


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO/IEC 17025:2017</p>	LIA LABORATORY LIMITED	
	Issue No: 048 Issue date: 16 November 2023	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SECTION 1: LUMINAIRES General Requirements	<u>Safety Tests</u> Electrical, Mechanical and Thermal <u>Ingress Protection Tests</u> IP1X to IP6X IPX3 to IPX5, IPX6, IPX7 and IPX8 RESTRICTIONS: Ingress protection tests restricted to luminaires not exceeding 900 mm in length Humidity tests restricted to luminaires not exceeding 1200 mm in length Thermal tests restricted to luminaires not exceeding:- Tungsten/tungsten-halogen lamps: 1000 W Sodium/mercury type discharge lamps: 400 W	EN IEC 60598-1:2021 + A11:2022 Excluding Rough service luminaires (clauses 4.13.4, 4.20) and clauses 4.34, 9.2.10 & 9.2.11 EN IEC 60598-1:2021 + A11:2022 Excluding clauses 9.2.10 and 9.1.11 (IPX9)



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SECTION 1: LUMINAIRES (cont'd)		
Fixed luminaires	Safety tests	EN IEC 60598-2-1:2021 IEC 60598-2-1:2020
Recessed luminaires	Safety tests	EN 60598-2-2:2012 IEC 60598-2-2:2023
Road and Street Lighting	Safety tests Maximum input voltage 250 V ac C _d to be 1.2	EN 60598-2-3:2003 + A1:2011 Excluding: Clause 3.6.3.1 Drag coefficient measurement only
Portable luminaires	Safety tests	EN 60598-2-4:2018
Floodlights	Safety tests	EN 60598-2-5:2015
Luminaires with built in transformers	Safety tests	EN 60598-2-6:1995 + A1:1997
Portable child appealing luminaires	Safety tests	EN 60598-2-10:2003 Excluding: Clause 10.15.2
Socket-outlet mounted night lights	Safety tests	EN 60598-2-12:2013 Excluding: Clause 12.7.1, plug pins Clause 12.7.2, plug pins Clause 12.7.11, impulse test Clause 12.14.1, plug pins
Ground recessed luminaires	Safety tests	EN 60598-2-13:2006 + A2: 2016
Lighting chains	Safety tests	EN 60598-2-20:2010, Excluding: Clause 20.16 Sealed chains only
Emergency luminaires	Safety tests	EN IEC 60598-2-22:2022 EN 60598-2-22:2014 + A1:2020 IEC 60598-2-22:2014+Amd1:2017



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SECTION 2: COMPONENTS FOR LUMINAIRES		
Self-Ballasted LED Lamps	Safety tests	EN 62560:2012+A11:2019 Excluding: Clause 6 GZ10 and GX53 lamp caps Clause 9 Torsion resistance of unused lamps
Double-capped LED lamps for general lighting servicesn	Safety tests	IEC 62776 Edition 1.0 2014
Lamp controlgears	Safety tests	EN 61347-1:2015+A1:2021 (exclude section 14.7 and Annex P)
Ballasts for emergency luminaires	Safety tests	EN 61347-2-7:2012+A1:2019 + A2:2022
Miscellaneous electronic circuits used with Luminaires	Safety tests	EN 61347-2-11:2001+A1:2019
DC or AC supplied electronic ballasts for LED modules	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only a.c. only	EN 61347-2-13:2014+A1:2017
DC or AC supplied electronic contolgear for LED modules	Performance tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only a.c. only	EN 62384:2006 + A1 Excluding: Clause 11, audio frequencies
Edison screw lampholders	Electrical safety	EN 60238:2018+A1:2018 + A2:2021 AS/NZ 60238:2015+A1:2015 E27, E14 & E40 lampholder types only
Supply track systems for luminaires	Electrical safety	EN 60570:2003 + A2:2020
Electric Toys (Luminaire toys only)	Safety tests	EN 62115:2020+A11:2020 (only clauses 9.4 and 9.10)
Self-ballasted LED lamps – performance	Performance tests	EN 62612: 2013



