

FEATURED ARTICLE

Retail Performance Testing: UL Launches a new Laboratory in Allentown, PA



As part of a continued effort to diversify the portfolio of performance testing services offered to our clients, the UL Performance team located in Allentown, PA is pleased to announce the addition of a full-service laboratory designed to assist and support the evaluation and testing needs of UL's retail clients.

UL's laboratory in Allentown initially focused on the performance testing of lighting products but has now expanded its capabilities and capacity to deliver seamless services for a wide variety of testing and evaluation scenarios that retailers require.

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Spotlight: Letter From Roberto



Access to the global market is essential for company growth and the basic requirement to access most markets is a CB test report, based on IEC standards, issued by a CB Testing Laboratory (CBTL).

Did you know that UL currently has eight CBTLs (Freemont, Research Triangle Park, Frankfurt, Italy, Suzhou, Guangzhou, Taiwan and Japan)?

Over the past several years, we have invested to expand our global footprint regarding the IEC to ensure a quick response and local support to our clients.

We will continue to expand our global capacity and capabilities in 2018 to offer even better service to our clients.

Get in touch with our global market access experts at GMA@ul.com to learn more about the local regulations you need to be successful with your products.



Roberto Inclinati
Global Commercial Leader for
the Lighting Industry



Upcoming UL Education & Training for the Lighting Industry

At UL Knowledge Solutions, our goal is to help you develop safe, useful products that meet and exceed your customers' needs. Here you will find dozens of training courses taught by qualified instructors, both Public Workshops and Online eLearning Courses.

Public Workshops

[Designing Lighting Controls for Compliance to UL 60730: Automatic Electrical Controls for Household and Similar Use](#)

[6/5/2018 Northbrook, IL](#)

[10/3/2018 Fremont, CA](#)

[Electric Signs: Designing for Compliance to UL 48 15th Edition](#)

[7/17/2018 Baltimore, MD](#)

[8/8/2018 Raleigh, NC](#)

Online eLearning Courses

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[LED Light Source Design Essentials](#)

[LED Equipment, UL 8750](#)

[Luminaire, UL 1598](#)

To view a **COMPLETE** list of our public workshops and online courses, please visit UL.com/lightingtraining

(cover story continued)

Retail Performance Testing: UL Launches a new Laboratory in Allentown, PA

This new lab is well prepared to serve as a partner in support of retailers continuing their efforts to elevate product quality and minimize returns and recalls.

“In addition to continuing to serve our lighting clients with best in class service, we are excited for the opportunity to extend our services and collaboration with retailers,” stated Zachary Mooney, Engineering Leader for the UL laboratory in Allentown.

“Our new testing and evaluation capabilities will further strengthen UL’s ability to deliver the quick turn-around times and increased efficiencies in testing and reporting that retailers demand,” added Mooney.

For more information regarding UL’s retail service offerings in Allentown, please contact PerformanceSolutions@ul.com.

UL Opens Center of Excellence Laboratory for Appliances, Lighting and HVAC in Carugate, Italy



UL recently celebrated the grand opening of its new Carugate-based center of excellence: a new laboratory for testing lighting, appliances, HVAC and gas products

and equipment. The opening highlight was an official ceremony, in which the Mayor of the city of Carugate – Mr. Luca Maggioni – took part, along with representatives from UL and many customers from different industries.

UL’s Carugate center of excellence, which sits on a 2,500 square meter site, will serve as a hub for the European market and is entirely dedicated to safety, energy efficiency and performance testing. The new facility, which integrates the UL lighting laboratory (formerly based in Burago di Molgora), a lab dedicated to appliances and HVAC products and the brand-new laboratory for gas equipment, benefits from the combined expertise of these complementary services to offer high-tech solutions and a highly skilled staff of engineers and technicians.

