



# Lighting testing and certification in Europe

Driving innovation and facilitating global market access

Empowering Trust™



We facilitate market-readiness in Europe with a complete portfolio of local services

From product testing and regulatory advisory to certification and compliance services, UL is the trusted single-source provider for the entire lighting supply chain. We help designers, developers, engineers, quality managers and compliance professionals all over Europe deliver safe, smart, efficient lighting products and bring them to markets in Europe, North America, Asia and the Middle East.





Lights on in all markets!



*We understand the challenges of the rapidly evolving lighting technology, and how crucial time-to-market is for our customers.*

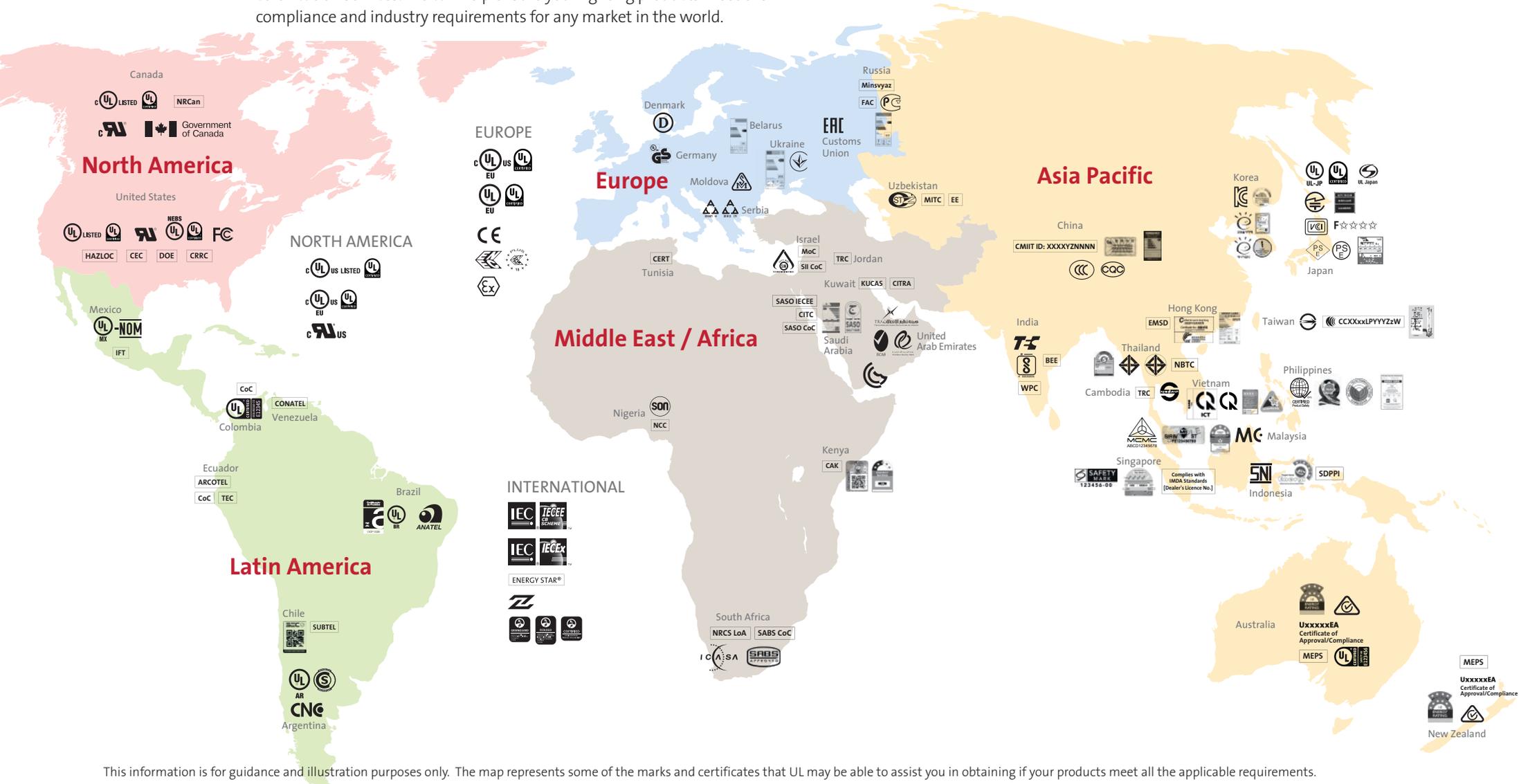
**Dr. Hans Laschefski,**  
Business Development Manager,  
UL's Lighting division in Europe



# Global Market Access

Wherever you want to go, we can help you get there.

