General requirements
IEC 61058-1-2	Switches for appliances - Part 1-2: Requirements for electronic switches
IEC 61058-2-1	Switches for appliances - Part 2-1: Particular requirements for cord switches
IEC 61058-2-4	Switches for appliances - Part 2-4: Particular requirements for independently mounted switches
IEC 61058-2-5	Switches for appliances - Part 2-5: Particular requirements for change-over selectors
IEC 61076-1	Connectors for electronic equipment - Product requirements - Part 1: Generic specification
IEC 61076-2	Connectors for electronic equipment - Product requirements - Part 2: Sectional specification for circular connectors
IEC 61184	Bayonet lampholders
IEC 61210	Connecting devices - Flat quick-connect terminations for electrical copper conductors - Safety requirements
IEC 61215-1	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements
IEC 61215-1-1	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
IEC 61215-2	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures
IEC 61347-1	Lamp controlgear - Part 1: General and safety requirements
IEC 61347-2-7	Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
IEC 61347-2-11	Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires

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IEC 61347-2-13	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IEC 61427-1	Secondary cells and batteries for renewable energy storage - General requirements and methods of test - Part 1: Photovoltaic off-grid application
IEC 61701	Salt mist corrosion testing of photovoltaic (PV) modules
IEC 61730-1	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
IEC 61730-2	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
IEC 61853-1	Photovoltaic (PV) module performance testing and energy rating - Part 1: Irradiance and temperature performance measurements and power rating
IEC 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary sealed cells and batteries for portable applications - Part 1: Nickel-Cadmium
IEC 61951-2	Secondary cells and batteries containing alkaline or other non acid electrolytes - Secondary sealed cells and batteries for portable applications - Part 2: Nickel-metal hydride
IEC 61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Mechanical tests for sealed portable secondary cells and batteries
IEC 61960-3	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 3: Prismatic and cylindrical lithium secondary cells and batteries made from them
IEC 61984	Connectors - Safety requirements and tests
IEC 61995-1	Devices for the connection of luminaires for household and similar purposes - Part 1: General requirements
IEC 61995-2:2016	Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL
IEC 62031-1	LED modules for general lighting - Safety specifications
IEC 62109-1	Safety of power converters for use in photovoltaic power systems - Part 1: General requirements
IEC 62109-2	Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters
IEC 62124	Photovoltaic (PV) stand alone systems - Design verification
IEC 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems
IEC 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems

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IEC 62262	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
IEC 62281	Safety of primary and secondary lithium cells and batteries during transport
IEC 62301	Household Electrical Appliances - Measurement of standby power
IEC 62368-1	Audio/video, information and communication technology
IEC 62384-1.1	DC or AC supplied electronic control gear for LED modules - Performance requirements
IEC 62386-101	Digital addressable lighting interface - Part 101: General requirements - System components
IEC 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear
IEC 62386-103	Digital addressable lighting interface - Part 103: General requirements - Control devices
IEC 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)
IEC 62386-208	Digital addressable lighting interface - Part 208: Particular requirements for control gear - Switching function (device type 7)
IEC 62386-209	Digital addressable lighting interface - Part 209: Particular requirements for control gear - Colour control (device type 8)
IEC 62386-303	Digital addressable lighting interface - Part 303: Particular requirements - Input devices - Occupancy sensor
IEC 62386-304	Digital addressable lighting interface - Part 304: Particular requirements - Input devices - Light sensor
IEC 62442-1	Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent lamps - Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear
EN 62442-2	Energy performance of lamp controlgear - Part 3: Controlgear for halogen lamps and LED modules - Method of measurement to determine the efficiency of the controlgear
IEC 62442-3	Energy performance of lamp controlgear - Part 3: Controlgear for halogen lamps and LED modules - Method of measurement to determine the efficiency of the controlgear
IEC 62471	Photobiological safety of lamps and lamp systems
IEC 62509	Battery charge controllers for photovoltaic systems - Performance and functioning
IEC 62560	Self-ballasted LED-lamps for general lighting services by voltage > 50 V- Safety specifications
IEC 62619	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Safety requirements for secondary lithium cells and batteries, for use in industrial applications

