

STANDARD INFORMATION

If your product is certified to UL 153, UL 1598, UL 2108, CSA C22.2#250.0, CSA C22.2#250.2, or CSA C22.2#250.4 and is germicidal equipment, then it needs to be recertified to ANSI/CAN/UL 8802 or ANSI/CAN/UL 8803 as applicable.

Partially Superseded Standards:

Portable Electric Luminaires [UL 153]
Luminaires [UL 1598]
Low Voltage Lighting Systems [UL 2108]
Luminaires [CSA C22.2#250.0]
Lighting Systems [CSA C22.2#250.2]
Portable Luminaires [CSA C22.2#250.4]

Replacement Standards:

Ultraviolet (UV) Germicidal Equipment and Systems [ANSI/CAN/UL 8802]
Portable UV Germicidal Equipment with Uncontained UV Sources [ANSI/CAN/UL 8803]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: November 16, 2025

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: ANSI/CAN/UL 8802 and ANSI/CAN/UL 8803 have been released covering germicidal equipment. All reports currently certified to UL 153, UL 1598, UL 2108, CSA C22.2#250.0, CSA C22.2 No. 250.2, or CSA C22.2#250.4 that fall under the scope of ANSI/CAN/UL 8802 or ANSI/CAN/UL 8803 need to be recertified to the appropriate standard prior to the effective date. Due to the changes between standards, a full evaluation to ANSI/CAN/UL 8802 or ANSI/CAN/UL 8803 is required.

The Scopes of ANSI/CAN/UL 8802 and ANSI/CAN/UL 8803 are shown below to help determine applicable products.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	COMMENT
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The following clauses reflect UL 8802

1	Scope
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These requirements apply to ultraviolet germicidal irradiation (UVGI) equipment and systems intended for installation and use in accordance with the U.S. National Electrical Code (NEC), NFPA 70 and in accordance with the Canadian Electrical Code, Part I (CEC), CSA C22.1. These requirements cover:

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| 1.1 | <p>a) UV Germicidal Equipment – These devices emit uncontained UV energy into the surrounding area while the space or room being treated may be occupied. The UV overexposure risk may be mitigated by one or more safeguards. Examples of such safeguards include a fixed installation at a minimum height above the floor, and directional baffling to minimize direct UV emissions towards the occupied space when direct emission is not permitted. This equipment may also produce visible light. See Part 1 of this standard.</p> <p>b) UV Emitter Assemblies – These devices emit UV uncontained energy into the surrounding area while the space being treated is vacant (i.e., not occupied by persons). Alternatively, these devices can be built into germicidal equipment as components. These assemblies are not considered stand-alone devices; they are intended for use as part of a UV germicidal system. This equipment may also produce visible light. See Part 2 of this standard.</p> <p>c) UV Germicidal Systems – These systems are intended to expose surfaces within an unoccupied area with uncontained UV energy where the exposure dose would otherwise pose a risk of personal injury to occupants. System components include UV emitters, switches, sensors and other controls acting as site or equipment safeguards. The installation and operating instructions are considered an integral system component. A system may also include devices that produce visible light. See Part 3 of this standard.</p> <p>d) UV Germicidal Retrofit Kits – These devices are retrofit kits which facilitate replacement of the light source of a General Lighting Service (GLS) luminaire with a UV emitter assembly. These retrofit kits emit UV energy into the surrounding area while the space being treated may be occupied. The UV overexposure risk may be mitigated by the exclusive use of UV sources that are compliant with ‘Risk Group 0 (Exempt)’ level(s) in accordance with the photobiological assessment for the device. The UV source may also produce visible light. See Part 4 of this standard.</p> <p>e) Contained UV Germicidal Equipment – These devices include an integral enclosed UV source(s) to treat air flowing through it. The UV overexposure risk may be mitigated through UV source containment by the use of baffles, louvers or similar means to minimize UV emissions from the equipment. This equipment also produces visible light. See Part 5 of this standard.</p> |
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CLAUSE	COMMENT
	Parts 1 through 4 of this standard do not cover:
1.2	a) Equipment intended for use in dwellings; or b) Portable equipment.
1.3	This standard does not cover hand-held equipment.
1.4	Products generating ultraviolet radiation are intended for use in accordance with Title 21 Code of Federal Regulations (CFR), Parts 1000 through 1004, and section 1005.25.
	This standard does not apply to UV equipment covered by other (UL or CSA) standards for safety.
1.5	The equipment not covered by this standard include: a) Laboratory and health care equipment with UV emitters are covered under the scope of the CSA C22.2 No. 61010 or UL 61010 series of standards; and b) Horticultural luminaires with UV emitters covered under the scope of UL 8800.
1.6	Equipment that emit electromagnetic energy with wavelengths outside of the 200 – 400 nm range are not fully addressed by this standard, and may require an additional evaluation.
1.7	These requirements address risk of personal injury due to overexposure to UV emissions. To address other safety considerations (e.g., risk of fire or electric shock, or personal injury risks besides UV overexposure) this standard shall be used in conjunction with one of the luminaire standards specified below for devices covered in their respective scopes absent electromagnetic emissions outside of the visible light spectrum. All construction, performance and marking requirements of the standards specified below (see Referenced Publications) shall also apply unless specifically superseded by a requirement in this standard: a) CSA C22.2 No. 250.0 / UL 1598, for Part 1 – Part 5 devices; b) CSA C22.2 No. 250.2 / UL 2108, for Part 1 – Part 5 devices; or c) CSA C22.2 No. 250.4 / UL 153, for Part 5 devices.
1.8	In this standard, the CSA standard reference applies to products intended for use in Canada, while the UL standard reference applies to products intended for use in the United States. Combined references are separated by a slash (“ / ”).