UL operates in over 143 countries – delivering customized advisory, testing and certification services. We can help ensure your lighting products meet the compliance and industry requirements for any market in the world.



This information is for guidance and illustration purposes only. The map represents some of the marks and certificates that UL may be able to assist you in obtaining if your products meet all the applicable requirements.

## Illuminating insights from industry experts

At UL, we know the global lighting industry inside and out. As leaders and active participants within technical task groups and international standards committees like the IEC, we offer a cutting-edge understanding of the ever-evolving lighting industry and critical business intelligence to help you make informed decisions, meet regulatory requirements for multiple markets, and expand your business's reach around the world.

## Work with the No. 1 issuer of CB test reports

A majority of safety tests for luminaires intended to be sold in Europe – and many other global markets – are based on the IEC CB scheme. UL is a IECEE CB Testing Laboratory (CBTL) with state-of-the-art facilities in Milano, Italy, and Frankfurt, Germany.

We are proud to be the Number 1 issuer globally of CB test reports across all industries\*. Thanks to our expertise in international standards, our customers benefit from a streamlined certification process and access to multiple target markets in the world.



*The most effective way to get your products certified smoothly is to involve us early in the process. We can identify potential non-compliances in time – before they lead to costly rework or delays.*

**Luca Tibaldini, Engineering Manager,  
UL's Lighting division in Europe**



\*Data refer to CB test reports issued in 2017



## Safety



### Electrical, mechanical and photobiological safety testing and certification

Demonstrate your commitment to safety to customers and consumers through third-party testing. With 125 years of experience in product safety, we can help you gain the safety knowledge, test reports and certifications you need for European and international markets:

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Low Voltage Directive (LVD)

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Photobiological Safety of Lamps and Lamp Systems (IEC/EN 62471) for LEDs

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Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU

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ATEX Directive and IECEx for Hazardous Locations

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CE Marking for Europe

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ENEC Marking for Europe

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IECEE CB Scheme

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Eurasian Conformity Mark (EAC) for the Eurasian Customs Union

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C-UL-US Mark for North America (ANSI/UL 1598, ANSI/UL 8750)

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UL-EU Mark – combining Europe and North America

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## EMC

### Testing of electromagnetic compatibility of drivers and luminaires

EMC testing analyses the ability of electronic devices to operate as expected in proximity to other electronic devices or in the presence of electromagnetic emissions. We provide emissions and immunity testing or pre-evaluations to regional and international EMC requirements, including:

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Electromagnetic Compatibility (EMC) Directive or applicable EN standards

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US-FCC

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ISED Canada

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Japanese Voluntary Control Council for Interference (VCCI)

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# Performance & Energy Efficiency

## Quality and performance testing

Our services provide objective confirmation of a product's performance by simulating real-life conditions in controlled laboratory settings. Testing includes:

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Photometrical testing to IEC/EN 13032  
(and LM-79 for USA and Canada)

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Ingress Protection (IP) testing to IEC 60529

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Accelerated stress/accelerated aging testing

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Benchmark and comparison testing

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Environmental, reliability and durability testing

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Failure analysis and materials testing

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Vibration testing, flicker testing, corrosion and salt fog

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Design verification

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## Energy efficiency testing and certification

With energy efficiency regulations on the rise globally, we have the capability to test your products locally and guide you through an increasingly complex compliance process. Our program tests and certifies products to a broad range of international standards:

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ENEC Plus (ENEC+) scheme

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Energy-related Products (ErP) Directive

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DesignLights® Consortium (DLC)

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California Energy Commission (CEC)

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ENERGY STAR®

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LED Lighting Facts®

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## ENEC Plus mark

LightingEurope, the voice of the European lighting industry, and the ENEC Mark, the pan-European independent third-party certification scheme for low-voltage products, have combined their efforts to create the ENEC+ Mark. The scheme verifies initial performance claims and assesses the robustness of product design, therefore providing an objective basis for fair comparison of lighting products.

