

SOLAR LIGHTING SOLUTIONS

UL 8801, Edition 2 Outline of Investigation for PV Luminaire Systems



UL recently published the second edition of UL 8801, the Outline of Investigation for Photovoltaic (PV) Luminaire Systems, in response to advancements in technology and the growing interest in solar solutions that has brought PV lighting into focus. From residential applications to commercial and public areas and to remote rural areas where the need for lighting must be independent of infrastructure, reliable and practical PV lighting systems serve a critical need.

PV lighting has applications in multiple segments in and related to the lighting industry, including:

- Lighting manufacturers that design, brand or bring to market PV lighting systems, low-voltage luminaires and components (with or without integral batteries)
- Commercial component controls manufacturers who sell to lighting manufacturers
- Infrastructure component controls manufacturers who sell to lighting and controls brands for roadway, pedestrian right of way, and building area lighting applications

UL 8801 Outline of Investigation defines the safety considerations and criteria for evaluating lighting systems that include PV modules for gathering energy, batteries for storing that energy, LED luminaires to illuminate, and controls to manage the interaction between the module and battery. Instead of separate certifications for each component, UL 8801 creates a path to a combined certification, which can help you save money and bring products to market faster.

UL services include safety testing to help you manage the safety risks at a level comparable to that of other lighting equipment currently subject to the National Electric Code® (NEC®) and authorities having jurisdiction (AHJ) oversight.

- Safety certification to earn the UL Mark is based on PV module compliance with a subset of the requirements of IEC/UL 61730, the Standard for Photovoltaic (PV) Module Safety Qualification. Testing for the battery system and luminaires (or LED arrays and driver circuitry) is also targeted and streamlined.
- Annex B was added to address the output of power ports and to clarify the requirements for connecting a supplemental utility power source.

Our experienced engineers have the expertise to evaluate your simple or complex systems and help you with the safe and effective deployment of these technologies.

Contact us for a quote or to learn more about how UL can help your PV lighting plans.

In the Americas: LightingInfo@UL.com

In Europe: AppliancesLighting.EU@UL.com

In GC: GC.LightingSales@UL.com

In ANZ: CustomerService.ANZ@UL.com

In ASEAN: UL.ASEAN.AHLSales@UL.com

In Japan: CustomerService.JP@UL.com

In Korea: Sales.KR@UL.com

In MEA: UL.MEA@UL.com

In South Asia: Sales.IN@UL.com

Empowering Trust®

