



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **PIONEER TESTING TECHNOLOGY (HANGZHOU) CO., LTD.**

ROOM 401, BUILDING 41, NO.536 SHUNFENG ROAD, YUHANG DISTRICT  
HANGZHOU CITY 311199, ZHEJIANG, PEOPLE'S REPUBLIC OF CHINA

### **Testing Laboratory TL-936**

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 October 30, 2024



*International Accreditation Service*  
Issued under the authority of IAS management

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## PIONEER TESTING TECHNOLOGY (HANGZHOU) CO., LTD.

[www.pnt-lab.com](http://www.pnt-lab.com)

**Contact Name** Geoff Qian

**Contact Phone** +86 18117547622

*Accredited to ISO/IEC 17025:2017*

*Effective Date October 30, 2024*

Textile Product	
DIN 53160-1-2010	Determination of the colourfastness of articles for common use. Part1: Test with artificial saliva
EN 14682-2014	Safety of children's clothing - Cords and drawstrings on children's clothing - Specifications
EN ISO 14362-1-2017	Textiles. Methods for determination of certain aromatic amines derived from azo colorants. Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
EN ISO 14362-3-2017	Textiles. Methods for determination of certain aromatic amines derived from azo colorants. Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene
ISO 105-C06-2010	Textiles. Tests for colour fastness. Part C06: Colour fastness to domestic and commercial laundering
ISO 105-E01-2013	Textiles. Tests for colour fastness. Part E01: Colour fastness to water
ISO 105-E04-2013	Textiles. Tests for colour fastness. Part E04: Colour fastness to perspiration
ISO 105-X12-2016	Textiles. Tests for colour fastness. Part X12: Colour fastness to rubbing
ISO 3071-2020	Textiles — Determination of pH of aqueous extract
ISO 14184-1-2011	Textiles. Determination of formaldehyde. Part 1: Free and hydrolysed formaldehyde (water extraction method)
ISO 14362-1-2017	Textiles. Methods for determination of certain aromatic amines derived from azo colorants. Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
ISO 14362-3-2017	Textiles. Methods for determination of certain aromatic amines derived from azo colorants. Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene
ISO 14389-2014	Textiles - Determination of the phthalate content - Tetrahydrofuran method
ISO 14389-2022	Textiles - Determination of the phthalate content - Tetrahydrofuran method
ISO 17881-1-2016(E)	Textiles - Determination of certain flame retardants - Part 1: Brominated flame retardants

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ISO/TS 16179-2012	Footwear. Critical substances potentially present in footwear and footwear components. Determination of organotin compounds in footwear materials
<b>Food Contact Material and Products</b>	
EN 1186-1-2002	Materials and Articles in Contact with Foodstuffs. Plastics. Part 1: Guide to the Selection of Conditions and Test Methods for Overall Migration
EN 1186-2-2002	Materials and Articles in Contact with Foodstuffs. Plastics. Part 2: Test Methods for Overall Migration into Olive Oil by Total Immersion
EN 1186-2-2022	Materials and Articles in Contact with Foodstuffs. Plastics. Part 2: Test Methods for Overall Migration into Olive Oil by Total Immersion Supersedes ENV 1186-2:1994
EN 1186-3-2002	Materials and Articles in Contact with Foodstuffs. Plastics. Part 3: Test Methods for Overall Migration into Aqueous Food Simulants by Total Immersion
EN 1186-3-2022	Materials and Articles in Contact with Foodstuffs. Plastics. Part 3: Test Methods for Overall Migration into Aqueous Food Simulants by Total Immersion Supersedes ENV 1186-3:1994
EN 1186-9-2002	Materials and Articles in Contact with Foodstuffs. Plastics. Part 9: Test Methods for Overall Migration into Aqueous Food Simulants by Article Filling
EN 1186-12-2002	Materials and Articles in Contact with Foodstuffs. Plastics. Part 12: Test Methods for Overall Migration at Low Temperatures
EN 1186-13-2002	Materials and articles in contact with foodstuffs Plastics Part 13: Test methods for overall migration at high temperatures
EN 1186-14-2002	Materials and articles in contact with foodstuffs Plastics Part 14: Test methods for 'substitute tests for overall migration from plastics intended to come into contact with fatty foodstuffs using test media iso-octane and 95% ethanol
GB 5009.156-2016	Food safety national standards for food contact materials and products General rules for pretreatment of migration test
GB 31604.1-2015	Food safety national standards for food contact materials and products General rules of migration test
GB 31604.8-2016	Food safety national standards for food contact materials and products Determination of total migration
GB 31604.8-2021	Food safety national standards for food contact materials and products Determination of total migration
<b>Electrical and Electronic Equipment</b>	
IEC 62321-1-2013	Determination of certain substances in electrotechnical products. Part 1: Introduction and overview
IEC 62321-2-2013	Determination of certain substances in electrotechnical products. Part 2: Disassembly, disjunction and mechanical sample preparation
IEC 62321-2-2021	Determination of certain substances in electrotechnical products. Part 2: Disassembly, disjunction and mechanical sample preparation

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IEC 62321-3-1-2013	Determination of certain substances in electrotechnical products. Part 3-1: Screening. Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry
IEC 62321-6-2015	Determination of certain substances in electrotechnical products. Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography -mass spectrometry (GC-MS)
IEC 62321-7-1:2015	Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium [Cr (VI)] in colourless and coloured corrosion-protected coatings on metals by the colorimetric method
IEC 62321-8-2017	Determination Of Certain Substances in Electrotechnical Products-Part 8: Phthalates In Polymers By Gas Chromatography-Mass Spectrometry (Gc-Ms), Gas Chromatography-Mass Spectrometry Using A Pyrolyzer/Thermal Desorption Accessory (Py-Td-Gc-Ms)
<b>Electrical and Electronic Equipment</b>	
AS/NZS 3100:2022+A1:2023	Approval and test specification - General requirements for electrical equipment
AS/NZS 3105:2014+A 1:2017	Approval and test specification - Electrical portable outlet devices
AS/NZS 3112:2017	Approval and test specification - Plugs and socket-outlets
AS/NZS 3112-2017+AMD1-2021	Approval and test specification - Plugs and socket-outlets
AS/NZS 3120:2021	Approval and test specification - Cord extension sockets
AS/NZS 3122:2015	Approval and test specification - Socket-outlet adaptors
AS/NZS 3122-2021	Approval and test specification - Socket-outlet adaptors
AS/NZS 3133:2020	Approval and test specification - Air-break switches
AS/NZS 3199:2020	Approval and test specification - Cord extension sets
AS/NZS 60669.1:2020+A1:2022	Switches for household and similar fixed electrical installations - General Requirements
AS/NZS 60669.2.1:2020	Switches for household and similar fixed electrical installations - Particular requirements - Electronic switches
BS 546:1950 + PD1752:1953 + PD4007:1960 + PD4389:1961 + AMD251:1969 + AMD2307:1977 + AMD4045:1982 + AMD5809:1987 + AMD6144:1989 + Supplement No. 1:1960 + Supplement No. 2:1987 + AMD8914:1999	Specification for plugs made of resilient material.
BS 1363-1:2016+A1:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs
BS 1363-1-2023	13 A plugs, socket-outlets, adaptors and connection units - Rewirable and non-rewirable 13 A fused plugs. Specification
BS 1363-2:2016+A1:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets
BS 1363-2-2023	13 A plugs, socket-outlets, adaptors and connection units - 13 A switched and unswitched socket-outlets. Specification