The Carugate laboratory is now open for testing, and offers all the safety marks required to access global markets and to verify lighting and energy efficiency performance. Accepted product categories include: luminaires, street-light, lighting components, dishwashers and all domestic appliances, commercial coffee machines and all commercial appliances of the HO.RE.CA channel, ovens and gas equipment, heating and air conditioning equipment.

The new facility dedicated to the testing of gas equipment can test 43 different kinds of gas and represents the most innovative

element of the center. Manufacturers can now have different types of products tested and certified locally for the global market and for Europe, all in one central location.

“With this new center of excellence, we are further expanding our testing and certification capacities in Europe to improve how we serve market demand,” said Todd Denison, vice president and general manager for UL’s Appliances, HVAC and Lighting division. “The creation of a European hub to cover all the testing and certification needs of the AHL sector allows us to offer high-performance services to European manufacturers locally, which simplifies the process by providing testing and certifications from a single source and at one location.”

“UL is a worldwide leader in appliances, HVAC and lighting products testing. This laboratory, matched with our world-class engineering expertise, will increase our capability in the EU, and help our clients access and enter new markets around the world,” says Marcello Manca, UL’s vice president of government & industry affairs for Europe.

This article was originally published by [UL Newsroom](#).



New Swarm Behavior

By: Joachim Ritter / PLD Editor

In the animal kingdom, the phenomenon known as “swarm behavior” means that by going with the basic flow, you are most likely to be on the right track. For example, as human beings, we tend to rely on the average experience of the community in general to dictate our actions. However, that can mean that we end up having to be content with mediocrity, which never helps society progress. Only those who do not hide behind the masses and are prepared to explore new horizons with the courage to blaze new trails will be able to break new ground. Best of all, these innovators often take others with them when they strike out in new directions.

Lighting technology today offers a wide range of new experiences and opportunities. The latest technical developments, the Internet of Things (IoT) and new findings regarding human-oriented lighting design, urge us to take the quality of lighting design to the next level and push our boundaries. It is difficult to say where we are likely to end up, but most people agree that design will change the future of our lives and light will play a key role. However, this also means that not all developments will be beneficial and some may require closer scrutiny. For example, the question as to how technology can be applied to meet human needs often appears to be completely open. Technology that has already been developed and is in use is often easy for “students” to understand, but exploring the correlation between our physiology and psychology – a topic that dates back thousands of years – is more challenging. How could we possibly claim that the current state of technology development is enough to satisfy the needs that stem from the complex processes in the human body?

Prior to Light+Building in Frankfurt, we were all receiving news and information from the industry promising us products that deliver Human Centric Lighting and IoT connectivity. Buzzwords, marketing concepts and grand visions of the future may help drive sales, but specialists dedicated to lighting design are well informed and often not influenced by these tactics. The lighting designer knows that s/he needs quality products to deliver quality lighting solutions, but s/he also needs to develop a quality design concept. This requires comprehensive know-how in many fields. Similarly, high-quality manufacturers know that it is unproductive to launch products offering functionality that few designers are qualified to understand or appreciate. Dissatisfaction regarding poorly functioning concepts, or concepts that do not work at all as a result of design errors, only lead to users and clients becoming worried and concerned, and displeasure is the first step to lack of trust.

This atmosphere makes it necessary to initiate a campaign and introduce a platform dedicated to further professional education and development in lighting design. Specialization and a sound knowledge of human needs and what opportunities state-of-the-art technology really offers are the key prerequisites for raising the level of what is generally accepted as average. The whole of society can benefit from every single aspect of knowledge building, and the quality shift in the lighting community will become increasingly dynamic as professional development continues to grow, leading to a swarm behavior experience we should all be aware of.

Global Market Access Corner:

Our Global Market Access team is prepared to help you achieve compliance with new requirements around the world. For more information or to contact our experts, visit our Global Market Access site at ul-certification.com.

These updates are for information purposes only and are not intended to convey legal or other professional advice.

