



# UMS Charge Code Form - Lamps

ALL APPLICATIONS ARE SUBJECT TO UMSUG APPROVAL AND APPLICATIONS ARE NOT GUARANTEED TO BE PROCESSED IN TIME FOR THE NEXT RELEASE DATE, PARTICULARLY WHERE LARGE OR CONTENTIOUS.

**Company Name:** D. S. INTERNATIONAL LIMITED  
**Contact Name:** ALAN FALCONER  
**Contact Telephone Number:** 07740031212  
**Email Address:** Alan.falconer@lightways.co.uk

Please complete all of the questions below using the Guidance Notes supplied as a separate attachment. All fields are mandatory.

## Your Test Data and Supporting Evidence

\*Please place a cross against all completed steps and attach supporting documents to your email.

1	Has your equipment been tested by an ISO 9001 or 17025 accredited test house?	X
2	Have you included evidence of the test house's accreditation?	X
3	Have you included test data for your equipment that meets the requirements outlined in the Guidance Notes below?	X
4	Have you included a product specification or brochure?	X

## Your Product

		Details
5	What type of lamp/driver are you submitting an application for?	LED 41
6	What is the nominal wattage of your equipment?	30W
7	What type of control gear does your lamp/driver operate with?	0
8	What is the product's name or model number?	AXION 30W HB-081-30W
9	Is your company the manufacturer of this product?	ZHONGSHAN HONGBAO ELECTRICAL Co. Ltd.

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



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### LIA LABORATORIES LIMITED

Issue No: 028 Issue date: 29 January 2014

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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>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</p> <p>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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<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 contolgear 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<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
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 Luminaries	Principal elements of the Safety Objectives requirements Annex I of the Directive and Schedule 3 of the Regulations.
END			

## A “one stop” solution for all your testing needs

We are a UKAS accredited laboratory located within the UK. We are also able to provide international CB test and certification in association with our certification body TUV Rheinland. We are a UK Government appointed Notified Body under the Low Voltage Directive.

A Lighting Association Laboratory Certificate and Test Report offer a high degree of market place credibility in the lighting industry.

Our strategy is deliberate in that we are not part of a large global testing group. We can however, deliver international approvals via our certification body as required. This has enabled us to deliver a personal service to our clients ensuring that our results will be trusted and highly valued by their customers.

Our clients range from the largest lighting companies through major high street retail chains right across to new companies just starting out. Our activities cover all aspects of the lighting industry both in the commercial and domestic arenas

**See our list of services to find out more about our capability.**

### General Testing Services / Capability

Luminaires (All Types)	BS EN 60598 series
Ingress Protection	BS EN 60529
Lamp Control Gear (wound)	BS EN 61347-2-8
Lamp Control Gear (electronic)	BS EN 61347-2-3
Lamp Control Gear (emergency)	BS EN 61347-2-7
Lamp Control Gear (LED)	BS EN 61347-2-12
Ballast Performance	BS EN 60929
Lamp & Ballast Energy Class	ErP Directive
Lamp holders, BC	BS EN 61184
Lamp holders Misc	BS EN 60838
Filament Lamp Safety	BS EN 60432
Filament Lamp Performance	BS EN 60357
Self Ballasted CFL safety	BS EN 60968
Self Ballasted CFL performance	BS EN 60969
Single Cap Lamp Safety	BS EN 61199
Full IP Facility up to IP68	BS EN 60529
Double Cap Lamp Safety	BS EN 61195
Track Systems	BS EN 60570
Fire Hazard Testing	BS EN 60695

### Photometric Services

LED light output measurement.  
LED Luminaire Light output assessment  
Gonio-photometric facility.  
Spotlight lux level + Beam Angle Assessment  
1.8 + 1.0 metre Integrating Sphere.  
Colour Monochromator.  
Colour rendering index.  
Colour temperature measurement.  
UV light assessment. BS EN 62471

### Other Services

CFL Lamp assessment – Energy Saving Trust Specification  
EMC  
ENEC & CB Scheme accredited Laboratory for Luminaires.  
Fault Finding Investigations  
Lamp Shade Assessment & Testing  
Luminaires  
NRTL cTUVus mark  
UK Government Appointed Notified Body – Lamps & UMSUG – Power Measurement Assessment.



*For any other testing requirement in lighting you may have please give us a call I'm sure we can provide all you need.*

**T: 01952 290907**



**Contact us today!**

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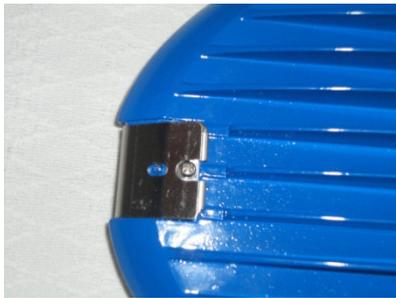
**E: lab@lightingassociation.com**

**W: www.lalab.co.uk**

## Technical specifications

MODEL	Initial Luminaire Flux Lumens	Power Consumption	Weight	Windage
AXION 20	1920		4.5kg.	0.16m <sup>2</sup>
AXION 30	3360		4.5kg.	0.16m <sup>2</sup>
AXION 40	3580		4.5kg.	0.16m <sup>2</sup>
AXION 50	3940		4.5kg.	0.16m <sup>2</sup>





Stainless steel locking catch



Sider entry



Post Mount