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BS 1363-3:2016+A1:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for adaptors
BS 1363-3:2023	13 A plugs, socket-outlets, adaptors and connection units - Adaptors. Specification
BS 1363-4:2016+A1:2018	13 A plugs, socket-outlets, adaptors and connection units – Part 4: 13 A fused connection units: switched and unswitched – Specification
BS 1363-4:2023	13 A plugs, socket-outlets, adaptors and connection units – Part 4: 13 A fused connection units: switched and unswitched – Specification
BS 4177:1992+A1:1993+A2:1997 + A3:2004 + A4:2007	Specification for Cooker control units
BS 5733:2010+A1:2014	General requirements for electrical accessories –Specification
EN 50075:1990	Flat non-rewirable two-pole plugs, 2,5 A 250 V, with cord, for the connection of class II-equipment for household and similar purposes
EN 60669-1:2018	Switches for household and similar fixed electrical installations - Part 1: General requirements
GSO 2117:2011	Safety requirements for Cord Extension Sets
IEC 60669-1:2017	Switches for household and similar fixed-electrical installations - Part 1: General requirements
IEC 60669-2-1:2002+A1:2008+A2:2015	Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements –Electronic switches
IEC 60669-2-1:2021	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices
IEC 60669-2-2:2006	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)
IEC 60669-2-3:2006	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)
IEC 60669-2-4:2004	Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches
IEC 60669-2-5:2013	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 (HBES)
IEC 60669-2-6:2012	Switches for household and similar fixed electrical installations - Part 2-6: Particular requirements - Fireman's switches for exterior and interior signs and luminaries
IEC 60670-1:2015	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements
IEC 60670-22:2003+A1:2015	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures
IEC 60884-1: 2002 +A1:2006 + A2: 2013	Plugs and socket-outlets for household and similar purposes - Part1: General requirements
IEC 60884-1:2022	Plugs and socket-outlets for household and similar purposes - Part1: General requirements

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IEC 60884-2-1:2006	Part 2-1: Particular requirements for fused plugs
IEC 60884-2-2:2006	Plugs and socket-outlets for household and similar purposes - Part 2-2: Particular requirements for socket-outlets for appliances
IEC 60884-2-3:2006	Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations
IEC 60884-2-4:2007	Plugs and socket-outlets for household and similar purposes - Part 2-4: Particular requirements for plugs and socket-outlets for SELV
IEC 60884-2-5:2017	Part 2-5: Particular requirements for adaptors
IEC 60884-2-6:1997	Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations
IEC 60884-2-7:2011+A1:2013	Part 2-7: Particular requirements for cord extension sets
IEC 61242:1995+A1:2008+A2:2015	Electrical accessories - Cable reels for household and similar purposes
IEC 61534-1:2011+AMD2:2020	Powertrack systems - Part 1: General requirements
IEC 61534-21:2014+AMD1:2021	Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
IEC 61534-22:2014+AMD1:2021	Powertrack systems - Part 22: Particular requirements for powertrack systems intended for on floor or underfloor installation
IEC 62368-1:2014	Audio/video, information and communication technology equipment –Part 1: Safety requirements
IEC 62368-1:2018	Audio/video, information and communication technology equipment –Part 1: Safety requirements
IEC 62368-1:2023	Audio/video, information and communication technology equipment –Part 1: Safety requirements
IEC 62368-3:2017	Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports
MS 589-1:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs
MS 589-2:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets
MS 589-3:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for adaptors
MS 1577:2022	Specification for 15A plugs and socket-outlets for domestic and similar purposes (First revision)
SANS 164-0:2021 (Ed. 1.08)	Plug and socket-outlet systems for household and similar purposes for use in South Africa - Part 0: General requirements
SANS 164-0-2023	Plug and socket-outlet systems for household and similar purposes for use in South Africa - Part 0: General requirements
SANS 164-1:2019 (Ed. 5.05)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 1: Two-pole and earth, 16 A 250 V a.c. system

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SANS 164-1-2021	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 1: Two-pole and earth, 16 A 250 V a.c. system
SANS 164-2:2018 (Ed. 3.02)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 2: Two-pole and earth and 2 pin (Class II), 16 A 250 V a.c. system
SANS 164-2-1:2024 (Ed. 1.02)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 2-1: Two-pole and earth, 16 A 250 V a.c. partially dedicated system
SANS 164-2-2:2024 (Ed. 1.02)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 2-2: Two-pole and earth, 16 A 250 V a.c. fully dedicated system.
SANS 164-3:2018 (Ed. 1.04)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 3: Two-pole and earth, 6 A 250 V a.c. system
SANS 164-4:2020 (Ed. 1.05)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 4: Two-pole and earth, 16A 250V a.c. dedicated system
SANS 164-5:2020 (Ed. 1.03)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 5: Two-pole, 2,5 A 250 V a.c. system.
SANS 164-6:2018 (Ed. 1.05)	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 6: Two-pole (Class II), 16 A 250 V a.c. system
SANS 164-6-2021	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 6: Two-pole (Class II), 16 A 250 V a.c. system
SANS 60669-1:2017 (Ed. 3.00)	Switches for household and similar fixed-electrical installations Part 1: General requirements
SANS 60669-2-1:2015 (Ed. 3.02)	Switches for household and similar fixed electrical installations Part 2-1: Particular requirements - Electronic switches
SANS 60884-1:2023 (Ed. 3.00)	Plugs and socket-outlets for household and similar purposes Part 1: General requirements
SANS 60884-2-2:2007 (Ed. 2.00)	Plugs and socket-outlets for household and similar purposes Part 2-2: Particular requirements for socket-outlets for appliances
SANS 60884-2-3:2007 (Ed. 2.00)	Plugs and socket-outlets for household and similar purposes Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations
SANS 60884-2-4:2008 (Ed. 3.00)	Plugs and socket-outlets for household and similar purposes Part 2-4: Particular requirements for plugs and socket-outlets for SELV
SANS 60884-2-5:2018 (Ed. 2.00)	Plugs and socket-outlets for household and similar purposes Part 2-5: Particular requirements for adaptors
SANS 60884-2-6:1997 (Ed. 1.00)	Plugs and socket-outlets for household and similar purposes Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations
SANS 60884-2-7:2013 (Ed. 1.01)	Plugs and socket-outlets for household and similar purposes Part 2-7: Particular requirements for cord extension sets

