



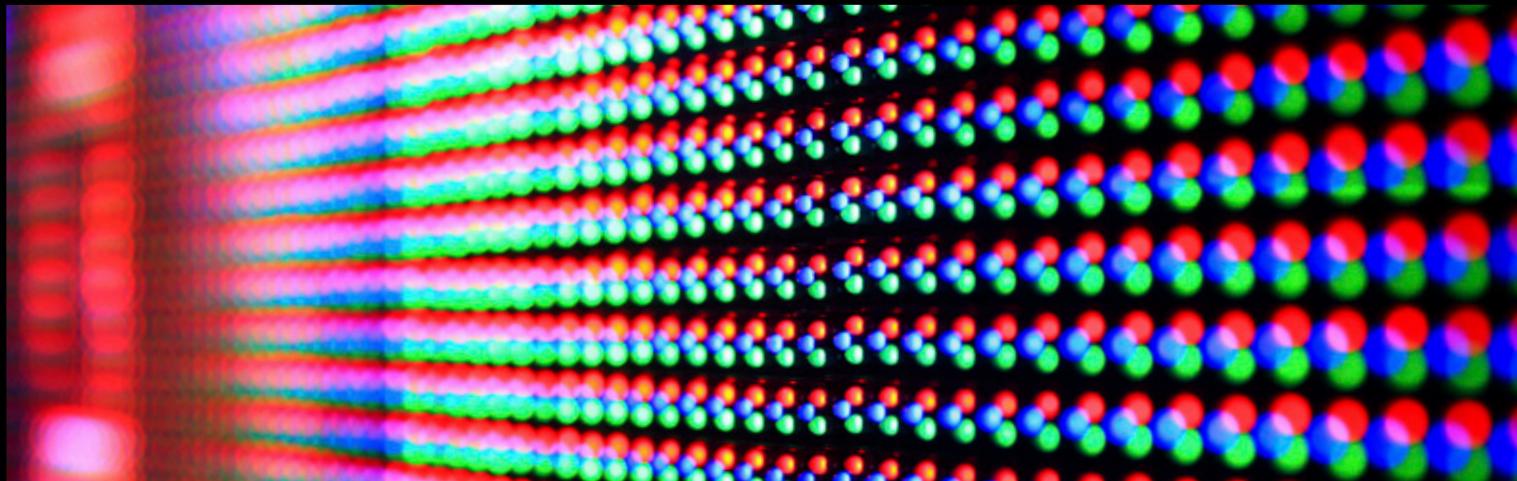
LUMEN INSIGHTS®

2014 Issue 2

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LED Driver Type TL Program

By Michael Ritto / Business Development Manager, Lighting Components

The world of Solid-State Lighting is evolving quickly! Most literature prescribes that LED lighting products have a shelf life of approximately 6 Months. Now more than ever, being able to adopt the newest technology quickly is critical to manufacturers success in the market. It was with this challenge in mind that UL set out to create the LED Driver Type TL Program.

Through the flexibility of the UL Recognized Component program, LED Drivers are often designed with varying constructions and are tested in a variety of ways. This flexibility is sought after by manufacturers as it allows a certain degree of design freedom, however, it creates a situation where, in most cases, no two LED Drivers

are interchangeable without the need for additional safety considerations and often repeat testing. UL's Type TL Program takes aim at this situation and creates a set of evaluation and testing guidelines to allow for more standardized LED Driver constructions and ratings. By requiring certain construction features, such as an enclosure and provisions for field wiring, we can reduce the amount of considerations required in the end product. By additionally standardizing Temperature Test methods and fault testing criteria we can further reduce the amount of considerations required in the end product. By minimizing the end product considerations and opening a path for direct substitution, the TL program helps manufacturer's products

gain market access in the most efficient way possible. The Type TL evaluation method allows component manufacturers to more easily engage their end users and give them confidence they are using the component that best fits their needs.

Type TL is an optional mark for LED Driver manufacturers that may be applied to either Listed or Recognized LED Drivers. For luminaire manufacturers to benefit from Type TL Driver, their luminaire must be first evaluated with a Type TL Driver employed. Once the Type TL Driver is incorporated as part of the luminaire report, there becomes a path for alternate LED Drivers to be employed without the need for re-testing.