We can guide you through each step of the ENEC and ENEC+ certification process, helping you successfully market your products in Europe.

*Today's markets are increasingly demanding energy efficient products. We can help you stay on top of the regulations and take advantage of those rapidly growing markets.*

**Roberto Inclinati, Senior Business Development Manager & Global Commercial Leader, UL's Lighting division in Europe**

# Radio Frequency

## Testing of radio-controlled lighting products

Radio-controlled lighting products (RF lighting) are subject to specific requirements and need to ensure they operate in line with global radio regulations. Our full-service EMC/radio laboratories in Germany and the U.K. are accredited by the following regulatory agencies and governments:

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Conformity Assessment Body (CAB) – Notified Body for the European Union

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Notified Body for the EMC (2014/30/EU) and RED (2014/53/EU) Directives for Europe

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CTIA Authorized Testing Lab (CATL)

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Telecommunication Certification Body (TCB) for the U.S. Federal Communications Commission (FCC)

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Foreign Certification Body (FCB) for Canada

### Radio testing services include:

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Testing to Radio Equipment Directive (RED) 2014/53/EU

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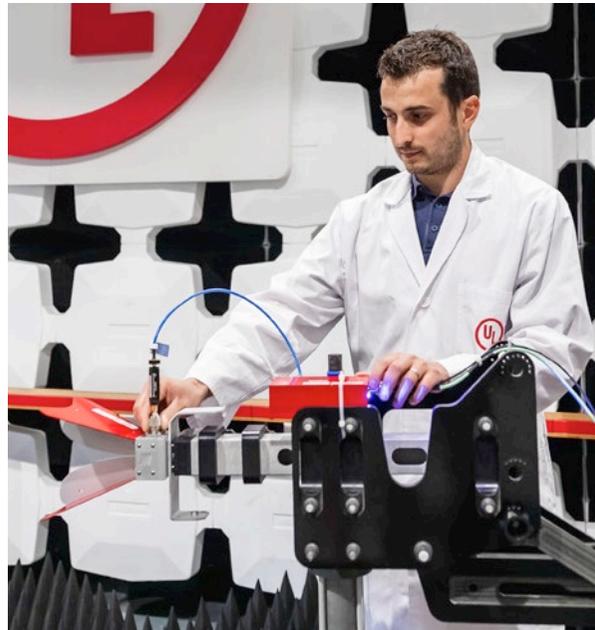
Testing to ETSI EN 300 328, EN 301 893, EN 301 511, EN 301 908, etc.

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Testing to EMC requirements for radio devices ETSI 301 489-1, and sub parts for specific conditions

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RF exposure evaluation and safety testing



# Interoperability

## Testing of connected and wireless technologies

Real-world product testing in specially designed laboratories helps you manage the risks and complex requirements of connected technologies. We provide comprehensive testing, certification and advisory services for software performance, connectivity of wireless products, interoperability and usability to help ensure products connect to other devices and function in the way consumers expect.

By testing for interoperability as well as compliance, we help you save significant time and costs and protect your brand reputation.



# Cybersecurity

## Solutions to power smart lighting connectivity



The UL Cybersecurity Assurance Program (UL CAP) for lighting offers testable cybersecurity criteria to assess software vulnerabilities and weaknesses, minimize exploitation, address known malware, review security controls and increase security awareness.

UL provides a full-service program to make products ready to connect securely:

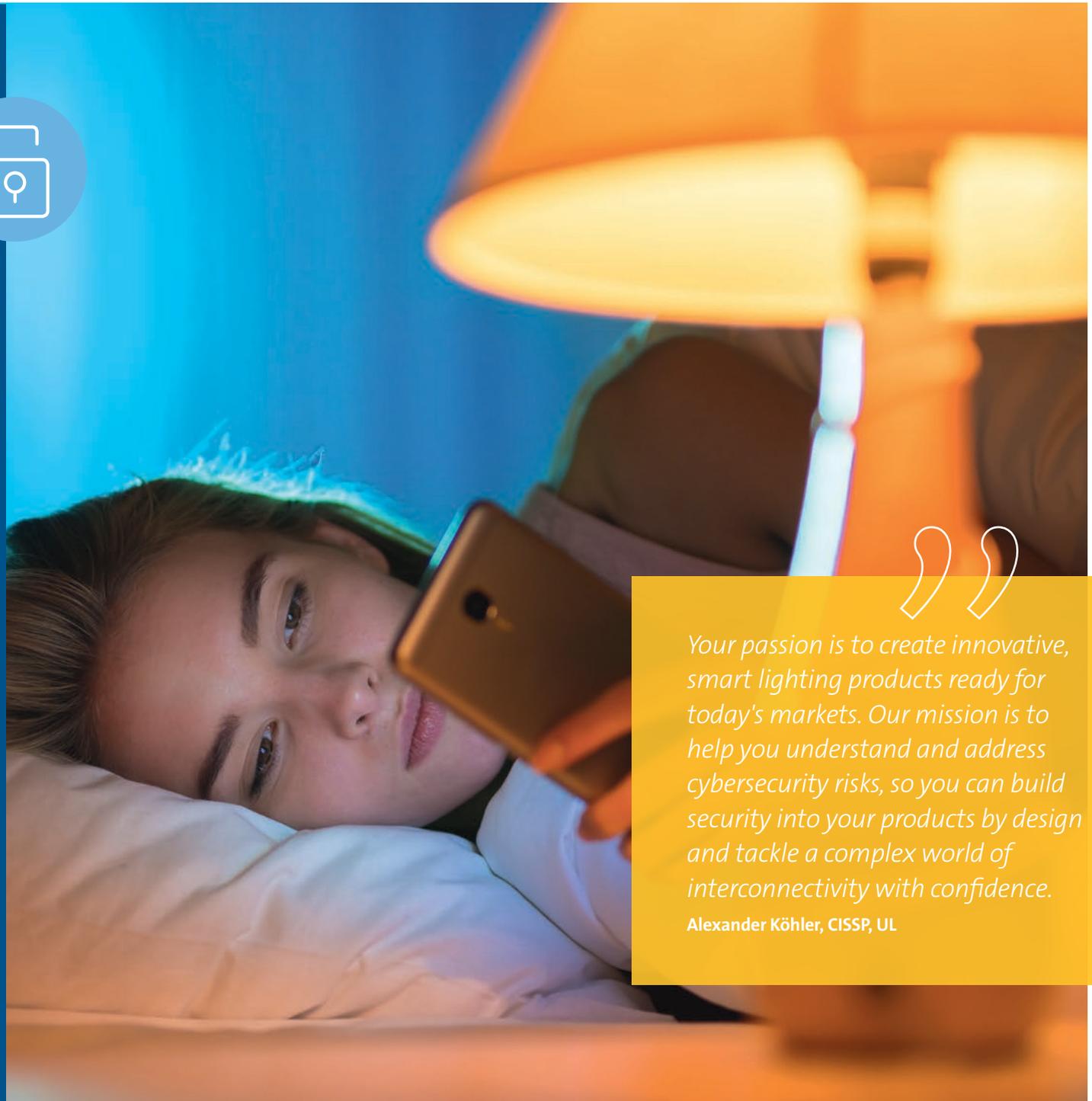
Advisory/training in security readiness for product design and sourcing third-party components

Evaluation and risk assessment of vendor processes for developing and maintaining lighting products and systems

Testing security criteria based on IEC 62443, ANSI/CAN/UL 2900 and any applicable cybersecurity standard or customer-defined requirements

Certification based on applicable cybersecurity standards in the lighting domain

Early adoption of our cybersecurity assurance solutions and the use of pre-tested components provide a competitive advantage of differentiation in the marketplace and can help mitigate the risk of potential cyberattacks.



