



# Introducing UL 8802 Fourth Edition, Outline of Investigation for UV Germicidal Equipment and Systems

Advancements in product design and the growing interest in ultraviolet (UV) solutions for germicidal systems have brought UV lighting to the forefront of our industry. In commercial, professional and medical settings, the need for safe evaluation of germicidal systems has grown.

Concentrating on nonresidential, permanently mounted or fixed germicidal equipment and systems, UL's experienced engineers have the expertise to evaluate your products and help you manage safety risks through the fourth edition of UL 8802, Outline of Investigation (OOI) for UV Germicidal Equipment and Systems. Using criteria from applicable safety standards, we have pulled together a collection of requirements into one document covering both equipment and site safeguards. This document also addresses expectations for manufacturers regarding communicating safety precautions for use, handling and servicing.

- The third edition of UL 8802 was published on May 27, 2021. This new edition introduces Part IV to the Standard to address retrofit kits that facilitate replacement of the light source of a General Lighting Service (GLS) luminaire with a UV LED emitter assembly. For this product type, UV overexposure risk is mitigated by the exclusive use of UV LED sources that are classified as "Risk Group Exempt" in accordance with criteria in IEC 62471, for Photobiological Safety of Lamps and Lamp Systems. The fourth edition was published August 30, 2021 and has an additional annex addressing motion detectors as a safeguard.
- The OOI is to be used in conjunction with CSA C22.2 No. 250.0/UL 1598 or CSA C22.2 No. 250.2/UL 2108, the Standard for Low-Voltage Lighting Systems, to address applicable risk of shock, fire and personal injury due to factors other than UV overexposure.

- In addition to product type construction and performance criteria, the OOI continues to focus on the instructions, labeling and documentation procedures needed to minimize risk to occupants, operators, installers and service personnel by mitigating overexposure to UV energy that can cause serious personal injury.

UL 8802 is applicable to multiple segments in and related to the lighting industry, including manufacturers, building managers and companies investing in germicidal equipment, its installation and staff training.

**Contact us for a quote or to learn more about how UL can help your UV germicidal plans.**  
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