European Union – Energy Labelling Regulation (EU) 2017/1369

By: Elena Andreula / EMEA Regulatory Program Expert

On July 28, 2017, the new Regulation (EU) 2017/1369 was published in the European Union Official Journal and replaced Directive 2010/30/EU on August 1, 2017.

The Regulation (EU) 2017/1369 establishes deadlines to replace the current A+, A++, A+++ classes with an A to G scale and establishes a product database that assists both national surveillance authorities in their enforcement of market surveillance and makes publicly available online the list of labeled products.

Purpose

The classification using letters from A to G is cost effective for customers selecting products based on energy efficiency. Moreover, it helps manufacturers develop and produce more efficient products.

The product database is a useful tool for the collection of data concerning products. This database provides the public with information about products and energy labels and supports market surveillance authorities in carrying out their tasks.

Rescaling of Labels



The regulation is already in force but delegated acts for electric lamps and luminaires have not yet been finalized and will be adopted by the Commission on or before November 2, 2018.

These regulations will offer details relating to introducing

the A to G rescaled labels with the aim of displaying them both in stores and online within specified effective dates.

After the adoption of a delegated act of this Regulation setting specific labeling requirements, the Commission publishes references to the harmonized standards that satisfy the

relevant measurement and calculation requirements of the delegated act in the Official Journal of the European Union.

Database

The obligations of suppliers in relation to the product database will apply beginning January 1, 2019.

The product database consists of a public portion, a compliance portion and an online portal. Information for the public and the compliance portion of the database shall be entered by the supplier while information for the online portal shall be entered by the Commission.

Effective January 1, 2019, suppliers shall, before placing a new covered model on the market, complete the public and compliance portions of the product database required for that model.

Where units of models covered by delegated acts are placed on the market between August 1, 2017, and January 2, 2019, the supplier shall, by June 30, 2019, enter in the product database the information set out in relation to those models.

Information included in the public portion of the database and the online portal shall be made publicly available while the compliance portion shall be accessible only to the market surveillance authorities and the Commission.

Conclusion

Delegated acts adopted pursuant to Article 10 of Directive 2010/30/EU and Directive 96/60/EC shall remain in force until they are repealed by a delegated act of this Regulation covering the relevant product group.

How UL can help

UL is expertly qualified to assist companies in demonstrating their products meet the essential requirements of Energy Labelling Regulation (EU) 2017/1369 and provides testing for luminaires to demonstrate compliance from a trusted third party.

Global Market Access Corner

Brazil – New INMETRO Certification Requirements for Streetlights (Luminaires)

By: Aurora Paguia / UL LATAM Regulatory Program Expert



The broader Latin America market is appealing for many manufacturers, but it is important to remember that market access requirements may differ from

country to country. This means it is often helpful to work with local representatives and an organization with a global understanding of market needs. Though many areas of innovation in the lighting industry may cross borders, local trends and requirements remain significant.

For example, in Technavio's July 2017 report, "LED Lighting Market in Brazil 2017-2021," analysts identified three trends driving the LED market in Brazil: Smart lighting, increasing urban population and smart cities.¹ As smart cities encompass many opportunities in the lighting market, including smarter street lighting options, this trend is worth noting for manufacturers looking for success in the Brazilian market. Further, on February 15, 2017, INMETRO approved the administrative Rule No. 20, 2017, establishing the technical and conformity criteria for street lighting using discharge lamps and LED technology. These requirements apply to the following types of luminaires intended for street lighting:

- I. Fixtures with discharge lamps up to 600 W;
- II. Fixtures with LED technology.

The following types of luminaires are excluded from these requirements:

- I. Fixed general-purpose luminaires;
- II. Recessed luminaires;
- III. Portable luminaires of general use;
- IV. Lamps with integrated lamp transformers of tungsten filament;
- V. Portable luminaires for the use of the garden;

- VI. Fixtures for stage, television and cinema lighting studios (interior and exterior);
- VII. Luminaires for swimming pools and similar applications;
- VIII. Luminaires for emergency lighting;
- IX. Lamps with extra-low voltage lighting systems for filament lamps;
- X. Luminaires for use in clinical areas of hospitals and health buildings.

