



theLIA



LABORATORY
SERVICES



Laboratory

OUR TESTING SERVICES
HELP OUR CUSTOMERS TO
DEVELOP TRUSTED BRANDS
INCREASE PRODUCT VALUE AND
GAIN COMPETITIVE ADVANTAGE.

THE LIA LABORATORY

The LIA Laboratory is Europe's largest independent test laboratory dedicated to lighting.

Based in Telford, Shropshire, UK, the LIA Lab is the largest facility of its type in Europe. With a 12,500 sq ft purpose-built lab and state-of-the-art testing equipment, it provides a national testing asset for the whole of the lighting industry.

Accredited by UKAS and as a National Certification Body under the IECCE, the LIA Laboratory has the capability of providing several certification services including CB Certification and our very own LIA Schemes.

We offer application engineering and luminaire performance services, and complete laboratory photometry services. In addition to testing we inspect and certify products. We help you improve product performance and gain efficiencies (in both manufacturing and logistics). Our testing services support you in overcoming market constraints and reducing risk.



OUR SERVICES

CB Certification

The LIA Laboratory is an official National Certification Body for the IECEE CB Scheme helping you enter international markets with certificates that will be accepted worldwide.

The IECEE CB Scheme is an international system for mutual acceptance of test reports and certificates dealing with the safety and performance of electrical and electronic components, equipment and products among participating countries and certification organisations.

As one of only four National Certification Bodies in the United Kingdom and the only one dedicated to the lighting industry, we are able to help you access 54 International markets including:

- Australia
- China
- Europe
- Malaysia
- Russian Federation
- Saudi Arabia
- South Africa
- UAE
- And many more...

In addition to being an ISO/IEC 17065 (product certification) National Certification Body, we are the UK's largest independent ISO/IEC 17025 test laboratory dedicated to lighting.

We're committed to quality and work with you to get the most from your products. Whether you need to secure certification, or test iterations of your product in development, our skilled staff tailor support to your needs.

Put your products through the IECEE CB Scheme. Call our Laboratory team on **01952 290905** or for further information go to **www.thelia.org.uk/Laboratory**



PERFORMANCE TESTING

Our state of the art photometry equipment combined with our expert team of photometry engineers make us the number one choice for all of your luminaire performance measurement requirements.

With our impressive LMT Type C Far Field Goniophotometer and Bentham Far Field Goniophotometer we are able to measure and provide IES & LDT Files for:

- Luminous intensity distribution
- Beam Angle
- Luminous Flux
- Unified Glare Ratio (UGR)

With our 1.8m and two 1.0m Integrating Spheres we are able to measure:

- Lumen Output
- Correlated Colour Temperature (CCT)
- Colour Rendering Index (CRI)
- Flicker
- Colour Uniformity
- Photopic and Scotopic Ratios
- Lumens per watt

We also have the equipment to test UV & Blue light Measurements (Photobiological safety).



Life testing in our Lamp room that has the capacity to house 2,500 lamps/luminaires.

SAFETY TESTING

At our UKAS Accredited Laboratory we have the capacity to test a large range of luminaires from general domestic luminaires to emergency luminaires.

From the moment we receive your testing samples we assure you a personalised service from start to finish. With the support of our Operations and Certification teams, your experience with the LIA Laboratory will always be of the highest standard.

With our purpose built facility we are able to offer (but not limited to) the following services;

Fire Safety Testing (TPa and TPb)

Track Lighting Testing

Ingress Protection Testing ranging from IP2X to IPX8 using our advanced IP Rig

Impact Testing up to IK10 to ensure your product is durable

Shade Endurance

Flammability Testing
(Needle flame & Glow wire)

Street and Floodlight Testing

Control Gear Testing

Lamp Holder Testing

LED Lamp Testing

Lighting Chain Testing

Emergency Luminaire Testing

General Luminaire testing to UK and IEC Standards

LED Module Testing



Our expert engineers and technicians test more than 200 lighting standards to ensure your product is safe and compliant.



THE LIA SCHEMES

LIA Gonio and Sphere Scheme.

