

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|   |   |   |
|---|---|---|
|  <p>Accredited to<br/>ISO/IEC 17025:2005</p> | <h3>LIA LABORATORIES LIMITED</h3> <p>Issue No: 025    Issue date: 04 October 2013</p> |   |
|   | <p>Stafford Park 7<br/>Telford<br/>Shropshire<br/>TF3 3BQ</p>                         | <p>Contact: Mr Mark Salt<br/>Tel: +44 (0)1952 290907<br/>Fax: +44 (0)1952 290908<br/>E-Mail: lab@lightingassociation.com<br/>Website: www.lightingassociation.com</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<br/>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</p> <p>Excluding:<br/>Fixed rough service luminaires</p> |
| Fixed luminaires          | Safety tests   | EN 60598-2-1:1989   |
| Recessed luminaires       | Safety tests   | EN 60598-2-2:1997 + A1<br>EN 60598-2-2:2012                                 |



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| Road and Street Lighting              | Safety tests<br><br>Maximum input voltage 250 V ac<br>C <sub>d</sub> to be 1.2 | EN 60598-2-3:2003 + A1<br>Excluding:<br>Clause 3.6, Drag coefficient measurement<br>Clause 3.6.8, 5 Nm Impact test<br>Deviation:<br>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<br>Excluding:-<br>Clause 10.15.2  |
| Socket-outlet mounted night lights    | Safety tests   | EN 60598-2-12:2006, <del>Corrig</del><br>Excluding:<br>Clause 12.6.1, plug pins<br>Clause 12.6.2, plug pins<br>Clause 12.6.11, impulse test<br>Clause 12.13.1, plug pins |
| Ground recessed luminaires            | Safety tests   | EN 60598-2-13:2006<br>Excluding:<br>Clause 13.6.1, static load<br>Clause 13.6.2.2, shear load  |
| Lighting chains                       | Safety tests   | EN 60598-2-20:2010,<br>Excluding:<br>Clause 20.16 Sealed chains only   |
| Emergency lighting                    | Safety tests   | EN 60598-2-22:1999   |
| Self-Ballasted LED Lamps              | Electrical safety  | EN 62560:2012<br>Excluding:<br>Clause 6<br>Clause 9  |



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| <b>SECTION 2: COMPONENTS FOR LUMINAIRES</b>                   |   |   |
| AC supplied electronic ballasts for tubular fluorescent lamps | Safety tests<br>Maximum input voltage 250 V ac<br>Rated Frequency 50 Hz only              | EN 60929:2006<br>Excluding:<br>Clause 8.3.2 control interfaces  |
| Self ballasted lamps for general lighting services            | Safety tests  | EN 60968:2000<br>Excluding:<br>Lamp caps other than B22   |
| Lamp Controlgear  | Safety tests<br>Maximum input voltage 250 V ac<br>Rated Frequency 50 Hz only              | EN 61347-1: 2008 + A1<br>Excluding:<br>DC equipment<br>Convertors<br>Clause 14.4, Fault condition                               |
| AC Supplied electronic ballasts for tubular fluorescent lamps | Safety tests<br>Maximum input voltage 250 V ac<br>Rated Frequency 50 Hz only              | EN 61347-2-3: 2011<br>Excluding:<br>Clause 17, End of life test   |
| Ballasts for emergency luminaires                             | Safety tests  | EN 61347-2-7:2006<br>Excluding:<br>Clause 14, Impulse test  |
| Ballasts for tubular fluorescent lamps                        | Safety tests<br>Maximum input voltage 250 V ac<br>Rated Frequency 50 Hz only              | EN 61347-2-8:2001 + A1<br>Excluding:<br>DC equipment<br>Convertors<br>Clause 15.1, HV Impulse test<br>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<br>Maximum input voltage 250 V ac<br>Rated Frequency 50 Hz only<br>a.c. only | EN 61347-2-13:2006  |
| LED modules for general lighting                              | Safety tests  | EN 62031:2008   |
| d.c. or a.c. supplied electronic controlgear for LED modules  | Safety tests<br>Maximum input voltage 250 V ac<br>Rated Frequency 50 Hz only<br>a.c. only | EN 62384:2006<br>Excluding:<br>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<br>B22d lampholder type only   |
| Bayonet lampholders with enhanced safety    | Electrical safety                                     | BS 7895:1997 + A1<br>Excluding:<br>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<br>Version 6.1<br>For the following clauses only<br>3.1.5<br>3.1.6<br>3.1.7<br>3.1.8<br>3.2.1, Life test<br>3.2.6<br>3.2.7<br>Appendix D |
| LED luminaires                              | Performance tests                                     | Energy Saving Trust specification<br>for LED luminaires v 3.0, 2010  |
| LED lamps and modules                       | Performance tests                                     | Energy Saving Trust specification<br>for LED lamps and modules v 2.0,<br>2010  |



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| <b>SECTION 4: GENERAL TESTS</b>                                    |  |  |
| Electrical equipment for connection to un-metered Supplies (UMSUG) | Voltage<br>Current<br>Power<br>Volt-amperes<br>Power factor<br>Resistance<br>Efficiency  | ELEXON testing procedure for issue of a charge code for new apparatus                |
| Electrical Equipment - IK codes                                    | Safety tests – Impact resistance   | EN 62262:2002<br>Excluding:<br>IK01<br>IK06  |
| Luminaires – IK codes  | Safety tests – Impact resistance   | IEC TR 62696:2011<br>Excluding:<br>IK01<br>IK06                                      |
| Double capped tubular fluorescent tubes                            | Safety test - Fragment retention   | EN 61549:2003 + A1-A3<br>Sheet 61549-IEC-810 only                                    |
| Fire hazard testing  | Glow wire test   | EN 60695-2-10:2001<br>EN 60695-2-11:2001<br>EN 60695-2-12:2012<br>EN 60695-2-13:2001 |
| 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:-<br><br>IP1X Protected against solid objects greater than 50 mm diameter<br><br>IP2X Protected against solid objects greater than 12 mm diameter<br><br>IP3X Protected against solid objects greater than 2.5 mm diameter<br><br>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)<br><br>IP5X Dust protected<br>Excluding:<br>Objects greater than<br>810 x 760 x 800 mm<br><br>IP6X Dust Tight<br>Excluding:<br>Objects greater than<br>810 x 760 x 800 mm<br><br>IPX3 Protected against spraying water<br><br>IPX4 Protected against splashing water<br><br>IPX5 Protected against water jets<br><br>IPX6 Protected against powerfull water Jets<br><br>IPX7 Protected against the effects of immersion<br>Excluding:<br>Objects greater than<br>Ø 350 x 500 mm<br><br>IPX8 Protected against the effects of submersion.<br>Excluding:<br>Objects greater than<br>Ø 350 x 500 mm<br>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  |   |  |