Performance Testing Of LED Luminaires Pays Off

UL Solutions conducts testing and certification for key eligibility requirements for the Qualified Products List (QPL)

In the North American market, many U.S. and Canadian utilities rely on the DesignLights Consortium® (DLC) to provide energy efficiency and reduced risk qualification programs for utility rebates.

Requests for proposals (RFPs) often require products that qualify for rebates. UL Solutions can provide independent third-party testing key to achieving DLC QPL eligibility. UL Solutions has laboratories recognized by the appropriate accreditation bodies required for manufacturers to apply for DLC performance and quality recognition.

Professional lighting designers, utilities, retailers and consumers use the QPL to select products and manufacturers. The benefits of a DLC listing makes your product more transparent and accessible to consumers and end users.

UL Solutions can help you navigate the family groupings from the DLC guidelines and consolidate testing, saving you time and money.

The DLC is a nonprofit organization that partners utilities with energy efficiency program members, manufacturers, lighting designers, and federal, state and local entities to establish specifications and educate the industry. An updated overview of current incentive programs is available at www.designlights.org, where end users also search for listed products.

Horticultural Lighting Program

The DLC's Horticultural Lighting Program includes tools and resources to enable the widespread adoption of energy-saving LED technology in the horticultural lighting industry. Effective in 2021, the DLC requires products to be tested to UL Solutions 8800, the Standard for Horticultural Lighting Equipment and Systems Safety.

UL Solutions can test to the required photobiological standards to support your horticultural safety certification, based on the IEC 62471 standard.

Solid State Lighting (SSL)

The DLC intends for the Solid State Lighting QPL to respond to the evolving SSL market and ensure that updates serve the needs and interests of utilities and industry stakeholders.

The QPL qualifies commercial LED luminaires, retrofit kits, linear replacement lamps, mogul screw-base replacements for high-intensity discharge lamps (HID) lamps and four pin-base replacement lamps for CFLs. There is also a premium certificate for higher efficiency products, with higher efficacy standards for projected lumen maintenance, glare control and color quality reporting. UL Solutions has the capabilities to test to the latest DLC requirements.

Networked Lighting Controls Program (NLC)

The DLC's NLC program was adopted in 2022 and focuses on cybersecurity requirements. Our DLC QPL Cybersecurity Qualification solution is a rapid, low-cost evaluation process in the form of an initial product assessment and letter of attestation, followed by annual renewal through UL Solutions.

Testing is based on a risk assessment of components in the controls system. Based on a baseline approach and industry best practices for Internet of Things (IoT) security, this solution qualifies the system and any other systems containing qualified components.

Light Usage for Night Applications Program (LUNA)

The DLC introduced the LUNA program in 2022 with the goal of minimizing light pollution, minimizing lighting energy use, and providing appropriate visibility for people.

UL Solutions can support the testing requirements for application to this program with photometric engineering staff and accredited laboratories registered with the DLC.

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