



ANSI/CAN/UL 8801:2024

JOINT CANADA-UNITED STATES
NATIONAL STANDARD

STANDARD FOR SAFETY

Photovoltaic (PV) Luminaire Systems

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UL Standard for Safety for Photovoltaic (PV) Luminaire Systems, ANSI/CAN/UL 8801

First Edition, Dated June 15, 2022

Summary of Topics

This revision of ANSI/CAN/UL 8801 dated November 26, 2024 includes the following changes in requirements:

- **Scope updates; [1.1](#), [1.1A](#), [1.2](#)**
- **PV luminaire systems with higher voltages; [1.8](#), [4.2](#), [Annex D](#)**
- **Referenced Publications; [4.2](#)**
- **Standard Test Conditions (STC); [5.2A](#)**
- **PV Modules; [7.2.1](#)**
- **PV module output voltage; [7.2.2](#) note**
- **PV Module Overcurrent Protection; [7.2.6](#) (deleted), [7.2.7](#)**
- **PV module output connectors; [4.2](#), [7.2.8](#)**
- **Battery compartment removable cover secureness; [7.4.2](#), [8.6](#)**
- **Battery charge controller; [7.5.1](#) note, [7.5.2](#) note**
- **Battery output overcurrent protection; [7.6.1](#), [7.6.3](#)**
- **Luminaires; [7.8.1](#)**
- **Disconnect switches for the PV module and battery; [7.9.3](#), [7.9.4](#), [9.13](#), [Table C.1](#)**
- **Multiple integral PV modules; [8.1.2.2](#) note**
- **Temperature test without a solar simulator; [8.1.2.2](#) note, [Annex E](#)**
- **Marking contrast; [9.1](#)**
- **Ambient temperature markings; [9.3](#)**
- **Permitting multiple concurrent DC charging or power sources; [A2.3](#), [A2.4](#), [A3.3](#), [A3.4](#)**

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated September 13, 2024.

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First Edition

June 15, 2022

This ANSI/CAN/UL Safety Standard consists of the First Edition including revisions through November 26, 2024.

The most recent designation of ANSI/UL 8801 as an American National Standard (ANSI) occurred on November 26, 2024. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been designated as a National Standard of Canada (NSC) on November 26, 2024.

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