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SASO 2203:2018	Plugs and socket-outlets for household and similar purpose safety requirements and test methods, 250V/13A
SASO 2815:2010	Safety requirements for cord extension sets
SASO 2815:2021	Safety requirements for cord extension sets
SS 145-1:2019	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs
SS 145-2:2018	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets
SS 145-3:2020	13 A plugs, socket-outlets, adaptors and connection units. Specification for adaptors
SS 241:1996 (2008)	Specification for general requirements for electrical accessories
VC 8003: 2015	Compulsory specification for switches for fixed installations
VC 8008: 2010	Compulsory specification for plugs, socket-outlets and socket-outlet adaptors
<b>Household and Similar Electrical Appliances</b>	
AS/NZS 60335.1:2020	Household and similar electrical appliances - Safety - Part 1: General requirements
AS/NZS 60335.1-2020+A1-2021	Household and similar electrical appliances - Safety - Part 1: General requirements
AS/NZS 60335.2.2:2020	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
AS/NZS 60335.2.3:2012 + A1:2016	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons
AS/NZS 60335.2.4:2010+A4:2018	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors
AS/NZS 60335.2.6:2014+A2:2019	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
AS/NZS 60335.2.7:2020	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines
AS/NZS 60335.2.8:2013+A2:2019	Household And Similar Electrical Appliances - Safety - Part 2.8: Particular Requirements For Shavers, Hair Clippers And Similar Appliances
AS/NZS 60335.2.9:2020	Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances
AS/NZS 60335.2.11:2020	Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers
AS/NZS 60335.2.12:2018	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances
AS/NZS 60335.2.13:2017	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
AS/NZS 60335.2.14:2017+A1:2020	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines

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AS/NZS 60335.2.15:2019	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
AS/NZS 60335.2.16:2012	Household And Similar Electrical Appliances - Safety - Part 2.16: Particular Requirements For Food Waste Disposers
AS/NZS 60335.2.21:2013+A2:2019	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
AS/NZS 60335.2.23:2017+A1:2020	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care
AS/NZS 60335.2.25:2020	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
AS/NZS 60335.2.29:2017+A1:2020	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers
AS/NZS 60335.2.30:2015+A3:2020	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters
AS/NZS 60335.2.32:2020	Household And Similar Electrical Appliances - Safety - Part 2.32: Particular Requirements For Massage Appliances
AS/NZS 60335.2.35:2013+A1:2017	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
AS/NZS 60335.2.52:2018	Household and similar electrical appliances-Safety. Part 2.52: Particular requirements for oral hygiene appliances
AS/NZS 60335.2.80:2016+A1:2020	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans
EN 60335-1:2012/A16:2023	Household and similar electrical appliances - Safety - Part 1: General requirements
EN 60335-2-2:2010+A1:2013	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
EN 60335-2-3:2016/A1:2020	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons
EN 60335-2-4:2010/A2:2019	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors
EN 60335-2-6:2015+A11:2020	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
EN 60335-2-7:2010+A2:2019	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines
EN 60335-2-8:2015+A1:2016	Household and similar electrical appliances. Safety. Part 2-8: Particular requirements for shavers, ,hair clippers and similar appliances
EN 60335-2-9:2003+A13:2010+AC:2012	Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances
EN 60335-2-11:2010+A2:2018	Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers
EN 60335-2-12:2003+A11:2019	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances



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EN 60335-2-13:2010+A1:2019	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
EN60335-2-14:2006+A12:2016	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines
EN 60335-2-15:2016+A11:2018	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
EN 60335-2-16:2003+A11:2018	Household And Similar Electrical Appliances - Safety - Part 2-16: Particular Requirements For Food Waste Disposers
EN 60335-2-21:2021	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
EN 60335-2-23:2003+A2:2015	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care
EN 60335-2-25:2012+A2:2016	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
EN 60335-2-29:2004+A11:2018	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers
EN 60335-2-30:2009+A12:2020	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters
EN 60335-2-32:2003+A2:2015	Household And Similar Electrical Appliances - Safety - Part 2-32: Particular Requirements For Massage Appliances
EN 60335-2-35:2016+A1:2019	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
EN 60335-2-52:2003+A11:2010	Household and similar electrical appliances. Safety. Part 2-52: Particular requirements for oral hygiene appliances
EN 60335-2-80:2003+A1:2004+A2:2009	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans
IEC 60335-1: 2020	Household and similar electrical appliances - Safety - Part 1: General requirements
IEC 60335-2-2:2019	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
IEC 60335-2-3:2012+AMD1:2015 CSV	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons
IEC 60335-2-3:2022	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons
IEC 60335-2-4:2021	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors
IEC 60335-2-4:2023	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors
IEC 60335-2-6:2014+AMD1:2018 CSV	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
IEC 60335-2-7:2019	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines
IEC 60335-2-8:2012+Amd 1:2015	Household and similar electrical appliances. Safety. Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

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IEC 60335-2-8:2022	Household and similar electrical appliances. Safety. Part 2-8: Particular requirements for shavers, hair clippers and similar appliances
IEC 60335-2-9:2019	Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances
IEC 60335-2-11:2019	Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers
IEC 60335-2-12:2002+AMD1:2008+AMD2:2017 CSV	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances
IEC 60335-2-13:2009+AMD1:2016 CSV	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
IEC 60335-2-13:2021	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
IEC 60335-2-14:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines
IEC 60335-2-15:2012+AMD1:2016+AMD2:2018 CSV	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
IEC 60335-2-16:2002+A1:2008+A2:2011	Household And Similar Electrical Appliances - Safety - Part 2-16: Particular Requirements For Food Waste Disposers
IEC 60335-2-16:2022	Household And Similar Electrical Appliances - Safety - Part 2-16: Particular Requirements For Food Waste Disposers
IEC 60335-2-21:2012+AMD1:2018 CSV	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
IEC 60335-2-21:2022	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
IEC 60335-2-23:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care
IEC 60335-2-25:2020	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
IEC 60335-2-29:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers
IEC 60335-2-30:2009+AMD1:2016+AMD2:2021 CSV	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters
IEC 60335-2-32:2019	Household And Similar Electrical Appliances - Safety - Part 2-32: Particular Requirements For Massage Appliances
IEC 60335-2-35:2012+AMD1:2016+AMD2:2020 CSV	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
IEC 60335-2-52:2002+A1:2008+A2:2017	Household and similar electrical appliances. Safety. Part 2-52: Particular requirements for oral hygiene appliances
IEC 60335-2-52:2021	Household and similar electrical appliances. Safety. Part 2-52: Particular requirements for oral hygiene appliances

