Making trusted connections in the lighting industry Global lighting solutions

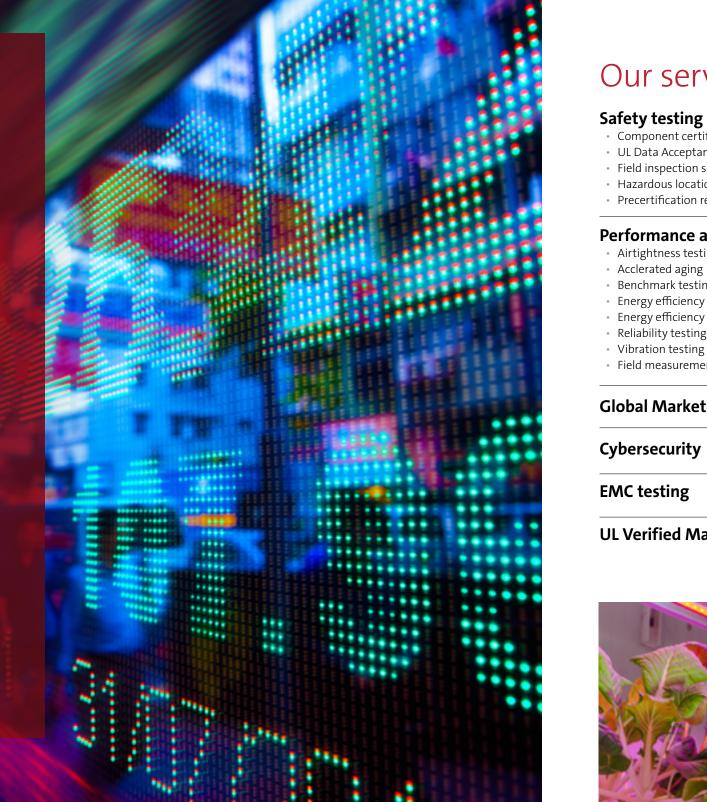
UL.com/lighting



Facilitating market readiness through responsiveness, expertise, and integrity.

UL works closely with the entire lighting supply chain providing solutions for designers, manufacturers, government agencies, regulatory authorities, showrooms, consumers and more.





Our services

- Component certification
- UL Data Acceptance Program (DAP)
- Field inspection service
- Hazardous location certifications
- Precertification review

Performance and energy efficiency

- Airtightness testing
- Acclerated aging
- Benchmark testing
- Energy efficiency certification
- Energy efficiency testing
- Reliability testing
- Vibration testing
- Field measurement services

Global Market Access

UL Verified Mark

Product categories

Residential and consumer lighting

- Indoor and decorative
- Outdoor and landscape
- Portable luminaires
- Seasonal

Commercial and professional lighting

- Office and industry
- Retail and hospitality
- Hazardous location luminaires
- Horticultural and agricultural
- Stage and studio lighting
- Electric signs and retrofit kits
- Healthcare lighting
- Emergency lighting

Infrastructure lighting

- Roadway and area lighting
- Pole mounted luminaires
- Tunnel and bridge lighting

Transportation lighting

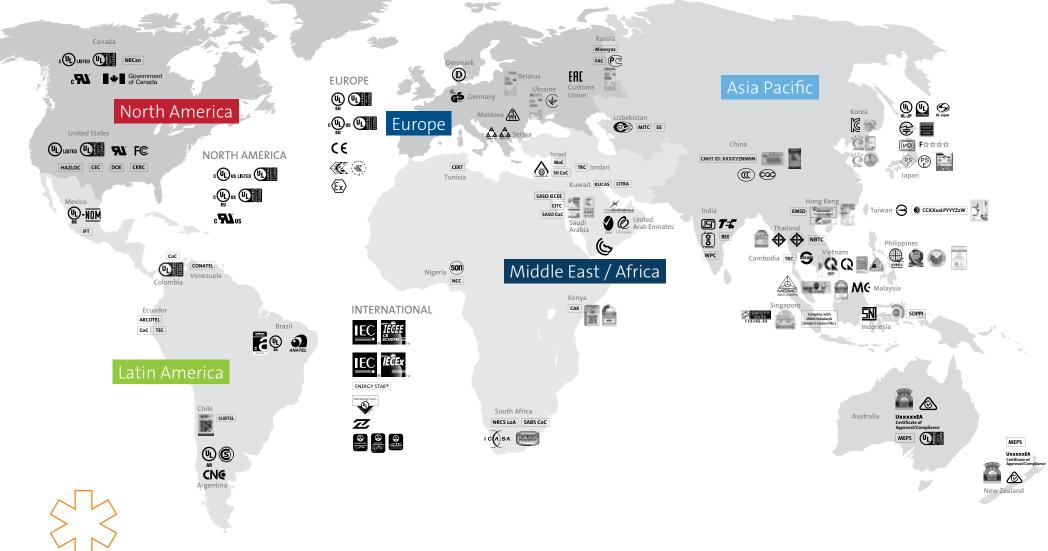
Automotive headlamps and luminaires

UL's services help companies:









Safety testing on a global scale

Fully equipped laboratories for electrical safety testing intended to obtain access to the global market.