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IEC 62620	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Secondary lithium cells and batteries for use in industrial applications
IEC 62675	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Sealed nickel-metal hydride prismatic rechargeable single cells
IEC 62707-1	LED-binning - Part 1: General requirements and white colour grid intended for automotive applications intended for automotive applications
IEC 62717	LED modules for general lighting – Performance requirements
IEC 62722-1	Luminaire performance – Part 1: General requirements
IEC 62722-2-1	Luminaire performance – Part 2-1: Particular requirements for LED-luminaires
IEC 62733	Programmable components in electronic lamp controlgear - General and safety requirements
IEC 62756-1	Digital load side transmission lighting control (DLT) - Part 1: Basic requirements
IEC 62776	Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications
IEC 62790	Junction boxes for photovoltaic modules - Safety requirements and tests
IEC 62838	LED lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. - Safety specifications
IEC 62852	Connectors for DC-application in photovoltaic systems - Safety requirements and tests
IEC 62931	GX16t-5 capped tubular LED lamp - Safety specifications
IEC 62979	Photovoltaic modules – Bypass diode - Thermal runaway test
IEC 63013	LED packages - Long-term luminous and radiant flux maintenance projection
IEC 63128	Lighting control interface for dimming – Analogue voltage dimming interface for electronic current sourcing controlgear
IEC 63146	LED packages for general lighting - Specification sheet
IEC 63166	Zhaga interface specification Book 1 and Book 7
IECEE CEE-7	Specification for plugs and socket-outlets for domestic and similar purpose
IEC/TR 62778	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires
IEC/TR 62854	Sharp edge testing apparatus and test procedure for lighting equipment - Tests for sharpness of edge
IEC/TR 63037	Electrical interface specifications for self ballasted lamps and controlgear in phase-cut dimmed lighting systems
IEC TR 63158	Equipment for general lighting purposes - Objective test method for stroboscopic effects of lighting equipment
IEC/TS 61724-3	Photovoltaic system performance - Part 3: Energy evaluation method

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IEC/TS 62788-7-2	Measurement procedures for materials used in photovoltaic modules - Part 7-2: Environmental exposures - Accelerated weathering tests of polymeric material
IEC TS 62804-1	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation - Part 1: Crystalline silicon
IEC/TS 62861	Guidelines for principal component reliability testing for LED light sources and LED luminaires
IES LM-9	Approved Method for the Electrical and Photometric Measurements of Fluorescent Lamps
IES LM-10	Photometric Testing of Outdoor Fluorescent Luminaires
IES LM-16	Practical Guide to Colorimetry of Light Sources
IES LM-20	IES Approved Method for Photometry of Reflector Type Lamps
IES LM-31	Photometric Testing of Roadway Luminaires Using Incandescent Filament and HID Lamps
IES LM-35	Photometric Testing of Floodlights Using High Intensity Discharge or Incandescent Filament Lamps
IES LM-40	Approved Method for Life Testing of Fluorescent Lamps
IES LM-41	Approved Method for Photometric Testing of Indoor Fluorescent Luminaries
IES LM-45	Approved Method for Electrical and Photometric Measurements of General Service Incandescent Filament Lamps
IES LM-46	Photometric Testing of Indoor Luminaires Using High Intensity Discharge Incandescent Filament Lamps
IES LM-47	Approved Method of Life Testing for High Intensity Discharge (HID) Lamps
IES LM-49	Approved Method of Life Testing for Incandescent Filament Lamps
IES LM-51	Approved Method for the Electrical and Photometric Measurements of High Intensity Discharge Lamps
IES LM-54	IES Guide to Lamp Seasoning
IES LM-58	Guide to Spectroradiometric Measurements
IES LM-65	Approved Method for Life Testing of Single-Ended Compact Fluorescent Lamps
IES LM-66	Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps
IES LM-73	Photometric Testing of Entertainment Lighting Luminaires
IES LM-78-17	Approved Method for Total Luminous Flux Measurement of Lamps Using an Integrating Sphere Photometer
IES LM-79	Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products, Sections 9, 10 and 12
IES LM-79-2019	Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products