INMETRO Certification compliance has been granted in phases as follows:

Phase 1 – New products marketed in Brazil must be INMETRO certified effective August 17, 2018.

Phase 2 – Products at the warehouse in Brazil without INMETRO certification prior to August 17, 2018 can continue to be marketed by manufacturers and importers until February 17, 2019. After that date, INMETRO certification for those products will be required.

Phase 3 – Products in the market without INMETRO certification prior to August 17, 2018, can continue to be marketed without INMETRO certification until February 17, 2020. After that date, INMETRO certification for those products will be required.

How UL can help

UL has local representatives in the region who can help you understand business customs, local culture and potential paths for market access. Our experts leverage the capacity of our global facilities to provide all services needed to certify your luminaire products for sale in Brazil. UL can conduct testing at our ILAC accredited labs outside of Brazil, or we can conduct testing at UL Testtech, our accredited facility in Porto Alegre, Brazil.

¹ <https://www.businesswire.com/news/home/20170614006194/en/Top-3-Trends-Impacting-LED-Lighting-Market>

European Union – Upcoming Standard Changes for Lighting Products

By: Elena Andreula / UL EMEA Regulatory Program Expert

Harmonized Standards Dates of Withdrawal

Electrical equipment in compliance with a harmonized European Standard (EN) cited in the Official Journal of the European Union shall be presumed to be in compliance with the corresponding requirements of harmonization legislation.

New European harmonized standard editions or amendments become mandatory starting from the Date of Withdrawal (DOW) of the superseded standard.

This date marks the end of the period during which both the old and the new version of the standard can be used to claim, 'presumption of conformity', to the essential requirements of the relevant directive. After that date, 'presumption of conformity' can no longer be claimed for a product manufactured according to the old version of the standard.

Here is an overview of the recent and expected changes in harmonized standards.

EN 60598-2-20:2015 - DOW 2017-12-30 - Supersedes EN 60598-2-20:2010

EN 60598-2-20:2015 specifies requirements for lighting chains fitted with series, parallel or a combination of series/parallel connected light sources for use either indoors or outdoors on supply voltages not exceeding 250 V. This edition includes significant technical changes with respect to the previous edition, where the requirements for rope lights (sealed lighting chains) have been removed and are now dealt with in IEC/EN 60598-2-21.

EN 62776:2015 - DOW 2018-01-15 - New Safety Standard

EN 62776:2015 specifies the safety and interchangeability requirements, and the exchange operation together with the test methods and conditions required to show compliance of double-capped LED lamps with G5 and G13 caps, intended for replacing fluorescent lamps with the same caps, having a rated power up to 125 W and a rated voltage up to 250 V. National standards conflicting with this new standard must be withdrawn.

EN 62493:2015 - DOW 2018-04-14 - Supersedes EN 62493:2010

EN 62493:2015 applies to the assessment of lighting equipment related to human exposure to electromagnetic fields.

The assessment consists of the induced internal electric field for frequencies from 20 kHz to 10 MHz and the specific absorption rate (SAR) for frequencies from 100 kHz to 300 MHz around lighting equipment. This edition constitutes a technical revision and includes the following significant technical changes with respect to the previous edition:

- Identification of lighting product types deemed to comply with the standard without the need for testing (for example, luminaires for tungsten filament lamps and LED luminaires);
- Deletion of the need for CISPR-15-compliance as a prerequisite for IEC 62493 compliance;
- Inclusion of the consequences of the ICNIPR 2010 guidelines (up to 100 kHz);
- Adding some guidance to the Van der Hoofden test head method to improve reproducibility of results;
- Inclusion of the compliance demonstration method for products having intentional radiators.

