

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



1286

Accredited to  
ISO/IEC 17025:2005

### The Lighting Association Laboratories – a trading division of The Lighting Industry Association Ltd

Issue No: 024 Issue date: 11 October 2012

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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	<p><u>Electrical Product Tests and Related Opinions and Interpretations</u></p> <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>BS EN 60598-1:2008 IEC 60598-1:2008 BS EN 60598-1:2004, Amd 1 IEC 60598-1:2003 BS EN 60598-1:2000, Amd 1, Corrig (withdrawn) BS EN 60598-1:1997, Amds 1 and 2 BS EN 60598-1:1993, Amds 1 to 4 (withdrawn) EN 60598-1:1993 (withdrawn) IEC 60598-1:1999 (withdrawn) BS 4533:Part 101:1990, Amd 1 (withdrawn) Excluding: Fixed rough service luminaires</p>



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SECTION 1: LUMINAIRES (cont'd)	<u>Electrical Product Tests and Related Opinions and Interpretations</u> (cont'd)	
Particular Requirements		
Fixed luminaires	Safety tests	BS 4533:Section 102.1:1990 EN 60598-2-1:1989
Recessed luminaires	Safety tests	BS EN 60598-2-2:1997, Amd 1 IEC 60598-2-2:1996 BS EN 60598-2-2:2012 IEC 60598-2-2 :2011 ed.3
Road and Street Lighting	Safety tests  Maximum input voltage 250 V ac C <sub>d</sub> to be 1.2	BS EN 60598-2-3:2003 + A1:2011 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Portable luminaires	Safety tests	BS EN 60598-2-4:1998 EN 60598-2-4:1989 (withdrawn) BS 4533:Section 102.4:1990, Amd 1 (withdrawn)
Floodlights	Safety tests	BS EN 60598-2-5:1998, Amd 1 IEC 60598-2-5:1998 EN 60598-2-5:1989 (withdrawn) BS 4533:Section 102.5:1990, Amd 1 (withdrawn)
Luminaires with built in transformers	Safety tests	BS EN 60598-2-6:1995, Amd 1 IEC 60598-2-6:1994
Portable luminaires for garden use	Safety tests	BS EN 60598-2-7:1997, Amds 1 to 5
Portable child appealing luminaires	Safety tests	BS EN 60598-2-10:2003 IEC 60598-2-10:2003 Excluding:- Clause 10.15.2 EN 60598-2-10:1989 (withdrawn) BS 4533:Section 102.10:1990, Amds 1 and 2 (withdrawn)



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SECTION 1: LUMINAIRES (cont'd) Particular Requirements (cont'd) Socket-outlet mounted night lights	<u>Electrical Product Tests and Related Opinions and Interpretations</u> (cont'd)  Safety tests	BS EN 60598-2-12:2006, Corrig IEC 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	BS EN 60598-2-13:2006, Corrig IEC 60598-2-13:2006 Excluding: Clause 13.6.1, static load Clause 13.6.2.2, shear load
Lighting chains	Safety tests	BS EN 60598-2-20:1998, Amds 1 to 3, Corrigs 1 - 4 Excluding: Clause 20.6.14 Sealed chains only rated at >IP20 Clause 20.15 Sealed chains only
Emergency lighting	Safety tests	BS EN 60598-2-22:1999, Corrig
SECTION 2: COMPONENTS FOR LUMINAIRES  AC supplied electronic ballasts for tubular fluorescent lamps. Performance requirements	<u>Electrical Product Component Tests and Related Opinions and Interpretations</u>  Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	BS EN 60929:2006 IEC 60929:2006 Excluding :- Clause 8.3.2, control interfaces
Self ballasted lamps for general lighting services	Safety tests	BS EN 60968:2000 Excluding :- Lamp caps other than B22



