

STANDARD INFORMATION

Standard: UL 8750

Standard ID: Standard for Safety Light Emitting Diode (LED) Equipment for Use in Lighting Products [UL 8750:2015 Ed.2+R:28Apr2020]

Previous Standard ID: Standard for Safety Light Emitting Diode (LED) Equipment for Use in Lighting Products [UL 8750:2015 Ed.2+R:11Oct2019]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **April 28, 2023**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard.

Overview of Changes: Revision of requirements for Supplement SF – LED equipment with wired control circuits. Specific details of new/revise requirements are found in table below.

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
Supplement SF	Info	LED EQUIPMENT WITH WIRED CONTROL CIRCUITS
SF3	Info	Separation of Circuits The control circuit shall be spaced or isolated from other circuits of the LED equipment as follows: a) Control circuit lead wires, terminals, and wire connectors shall comply with the requirements for Separation of Circuits, Section 7.5, b) PWB spacings between the control circuit and other circuits of the LED equipment shall comply with 7.8.2, c) Components that bridge between the control circuit and other circuits of the LED equipment shall comply with 7.9.2, and d) Isolation transformers located between the control circuit and other circuits of the LED equipment shall comply with the requirements for Coil Insulation, Section 7.11. Exception No. 1: The requirements in SF3.1 do not apply when: a) The control circuit does not exit the lighting equipment (i. e. the control circuit is internal to a fire/electrical enclosure), b) Risks of fire and shock concerns due to interposed circuits between different components of the lighting equipment are addressed by circuit analysis, component abnormal tests, or both, c) The required isolation for Isolated, Class 2, or LVLE power circuits is not compromised, d) The control circuit is marked per SF8.4, and e) The installation instructions include related information described in SF8.5. <u>Exception 2: The requirements in SF3.1 do not apply between the control circuit and output power circuit when:</u> a) <u>The output power circuit is Class 2,</u> b) <u>The control circuit has been evaluated as a Class 2 circuit, or it is intended for connection to an external Class 2 supply,</u> c) <u>Circuit analysis and/or component abnormal testing is conducted to ensure that interconnection of these two circuits will not result in output levels (voltage, current, power) that exceed Class 2 limits in either circuit.</u> d) <u>Other required isolation for Isolated, Class 2, or LVLE power circuits is not compromised, and</u> e) <u>The installation instructions include related information described in SF8.5.</u>



CLAUSE	VERDICT	COMMENT
		<u>Where the control circuit is intended for connection to an external Class 2 supply, the analysis and testing in (c), is to be conducted using a supply with electrical characteristics (voltage, current, power) as specified in SF8.5(a).</u>
SF8	Info	Marking
		LED equipment installation instructions shall include:
SF8.5		a) A description of the electrical characteristics of the control circuit, b) The intended function of the control circuit, c) Details of product markings described in Markings, Section SF8, and d) The manufacturer's recommendations for proper installation of the control circuit (e. g., acceptable system wiring configurations, considerations for load distribution, acceptability of the control circuit to exit the luminaire, acceptable control and sense devices that can be integrated with the control circuit, etc.). <u>e) The manufacturer's recommendation to assure a cumulative leakage current of less than 3.5mA on the control circuit.</u>