

UL's lighting performance solutions

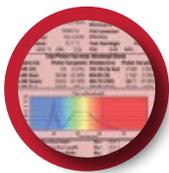


UL has lighting laboratories all over the world with performance services for customers beyond safety testing.

Our core performance offerings include energy efficiency testing and certification, photometric and photobiological testing, Impact Protection and Ingress Protection (IP/IK) testing, vibration and package testing, and much more.

As a leading certifying body, UL can test performance to UL, IEC and other standards and to specific requirements for organizations such as Energy Star®, DesignLights Consortium® (DLC), the U.S. Department of Energy (DOE) and California Energy Commission (CEC) Title 20 and Title 24/JA8. Taking into account the specific needs for specialty applications like horticultural lighting, ultraviolet (UV) lighting, photovoltaic lighting and other categories, UL's technical experts are committed to providing testing services that meet the high expectations of the industry.

Why UL for performance testing capabilities?



Horticultural lighting testing

Utilizing integrating spheres, mobile spectroradiometers and goniophotometers, we can provide a suite of reports specific to horticultural applications, including traditional photometry with horticulture metrics, as well as near-field measurements to represent intensity at the plant canopy.



Energy efficiency testing

UL has capabilities for common tests like operating frequency, dimming level, temperature, color and flicker — but we also offer turnkey solutions to prepare the testing, scope and documentation you need for submission for Energy Star®, the DLC's Qualified Products List (QPL) and others. Contact us for not only testing but a start-to-finish service to get your certification moving quickly and easily.





• **ISTA® package testing**

Our ISTA Certified testing laboratories perform rigorous drop, shock and vibration testing on your product packaging to help ensure its durability as it relates to transit. Certification will give you and your retailers increased confidence in reducing damage and waste, supporting sustainability goals.



• **UL Marketing Claim Verification**

Our objective, science-based assessment confirms the accuracy of your customized marketing claims. We scrutinize the validity of specific advertising or promotional statements, giving you a way to separate verified fact from fiction. In a market crowded with competing declarations, UL Verification helps you cut through the clutter with independent confirmation of your marketing claims, setting your brand apart and driving business advantage.



• **Photobiological hazard testing**

Exposure to optical radiation, distributed on a wide spectrum, both in the visible and invisible fields, may damage the skin and eyes. The photobiological safety standards measure and identify risk factors of optical radiation emitted by lighting devices, such as ultraviolet C (UVC) germicidal devices.

UL's laboratories are equipped with the necessary instrumentation for radiometric detection in accordance with European and American standards, namely IEC/EN 62471 and ANSI IESNA RP 27.



• **Illuminating Engineering Society (IES) standards**

UL has advanced equipment for LM-79, LM-84 and TM-21, lumen maintenance (LM) standards that assess the luminous flux for LED-based lighting.

To learn more about these services or ask about other performance testing options, visit us at [UL.com/lighting](https://www.ul.com/lighting) or send us an email.

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CS803968-1021