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SECTION 2: COMPONENTS FOR LUMINAIRES (cont'd)	<u>Electrical Product Component Tests and Related Opinions and Interpretations (cont'd)</u>	
Lamp Controlgear - General and safety requirements	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	BS EN 61347-1:2001 IEC 61347-1:2000 Excluding: DC equipment Convertors Clause 14.4, Fault condition  BS EN 61347-1: 2008 + A1: 2011 IEC 61347-1: 2008 + A1: 2011 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	BS EN 61347-2-3:2001, Amd 1 and 2 IEC 61347-2-3:2000 Excluding: Clause 11, Leakage current Clause 17, End of life test Annex 1, Leakage current  BS EN 61347-2-3: 2011 IEC 61347-2-3:2011 ed.2 Excluding: Clause 11, Leakage current Clause 17, End of life test Annex 1, Leakage current
Ballasts for emergency luminaires	Safety tests	BS EN 61347-2-7:2006 IEC 61347-2-7:2006 BS EN 61347-2-7:2001, Amd 1 and 2 (withdrawn) IEC 61347-2-7:2000 (withdrawn) Excluding: Clause 14, Impulse test



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SECTION 2: COMPONENTS FOR LUMINAIRES (cont'd)	<u>Electrical Product Component Tests and Related Opinions and Interpretations</u> (cont'd)	
Ballasts for tubular fluorescent lamps	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only	BS EN 61347-2-8:2001, Amd 1 IEC 61347-2-8:2001 Excluding DC equipment Convertors Clause 15.1, HV Impulse test Clause 18, Tests on wires
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	BS EN 61347-2-13:2006 IEC 61347-2-13:2006
LED modules for general lighting	Safety tests	BS EN 62031:2008
d.c. or a.c. supplied electronic controlgear for LED modules - performance requirements	Safety tests Maximum input voltage 250 V ac Rated Frequency 50 Hz only a.c. only	BS EN 62384:2006 IEC 62384:2006 Excluding: Clause 11, audio frequencies
Ceiling roses	Electrical safety	BS 67:1987
Bayonet lampholders	Electrical safety	BS EN 61184:1997 B22d lampholder type only
Bayonet lampholders with enhanced safety	Electrical safety	BS 7895:1997, Amd 1 Excluding: Clause 20.1, Mercurous nitrate
Supply track systems for luminaires	Electrical safety	BS EN 60570:2003



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SECTION 3: GENERAL TESTS	<u>Electrical Product Tests and Related Opinions and Interpretations</u>	
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
Fire Hazard Testing	Glow wire test	BS EN 60695-2-10:2001 BS EN 60695-2-11:2001 BS EN 60695-2-12:2001 BS EN 60695-2-13:2001 BS EN 60695-2-1/0:1997 (withdrawn) BS 6458:Section 2.1:1984 (obsolescent) IEC 60695-2-1:1980 (obsolescent)
Fire hazard testing. Abnormal heat. Ball pressure test	Ball Pressure test	BS EN 60695-10-2:2003 IEC 60695-10-2:2003
Fire hazard testing. Test flames. Needle-flame test method.	Needle Flame Test	BS EN 60695-11-5: 2005 IEC 60698-11-5:2004
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	BS EN 60529:1992, Amds 1 and 2



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<p>SECTION 3: GENERAL TESTS (cont'd)</p> <p>Enclosures for Electrical Equipment (cont'd)</p>	<p><u>Electrical Product Tests and Related Opinions and Interpretations</u> (cont'd)</p> <p>IP3X Protected against solid objects greater than 2.5 mm diameter</p> <p>IP4X Protected against solid objects greater than 1.0 mm diameter</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>INGRESS PROTECTION TESTS (cont'd)</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>	



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SECTION 3: GENERAL TESTS (cont'd)  Enclosures for Electrical Equipment (cont'd)	<u>Electrical Product Tests and Related Opinions and Interpretations</u> (cont'd)  IPX8 Protected against the effects of submersion. Excluding: Objects greater than Ø 350 x 500 mm Maximum depth: 3 metres	
Where the BS EN or IEC standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.		
END		