

STANDARD INFORMATION

Standard: UL 879

Standard ID: Electric Sign Components [UL 879:2009 Ed.9+R:22Apr2022]

Previous Standard ID: Electric Sign Components [UL 879:2009 Ed.9+R:17Jul2019]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **April 22, 2024**

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. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Revised requirements for polymeric enclosures
- New requirements for LED components
- New section for LCD displays

Specific details of new/ revised 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
2	Info	Construction
2.1	Info	Enclosure
2.1.4	Info	Polymeric enclosures other than neon electrode enclosures or GTO sleeving
		The minimum temperature rating for a polymeric enclosure material <u>determined in accordance with the standard for Polymeric Materials – Long Term Property Evaluations, UL 746B shall be the highest temperature of either:</u>
2.1.4.3		a) The generic rating in accordance with Table 2.5; or b) The Relative Temperature Index (RTI) with impact. <u>a) The Relative Thermal Index Based Upon Historical Record; or b) The Relative Thermal Index (RTI) with impact Based Upon Long-term Thermal-Aging Programs.</u>
4	Info	Specific Components Only for Use in an End Product
4.18	Info	LED components
4.18.1	Info	General
		<i>New clause added;</i>
4.18.1.2		LED components intended for factory installation in electric signs that comply with one of the standards specified in Table 4.4.0, shall additionally comply with applicable requirements of 4.18.
		<i>New clause added;</i>
4.18.1.3		LED units intended to be supplied by a class 2, LPS, or LVLE power source are only required to comply with the applicable requirements of this standard.



CLAUSE VERDICT COMMENT

New table added;

Applicable Standards for LED Components

Table 4.4.0

Standard ^{a)}	LED display ^{b)}	LED panel ^{c)}	LED arrays
Electric Sign Components, UL 879 d)	X	X	X
Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750		X	X
Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1	X	X	
Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1	X	X	
a) See 4.18.5 for standards applicable to power sources intended for use with LED units. b) LED displays evaluated to one of the information technology standards specified in this table shall additionally comply with applicable requirements of 4.18.2 – 4.18.4. c) LED panels evaluated to one of the LED or information technology standards specified in this table shall additionally comply with applicable requirements of 4.18.11 – 4.18.14. d) Except where specifically evaluated to UL 879 for factory installation in electric signs, an LED display unit shall fully comply with the applicable requirements of one of the standards specified in this table.			

4.18.8 Info Tests

A LED power source shall be subjected to the basic product tests as follows:

4.18.8.1 b) Normal Temperature Test, 3.4.2.3, under full load testing as specified in 4.17.5.2. An LED power source intended for factory installation within a sign enclosure shall be tested at an elevated ambient of 40 ±5°C (104 ±9°F) minimum;

New section added;

4.23

LCD displays

4.23.1 **General**

4.23.1.1 The requirements in this section apply to LCD displays for use in a sign.

4.23.2 **Construction requirements**

4.23.2.1 An LCD display shall comply with the applicable construction requirements of Section 2.

4.23.2.2 LCD backlighting shall comply with the requirements for the same lighting technology described herein and in UL 48.



CLAUSE	VERDICT	COMMENT
4.23.2.3		An LCD screen shall comply with enclosure requirements unless an additional enclosure rated material is placed to protect the screen in the sign.
4.23.3		Supply connection means
4.23.3.1		An LCD display shall be provided with either an integral or separable power source that is capable of being connected to a branch circuit source of supply.
4.23.4		Tests
4.23.4.1		An LCD display shall be subjected to the applicable material tests of 3.4.1 and the electrical tests of 3.4.2.
4.23.5		Markings and installation instructions
		The installation instructions shall include:
4.23.5.1		a) Detailed diagrams and instructions showing the proper installation of the power source, cabling and display. b) The LCD display is suitable for installation in a dry or damp location. c) The LCD display must be made inaccessible in the end product utilizing the thermoplastic barrier provided. d) The power source/controller and cabling from the controller to the display are intended to be made inaccessible in the end product.