



INTERNATIONAL
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CERTIFICATE OF ACCREDITATION

This is to attest

CSA GROUP CONSUMER PRODUCT EVALUATION (CPE) SHANGHAI COMPANY LIMITED

1 F, BLDG. NO.4, SHANGHAI COMALONG TECHNOLOGY SERVICE PARK, 889 YI SHAN ROAD
SHANGHAI 200233, CHINA

Testing Laboratory TL-555

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* and with *IAS Integrated Accreditation Policy*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 1, 2026



International Accreditation Service

Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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CSA GROUP CONSUMER PRODUCT EVALUATION (CPE) SHANGHAI COMPANY LIMITED

www.csagroup.org

Location	Address	Contact Name	Contact Phone	Scope Pages
TL-555 Main	1F, Bldg. No.4, Shanghai Comalong Technology Service Park, 889 Yi Shan Road, Shanghai, 200233, China	Lotus Yao	+862087320648	2-4
TL-748 Integrated Location	4 Floor, Block 31, Shen Tian Hi- TechPark, No. 1525, Min Qiang Road., SongJiang, Shanghai, 201612, China	Lotus Yao	+862087320648	5-6

Accredited to ISO/IEC 17025:2017

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TL-555 Main

Energy Star – Program Requirements - Lighting	
ENERGY STAR® Program Requirements Product Specification for Downlights V1.0	
Energy Efficiency - Lighting	
ENERGY STAR Start Time Test Method	Start Time Test Method
ANSI C82.77-10:2020	Harmonic emission limits—related power quality requirements
CEC Title 24, part 6, Joint Appendices JA8	Qualification Requirements for High Efficacy Light Sources
CEC Title 24, part 6, Joint Appendices JA10	Test Method for Measuring Flicker of Lighting Systems
CIE 13.3-1995	Method of measuring and specifying color rendering of light sources
CIE 15-2018	Colorimetry standard
IEC 62301 Edition 2.0 (2011-01)	Household electrical appliances - measurement of standby power
IES LM-58-13	Guide to spectroradiometric measurements
IES LM-79-08	Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products



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IES LM 79-24	Approved method: Optical and electrical measurements of solid-state lighting products
IES TM-30-18	IES Method for Evaluating Light Source Color Rendition
Furniture	
ANSI/KCMA A161.1-2022	Performance and construction standard for kitchen and vanity cabinets
Power Tool	
PWMA PW101-2018	Standard for Testing and Rating Performance of Pressure Washers: Determination of Pressure and Water Flow
CETA-CPC100	Standard for Testing and Rating Performance of Pressure Washers: Determination of Pressure and Water Flow
Lighting	
ANSI/PLATO FL1-2019	Flashlight basic performance standard
Plumbing	
ASME A112.18.1-2024	Plumbing supply fittings [applicable clauses 5.2.2 (only neutral salt test), 5.2.3 (only heat-quench test and thermal cycling), 5.3.1, 5.3.2, 5.3.4, 5.3.5, 5.4, 5.5, 5.6 (except for the hose extension test), 5.7, and 5.8]
ASME A112.18.2-2020	Plumbing waste fittings [applicable clauses 5.2 (only neutral salt test), 5.4 (only neutral salt test, heat-quench test and thermal cycling), 5.5, 5.8, 5.9, and 5.11]
ASME A112.19.2-2024	Ceramic plumbing fixtures (applicable clauses 6.2, 6.3, 6.4, 6.6, 6.7, and 7.3)
ASME A112.19.3-2022	Stainless steel plumbing fixtures (applicable clauses 5.1, 5.2, 5.4, and 5.5.2)
CAN/CSA-B70-19	Cast iron soil pipe, fittings, and means of joining
CSA B45.1:24	Ceramic plumbing fixtures (applicable clauses 6.2, 6.3, 6.4, 6.6, 6.7, and 7.3)
CSA B45.4:22	Stainless steel plumbing fixtures (applicable clauses 5.1, 5.2, 5.4, and 5.5.2)
CSA B45.5:22	Plastic plumbing fixtures (applicable clauses 5.3, 5.4, 5.7, 5.8.6, 5.13, and 5.14)
CSA B125.1:24	Plumbing supply fittings [applicable clauses 5.2.2 (only neutral salt test), 5.2.3 (only heat-quench test and thermal cycling), 5.3.1, 5.3.2, 5.3.4, 5.3.5, 5.4, 5.5, 5.6 (except for the hose extension test), 5.7, and 5.8]
CSA B125.2-20	Plumbing waste fittings [applicable clauses 5.2 (only neutral salt test), 5.4 (only neutral salt test, heat-quench test and thermal cycling), 5.5, 5.8, 5.9, and 5.11]
IAPMO Z124-2022	Plastic plumbing fixtures (applicable clauses 5.3, 5.4, 5.7, 5.8.6, 5.13, and 5.14)
Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment	
16 CFR Part 1407	Portable Generators: Requirements to Provide Performance and Technical Data by Labeling
CSA C22.2 No. 68-09	Motor-operated appliances (household and commercial) Clause No. 6.16.1 & 6.16.2 in 6.16 Hydrostatic strength — Pressure vessel and system parts
CSA C22.2 No. 68-18	Motor-operated appliances (household and commercial)

