

# Lighting & Luminaires

## Product safety & compliance

### Eurofins E&E

Eurofins Electrical and Electronics (E&E), part of Eurofins Consumer Product Testing (CPT) Division, is a global network of accredited laboratories offering electronic compliance testing, inspection, certification and market access services allowing product developers, manufacturers, brand owners and retailers to deliver compliant products to international markets quickly and cost-effectively.

Our teams of highly experienced engineers understand both the technical and administrative regulatory requirements of the compliance process and can help you ensuring that your consumer and commercial lighting products and luminaires meet the concerned electrical, mechanical, performance, reliability and safety requirements.

### Service scope

#### Product testing

Our range of testing services for lighting and luminaires include, but are not limited to:

- Electromagnetic compatibility (EMC)
  - IEC standards for global markets
  - EN standards for the EU & UK markets

- FCC Part 15 and FCC Part 18 for US
- IC or SCC guidelines for Canada
- Japanese VCCI requirements
- Product safety including:
  - National safety certification & international approvals with the IECEE CB Scheme
  - MET NRTL Certification for the US & Canada
  - ANSI/UL 1598 & ANSI/UL 8750
  - EN 62612 & EN 62560
  - Photobiological safety & electromagnetic fields (EMF)
- Energy efficiency including:
  - ENERGY STAR®, Energy Labelling & Ecodesign Directives
- Environmental simulation including:
  - Ingress protection (IP) & Impact protection (IK) rate testing
  - Vibration & drop testing
  - Temperature & humidity testing
- Chemical testing including:
  - RoHS 2 & REACH Annex XVII and SVHC
- Wireless communications for smart lighting devices including:
  - Bluetooth®, Wi-Fi, RFID & NFC
  - IEEE 802.15.4 (ZigBee)

- Digital testing solutions including:
  - Compatibility verification, including smartphones and tablets

For full details of our testing services for lighting and luminaires, contact your local Eurofins E&E laboratory.

## Performance & fit-for-use testing

Ensuring that your products are fit for use and meet the usability requirements of consumers is essential. Eurofins E&E provides a range of performance verification and fit-for-use services to ensure that your products meet these requirements.

Our services include, but are not limited to:

- Suitability for intended use
- Photometric measurement & lumen maintenance
- Switching performance, start-up and run-up
- Lifetime tests, product endurance & temperature dependency
- Product failure analysis
- Ergonomic testing for handling and manoeuvrability and user-friendly functionality

- Functionality checks against user documentation such as:
  - User manuals
  - Quick start guides
- Technical documentation reviews including:
  - Declarations of Conformity and TCFs
- Verification of labelling, product packaging & performance claims

## Inspection & audits

Alongside the testing and certification of products, the ongoing inspection and auditing of manufacturing facilities, locations, production lines, and products before, during or after production is a vital part of the process of delivering and continuing to deliver compliant products to market.

Eurofins offers a range of auditing and inspection services in manufacturing countries, such as raw material inspection, production line and post-production sampling, and pre-shipment inspections for all types of electrical consumer products.

