

STANDARD INFORMATION

Standard Number: UL 1971

Standard Name: Signaling Devices for the Hearing Impaired

Standard Edition and Issue Date: 3rd Edition Dated November 29, 2002

Date of Revision: August 29, 2018

Date of Previous Revision of Standard: October 31, 2013

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **October 22, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revise requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revise requirements.

Overview of Changes: This revision to ANSI/UL 1971 includes Revision to the Signal Strength and Format Test to Address LED Strobes. Specific details of new/revise requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revise paragraphs noted in the attached or explain why these new/revise requirements do not apply to your product (s).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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

Additions to existing requirements are underlined and deletions are shown ~~lined out~~ below.

27 Info **Signal Strength and Format Test**

27.1 Info **General**

The following minimum signal strengths shall be met:

27.1.3 a) Signaling lights shall produce a candela output in effective intensity in accordance with Tables 27.1 – 27.3 and Figures 27.1 – 27.3. The flash rate shall not be less than 1 hertz or greater than 2 hertz over the rated operating voltage range. The maximum light pulse duration shall be 200 ms. Rated light output is to be based on a maximum 20 ms light pulse. For pulse durations between 20 ms and 200 ms, an effective candela equivalency to a 20 ms light output is determined by dividing the measured light output value by the corresponding multiplier in Table 27.4. Light output ratings for pulse widths less than 20 ms are the measured value obtained in 27.2.1. The light output shall be white light. The measurement of light output shall be in accordance with the procedure described in 27.2.1 – 27.2.4.

New table added;

Effective candela ratings

Table 27.4

Light pulse duration (msec)	Device rating required effective candela multiplier	Light pulse duration (msec)	Device rating required effective candela multiplier
20	1.00	115	4.02
25	1.22	120	4.13
30	1.43	125	4.23
35	1.64	130	4.33
40	1.83	135	4.43
45	2.02	140	4.53
50	2.20	145	4.62
55	2.37	150	4.71
60	2.54	155	4.80
65	2.70	160	4.89
70	2.85	165	4.97
75	3.00	170	5.05
80	3.14	175	5.13
85	3.28	180	5.21
90	3.41	185	5.29
95	3.54	190	5.36
100	3.67	195	5.43
105	3.79	200	5.50
110	3.90		

CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.