

UL TECHNICAL GUIDANCE DOCUMENTS

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Product Category (CCN): IFDH

Standard Number: UL 1838

Standard Title: Standard for Low Voltage Landscape Lighting Systems

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Section / Paragraph Reference: 1.10, Section 22.3

Subject: Secondary isolation for LED drivers

GUIDANCE:

LED drivers that comply with UL 8750 must additionally be evaluated for compliance with the output circuit isolation requirements of UL 1838 section 22.3.

RATIONALE FOR GUIDANCE:

Clause 1.10 requires LED components, including drivers, to comply with UL 8750. However, UL 8750 does not require the same level of primary-to-secondary isolation as UL 1838 section 22.3. This does not reflect any conflict in requirements between UL 8750 and UL 1838 but instead that UL 1838 products are installed in a more restrictive environment than anticipated by many UL 8750 applications. Specifically, the wet location environment and allowance for full user accessibility to the UL 1838 luminaires supplied by the power unit drive the need for greater power unit safeguards against the risk of electric shock. The required safeguards are provided by the transformer isolation or double insulation requirements of UL 1838 section 22.3.

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