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SECTION 3: GENERAL TESTS		
Electric appliances (luminaires, sensors, CCTV cameras, power supplies for IT, etc.) for connection to un-metered Supplies (UMSUG)	Power, current, voltage, frequency and power factor measurement	ELEXON Operational Information Document V29.0
Electrical Equipment - IK codes	Safety tests – Impact resistance	EN 62262:2008+A1:2021 Excluding: IK01, IK11
Luminaires – IK codes	Safety tests – Impact resistance	IEC TR 62696:2011
Fire hazard testing	Glow wire test	EN 60695-2-10:2013 EN 60695-2-11:2014 EN IEC 60695-2-12:2021 EN IEC 60695-2-13:2021
Fire hazard testing	Ball Pressure test	EN 60695-10-2:2014
Fire hazard testing	Needle flame test	EN 60695-11-5: 2017
Enclosures for Electrical Equipment	Ingress protection tests:- IP1X Protected against solid objects greater than 50 mm diameter IP2X Protected against solid objects greater than 12 mm diameter IP3X Protected against solid objects greater than 2.5 mm diameter IP4X Protected against solid objects greater than 1.0 mm diameter IP5X/IP6X Dust protected Excluding: Objects greater than 810 x 760 x 800 mm	EN 60529:1992 + A2:2013



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<p>SECTION 3: GENERAL TESTS (cont'd)</p> <p>Enclosures for Electrical Equipment (cont'd)</p>	<p>Ingress protection tests:- (cont'd)</p> <p>IP6X Dust Tight Excluding: Objects greater than 810 x 760 x 800 mm</p> <p>IPX3 Protected against spraying water</p> <p>IPX4 Protected against splashing water</p> <p>IPX5 Protected against water jets</p> <p>IPX6 Protected against powerfull water Jets</p> <p>IPX7 Protected against the effects of immersion Excluding: Objects greater than Ø 350 x 500 mm</p> <p>IPX8 Protected against the effects of submersion. Excluding: Objects greater than Ø 350 x 500 mm Maximum depth: 100 metres</p>	<p>EN 60529:1992 + A2:2013 Excluding: IPX9</p>



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<p>Environmental Design Guide Adult Medium Secure Services (Antiligature testing)</p> <p>Vandal resistant luminaires for STANDARD cellular accommodation (Antiligature testing)</p> <p>Ligature-free vandal resistant luminaires for use in cellular accommodation including Safer-cells (Antiligature testing)</p>	<p>Mechanical resistance assessment of luminaires</p> <p>Mechanical and fire resistance assessment of luminaires</p> <p>Mechanical and fire resistance assessment of luminaires</p>	<p>Environmental Design Guide Adult Medium Secure Services Only Annex B: Testing levels: Type 1; Type 2; Type 3 and Type 4</p> <p>STD/E/PT/059 Only clauses 2.01.2, 2.01.4, 2.01.5, 2.01.6, 2.01.6, 2.01.7, 2.01.8 and section 3</p> <p>STD/E/PT/060 Only clauses 2.01.2, 2.01.4, 2.01.5, 2.01.6, 2.01.6, 2.01.7, 2.01.8 and section 3</p>



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SECTION 4: PHOTOMETRY		
Lamps and Luminaires	Photometric measurement: Measurements using an Integrating sphere: Luminous Flux, Luminous efficacy, Spectral total flux, Chromaticity Coordinates, Correlated Colour Temperature and Colour Rendering Indices using an Integrating Sphere Integrating Sphere: Maximum largest dimension of test artefact 1800mm Measurements using a Goniophotometer: Total Luminous Flux Useful Luminous Flux Luminous Efficacy Centre Beam Intensity and Beam angles Luminous Intensity Distribution Goniophotometer: Maximum largest dimension of test artefact 1900mm	Documented in-house method in accordance with : IES-LM-79-08 (Clause 9.1 and 9.3) IEC/PAS 62612 (Clauses 6, 7, 8, 9 and 10) CIE 13.3:1995 CIE 84:1989 CIE 121:1996 (Clause 6.3.3) CIE 127:2007 (integrating sphere method) EN 13032-1:2004 + A1:2012 (Clause 6.1.1.3 and 6.1.2) EN 13032-4:2015 + A1:2019 (Clause 4.5.3,4.5.4, 6.2, 6.3, 6.4, 6.5 and 6.6)
Lamps and Lamp systems	Photometric Flicker measurements	IES Lighting Handbook, 10 th Edition (definition of flicker index)
LED lamps and luminaires	Blue Light Hazard	EN IEC 60598-1:2021+A11:2022 (Clause 4.24.2) EN 62560:2012 + A11:2019 (Clause 17.2) EN 62031 :2020 (Clause 21.2) IEC/TR 62778:2014 BS EN 62471:2008 Clauses 4.3.3 and 4.3.4 only

NOTE: Where the EN standards listed above have technical equivalents in IEC and BS EN standards, these IEC and BS EN standards are also included in the accreditation.

END