

Subject 676

November 17, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Underwater Luminaires and Submersible Junction Boxes, UL 676, are being proposed:

- 1. Corrections to references***
- 2. Editorial revisions***
- 3. Addition of a Conduit Hub Torque Test***
- 4. Clarification of the Abnormal Temperature Test in 34.7***

STP BALLOTS AND ALL COMMENTS DUE: December 17, 2017

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 676, UL is looking for participants in the following interest categories: AHJs, Commercial/Industrial Users, Consumers, Government, and Supply Chain. Definitions for these interest categories are available on the Standards STP Internet site:

<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 676 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Wilbert.J.Fletcher@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Corrections to references

RATIONALE

Proposal submitted by: Michael Shulman, UL LLC

The proposal revises several clauses that contain incorrect references to other clauses.

PROPOSAL

10.10 Flexible cord shall not be accessible to contact unless the luminaire and its installation comply with item (a), (b), (c), or (d), and strain relief is provided to reduce the risk of stress being transmitted to electrical splices. The flexible cord is accessible to contact only:

- a) During luminaire relamping or servicing;
- b) When it is part of the power supply cord of a cord- and plug-connected luminaire;

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c) When it is the flexible cord of the cord- and plug-connected luminaire that extends from the pool wall to the location remote from the pool wall as specified in ~~10.10~~ 10.9; or

d) When it is reliably routed and secured to suitably rigid structural members of the pool, the luminaire, or other objects installed for the purpose in accordance with subitem (1) or (2).

1) The flexible cord is positioned and secured so that it is not likely to be stepped on, pulled, or subjected to a force that increases its tensile stress. The flexible cord is considered to comply with this requirement if it is secured against a vertical surface (for example, a pool wall) or if the flexible cord is guarded so that it is not likely to be subjected to such force. A guard and supporting structural members used to comply with this requirement shall comply with the Flexible Cord Guard and Support Test, Section 43.

2) The flexible cord is secured in a location other than as described in subitem (1) and in a location such that the flexible cord is pressed against and supported by a suitable rigid surface directly under the force application point if the flexible cord is stepped on or subjected to another downward or horizontal force. Structural members used to comply with this requirement shall comply with the Flexible Cord Guard and Support Test, Section 43.

The total length of flexible cord that is accessible to contact and that is connected to the same circuit shall not exceed 1.52 m (5 feet). The flexible cord identified in (a) – (c) is not to be considered when determining compliance with this 1.52-m requirement. The installation instructions shall include the instructions described in 44.11.

54.1 A submersible luminaire with a lens guard shall not be subject to:

a) Breakage of the lens or guard or

b) Deformation of the guard that would cause the luminaire not to comply with the requirement in ~~45.6~~ 46.7, when tested as described in 54.2.

55.1 A submersible luminaire with a lens guard shall not be subject to:

a) Breakage of the lens or guard or

b) Deformation of the guard that would cause the luminaire not to comply with the requirement in ~~46.6~~ 46.7 when tested as described in 55.2.

2. Editorial revisions

RATIONALE

Proposal submitted by: Michael Shulman, UL LLC

The following editorial revisions are being proposed:

For 11.2.3 – Low voltage luminaires, per 11.4.3, do not include a grounding connection. The added phrase (“if provided”) prevents potentially conflicting interpretations between 11.2.3 and 11.4.3.

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