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IEC 60335-2-80:2015	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans
SANS 60335-1:2018	Household and similar electrical appliances - Safety - Part 1: General requirements
SANS 60335-2-2:2018	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
SANS 60335-2-3:2016	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons
SANS 60335-2-4:2021	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors
SANS 60335-2-6:2020	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
SANS 60335-2-7:2017	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines
SANS 60335-2-8:2003	Household and similar electrical appliances. Safety. Part 2-8: Particular requirements for shavers, hair clippers and similar appliances
SANS 60335-2-8:2021	Household and similar electrical appliances. Safety. Part 2-8: Particular requirements for shavers, hair clippers and similar appliances
SANS 60335-2-9:2020	Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances
SANS 60335-2-11:2014	Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers
SANS 60335-2-11:2021	Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers
SANS 60335-2-12:2019	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances
SANS 60335-2-13:2017	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
SANS 60335-2-14:2020	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines
SANS 60335-2-15:2018	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
SANS 60335-2-16:2014	Household And Similar Electrical Appliances - Safety - Part 2-16: Particular Requirements For Food Waste Disposers
SANS 60335-2-21:2000	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
SANS 60335-2-23:2019	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care
SANS 60335-2-25:2021	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens





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SANS 60335-2-29:2010	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers
SANS 60335-2-30:2018	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters
SANS 60335-2-32:2014	Household And Similar Electrical Appliances - Safety - Part 2.32: Particular Requirements For Massage Appliances
SANS 60335-2-32-2022	Household And Similar Electrical Appliances - Safety - Part 2.32: Particular Requirements for Massage Appliances
SANS 60335-2-35:2015	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
SANS 60335-2-52:2009	Household and similar electrical appliances. Safety. Part 2-52: Particular requirements for oral hygiene appliances
SANS 60335-2-52-2021	Household and similar electrical appliances. Safety. Part 2-52: Particular requirements for oral hygiene appliances
SANS 60335-2-80:2016	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans
<b>Luminaires</b>	
ANSI C78.377	Electric Lamps-Specifications for the Chromaticity of Solid-State Lighting products
ANSI C136.3	For Roadway and Area Lighting Equipment-Luminaire Attachments.
ANSI C136.31	Roadway and Area Lighting Equipment-Luminaire Vibration.
ANSI/UL 153(ISTMT)	Stand for safety Portable Electric Luminaires
ANSI/UL 1574(ISTMT)	Stand for safety Track Lighting Systems
ANSI/UL 1598(ISTMT)	Stand for safety Luminaires
ANSI/UL 1598C(ISTMT)	Stand for Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits
AS 60598.2.4-2019	Luminaires Particular Requirements - Portable General Purpose Luminaires (Iec 60598-2-4:2017, (Ed. 3.0) Mod)
AS 60598.2.18-2019	Luminaires Particular Requirements - Luminaires For Swimming Pools And Similar Applications (Iec 60598-2-18 (Ed.2.0) Mod)
AS 61347.2.7-2019	Lamp Controlgear Particular Requirements For Battery Supplied Electronic Controlgear For Emergency Lighting (Self-Contained) (Iec 61347-2-7:2017 (Ed. 3.1) Mod)
AS 61347.2.13-2018	Lamp Controlgear Particular Requirements For D.C. Or A.C. Supplied Electronic Controlgear For Led Modules (Iec 61347-2-13:2016 (Ed.2.1) Mod)
AS/NZS 60598.1:2017	Luminaires General Requirements And Tests (Iec 60598-1, Ed. 8.0 (2014) Mod)
AS/NZS 60598.1:2017+A1:2017+A1:2020	Luminaires General Requirements and Tests [IEC 60598-1, Ed.8.0 (2014) Mod]
AS/NZS 60598.2.1:2014+A1:2016	Luminaires Part 2.1: Particular Requirements-Fixed General Purpose Luminaires (Incorporating Amendment No.1: 05/2016)
AS/NZS 60598.2.1:2014+A1:2016 +A2:2019	Luminaires Part 2.1: Particular Requirements-Fixed General-purpose Luminaires (Incorporating Amendment No.1: 05/2016)
AS/NZS 60598.2.2:2016	Luminaires Particular Requirements-Recessed Luminaires (Iec 60598-2-2, Ed. 3.0 (2011) Mod)

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AS/NZS 60598.2.2:2016+A1:2017+A2:2021	Luminaires Particular Requirements-Recessed Luminaires [IEC 60598-2-2, Ed. 3.0 (2011) Mod]
AS/NZS 60598.2.3:2015	Luminaires Particular Requirements-Luminaires For Road And Street Lighting (Iec 60598-2-3, Ed. 3.1 (2011) Mod)
AS/NZS 60598.2.5:2018	Luminaires - Part 2.5: Particular Requirements - Floodlights
AS/NZS 60598.2.10:2015	Luminaires Particular Requirements-Portable Luminaires For Children (Iec 60598-2-10, Ed.2.0 (2003) Mod)
AS/NZS 60598.2.20-2018	Luminaires Particular Requirements - Lighting Chains (Iec 60598-2-20:2014, Mod)
AS/NZS 60598.2.21-2018	Luminaires Particular Requirements - Rope Lights (IEC 60598-2-21:2014, Mod)
AS/NZS 61347.1-2016+A1-2018	Lamp Controlgear General And Safety Requirements (Iec 61347-1:2015, Mod)
AS/NZS 61347.2.11-2003	Lamp controlgear. Part 2.11: Particular requirements for miscellaneous electronic circuits used with luminaires
AS/NZS 62560-2017+A1-2019	Self-Ballasted Led-Lamps For General Lighting Services By Voltage > 50 V-Safety Specifications - Amendment 1:2019
AS/NZS 62560-2017+A1-2019+A2:2022	Self-Ballasted Led-Lamps for General Lighting Services By Voltage > 50 V-Safety Specifications - Amendment 1:2019
ASTM D3359-17	Standard Test Methods for Rating Adhesion by Tape Test
ASTM D3359-2023	Standard Test Methods for Rating Adhesion by Tape Test
CIE 018:2019	The Basics of Physical Photometry
CIE 13.3	Method of measuring and specifying Colour Rendering Properties of Lighting Source
CIE 15	Colorimetry
CIE 18.2	The Basics of Physical Photometry
CIE 63	The Spectro radiometric Measurement of Light Sources
CIE 84	The measurement of Luminous Flux
CIE 88:2004	Guide for the lighting of Road Tunnels and Underpasses
CIE 97	Guide on the maintenance of Indoor Electric Lighting Systems
CIE 115:2010	Lighting of Roads for Motor and Pedestrian Traffic
CIE 154:2003	The maintenance of outdoor lighting systems
CIE S 010	Photometry-The CIE System of physical photometry
EN 50294 : A1:2001 and A2:2003	Measurement Method of Total Input Power of Ballast-Lamp Circuits
EN 60598-1: 2021	Luminaires - Part 1: General requirements and tests
EN 60598-1: 2021+A11:2022	Luminaires - Part 1: General requirements and tests
EN 60598-2-1:2021	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires
EN 60598-2-2:2012	Luminaires. Part 2-2: Particular requirements. Recessed luminaires
EN 60598-2-3:2003+A1:2011	Luminaires. Part 2-3: Particular requirements. Luminaires for road and street lighting