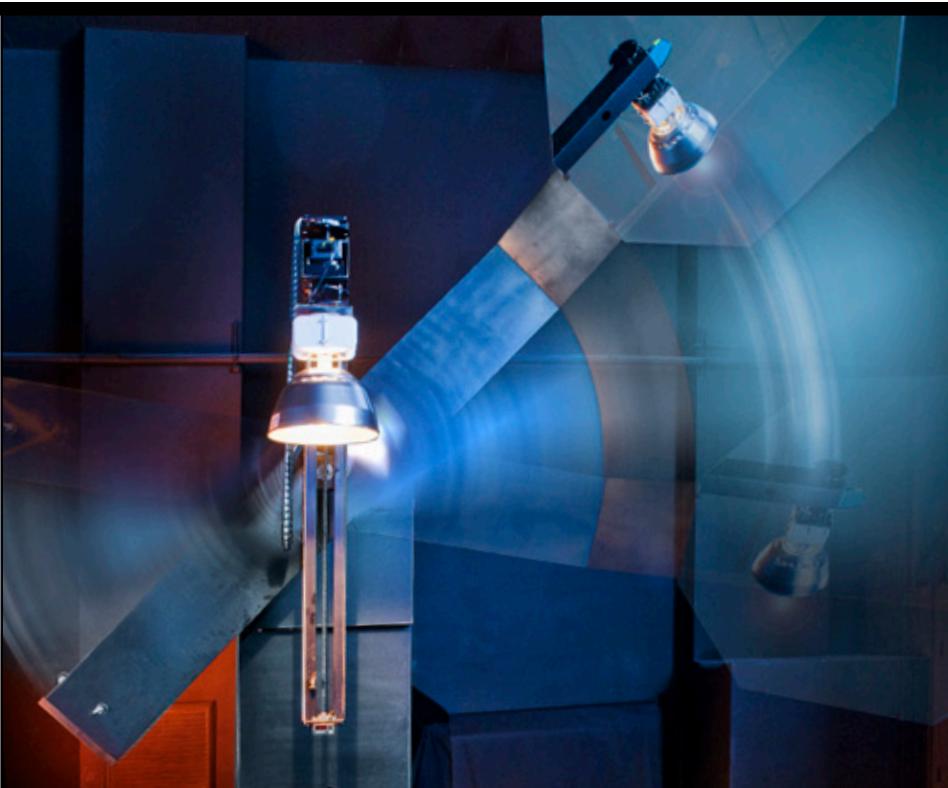
[Click for more information.](#)

A Letter From Todd

For those of you that had an opportunity to visit the Light & Building Show in Frankfurt or LIGHTFAIR International

in Las Vegas, it was clearly evident that the new themes of lighting centered around three C's: Controllability, Connectability, and Communication. LED Technology is making it unmistakably apparent that the lighting products of the future will contain additional functionality well beyond traditional general illumination. These quickly emerging themes of LED Lighting will undoubtedly have a tremendous impact on how products are tested and certified in the future. UL is excited about these advances, and remains committed to finding innovative approaches to Certification and Testing that will allow industry to incorporate new technology while bringing new products to market safely and efficiently. We look forward to working with you in navigating and implementing these new technologies.

Todd Straka
Business Development Director,
Global Lighting



UL Consolidates Equipment Manufacturing to the Midwest

By James Walker / Manager, UL Lighting Equipment

UL recently consolidated their equipment manufacturing to a new 25,000 SOFT facility at their Newton, Iowa laboratory. Here, UL is producing goniophotometers, lamp life test stations, lamp base torque test stations and specialty equipment for lighting manufacturers all under one roof. This consolidation allows for performance testing lab expansion in Scottsdale Arizona and provides a one-stop-shop inclusive of Engineering Services, Software Development Services and Manufacturing all under one roof – allowing for faster delivery.

This facility is centrally located in the US with inventory managed by an integrated MRP system, allowing for better scheduling of product manufacturing. UL also recently built the Goniophotometer Test Center in Newton, Iowa, a lab for customers to visit and operate our standard large goniophotometer. The new test center also accommodates customer training.

As technology evolves and the marketplace continues to change, combining engineering, manufacturing and the Goniophotometer Test Center enables quicker development of new products and upgrades of existing products. For more information contact ULGoni@ul.com.

UL+IEC Bundle for LED Portable Luminaires

By Roberto Inclinati / Business Development Manager

A first-of-its-kind, UL has created a single investigation pathway to LED portable Luminaires that combines the requirements of IEC and North American standards that are not formally harmonized and part of the CB scheme.

UL has developed an investigation plan and certification report format that can establish U.S., Canadian, and IEC (CB Scheme) certification with a single set of samples and tests for IEC 60598-2-4, UL 153, and CSA C22.2 No. 12.

This new program is the second stage of segment redesign UL started last year with the new portable luminaire FUS approach, implemented in January 2014.

The new offer includes not only the safety portion (cULus & CB+ 1 deviation) but also the performance required for energy efficiency (LM79 & EN13032) and the new photobiological requirements in accordance at the IEC 62778.

If the deviation selected is the European one, a third mark like D mark or ENEC, can be provided free of charge.

Benefits of the Bundle

- Cost reduction
- Faster time to market
- Global market access
- Significant certification time reduction
- One reference point
- Only one test report

The program also includes flexibility for many luminaire design features, to permit substitution of certain components and alteration of various aesthetic elements that are critical to keeping the product line fresh and of interest to the consumer and commercial market.