EN 60598-2-5:2015 - DOW 2018-09-10 - Supersedes EN 60598-2-5:1998

EN 60598-2-5:2015 specifies requirements for floodlights for use with electrical light sources on supply voltages not exceeding 1000V. This edition cancels and replaces the edition published in 1998 and includes significant technical changes introducing requirements for the glass breaking test.

EN 60929:2011/A1:2016 - DOW 2019-03-11 – New Amendment

EN 60929:2011 specifies performance requirements for electronic control gear for use on a.c. at 50 Hz or 60 Hz and/or d.c. supplies, both up to 1 000 V, with operating frequencies deviating from the supply frequency associated with fluorescent lamps and other fluorescent lamps for high-frequency operation.

This amendment includes changes in requirements for dimming.

[continued >](#)

Global Market Access Corner

(continued)

European Union – Upcoming Standard Changes for Lighting Products

EN 60598-2-4:2018 publication expected soon (will replace EN 60598-2-4:1997)

Specifies requirements for portable general-purpose luminaires for indoor and/or outdoor use (e.g. garden use), other than handlamps, designed to be used with or incorporating electrical light sources on supply voltages not exceeding 250 V.

In this edition of EN 60598-2-4, all requirements listed in IEC 60598-2-7 will be incorporated. As a consequence, EN 60598-2-7 will be withdrawn.

EN 60598-2-17:2018 publication expected soon (will replace EN 60598-2-17:19889/A2:1991)

Specifies requirements for stage, television, film and photographic studio luminaires (including spot and floodlighting projectors) for use outdoors and indoors, with electric light sources on supply voltages not exceeding 1000 V. This edition constitutes a technical revision and includes the following significant technical changes with respect to the previous edition:

- Extension of the applicable scope from “light source” to “electric light source” and replacement of “tungsten filament, tubular fluorescent and other discharge lamps” with “electric light source” in 17.1;
- Consideration of the fact that there are many LED luminaires with non-replaceable light sources, and light sources without a glass bulb, or with low operation

temperature: The applicable scope of relevant clauses therefore only applies to replaceable light source luminaires with a glass bulb lamp or with high surface temperature.

EN 60570:2003/A1:2018 publication expected soon

Applies to track systems for ordinary interior use with two or more poles and with provision for earthing (Class 1), with a rated voltage not exceeding 440 V between poles (live conductors), rated frequency not exceeding 60 Hz and a rated current not exceeding 16 A per conductor for the connection of luminaires to the electrical supply

How UL can help

UL is expertly qualified to assist companies in demonstrating their products meet the essential requirements of harmonized legislation and can help customers achieve compliance testing according to the applicable harmonized standards.

In addition, UL certifies products according to the ENEC and ENEC+ marks. Widely recognized throughout Europe, the ENEC and ENEC+ marks are voluntary for luminaires, and they demonstrate compliance of products with harmonized European standards verified by an independent third party. Therefore, they can be complementary marks to the mandatory CE marking which is based on a self-declaration.

Middle East, Saudi Arabia – SASO CoPC Initial Scope Confirmed

By: Gabriella Mazzola / UL Global Market Access Engineering Leader, Convenor of Working Group 3 of GSO Notified Bodies Cooperation Group for Low Voltage Regulation

The new SASO IECCE CB Recognition Program, also known as SASO Certificate of Product Conformity (SASO CoPC), which was announced to become mandatory starting February 15, 2018, has been postponed for lighting products for a period of three to six months. The final implementation date has not yet been determined by SASO.

SASO must also define the details of the lighting products

in scope, applicable standards and HS commodity codes for customs surveillance.

SASO CoPC will replace the current SASO CoC program and will be based upon mandatory submission of a valid CB Test Certificate and CB Test Report covering Saudi national differences, as applicable. The CoPC will be valid for one year and will need annual renewal.