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	Clause No. 6.16.1 & 6.16.2 in 6.16 Hydrostatic strength — Pressure vessel and system parts
UL 1450 4th Edition	Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment Clause No. 57 Vibration Test & Clause No. 58 Hydrostatic Strength Test
Gas Appliances	
CSA Z630:19	Barbecue grill brushes
EN 14543 / BS EN 14543:2017	Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use, Sections 6.1, 6.2, 6.3.2, 6.3.4, 6.4, 7.3.1, 7.3.3.2, 7.3.3.5 and 7.3.4
EN 1860-1 & BS EN 1860-1:2024	Appliances, solid fuels and firelighters for barbecuing - Part 1: Barbecues burning solid fuels - Requirements and test methods, Sections 4.2.1, 4.2.2 and 4.2.7; Section 5 (Not include 5.4.2 and 5.7)
EN 461 / BS EN 461:1999+A1:2004	Specification for dedicated liquefied petroleum gas appliances flueless non-domestic space heaters not exceeding 10 Kw, Sections 5.6.2, 5.15, 5.17, 5.18, 5.19, 5.23.3, 5.24.3, 6.6.2, 6.15, 6.17, 6.18, 6.19, 6.23.3 and 6.24.3
EN 484 / BS EN 484:2019	Specification for dedicated liquefied petroleum gas appliances - Independent hotplates, including those incorporating a grill for outdoor use, Sections 6.1, 6.2, 6.3, 6.4.3, 6.5, 6.7, 6.8, 7.2.7, 7.2.8, 7.3.1, 7.3.2, 7.3.3, 7.3.4.3, 7.3.5, 7.3.7, and 7.3.8
EN 498 / BS EN 498:2012	Specification for dedicated liquefied petroleum gas appliances – Barbecues for outdoor use contact grills included Sections 5.3 ~ 5.6, 5.9, 5.11, 5.16, 5.17, 6.1, 6.2, 6.3, 6.4.3, 6.5, 6.7, 6.8, 7.2.1 ~ 7.2.20, 7.3.1, 7.3.2, 7.3.3, 7.3.4.3, 7.3.5, 7.3.7, 7.3.8, and 8.1 ~ 8.3
EN 509 & BS EN 509:2024	Decorative fuel-effect gas appliances, Sections 6.2 and 7.3
UL 2728A-19	Pellet Fuel Burning Cooking Appliances, Sec. 16, 17, 25, 26 & 29
ULC 2728-19	Pellet Fuel Burning Cooking Appliances, Sec. 5.2, 5.3, 5.13, 5.14 & 5.17
Physical	
ASTM B117-26	Standard practice for Operating Salt Spray (Fog) Apparatus
ASTM D4169-23	Standard Practice for Performance Testing of Shipping Containers and Systems, Section 6 and 10

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TL-748

Integrated Location

Chemical	
3051A	Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils
16 CFR Part 1303	Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint
16 CFR Part 1307	Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates
ASTM C738-1994 (2025)	Standard test method for lead and cadmium extracted from glazed ceramic surfaces
ASTM C927-1980 (25a)	Standard test method for lead and cadmium extracted from the lip and rim area of glass tumblers externally decorated with ceramic glass enamels
ASTM F2617	Standard test method for identification and quantification of lead in polymeric material using energy dispersive x-ray spectrometry
CPSC-CH-C1001-09-4	Standard operating procedure for determination of phthalates
CPSC-CH-E1001-08.3	Standard operating procedure for determining total lead (Pb) in children's metal products (including children's metal jewelry) revision
CPSC-CH-E1002-08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products
CPSC-CH-E1003-09	Standard operating procedure for determining lead (Pb) in paint and other similar surface coatings
Directive 84/500/EEC	Relating to ceramic articles intended to come into contact with foodstuffs Annex I Basic rules for determining the migration of Lead and Cadmium Annex II Methods of analysis for determining the migration of Lead and Cadmium
EPA Method 3050B	Acid digestion of sediments, sludges, and soils
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 62321-4:2017	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 ₇ . Only ICP-OES method, Exclusion: section 7.3.

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IEC 62321-5:2013	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS. Only ICP-OES method. Exclusion: section 7.1.2.
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 62321-7-2: 2017	Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics 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 by GC-MS method (Py-TD-GC-MS). Exclusion: GC-MS using a pyrolyzer/thermal desorption accessory (Py-TD-GC-MS).
NIOSH 7105	Lead by GFAAS
NIOSH 7300	Elements by ICP (nitric/ perchloric acid ashing), Lead (Pb) and Cadmium (Cd)
NIOSH 9100	Lead in surface wipe samples
NSF/ANSI 372-2024	Drinking water system components - lead content
SOR 2014-254	Products Containing Mercury Regulations (Total mercury)
SOR 2018-83	Consumer Products Containing Lead Regulations (Total Lead)
SOR 2016-175	Glazed Ceramics and Glassware Regulations (Migratable for Lead and Cadmium)
SOR 2016-181	Kettles Regulations (Extractable Pb)
SOR 2016-188	Phthalates Regulations (Total DEHP, DBP, BBP, DINP, DIDP and DNOP)
SOR 2016-193	Surface Coating Materials Regulations (Total Lead and mercury)
SOR-2018-82	Children's Jewellery Regulations (Total Lead and Cadmium)

CPSC: Consumer Product Safety Commission

EPA: Environmental Protection Agency

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NIOSH: National Institute for Occupational Safety and Health

NSF: National Sanitation Foundation