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IES LM-80	Sources (LED Packages/Modules/Arrays)
IES LM-82	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature
IES LM-84	Approved Method for Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires
IES LM-85	Electrical and Photometric Measurements of High-Power
IES LM-86	Measuring Luminous Flux and Color Maintenance of Remote Phosphor Components
IES LM-88	Approved Method: Optical and Electrical Measurements of AC-LED Packages and Arrays or Modules
IES TM-15-11	Luminaire Classification System for Outdoor Luminaires
IES TM-16-17	Solid State Lighting Sources and Systems
IES TM-21	Projecting Long Term Lumen Maintenance of LED Light Sources
IES TM-26	Methods for Projecting Catastrophic Failure
IES TM-28	Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires
IES TM-30	Evaluating Light Source Color Rendition
IES RP-27.1	Photobiological Safety for Lamp & Lamp Systems-General Requirements
IES RP-27.2	Photobiological Safety for Lamp and Lamp Systems-Measurement Techniques
IES RP-27.3	Recommended Practice for Photobiological Safety for Lamps – Risk Group Classification and Labeling
ISO 3745	Determination of Sound Power Levels of Noise Sources Using Sound Pressure -Precision Methods Anechoic and Hemi-Anechoic Rooms
ISO 9227	Corrosion tests in artificial atmospheres-Salt spray tests
JIS C 8105-31	Luminaires - Part 3: General requirements for performance
JIS C 8105-5	Luminaires - Part 5: Gonio-photometric methods
JIS C 8131	Luminaires for road lighting
JIS C 8152-1	Photometry of white light emitting diode for general lighting - Part 1: LED packages (Amendment 1)
JIS C 8152-2	Photometry of white light emitting diode for general lighting - Part 2: LED modules and LED light engines
JIS C 8152-3	Photometry of white light emitting diode for general lighting - Part 3: measurement methods for lumen maintenance
JIS C 8153	DC or AC supplied electronic control gear for LED modules - Performance requirements
JIS C 8155	LED modules for general lighting service - Performance requirements

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JIS C 8157	Self-ballasted LED-lamps for general lighting services > 50 V - Performance requirements
JIS C 8158	Self-ballasted LED-lamps for general lighting services by voltage > 50 V -Safety specifications
NEMA 77	Temporal Light Artifacts: Test Methods and Guidance For Acceptance Criteria
NEMA 250	Enclosures for Electrical Equipment
NEMA ESS 1	Uniformly measuring and expressing the performance of electrical energy storage system
NEMA LSD 73	Energy Savings with Fluorescent and LED Dimming
NEMA SSL 6	Solid State Lighting for Incandescent Replacement—Dimming
NEMA SSL 7A	Rate of LED Packages Phase Cut Dimming for Solid-State Lighting- Basic Compatibility.
NEMA UV P2	Application Environments Exposure to Ultraviolet Light
NEMA WD 7	Occupancy Motion Sensors Standard
NOM-017-ENER/SCFI	Energy Efficiency and safety requirements for self-ballasted compact fluorescent lamps. Limits and testing methods.
NOM-028-ENER	Energy efficiency of lamps for general use. Limits and test methods.
NOM-030-ENER	Luminous efficacy of integral light emitting diode (LED) lamps for general lighting limits and test methods
NOM-031-ENER	Energy efficiency for luminaires with light emitting diodes (LED) for roadways and outdoor public areas
NOM-032-ENER	Maximum electrical power limits for equipment and appliances that require standby power. Test methods and labeling (South African National Standards)
SANS 475	Luminaires for interior lighting, street lighting and floodlighting - Performance requirements
SASO 2870	Energy efficiency, functionality and labeling requirements for lighting products part 1
SASO 2902	Energy efficiency, functionality and labeling requirements for lighting products part 2
SATS 17576	Light-emitting diode products for interior lighting, street lighting and floodlighting - Performance requirements
Title 24 Appendix JA8	Qualification Requirements for High Efficacy Light Sources
Title 24 Appendix JA10	Test Method for Measuring Flicker of Lighting Systems and Reporting Requirements
UAE Cabinet Decision	No 34 of 2013 UAE System for Lighting Products
UL 1012	Power Units Other Than Class 2
UL 1573	Stage and Studio Luminaires and Connector Strips

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UL 1703	Flat-Plate Photovoltaic Modules and Panels
UL 1989	Standby Batteries
UN 38.3	Lithium metal and lithium ion batteries