Global Market Access Corner

Mexico – New Standards for Lighting Products

By: Aurora Paguia / UL LATAM Regulatory Program Expert

The following standards were published in the DOF (Federal Official Diary) and will replace current versions of the Mexican standard on the effective dates noted below:

» **NMX-J-307-ANCE-2017 “General use indoor and outdoor use Luminaires” –**
Effective on October 04, 2017



» **NMX-J-588-ANCE-2017 “Seasonal and Holiday Decorative Products”**
Effective on November 07, 2017



» **NOM-058-SCFI-2017 “Controllers for artificial light sources, for lighting purposes in general” –**
Effective on February 11, 2018*



* *Note –The scope of NOM-058-SCFI-2017 now includes LED controllers.*

Products submitted for certification on or after the specified effective date must be evaluated to the new standard.

The following standard was published in the DOF (Federal Official Diary). This is a new requirement to become effective as noted below:

» **NOM-029-ENER-2017 “Energy efficiency of external power supplies. Limits, test methods, marking and labeling.”**
Effective on April 25, 2018



How UL can help

UL can provide all services needed to certify your luminaire products for sale in Mexico. UL can conduct testing at our approved labs outside of Mexico, or we can facilitate testing at our accredited UL Mexico lab.

Standards Corner

Standards information link [HERE](#).

Sign up for “What’s New” at [HERE](#) by selecting “Join Email List” on the What’s New site to receive email notifications twice a month listing the various UL, UL Environment, and ULC Standards documents published during that timeframe.

Standards Update

UL 48 – Electric Signs

Several new proposals are under development and will be circulated for preliminary review during Q1 of 2018. One proposal addresses sign constructions employing receptacles providing auxiliary functions separate from the signage application. The other is related to reference standards and requirements for components used in PV signs. Stay tuned!

UL 924 – Emergency Lighting and Power Equipment

A series of new proposals were circulated for STP preliminary review on December 7, 2017, with the comment period closing January 12, 2018. These proposals include expanded requirements for emergency lighting controls, requirements for the reliability evaluation of electronic emergency lighting controls and expanded options for derangement signals. The ballot opened February 23, 2018, and is scheduled to close April 9.

UL 935-1 – Discharge Lamp Control Devices, Part 1 – General Requirements

The ballot (tri-national) version of the 1st edition of UL 935-1 is still under consideration.

UL 1598 – Luminaires (Tri-National Standard)

The current revision cycle is well underway. Click [here](#) to see the summary of topics. Proposals were issued for the ballot on April 28, 2017, with a closing date of June 12, 2017. Proposals reached consensus with comments, which have been reviewed by the Technical Harmonization Subcommittee. The recirculation of proposals further developed as a result of the ballot comments, opened January 5, 2018, and closed February 5. All proposals maintained consensus and will be coordinated for publication.

UL 8750 – Light Emitting Diode (LED) Equipment for Use in Lighting Products

As a result of the conclusion of the revision cycle in 2017, the proposal adding requirements for conduit-connected enclosures was published February 5, 2018.

The proposal relating to the expansion of UL 8750 scope to include LED controllers supplied from branch circuit was published December 18, 2017.

A 10-topic proposal was open for preliminary STP review until February 26, 2018. [Link to summary of topics.](#)

2018 Tradeshows

Contact UL industry experts at LightingInfo@ul.com if you would like to set up an in-person meeting at any of the listed tradeshows or if you have any general questions. We're here to help!

Taiwan International Lighting Show

April 25-28, 2018

Taipei Nangang Exhibition Center, TW

LIGHTFAIR International

May 8-10, 2018

McCormick Place Chicago, IL

Booth #4857

Guangzhou International Lighting Exhibition

June 9-12, 2018 – Import and Export Fair Complex
Guangzhou, CN

American Lighting Association Annual Conference

September 24-26, 2018

Omni Grove Park Inn Asheville, NC

International LED Professional Symposium + Expo LPS

September 25-27, 2018

Opera House Brengenz, AT

Canton Fair

October 15-16, 2018

Import and Export Fair Complex Guangzhou, CN



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