Navigating the regulatory landscape of global markets is a complex and challenging task. By collaborating with UL to handle your global market access needs, you can tap into UL's experts and facilities throughout the world.

Market	Certification/Mark
North America	cULus
Europe	ENEC15
IECEE	CB scheme*
China	ССС
Mexico	NOM
Korea	KC Mark

Market	Certification/Mark
lapan	PSE
Australia/ New Zealand	CoA- CoS/ RCM mark
ndia	BIS CRS
Brazil	INMETRO
Saudi Arabia	SASO CoC



The growing emphasis on sustainability means you need to meet demanding efficiency benchmarks in order to bring products to the global mark

requirements in your target markets. Our global team actively participates in standards development and can help keep you ahead of the curve on new

UL is accredited to test the following energy efficiency programs:

- California Energy Commission (CEC) Title 20, 24
- Department of Energy (DOE)



Energy efficiency

- ENEC Plus (ENEC+) scheme
- European Energy Efficiency (ErP)
- Other global energy efficiency programs



Our performance tests help you demonstrate compliance with industry, national and international standards by using data from an objective, independent source.

Our capabilities include:

- Corrosion and Salt Fog

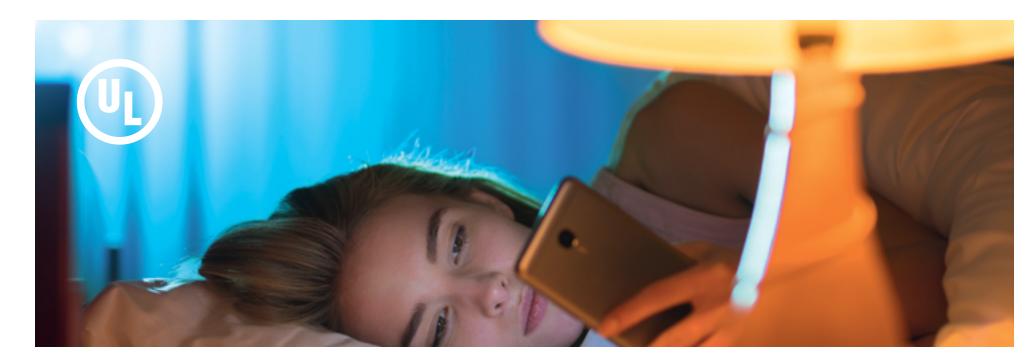
- Flicker Testing

- Photometry (IESNA, EN, UNI)

- Thermal Shock







Empowering customers through product security labeling

The Internet of Things (IoT) has given rise to a whole new generation of connected products – wearables, security cameras, speakers, cars and even toasters that can talk to each other and are network-connectable. As more smart features and connections are added, the security of such systems is often only as strong as its weakest link.

Our IoT Security Rating is the world's first security verification and labeling solution for consumer IoT products. The goal is to make security transparent and accessible, while supporting consumers in making conscious purchasing decisions. The IoT Security Rating offers manufacturers and distributors a means to demonstrate IoT security for compliance and differentiation in the marketplace via a UL Verified Mark security label. The IoT Security Rating features five security levels, ranging from minimum baseline to more comprehensive security capabilities.



EMC

Testing of electromagnetic compatibility of drivers and luminaires

Electromagnetic compatibility (EMC) testing analyzes 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:

- Electromagnetic Compatibility (EMC) Directive or applicable EN standards
- U.S. Federal Communications Commission
- Innovation, Science and Economic Development (ISED) Canada



UL Verify

Inform your purchase decision with confidence

Claim language

goes here.

The marketplace is filled with millions of brands and a barrage of choices, making it nearly impossible to distinguish fact from fiction. UL Marketing Claim Verification and the UL Verified Mark deliver the confidence to know that a brand's marketing claim is accurate, truthful and credible.

We verify that the marketing claims made by a brand about their products, processes, systems or facilities are credible - helping buyers make smarter, more informed purchasing decisions.

- Distinctive and credible proof of marketing claim
- Differentiated program and claim language
- Competitive and tangible UL Verified Marks.

IoT Security Rating

Upon completing a security assessment, the evaluated product is awarded the achieved security level —Bronze, Silver, Gold, Platinum, or Diamond—which is displayed through the UL Verified Mark.

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
- Evaluation and risk assessment
- Testing security criteria based on IEC 62443 and ANSI/CAN/UL 2900, the Standard for Software Cybersecurity for Network-Connectable Products
- Certification based on applicable cybersecurity standards



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For Performance / Energy Efficiency Testing inquiries, please contact:

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