In combination with this program we provide a eLearning orientation path that will support the initiative providing the essential information that the manufacturers have to be in compliance with in order to get a first pass yield:

- Components acceptance
- Critical components
- Wire & Cable requirements
- Technical GAP analysis between UL 153 and IEC 60598-2-4

For more information please visit <http://industries.ul.com/blog/uliec-bundle> or contact lightingquote@ul.com



STANDARDS CORNER

By Diana Pappas Jordan / Standards Program Manager

UL Standards encompass UL's extensive safety research, scientific expertise and uncompromising focus on quality. With over a century of experience and the development of more than 1,000 Standards, UL continues to break new ground in its mission to help create a safer, more sustainable world.

Standards information link:

<http://www.ul.com/global/eng/pages/solutions/standards/>

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UL 1598 – Luminaires (Tri-national standard)

Next revision cycle has started, which will be a 2-year cycle. Proposals received by the SDOs were sent to CSA (the Publication Coordinator). CSA sent proposals to the THC (Technical Harmonization Committee) Chair and the proposals were reviewed and discussed during February 2014 CANENA meeting.

UL 1598A - Supplemental Requirements for Luminaires for Installation on Marine Vessels

Reaffirmation of 1st edition of UL 1598A went out for ballot on April 4, 2014 with a due date of May 19, 2014. The purpose of the reaffirmation is to maintain ANSI approval.

UL 1598B – Supplemental Requirements for Luminaires Reflector Kits for Installation on Previously Installed Fluorescent Luminaires

Proposal went out for preliminary review on January 17, 2014 with a due date of February 7, 2014. The proposal related to the clarification of the requirements for luminaire retrofit kits that provide replacement lampholders or instant

start ballasts. The revisions are being prepared for publication.

UL 1993 - Self- ballasted Lamps and Lamp Adapters (Tri-national standard)

The next revision cycle has started. UL is the Publication Coordinator. Multiple proposals went out for preliminary review on May 2, 2014 with a due date of June 2, 2014. Link to summary of topics: http://ulstandardsinfonet.ul.com/sot/b1993_4_20140502_sum.html

UL 8750 - Light Emitting Diode (LED) Equipment For Use In Lighting Products

Multiple proposals went out for preliminary review on October 24, 2012. These proposals were discussed at the November 2012 STP meeting. Some of the proposals were reworked and went out for ballot on June 7, 2013. The remaining topics will proceed separately. Responses have been posted and revisions were proposed in a CSDS recirculation Work Area on October 11, 2013 with a due date of November 11, 2013. Another recirculation Work Area opened on February 18, 2014 with a due date of March 4, 2014. The revisions are being prepared for publication.

Multiple proposals went out for preliminary review on October 14, 2013 with a due date of November 8, 2013. These proposals were discussed at the November 2013 STP meeting and some will be proceeding to ballot. Link to the summary of topics: http://ulstandardsinfonet.ul.com/sot/b8750_1_20131014_sum.html

UL 8752 / ULC-S8752 – Organic Light Emitting Diode (LED) Panels (Joint UL / ULC binational standard)

Proposal went out for preliminary review on November 15, 2013 with a due date of December 16, 2013. The proposal related to the addition of requirements for OLED panel internal short circuit test. Based upon the comments received, it was decided not to proceed to ballot.

UL 935, UL 1029, UL 542 – Ballasts (Tri-national Standard)

The draft of Part 1 of the proposed Standard, covering general construction and test requirements is being reviewed by the CANENA Harmonization Committee (THC34/SC34C) and being prepared for preliminary review.

The Part 2 documents which will include specific requirement for the various product types still need to be developed.

UL 935 (current UL Standard, 10th edition)

Proposal went out for preliminary review on May 29, 2013 and related to the addition of requirements for ballasts intended to be dimmed using solid-state dimming controls electrically wired in series with the mains supply. Another proposal went out for preliminary review on July 26, 2013 related to revising the arcing test method in Section 30. These proposals went out for ballot on October 18, 2013 and then for recirculation on March 14, 2014 with a due date of April 14, 2014.

UL 153 - Portable Electric Luminaires

The 13th Edition of UL 153 was published on March 3, 2014 as an editorial update only. No changes in requirements have been made.

UL 1786 – Direct Plug-In Nightlights (Bi-national Standard)

Next revision cycle started. Multiple proposals went out for preliminary review on October 17, 2013 with a due date of November 7, 2013. Link to the summary of topics: http://ulstandardsinfonet.ul.com/sot/b1786_3_20131017_sum.html. The comments were sent to the THC Secretary for review by the THC. UL (the Publication Coordinator) is preparing the proposals for ballot.

UL 496 - Lampholders (Bi-national standard)

New revision cycle is starting. A Call for Proposals will be sent out to industry in the future.

