

issued by

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



LIA LABORATORIES LIMITED

Issue No: 030 Issue date: 17 December 2014

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Testing performed at the above address only

Materials/Products tested

Type of test/Properties
measured/Range of measurement

Standard specifications/
Equipment/Techniques used

SECTION 1: LUMINAIRES

General Requirements

Safety Tests

Electrical, Mechanical and Thermal

Ingress Protection Tests

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

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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ISO/IEC 17025:2005

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Road and Street Lighting	Safety tests Maximum input voltage 250 V ac C _d 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 6 GZ10 and GX53 lamp caps Clause 9 Torsion resistance of unused lamps
Electric Toys (Luminaire toys only)	Safety tests	EN 62115: 2005 +A2



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SECTION 2: COMPONENTS FOR LUMINAIRES		
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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SECTION 2: COMPONENTS FOR LUMINAIRES (cont)		
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
SECTION 3: PERFORMANCE TESTS		
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
Self-ballasted lamps – performance	Performance tests	EN.60969: 1993
Self-ballasted LED lamps – performance	Performance tests	EN.62612: 2013



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SECTION 4: GENERAL TESTS		
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 60695-10-2:2014
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)	<p>Ingress protection tests:- (cont'd)</p> <p>IP5X Dust protected Excluding: Objects greater than 810 x 760 x 800 mm</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>	EN 60529:1992 + A1



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SECTION 5: PHOTOMETRY		
Lamps and Luminaires	Photometric measurement: Luminous Flux, Luminous efficacy, Spectral total flux, Chromaticity Coordinates, Correlated Colour Temperature, Colour Rendering Indices	Documented in-house method in accordance with : IES-LM-79-08 (Clause 9.1) EN 13032-1:2004 (Clause 6.1.2) 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 6.1.2)
Lamps and Lamp systems	Photometric Flicker measurements	IES Lighting Handbook, 10 th Edition (definition of flicker index)

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

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
The Low Voltage Directive 2006/95/EC as implemented in the UK by The Electrical Equipment (Safety) Regulations 1994, No 3260	Reports to Article 8 and Opinions to Article 9	Lamps and Luminaires	Principal elements of the Safety Objectives requirements Annex I of the Directive and Schedule 3 of the Regulations.

END