*Your passion is to create innovative, smart lighting products ready for today's markets. Our mission is to help you understand and address cybersecurity risks, so you can build security into your products by design and tackle a complex world of interconnectivity with confidence.*

**Alexander Köhler, CISSP, UL**

# Marketing Claim Verification



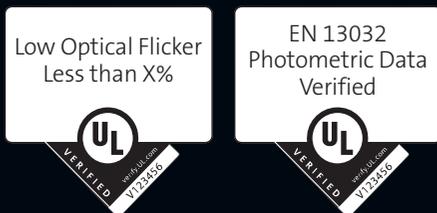
## Add credibility to your claims with the UL Verified Mark

In today's highly connected, transparent marketplace, verification of marketing claims plays an increasingly crucial role in the decision-making process of buyers and consumers. We help brands and manufacturers get an advantage over the competition and give buyers the assurance they need by bringing credibility to sellers' claims.

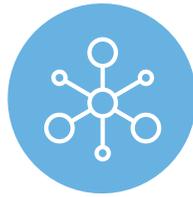
Our science-based, customized process verifies the accuracy of marketing claims related to the performance, functionality or features of products, facilities, processes and systems.

**Verify.UL.com**

Examples of customized verification marks for lighting applications.



# Databases



## Go.UL.com

Search and find product regulations to access global markets

Get current, comprehensive and expertly interpreted regulations for countries around the world with our premium-subscription database.

UL Go allows you to make side-by-side country comparisons, maintain a customizable workspace for your company, receive alerts about changes in market regulations and more — so you can plan your go-to-market strategy more efficiently.

## My.UL.com

Your UL project management platform

MyUL is a secure source for UL project files, product information, documents and services needed to make informed, data-driven decisions. With MyUL you can:

Gain full visibility into quotes, orders and projects.

See when UL received product samples and when they have been returned, picked up, destroyed or archived.

View UL reports, procedures and global certifications.

Identify the companies responsible for your products.

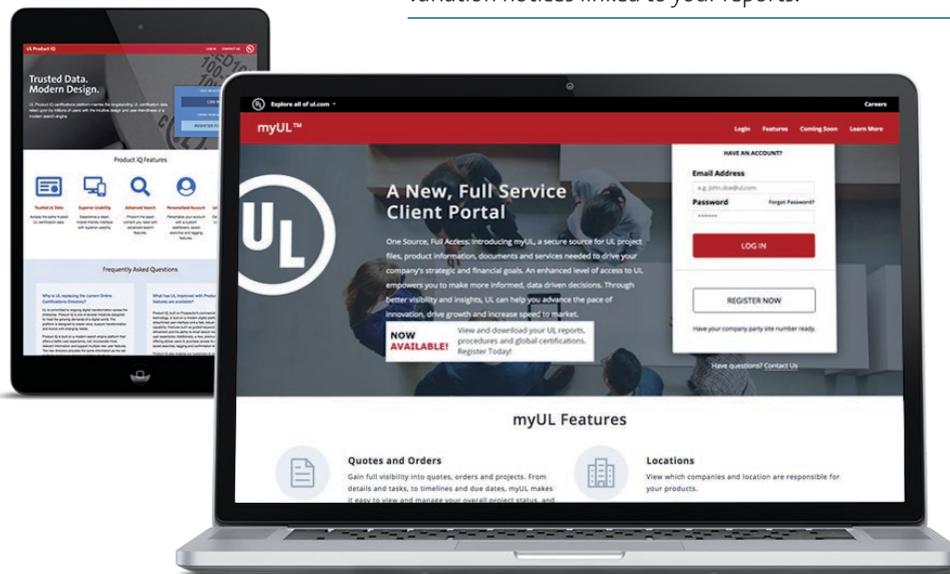
View the date, factory representative, type of product inspected, type of business, inspection center and any variation notices linked to your reports.

## ProductIQ.UL.com

Promote or locate UL certified products

UL Product iQ™ certifications platform (formerly the UL Online Certifications Directory) contains UL Listed, Classified or Recognized products and components.

This state-of-the-art search engine creates premium value for users by helping them both identify safer, more compliant products and also promote their UL certified products to potential buyers. Product iQ™ is considered an invaluable resource by thousands of regulatory authorities, building owners and insurance companies.



*We are investing in digital transformation across the enterprise to increase the value and relevance we offer to customers and industries.*

Steven Wong, Sales Manager,  
UL's Lighting division in Europe



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[UL.com/Lighting](http://UL.com/Lighting)

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