UL 1088 – Temporary Lighting Strings

Proposal went out for preliminary review on September 19, 2013. The proposal was to allow for the use of energy efficient light sources in temporary lighting strings. The proposal went out for ballot on November 1, 2013. The revisions were published on March 11, 2014.

UL 2108 – Low Voltage Lighting Systems

Multiple proposals went out for preliminary review on August 27, 2013. The proposals went out for ballot on October 4, 2013 and recirculation on December 13, 2013. Link to the summary of topics: http://ulstandardsinfonet.ul.com/sot/b2108_1_20131004_sum.html. The revisions were published on February 24, 2014.

UL 1838 – Low Voltage Landscape Lighting Systems

Multiple proposals went out for preliminary review on September 20, 2013. Link to the summary of topics: http://ulstandardsinfonet.ul.com/sot/b1838_3_20130920_sum.html.

html. The proposals went out for ballot on November 8, 2013. The revisions were published on February 24, 2014.

UL 924 – Emergency Lighting and Power Equipment

Multiple proposals went out for preliminary review on April 24, 2013. The proposals went out for ballot on August 16, 2013. Link to the summary of topics: http://ulstandardsinfonet.ul.com/sot/b0924_9_20130816_sum.html. The proposals went out for recirculation on February 7, 2014 and February 14, 2014. The revisions were published on April 29, 2014.

Proposal went out for preliminary review on September 11, 2013. The proposal is to delete SH3.2 (using photometric data to show conformance). The proposal went out for ballot on October 18, 2013 and then for recirculation on December 3, 2013. The revisions were published on April 29, 2014.

UL 676 – Underwater Luminaires and Submersible Junction Boxes

Proposal went out for ballot on January 24, 2014 and then for recirculation on March 21, 2014. The proposal related to Luminaires suitable for mounting within 4 inches of top of pool. The proposal did not obtain consensus and will not be published in the standard.

UL 48 - Electric Signs

Proposal went out for preliminary review on December 24, 2012. The proposal was related to two topics: (1) Clarification of drain opening requirements and (2) Grounding and Bonding Marking. Another proposal went out for preliminary review on December 20, 2013. The proposal was related to two topics: (1) Addition of requirements for laminated or organic-coated glass and revision to test method and (2) Addition of requirements for signs with photovoltaic systems or modules. These proposals went out for ballot on March 28, 2014 with a due date of May 12, 2014.

UL 48B – Changing Message Signs and Displays

UL is currently developing proposed 1st edition for UL48B.

UL 879 – Electric Sign Components

Revisions were published on April 9, 2014 to remove the reference to the withdrawal date of UL 873 and to address universal upkeep of the standard. These revisions were non-substantive and not subject to UL's STP process.

Call for Proposals went out on October 14, 2013 with new proposals due November 22, 2013. No proposals were received. UL proceeded with the reaffirmation of the standard to maintain ANSI approval. The 9th edition of UL 879 went out for ballot on April 25, 2014 with a due date of June 9, 2014.





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Safety Compliance Guidelines for Luminaire Retrofits

Join UL Principal Engineer Mike Shulman on August 6 and gain expert insight into the current state of the retrofit luminaire environment, retrofit kit selection and installation, critical marking requirements and much more. Space is limited — register before July 15 and save 10%* with discount code "EA614."

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— Electrician, Sacramento

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* Discount codes may not be combined with any other offer. Other terms and conditions may apply. Terms and conditions are subject to change at any time without notice.

You might also be interested in these UL training courses:

LED Luminaires — Designing for Compliance to UL 8750 (In Accordance with UL 1598)

This one-day technical training course will provide an in-depth exposure to UL processes and requirements for LED luminaires.

October 22 – Brea, CA

November 18 – Raleigh, NC

Click to Register!

LED Light Source Design Essentials eLearning

Explore the primary certification services for lighting and review the UL standards and requirements for luminaires. [Click for more information](#) or [send an email](#).

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* Offer valid through Dec.31, 2014. Please mention discount code LFI14.
UL and CE/CB project needs to be submitted together

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INTRODUCING THE NEW UL SIGN COMPONENT SEARCH PAGE

By Clifford Adams / Senior Staff Engineer

As the industry leader in Signs and related categories, we are continuously looking for ways to enhance our service offerings to our valued customers. As part of one such effort, UL has developed a custom search page "Sign Component" designed specifically for electric sign manufacturers. Its purpose is to provide convenient access to components used in the manufacture and installation of electric signs, and to important information relating to UL's Sign Certification Program. It is part of UL's Online Certifications Directory that is located on www.ul.com and is located in the "Specific Searches" window. You can access the tool anytime and from anywhere. Best of all, the use of this tool is free.

The direct link to the new Sign Component search page is, http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/sign_component.html.



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