CLAUSE	COMMENT
The following clauses reflect UL 8803	
1	Scope
1.1	<p>These requirements apply to portable germicidal equipment intended to expose the air and surfaces within an unoccupied area with uncontained ultraviolet (UV) energy. These requirements address equipment intended to remain stationary while in operation and intended for use by ordinary persons. The equipment may also produce visible light.</p> <p>In this Standard, the UV overexposure risk is addressed via the following integral safeguards:</p>
1.2	<p>a) Motion detection as a critical control function; and b) Activation cycle requirements and operating time limits. Additional safeguards may optionally be included by the manufacturer.</p>
1.3	<p>These requirements do not cover:</p> <p>a) Hand-held equipment; b) Equipment that does not use a motion detection function as a safeguard; c) Equipment that uses a wireless or remote control (i.e., a control not physically part of the same device) to initiate or extend an operating cycle; or NOTE: Wireless/remote controls are still allowed to terminate an operating cycle. d) Devices intended for sterilization of equipment covered by other standards, such as UL 8802, Standard for UV Germicidal Equipment and Systems.</p>
1.4	<p>In the United States, products generating ultraviolet radiation are intended for use in accordance with Title 21 Code of Federal Regulations (CFR) Parts 1000 through 1004, and section 1005.25.</p> <p>This Standard does not apply to UV germicidal equipment covered by other standards. Products not covered by this Standard include:</p>
1.5	<p>a) Laboratory and health care equipment with UV emitters covered by UL 61010-1 and CSA C22.2 No. 61010-1; b) UV germicidal equipment and systems covered by UL 8802, Standard for UV Germicidal Equipment and Systems.</p>
1.6	<p>These requirements address risk of personal injury due to overexposure to UV emissions. To address other safety considerations (e.g., risk of fire or electric shock, or personal injury risks besides UV) this Standard shall be used in conjunction with CSA C22.2 No. 250.4 / UL 153, Standard for Portable Luminaires. All construction, performance and marking requirements in those standards apply unless specifically exempted or superseded by a requirement in this Standard.</p>



CLAUSE	COMMENT
1.7	Equipment that emits electromagnetic energy with wavelengths outside of the 200 – 400 nm range are not fully addressed by this Standard and may require an additional evaluation.
1.8	In this Standard, combined US and Canadian standard references are commonly separated by a slash (" / "). The CSA standard reference applies to products intended for use in Canada, and the UL standard reference applies to products intended for use in the United States.
1.9	Equipment features, functions or accessories not anticipated by this standard may require a separate evaluation.