

Are Low-Voltage Landscape Luminaires Listed to be Installed in the Ground 3 Feet from a Swimming Pool?

Q Are low-voltage landscape luminaires (lighting fixtures) Listed to be installed in the ground 3 feet from a swimming pool? How about if I use a power supply listed for use with swimming pool lights?

A UL Listed low-voltage landscape luminaires are for installation not less than 10 ft from a swimming pool, whether in or on the ground, and are not for use where supplied by a Listed swimming pool transformer or any other power source other than a Listed landscape power unit.

Article 411, Lighting Systems Operating at 30 Volts or Less, of the *NEC-2005* includes installation requirements specific to the luminaires and other parts of a lighting system operating at 30 volts or less. Unless otherwise permitted by Article 680, Swimming Pools, Fountains, and Similar Installations, Section 411.4 requires all lighting systems operating at 30 volts or less to be installed not less than 3.0 m (10 ft) from pools, spas, fountains, and similar locations.

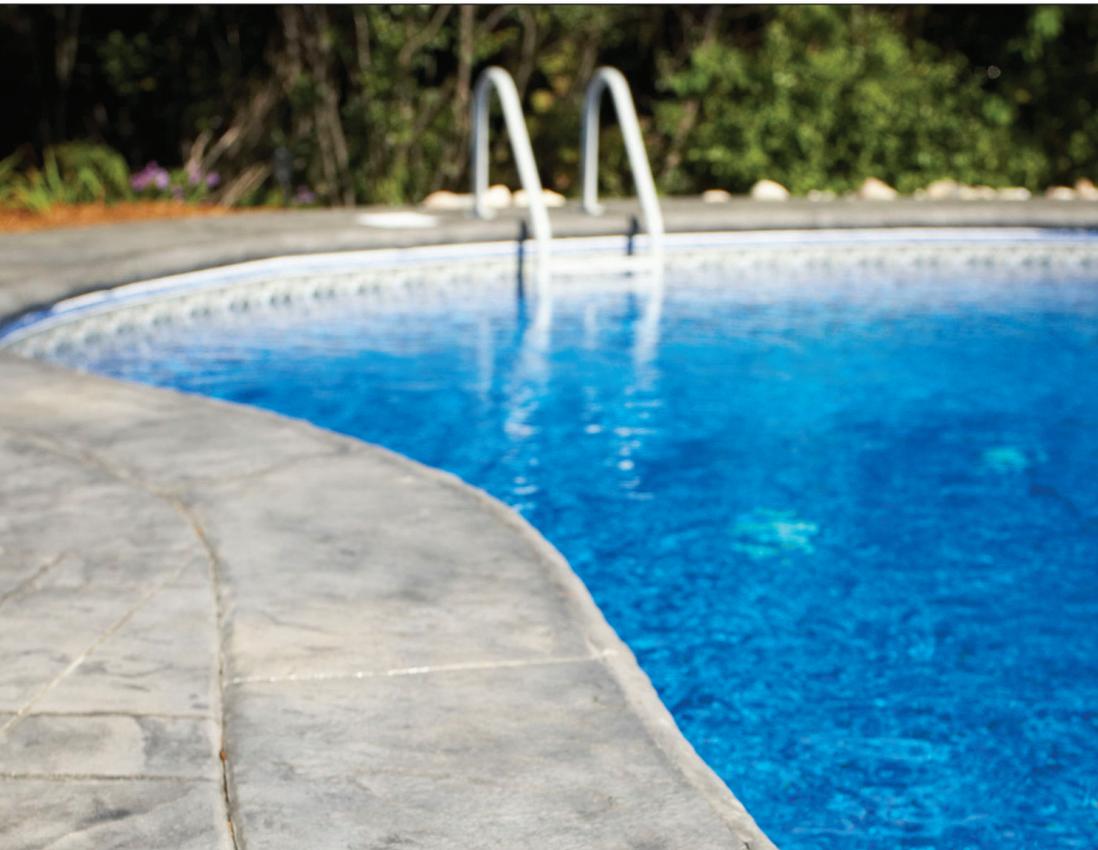
No provision exists in Articles 411 or 680 for locating a low-voltage landscape luminaire in or on

the ground and 3 ft from swimming pools, spas, fountains, and similar locations.

UL Lists low-voltage landscape lighting systems, low-voltage luminaires, and landscape power units under the category of Low Voltage Landscape Lighting Systems (IFDH), located on page 100 in the 2006 UL White Book or online at www.ul.com/database and enter IFDH at the Category Code Search. These systems are intended for installation in accordance with *NEC* Article 411.

A UL Listed swimming pool transformer (fountain transformer, spa transformer, or any combination) is not Listed for use to supply low-voltage landscape luminaires, regardless of luminaire distance from the swimming pool, spa, or fountain. UL Lists these transformers for supplying underwater luminaires under the product category Swimming Pool and Spa Transformers (WDGV), located on page 263 of the 2006 UL White Book or online at www.ul.com/database and enter WDGV at the Category Code Search.

Only UL Listed landscape power units are Listed for supplying low-voltage landscape luminaires. Someone might encounter a power unit designed for conduit connection that



has been confirmed by UL to comply with the requirements for swimming pool transformers and landscape power units. UL Listing for such a dual use power unit is indicated only by it bearing both the UL Listed Landscape Power Unit Listing Mark as well as the UL Listed Swimming Pool Transformer Listing mark.

Q

In the September-October 2006 edition of the "UL Question Corner" you detailed many changes to the 2006 UL White Book.

The Index of UL Product Categories Correlated to the *NEC-2005* seems like a great tool, how do I use the index to determine compliance with the *NEC*?

A

The new Index of Product Categories Correlated to the *NEC-2005* provides a direct link between individual sections within the *NEC* and corresponding UL product categories that may be applicable to that section of the code. The index starts on page 311, and is simple to use, just look up a particular *NEC* section number and read across to locate the corresponding UL category code and page number on which the complete guide information for the category is located. This will direct you to the UL Guide Information for the product category, which provides important information regarding the applications for which the products covered under the product category are Listed. Among other things this includes a description of products covered, selected installation marking information, the standard used to investigate the product, and a description of Listing Marks provided on prod-

ucts covered under that category. This information goes a long way in helping to determine the suitability of the installation for compliance with the *Code* as well as compliance with *NEC* 110.3(B).

It is important to remember that the Index of UL Product Categories Correlated to the *NEC-2005* is intended to serve as a tool for identifying product categories that correspond to particular code sections, and their location in the White Book. Locating the Product Category Code on the pages indicated will provide the user with the UL Guide Information for the applicable category code. This Correlation Index may not include all UL product categories that may be applicable to a particular code section. The user should independently confirm the applicability of the product category to the code Section and verify that no other UL Product Categories apply to the installation. The installation of products

for the categories identified in the Index are subject to approval by the authority having jurisdiction (AHJ).

If you would like to obtain a complimentary copy of the 2006 UL White Book please see the UL representative at your local IAEI Chapter meeting or contact UL at <https://www.ul.com/auth/regcon.cfm#contact>.

The "UL Question Corner" answers questions of general interest that are sent in from authorized government inspectors that we believe will have interest for many inspectors.

Please send us questions you may have that are general interest, and we will have UL engineers answer them in a future issue. If space does not permit answering all questions, we'll see that you get an answer by letter.

Send your questions to:

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UL Question Corner, *IAEI News*

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