

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>LIA LABORATORIES LIMITED</h3> <p>Issue No: 028    Issue date: 29 January 2014</p>	
	<p>Stafford Park 7 Telford Shropshire TF3 3BQ</p>	<p>Contact: Mr Mark Salt Tel: +44 (0)1952 290907 Fax: +44 (0)1952 290908 E-Mail: lab@thelia.org.uk Website: www.lialab.org.uk</p>
<p>Testing performed at the above address only</p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SECTION 1: LUMINAIRES		
General Requirements	<p><u>Safety Tests</u></p> <p>Electrical, Mechanical and Thermal</p> <p><u>Ingress Protection Tests</u></p> <p>IP1X to IP6X IPX3 to IPX5, IPX6, IPX7 and IPX8</p> <p>RESTRICTIONS:</p> <p>Ingress protection tests restricted to luminaires not exceeding 900 mm in length</p> <p>Humidity tests restricted to luminaires not exceeding 1200 mm in length</p> <p>Thermal tests restricted to luminaires not exceeding:-</p> <p>Tungsten/tungsten-halogen lamps: 1000 W</p> <p>Sodium/mercury type discharge lamps: 400 W</p>	<p>EN 60598-1:2008 Excluding: Fixed rough service luminaires</p>
Fixed luminaires	Safety tests	EN 60598-2-1:1989
Recessed luminaires	Safety tests	EN 60598-2-2:1997 + A1 EN 60598-2-2:2012



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Road and Street Lighting	Safety tests  Maximum input voltage 250 V ac C <sub>d</sub> to be 1.2	EN 60598-2-3:2003 + A1 Excluding: Clause 3.6, Drag coefficient measurement Clause 3.6.8, 5 Nm Impact test Deviation: Clause 13.3 carried out at 25 - 30°C
Portable luminaires	Safety tests	EN 60598-2-4:1998
Floodlights	Safety tests	EN 60598-2-5:1998 + A1
Luminaires with built in transformers	Safety tests	EN 60598-2-6:1995 + A1
Portable luminaires for garden use	Safety tests	EN 60598-2-7:1997 + A1 + A2
Portable child appealing luminaires	Safety tests	EN 60598-2-10:2003 Excluding:- Clause 10.15.2
Socket-outlet mounted night lights	Safety tests	EN 60598-2-12:2006, Excluding: Clause 12.6.1, plug pins Clause 12.6.2, plug pins Clause 12.6.11, impulse test Clause 12.13.1, plug pins
Ground recessed luminaires	Safety tests	EN 60598-2-13:2006 + A1 Excluding: Clause 13.6.1, static load Clause 13.6.2.2, shear load
Lighting chains	Safety tests	EN 60598-2-20:2010, Excluding: Clause 20.16 Sealed chains only
Emergency lighting	Safety tests	EN 60598-2-22:1998 + A2
Self-Ballasted LED Lamps	Electrical safety	EN 62560:2012 Excluding: Clause 6 Clause 9



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<b>SECTION 2: COMPONENTS FOR LUMINAIRES</b>		
AC supplied electronic ballasts for tubular fluorescent lamps	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	EN 60929:2011 Excluding: Clause 8.3.2 control interfaces
Self ballasted lamps for general lighting services	Safety tests	EN 60968:2013 Excluding: Lamp caps other than B22
Lamp Controlgear	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	EN 61347-1: 2008 + A1 & A2 Excluding: DC equipment Convertors Clause 14.4, Fault condition
AC Supplied electronic ballasts for tubular fluorescent lamps	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	EN 61347-2-3: 2011 Excluding: Clause 11 Leakage current  Annex 1, Leakage current
Ballasts for emergency luminaires	Safety tests	EN 61347-2-7:2012
Ballasts for tubular fluorescent lamps	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	EN 61347-2-8:2001 + A1 Excluding: DC equipment Convertors Clause 15.1, HV Impulse test Clause 18, Tests on wires
Miscellaneous electronic circuits used with Luminaires	Safety tests	EN 61347-2-11:2002
d.c. or a.c. supplied electronic ballasts for LED modules	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only a.c. only	EN 61347-2-13:2006
LED modules for general lighting	Safety tests	EN 62031:2008 + A1
d.c. or a.c. supplied electronic controlgear for LED modules	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only a.c. only	EN 62384:2006 + A1 Excluding: Clause 11, audio frequencies



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<b>SECTION 2: COMPONENTS FOR LUMINAIRES</b>		
Ceiling roses	Electrical safety	BS 67:1987
Bayonet lampholders	Electrical safety	EN 61184:1997 B22d lampholder type only
Bayonet lampholders with enhanced safety	Electrical safety	BS 7895:1997 + A1 Excluding: Clause 20.1, Mercurous nitrate
Supply track systems for luminaires	Electrical safety	EN 60570:2003
<b>SECTION 3: PERFORMANCE TESTS</b>		
Self-ballasted compact fluorescent lamps	Performance tests	Energy Saving Trust Specification Version 6.1 For the following clauses only 3.1.5 3.1.6 3.1.7 3.1.8 3.2.1, Life test 3.2.6 3.2.7 Appendix D
LED luminaires	Performance tests	Energy Saving Trust specification for LED luminaires v 3.0, 2010
LED lamps and modules	Performance tests	Energy Saving Trust specification for LED lamps and modules v 2.0, 2010
Electric Toys (Luminaire toys only)	Safety Tests	EN 62115: 2005 +A2



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<b>SECTION 4: GENERAL TESTS</b>		
Electrical equipment for connection to un-metered Supplies (UMSUG)	Voltage Current Power Volt-amperes Power factor Resistance Efficiency	ELEXON testing procedure for issue of a charge code for new apparatus
Electrical Equipment - IK codes	Safety tests – Impact resistance	EN 62262:2002 Excluding: IK01 IK06
Luminaires – IK codes	Safety tests – Impact resistance	IEC TR 62696:2011 Excluding: IK01 IK06
Double capped tubular fluorescent tubes	Safety test - Fragment retention	EN 61549:2003 + A1-A3 Sheet 61549-IEC-810 only
Fire hazard testing	Glow wire test	EN 60695-2-10:2013 EN 60695-2-11:2001 EN 60695-2-12:2010 EN 60695-2-13:2010
Fire hazard testing	Ball Pressure test	EN 60695-10-2:2003
Fire hazard testing	Needle flame test	EN 60695-11-5: 2005
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	EN 60529:1992 + A1



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Enclosures for Electrical Equipment (cont'd)	Ingress protection tests:- (cont'd)  IP5X Dust protected Excluding: Objects greater than 810 x 760 x 800 mm  IP6X Dust Tight Excluding: Objects greater than 810 x 760 x 800 mm  IPX3 Protected against spraying water  IPX4 Protected against splashing water  IPX5 Protected against water jets  IPX6 Protected against powerfull water Jets  IPX7 Protected against the effects of immersion Excluding: Objects greater than Ø 350 x 500 mm  IPX8 Protected against the effects of submersion. Excluding: Objects greater than Ø 350 x 500 mm Maximum depth: 100 metres	EN 60529:1992 + A1
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	



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**Accreditation for the purpose of Notified Body Activity taking into account EA2/17**

Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
<p>The Low Voltage Directive 2006/95/EC</p> <p>as implemented in the UK by</p> <p>The Electrical Equipment (Safety) Regulations 1994, No 3260</p>	<p>Reports to Article 8 and Opinions to Article 9</p>	<p>Lamps and Luminaries</p>	<p>Principal elements of the Safety Objectives requirements Annex I of the Directive and Schedule 3 of the Regulations.</p>
END			