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EN 60598-2-4:2018	Luminaires. Part 2: Particular requirements. Section 4: Portable general purpose luminaires
EN 60598-2-5:2015	Luminaires. Part 2-5: Particular requirements. Floodlights
EN 60598-2-10-2003	Luminaires. Part 2-10: Particular requirements. Portable luminaires for children
EN 60598-2-11-2013	Luminaires. Part 2-11: Particular requirements. Aquarium luminaires
EN 60598-2-11:2013 +A1:2022	Luminaires. Part 2-11: Particular requirements. Aquarium luminaires
EN 60598-2-13-2006+A2-2016	Luminaires. Part 2-13: Particular requirements. Ground recessed luminaires
EN 60598-2-13:2006+A1:2012 + A2:2016 + A11:2021	Luminaires. Part 2-13: Particular requirements. Ground recessed luminaires
EN 60598-2-18-1994+A1-2012	Corrigendum 1: Luminaires. Part 2: Particular requirements. Section 18: Luminaires for swimming pools and similar applications
EN 60598-2-18:2022	Corrigendum 1: Luminaires - Part 2: Particular requirements; Section 18: Luminaires for swimming pools and similar applications
EN 60598-2-20-2015+AC-2017	Luminaires-Part 2-20: Particular Requirements-Lighting Chains
EN 60598-2-21-2015+AC-2017	Luminaires-Part 2-21: Particular Requirements-Rope Lights
EN 60598-2-22-2014+A1-2020	Luminaires. Part 2-22: Particular requirements. Luminaires for emergency lighting
EN 61347-1-2015+A1-2021	Lamp controlgear - Part 1: General and safety requirements
EN 61347-2-7-2012+A1-2019	Lamp controlgear Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
EN 61347-2-7:2012+A1:2019+A2:2022	Lamp controlgear - Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self contained)
EN 61347-2-11-2001+A1-2019	Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
EN 61347-2-13-2014+A1-2017	Lamp Controlgear-Part 2-13: Particular Requirements For D.C. Or A.C. Supplied Electronic Controlgear For Led Modules
EN 62031-2008+A2-2015	LED modules for general lighting. Safety specifications
EN IEC 62031:2020+A11:2021	LED modules for general lighting. Safety specifications
EN 62493-2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
EN 62493:2015+A1:2022	Assessment of lighting equipment related to human exposure to electromagnetic fields
EN 62560-2012+A1-2015	Self-ballasted LED-lamps for general lighting services by voltage > 50 V. Safety specifications
EN 62560:2012+A11:2019	Self-ballasted LED-lamps for general lighting services by voltage > 50 V. Safety specifications
EN 62717-2017	LED modules for general lighting - Performance requirements
EN 62717:2017+A2:2019	LED modules for general lighting - Performance requirements

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EN 62776-2015	Double-capped LED lamps designed to retrofit linear fluorescent lamps. Safety specifications
EU2019/2015	supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of light sources and repealing Commission Delegated Regulation (EU) No 874/2012. (only Annex II)
EU2019/2020	Ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 (only Annex II)
IEC 60598-1:2020	Luminaires-Part 1: General requirements and tests
IEC 60598-2-1:2020	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires
IEC 60598-2-2:2011	Luminaires. Part 2-2: Particular requirements. Recessed luminaires
IEC 60598-2-2:2023	Luminaires - Part 2-2: Particular requirements. Recessed luminaires
IEC 60598-2-3-2002/Amd 1-2011	Amendment 1: Luminaires. Part 2-3: Particular requirements. Luminaires for road and street lighting
IEC 60598-2-4:2017	Luminaires-Part 2-4-Particular Requirements-Portable General Purpose Luminaires
IEC 60598-2-5:2015	Luminaires. Part 2-5: Particular requirements. Floodlights
IEC 60598-2-10:2003	Luminaires. Part 2-10: Particular requirements. Portable luminaires for children
IEC 60598-2-11:2013	Luminaires. Part 2-11: Particular requirements. Aquarium luminaires
IEC 60598-2-11:2013+A1:2022	Luminaires - Part 2-11: Particular requirements. Aquarium luminaires
IEC 60598-2-13-2006/Amd 2-2016	Amendment 2. Luminaires. Part 2-13: Particular requirements. Ground recessed luminaires
IEC 60598-2-18-1993	Corrigendum 1: Luminaires. Part 2: Particular requirements. Section 18: Luminaires for swimming pools and similar applications
IEC 60598-2-18-2022	Luminaires - Part 2: Particular requirements. Section 18: Luminaires for swimming pools and similar applications
IEC 60598-2-20-2014	Luminaires-Part 2-20: Particular Requirements-Lighting Chains
IEC 60598-2-20-2022	Luminaires - Part 2-20: Particular Requirements-Lighting Chains
IEC 60598-2-21-2014	Luminaires-Part 2-21: Particular Requirements-Rope Lights
IEC 60598-2-22-2014/Amd 1-2017	Amendment 1-Luminaires-Part 2-22: Particular requirements-Luminaires for emergency lighting
IEC 60598-2-22-2021	Amendment 1 – Luminaires - Part 2-22: Particular requirements-Luminaires for emergency lighting
IEC 60921:2004+A1:2006 CSV	Ballasts for tubular fluorescent lamps - Performance requirements

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IEC 61347-1-2015+Amd 1-2017	Lamp controlgear-Part 1: General and safety requirements
IEC 61347-2-7-2011+Amd 1-2017	Lamp controlgear Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
IEC 61347-2-7:2011+A1:2017++A2:2021	Lamp controlgear Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
IEC 61347-2-11-2001+Amd 1-2017	Lamp controlgear-Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
IEC 61347-2-13-2014+Amd 1-2016	Lamp controlgear. Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IEC 61643- 11:2011	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods
IEC 62031-2018	LED modules for general lighting. Safety specifications
IEC 62442-1:2022 RLV	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 controlgear
IEC 62493-2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
IEC 62493:2015+A1:2022	Assessment of lighting equipment related to human exposure to electromagnetic fields
IEC 62560-2011+Amd 1-2015	Self-ballasted LED-lamps for general lighting services by voltage > 50 V. Safety specifications
IEC 62717-2014+Amd 1-2015+Amd 2-2019	LED modules for general lighting - Performance requirements
IEC 62776-2014	Double-capped LED lamps designed to retrofit linear fluorescent lamps. Safety specifications
IEC/EN 60357	Tungsten halogen lamps (non-vehicle) – Performance specifications
IEC/EN 60529:2013	Degrees of protection provided by enclosures (IP Code)
IEC/EN 60598-1	Luminaires - Part 1: General requirements and tests
IEC/EN 60598-2-3	Luminaires - Part 2-3: Particular requirements -Luminaires for road and street lighting
IEC/EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits -Limits for harmonic current emissions (equipment input current ≤16 A per phase)
IEC/EN 61140	Protection against electric shock - Common aspects for installation and equipment
IEC/EN 61547:2009	Equipment for general lighting purposes – EMC immunity requirements
IEC/EN 62262	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
IEC/EN 62321-4	Determination of certain substances in electrotechnical products – Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS

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IEC/EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements
IEC/EN 62471	Photobiological safety of lamps and lamp systems
IEC/EN 62612	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V –Performance requirements
IEC 62663-2 Ed.1(CDV)	Non-ballasted LED lamps – Performance Requirements
IEC/EN 62717	LED Modules for general lighting-Performance Requirements
IEC/EN 62722-1	Luminaire performance - Part 1: General Requirements
IEC/EN 62722-2-1	Luminaire performance - Part 2- 1: Particular requirements for LED luminaires
IEC/TR 61341	Method of measurement of center beam intensity and beam angle(s) of reflector lamps
IEC/TR 62778-2014	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires
IES LM-79	Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-79-08	Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80	Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules
IES LM-80-08	Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules
IES LM-82	Approved Method: Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature
IES LM-82-12	Approved Method: Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature
IES LM-84	Approved Method: Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires
IES LM-84-14	Approved Method: Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires
IES TM-21	Projecting Long Term Lumen Maintenance of LED Light Sources
IES TM-21-11	Projecting Long Term Lumen Maintenance of LED Light Sources
IES TM-28	Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries
IES TM-28-14	Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries
ISO 4628-2:2016	Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 2: Assessment of degree of blistering
ISO 4628-4:2016	Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 4: Assessment of degree of cracking
ISO 9227-2017	Corrosion tests in artificial atmospheres – Salt spray tests

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ISO 9227-2022	Corrosion tests in artificial atmospheres – Salt spray tests
ISO 10289	Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates — Rating of test specimens and manufactured articles subjected to corrosion tests
ISO 23539	Photometry - The CIE system of physical photometry
ISO 23539-2023	Photometry - The CIE system of physical photometry
L2(AP)005	Cone luminous flux
prEN 13032-4	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires Part 4: LED light sources and luminaires
SANS 60598-1:2014	Luminaires Part 1: General Requirements And Tests
SANS 60598-1-2021	Luminaires - Part 1: General Requirements And Tests
SANS 60598-2-1:2020	Luminaires Part 2-1: Particular requirements – Fixed general purpose luminaires
SANS 60598-2-2-2013	Luminaires Part 2-2: Particular Requirements. Recessed Luminaires
SANS 60598-2-3-2013	Luminaires Part 2-3: Particular Requirements. Luminaires For Road And Street Lighting
SANS 60598-2-4:2020	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires
SANS 60598-2-5:2016	Luminaires Part 2. 5: Particular Requirements. Floodlights
SANS 60598-2-10:2003	Luminaires Part 2-10: Particular Requirements. Portable Luminaires For Children
SANS 60598-2-11-2013	Luminaires. Part 2-11: Particular requirements. Aquarium luminaires
SANS 60598-2-13-2007	Luminaires. Part 2-13: Particular requirements. Ground recessed luminaires
SANS 60598-2-13-2021	Luminaires - Part 2-13: Particular requirements. Ground recessed luminaires
SANS 60598-2-18-1993	Corrigendum 1: Luminaires. Part 2: Particular requirements. Section 18: Luminaires for swimming pools and similar applications
SANS 60598-2-20-2016	Luminaires Part 2. 20: Particular Requirements. Lighting Chains
SANS 60598-2-21-2015	Luminaires-Part 2-21: Particular Requirements-Rope Lights
SANS 61347-1-2021	Lamp controlgear Part 1: General and safety requirements
SANS 61347-2-7-2020	Lamp controlgear Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
SANS 61347-2-11-2018	Lamp controlgear Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
SANS 61347-2-13-2015	Lamp Controlgear Part 2-13: Particular Requirements For D.C. Or A.C. Supplied Electronic Controlgear For Led Modules
SANS 62560-2016	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specification
SANS 62031-2021	LED modules for general lighting - Safety specifications

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SANS 62612-2016	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements
SASO 2870:2018	Energy Efficiency, Functionality and Labeling Requirements for Lighting Products- Part 1
SASO 2870:2018+A1:2021	Energy Efficiency, Functionality and Labeling Requirements for Lighting Products- Part 1
SASO 2902:2018	Energy Efficiency, Functionality and Labelling Requirements for Lighting Products - Part 2
SASO 2902:2018+A1:2021	Energy Efficiency, Functionality and Labelling Requirements for Lighting Products - Part 2
SASO 2927:2019	Energy Efficiency Functionality and Labelling Requirements for Lighting Products - Part 3: Street lighting
SASO 2927:2019+A1:2021+A2:2023	Energy Efficiency Functionality and Labelling Requirements for Lighting Products - Part 3: Street lighting
SASO EN 13032-4	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires Part 4: LED light sources and luminaires
SASO GSO IEC 60064	Tungsten filament lamps for domestic and similar general lighting purposes- Performance requirements
SASO IEC/PAS 62707-1	LED - Binning - Part 1: General requirements and white grid
SASO IEC/PAS 62717	LED modules for general lighting-Performance requirements
SASO IEC/TS 62504	General lighting – LEDs and LED modules – Terms and definitions
<b>Toy Products</b>	
EN 71-1:2014 + A1:2018	Safety of toys - Part 1 : Mechanical and physical properties
EN 71-2:2020	Safety of toys - Part 2 : Flammability
EN 71-14:2018	Safety of toys - Part 14 : Trampolines for domestic use
<b>EMC (Electromagnetic Compatibility)</b>	
AS 60669.2.1:2020	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices  (Excluded the following clauses: Clause 26.2, Immunity – Table 117: Radiated electromagnetic field test of IEC 61000-4-3 Clause 26.3.4, Radiated radio frequency emission above 30 MHz)
AS CISPR 11:2017 AMD1:2020	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics limits and methods of measurement  (Excluded the following clauses: Clause 8, OATS and SAC for measurements in the range 9 kHz to 1 GHz Clause 9, Radiation measurements: 1 GHz to 18 GHz)
AS CISPR14-1:2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission  (Excluded the following clauses:

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	<p>Clause 4.3.4.5, Radiated disturbance limits - 30 MHz to 1000 MHz</p> <p>Clause 4.3.5, Frequency range 1 GHz to 6 GHz)</p>
AS CISPR 15:2017	<p>Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment</p> <p>(Excluded the clause 4.5.3, Frequency range 30MHz to 1 GHz – table 9, table 10 the OATS or SAC methods)</p>
AS/NZS 60669.2.1:2013	<p>Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices</p> <p>(Excluded the following clauses:            Clause 26.2, Immunity – Table 117: Radiated electromagnetic field test of IEC 61000-4-3            Clause 26.3.4, Radiated radio frequency emission above 30 MHz)</p>
AS/NZS 61000.6.3:2012	<p>Electromagnetic compatibility (EMC) – Part 6-3: Generic standards - Emission standard for residential environments</p> <p>(Excluded the clause 11, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)</p>
AS/NZS 61000.6.4: 2012	<p>Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments</p> <p>(Excluded the clause 9, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)</p>
AS/NZS CISPR 11:2011	<p>Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics limits and methods of measurement</p> <p>(Excluded the following clauses:            Clause 8, OATS and SAC for measurements in the range 9 kHz to 1 GHz            Clause 9, Radiation measurements: 1 GHz to 18 GHz)</p>
AS/NZS CISPR 14.1:2013	<p>Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission</p> <p>(Excluded the following clauses:            Clause 4.3.4.5, Radiated disturbance limits - 30 MHz to 1000 MHz            Clause 4.3.5, Frequency range 1 GHz to 6 GHz)</p>
AS/NZS CISPR 15:2017	<p>Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment</p> <p>(Excluded the clause 4.5.3, Frequency range 30MHz to 1 GHz – table 9, table 10 the OATS or SAC methods)</p>
AS/NZS CISPR 32:2015+AMD1:2020	<p>Electromagnetic compatibility of multimedia equipment - Emission requirements</p>

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	(Excluded the clause Annex A.2, Requirements for radiated emissions and Annex C.4, Annex D.3, and Annex H.4.2 are excluded as well)
BS EN 55011:2016+A2:2021	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics limits and methods of measurement  (Excluded the following clauses: Clause 8, OATS and SAC for measurements in the range 9 kHz to 1 GHz Clause 9, Radiation measurements: 1 GHz to 18 GHz)
BS EN 55032:2015+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements  (Excluded the clause Annex A.2, Requirements for radiated emissions and Annex C.4, Annex D.3, and Annex H.4.2 are excluded as well)
BS EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment - Immunity requirements  (Excluded the clause 5, Immunity requirements, Table 1; 1.2- Continuous RF electromagnetic field disturbances swept test and 1.3 Continuous RF electromagnetic field disturbances spot test)
BS EN 60669-2-1:2004+A12:2010	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices  (Excluded the following clauses: Clause 26.2, Immunity – Table 117: Radiated electromagnetic field test of IEC 61000-4-3 Clause 26.3.4, Radiated radio frequency emission above 30 MHz)
BS EN 61000-3-3:2013+A1:2019	Electromagnetic compatibility (EMC) - Part 3-3: Limits -Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <16 A per phase and not subject to conditional connection  (Excluded Three Phase Equipment)
BS EN 61000-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
BS EN 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test  (Excluded Three Phase Equipment)
BS EN 61000-4-5:2014+A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test  (Excluded Three Phase Equipment, Signal terminal 10/700us waveform, and Signal terminal)

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BS EN 61000-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  (Excluded Three Phase Equipment and Signal terminal)
BS EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements  (Excluded the clause 5.3, Radio Frequency Electromagnetic fields)
BS EN 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic
BS EN IEC 55014-1:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission  (Excluded the following clauses: Clause 4.3.4.5, Radiated disturbance limits - 30 MHz to 1000 MHz Clause 4.3.5, Frequency range 1 GHz to 6 GHz)
BS EN IEC 55014-2:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard  (Excluded the clause 5.5, Radio frequency electromagnetic fields, 80 MHz to 6 GHz)
BS EN IEC 55015:2019+A11:2020	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  (Excluded the clause 4.5.3, Frequency range 30MHz to 1 GHz – table 9, table 10 the OATS or SAC methods)
BS EN IEC 61000-3-2:2019+A1:2021	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current < 16 A per phase)  (Excluded Three Phase Equipment)
BS EN IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test  (Excluded Three Phase Equipment)
BS EN IEC 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards. immunity for residential, commercial and light-industrial environments  (Excluded the clause 9, Immunity test requirements – Table 1: Immunity requirements – Enclosure port 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
BS EN IEC 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments

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	(Excluded the clause 9, Immunity test requirements - Table 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
BS EN IEC 61000-6-3:2021	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards - Emission standard for residential environments  (Excluded the clause 11, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
BS EN IEC 61000-6-4:2019	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments  (Excluded the clause 9, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
BS EN IEC 61547:2023	Equipment for general lighting purposes - EMC immunity requirements  (Excluded the clause 5.3, Radio Frequency Electromagnetic fields)
CISPR 11:2015+AMD1:2016+AMD2:2019 CSV	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics limits and methods of measurement  (Excluded the following clauses: Clause 8, OATS and SAC for measurements in the range 9 kHz to 1 GHz Clause 9, Radiation measurements: 1 GHz to 18 GHz)
CISPR 11	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics limits and methods of measurement  (Excluded the following clauses: Clause 8, OATS and SAC for measurements in the range 9 kHz to 1 GHz Clause 9, Radiation measurements: 1 GHz to 18 GHz)
CISPR 14-1:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission  (Excluded the following clauses: Clause 4.3.4.5, Radiated disturbance limits - 30 MHz to 1000 MHz Clause 4.3.5, Frequency range 1 GHz to 6 GHz)
CISPR 14-2:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard  (Excluded the clause 5.5, Radio frequency electromagnetic fields, 80 MHz to 6 GHz)
CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

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	(Excluded the clause 4.5.3, Frequency range 30MHz to 1 GHz – table 9, table 10 the OATS or SAC methods)
CISPR 32:2015+AMD1:2019	Electromagnetic compatibility of multimedia equipment - Emission requirements  (Excluded the clause Annex A.2, Requirements for radiated emissions and Annex C.4, Annex D.3, and Annex H.4.2 are excluded as well)
CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements  (Excluded the clause 5, Immunity requirements, Table 1; 1.2- Continuous RF electromagnetic field disturbances swept test and 1.3 Continuous RF electromagnetic field disturbances spot test)
EN 55032:2015+A11:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements  (Excluded the clause Annex A.2, Requirements for radiated emissions and Annex C.4, Annex D.3, and Annex H.4.2 are excluded as well)
EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment - Immunity requirements  (Excluded the clause 5, Immunity requirements, Table 1; 1.2- Continuous RF electromagnetic field disturbances swept test and 1.3 Continuous RF electromagnetic field disturbances spot test)
EN 61000-3- 3:2013/A2:2021	Electromagnetic compatibility (EMC) - Part 3-3: Limits -Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <16 A per phase and not subject to conditional connection  (Excluded Three Phase Equipment)
EN 61000-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test  (Excluded Three Phase Equipment)
EN 61000-4-5:2014+A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test  (Excluded Three Phase Equipment, Signal terminal 10/700us waveform, and Signal terminal)
EN 61000-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields

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	(Excluded Three Phase Equipment and Signal terminal)
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements  (Excluded the clause 5.3, Radio Frequency Electromagnetic fields)
EN 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic
EN IEC 55014-1:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission  (Excluded the following clauses: Clause 4.3.4.5, Radiated disturbance limits - 30 MHz to 1000 MHz Clause 4.3.5, Frequency range 1 GHz to 6 GHz)
EN IEC 55014-2:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard  (Excluded the clause 5.5, Radio frequency electromagnetic fields, 80 MHz to 6 GHz)
EN IEC 55015:2019+A11:2020	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  (Excluded the clause 4.5.3, Frequency range 30MHz to 1 GHz – table 9, table 10 the OATS or SAC methods)
EN IEC 61000-3-2:2019+A1:2021	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current < 16 A per phase)  (Excluded Three Phase Equipment)
EN IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, ,short interruptions and voltage variations immunity test  (Excluded Three Phase Equipment)
EN IEC 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards. immunity for residential, commercial and light-industrial environments  (Excluded the clause 9, Immunity test requirements – Table 1: Immunity requirements – Enclosure port 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
EN IEC 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments

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	(Excluded the clause 9, Immunity test requirements - Table 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
EN IEC 61000-6-3:2021	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards - Emission standard for residential environments  (Excluded the clause 11, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
EN IEC 61000-6-4:2019	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments  (Excluded the clause 9, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
GB 4343.1-2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission  (Excluded the following clauses: Clause 4.3.4.5, Radiated disturbance limits - 30 MHz to 1000 MHz Clause 4.3.5, Frequency range 1 GHz to 6 GHz)
GB 4824-2019	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics limits and methods of measurement  (Excluded the following clauses: Clause 8, OATS and SAC for measurements in the range 9 kHz to 1 GHz Clause 9, Radiation measurements: 1 GHz to 18 GHz)
GB 17625.1-2012	Electromagnetic compatibility (EMC) - Limits - Limits for harmonic current emissions (equipment input current < 16 A per phase)  (Excluded Three Phase Equipment)
GB 17799.3-2012	Electromagnetic compatibility (EMC) - Generic standards - Emission standard for residential commercial and light-industrial environments  (Excluded the clause 11, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
GB 17799.4-2012	Electromagnetic compatibility (EMC) - Generic standards - Emission standard for industrial environments  (Excluded the clause 9, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
GB/T 4343.2-2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Immunity - Product family standard  (Excluded the clause 5.5, Radio frequency electromagnetic fields, 80 MHz to 6 GHz)

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GB/T 9254.1-2021	Electromagnetic compatibility of multimedia equipment - Emission requirements  (Excluded the clause Annex A.2, Requirements for radiated emissions and Annex C.4, Annex D.3, and Annex H.4.2 are excluded as well)
GB/T 9254.2-2021	Electromagnetic compatibility of multimedia equipment - Immunity requirements  (Excluded the clause 5, Immunity requirements, Table 1; 1.2- Continuous RF electromagnetic field disturbances swept test and 1.3 Continuous RF electromagnetic field disturbances spot test)
GB/T 16915.2-2012	Switches for household and similar fixed electrical installations - Particular requirements - Electronic control devices  (Excluded the following clauses: Clause 26.1.5, Immunity of Radiated electromagnetic field test Clause 26.2.2, Radiated radio frequency emission above 30 MHz)
GB/T 17625.2-2007	Electromagnetic compatibility (EMC) - Limits -Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <16 A per phase and not subject to conditional connection  (Excluded Three Phase Equipment)
GB/T 17626.2-2018	Electromagnetic compatibility (EMC) - Testing and measurement techniques - Electrostatic discharge immunity test
GB/T 17626.4-2018	Electromagnetic compatibility (EMC) - Testing and measurement techniques - Electrical fast transient/burst immunity test  (Excluded Three Phase Equipment)
GB/T 17626.5-2019	Electromagnetic compatibility (EMC) - Testing and measurement techniques - Surge immunity test  (Excluded Three Phase Equipment, Signal terminal 10/700us waveform, and Signal terminal)
GB/T 17626.6-2017	Electromagnetic compatibility (EMC) - Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  (Excluded Three Phase Equipment and Signal terminal)
GB/T 17626.11-2008	Electromagnetic compatibility (EMC) - Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test  (Excluded Three Phase Equipment)
GB/T 17743-2021	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment



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	(Excluded the clause 4.5.3, Frequency range 30MHz to 1 GHz – table 9, table 10 the OATS or SAC methods)
GB/T 17799.1-2017	Electromagnetic compatibility (EMC) - Generic standards immunity for residential, commercial and light-industrial environments  (Excluded the clause 9, Immunity test requirements – Table 1: Immunity requirements – Enclosure port 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
GB/T 17799.2-2003	Electromagnetic compatibility (EMC) - Generic standards - Immunity for industrial environments  (Excluded the clause 9, Immunity test requirements - Table 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
GB/T 18595-2014	Equipment for general lighting purposes - EMC immunity requirements  (Excluded the clause 5.3, Radio Frequency Electromagnetic fields)
GB/T 31275-2020	Assessment of lighting equipment related to human exposure to electromagnetic
IEC 60669-2-1:2021	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices  (Excluded the following clauses: Clause 26.2, Immunity – Table 117: Radiated electromagnetic field test of IEC 61000-4-3 Clause 26.3.4, Radiated radio frequency emission above 30 MHz)
IEC 61000-3-2:2018+AMD1:2020	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current < 16 A per phase)  (Excluded Three Phase Equipment)
IEC 61000-3-3:2013/AMD2:2021	Electromagnetic compatibility (EMC) - Part 3-3: Limits -Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <16 A per phase and not subject to conditional connection  (Excluded Three Phase Equipment)
IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test  (Excluded Three Phase Equipment)
IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

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IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test  (Excluded Three Phase Equipment)
IEC 61000-4-5:2014+AMD1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test  (Excluded Three Phase Equipment, Signal terminal 10/700us waveform, and Signal terminal)
IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  (Excluded Three Phase Equipment and Signal terminal)
IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards. immunity for residential, commercial and light-industrial environments  (Excluded the clause 9, Immunity test requirements – Table 1: Immunity requirements – Enclosure port 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments  (Excluded the clause 9, Immunity test requirements - Table 1.2 & 1.3: Radio-frequency electromagnetic field amplitude modulated)
IEC 61000-6-3:2020	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards - Emission standard for residential environments  (Excluded the clause 11, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments  (Excluded the clause 9, Emission test details - Table 3: Requirements for radiated emissions, enclosure port)
IEC 61547:2020	Equipment for general lighting purposes - EMC immunity requirements  (Excluded the clause 5.3, Radio Frequency Electromagnetic fields)
IEC 62493:2015+AMD1:2022 CSV	Assessment of lighting equipment related to human exposure to electromagnetic

ANSI: American National Standards Institute

ANSLG: American National Standard Lighting Group

ASTM: American Society for Testing and Materials

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CIE: International Commission on Illumination

EN: European Standards

GSO: GCC Standardization Organization

IEC: International Electrotechnical Commission

IES: Illuminating Engineering Society

ISO: International Organization for Standardization

SASO: Saudi Arabian Standards Organization

UL: Underwriters Laboratories

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