Validate your Goniophotometer and integrating sphere measurements and data with The LIA Gonio scheme or The LIA Sphere scheme giving you third party assessment and confidence in your test results.

With support from the experts at The LIA, you will undergo an annual inspection/audit of your Laboratory/Facilities to verify the suitability of the Photometric equipment, ensure your documentation is correct and to review the technical competence of the photometry staff. We also check the measurement process.

By meeting the requirements of this scheme you will benefit from:

- Describing yourself as a 'LIA Laboratory registered photometric laboratory' and be listed on the LIA Laboratory certification website.
- Save time and money on producing your photometric measurements in house.
- You are able to demonstrate compliance and competence in the quality of your measurements.
- Save money on the LIA Verified scheme as we can use your photometric measurements, resulting on a lower cost overall.
- Receive continuous support from our certification team.

LIA UMSUG Scheme

- This scheme has been established by The LIA to provide validation of power measurements for lighting products that require unmetered supply applications (UMS).
- As with all of our schemes you will be required to undergo an annual inspection/audit to verify the adequacy of your measurement equipment, documentation and to ensure the technical competence of your staff members. We also check the measurement process.
- When you have obtained your measurements in house you then send over your data sheets to our Certification team at the LIA Laboratory who will check your results and convert to an official LIA report, for submission to ELEXON.
- The Ideal scheme for those who require multiple UMSUG tests without the repeated testing costs.

LIA Laboratory is a registered ISO/IEC 17025 accredited test house with the capability of carrying out UMSUG measurements both in house and we also have the availability to send one of our expert engineers to your site to carry out this testing, to provide you with the required report for submission to ELEXON for your final charge code.



LIA VERIFIED

Are you confident that your product claims are correct?

With so many questionable lighting products on the market it can be hard for distributors to differentiate good quality from bad.

The LIA Verified scheme has been created in response to the industry's desire to identify quality products so that members of the scheme can declare a trustworthy third party verification of three key elements – Safety, Performance and Life capability.

**Performance Assessment to measure light output,
beam angle and colour temperature**

**Limited Safety Assessment to
ensure your product is safe**

Duration tests to support expected life claims

The LIA Verified scheme has triggered interest from the wholesaler market, who are now considering how this scheme can help them eliminate warranty risk from non-conforming products, and products that do not meet their performance claims.

After achieving LIA Verified status on your products you will receive the following benefits:

- LIA Verified certificate and full schedule of tests performed.
- Your schedule and product information will be published on the LIA Certification website.
- LIA Verified Logo usage for packaging and marketing.
- Technical support from our team of experts throughout the testing process.
- Support from The LIA through social media.



Learn more about LIA VERIFIED at www.lialabcert.org.uk
or call us to discuss your requirements. Tel: **01952 290905**

OTHER SERVICES AVAILABLE

Upgrading your existing BS EN 60598 Safety report from 2008 to 2015:

As we near the end of the 2008 edition of BS EN 60598 many of you may be wondering about the extra costs it is going to take to re assess your product to the updated 2015 edition standard. Here at LIA Laboratory we offer a service of upgrade that provides limited testing to only the differences between standards making this transition easier for you. If you have a 2008 certificate from a third party test house that is ISO/IEC 17025 accredited we can offer this service to you.

Fault Finding Investigations

Do you have a product that is continuously failing but you cannot quite get to the bottom of why? Our fault finding investigation service provides lighting expert engineers to carry out a detailed assessment on your faulty product in comparison to a working version to try and find out where your product is failing and why, you will also receive an LIA report of findings to support your product.

LIA LAB CERTIFICATION SCHEMES

TSD-001 Product Conformity
TSD-002 Sphere Photometry
TSD-003 Gonio Photometry
TSD-004 LIA Verified

TSD-005 UMSUG Measurements
TSD-006 Laboratory Capabilities
TSD-007 Lab Partner





THE LIA - UK-WIDE MEMBER NETWORK:



To find out how we can improve your product development and compliance, contact us:

Tel: **01952 290905**

Email: **laboratory@thelia.org.uk**



www.thelia.org.uk