

# Lighting testing

Evaluate the characteristics of lighting products and control devices, their energy efficiency and conformity to access its target markets



Lighting manufacturers focus on developing more energy-efficient products, keeping and improving their photometric and colorimetric properties. At the same time, they have to take into account the legal requirements of their target markets.

## Our solution

Applus+ Laboratories offers a comprehensive luminaries testing service, designed to improve their performance and ensure their access to the global market:

- Test plan definition according to the product and the market's standards
- Photometric, electrical, and EMC testing
- Applicable international certifications process management

We test decorative and technical light fixtures, both indoor or outdoor, regardless of the technology they use:

- LED modules
- Discharge lamps
- Halogen lamps

Our laboratories perform the tests under the IEC, EN, and UNE standards applicable to each test.

## Photometric testing:

- Light distribution curves and photometric calculations

- Light pollution: Upper hemisphere emission coefficient.
- Light source characterization (color temperature, color coordinates, CRI)
- Luminous flux and luminous intensity measurement
- Measurement of the spectral distribution of visible and non-visible radiation from light sources

**Electrical testing:**

- Energy efficiency
- Electrical safety of luminaries and their control devices
- Photobiological safety of lamps
- IP ratings

**EMC tests:**

- Radiated and conducted immunity
- Radiated and conducted emissions
- Evaluation of human exposure to electromagnetic fields

Our experts can provide technical solutions to improve the design and features of your equipment. Applus+ has its own accredited laboratory with specific equipment. [See all our accreditations.](#)

**Benefits:**

- Access to international markets
- Applus+ Laboratories, is a one-stop shop to perform a comprehensive testing plan for your product.
- Differentiate your product based on its energy efficiency