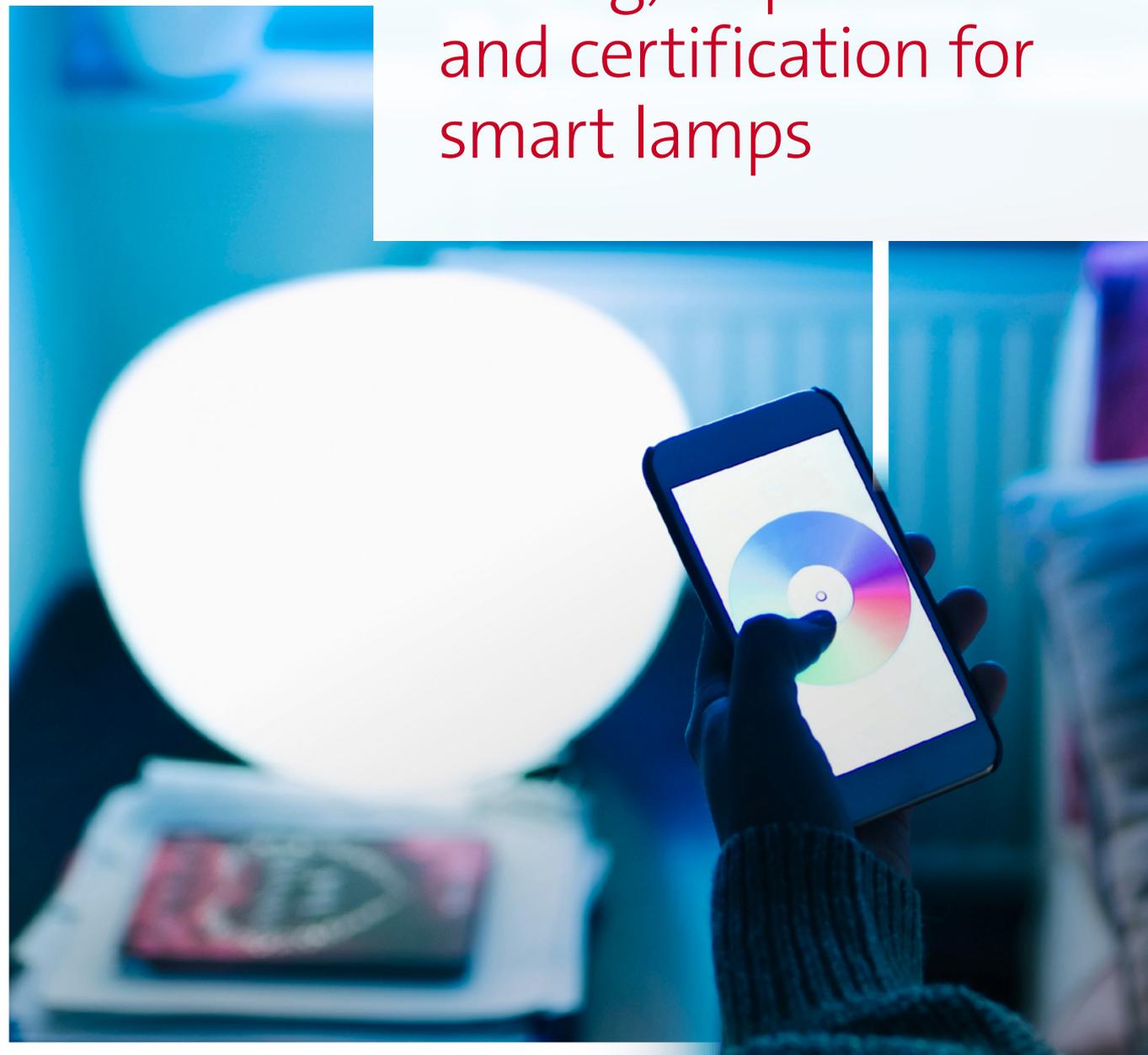


Total solutions for
testing, inspection
and certification for
smart lamps





Why UL Solutions for smart lighting?

UL Solutions has built a reputation on advancing safety science. As a global safety science leader, UL Solutions lighting group will keep you up to date with the rapidly changing smart lighting industry. Addressing the importance of complying with applicable standards and interoperability early on helps facilitate a successful market launch.

We help customers by offering smart lamp single-source solutions, including:

- Verification
- Testing and certification
- Inspection
- Advisory services
- Regulation training
- Sustainability training

Trustworthy – As a trusted testing partner in the lighting category throughout the world, we serve as thought leaders on emerging technologies as the industry looks for solutions to address emerging product categories. Our experienced engineers work directly with our customers for local engineering support with global reach.

Knowledgeable – UL Solutions has long-standing relationships with the people interested in connected lighting solutions for smart buildings and cities, including the design and construction community, regulatory authorities and industry technical leaders.

Easy experience – UL Solutions offers testing, certification, verification and advisory services. As a single-source provider for building management and ownership teams, we can meet complex customer requirements for testing procedures and to help solve your challenges. We work closely with you from the start, delivering qualified analyses for each product.

UL Solutions services

With UL Solutions laboratories worldwide, we can run our multiple tests through our services based on your testing needs, giving you more flexibility and a single supplier contact that can consolidate testing for lower costs, faster turnaround time and added convenience.

Services	Standards and programs	Turnaround time (in weeks)
Safety	UL 1993, the Standard for Self-Ballasted Lamps and Lamp Adapters	3-4
Energy efficiency	DesignLights Consortium® (DLC) Energy Star®	3-4 1-2
Cybersecurity	MCV 1376 ETSI EN 303 645	4-6
Connectivity	Zigbee® Wi-Fi Bluetooth®/ Thread Matter	4-6 2-3 3-5 Q4 2022
U.S. Federal Communications Commission (FCC)	FCC ID+SDOC	2-3
Material	California Proposition 65	1-2
Human-centric lighting (HCL)	Performance measurement	4-6
Retailer inspection programs	Based on project	Based on project

UL Solutions services that support smart lighting needs



UL Solutions services

Safety testing to UL 1993, the Standard for Self-Ballasted Lamps and Lamp Adapters, and other international certifications help you prepare to enter the U.S. market, where UL Solutions is the most recognized lighting certifier.



Energy efficiency

Our energy efficiency testing services can confirm your compliance with current energy efficiency requirements in your target markets. We test lighting products for energy efficiency programs like the DesignLights Consortium (DLC), Energy Star, and many other international energy efficiency programs, evolving regulations and industry standards.



Cybersecurity

Our IoT Security Rating sets benchmarks for security in connected devices. Through its five levels, UL Solutions security experts can assess critical security aspects of lighting products and help manufacturers to improve and demonstrate the security level of their solutions in the marketplace. Our strategy aligns with principal global cybersecurity standards and frameworks, including the European standard ETSI 303 645 and DLC cybersecurity requirement.



Connectivity

As more lighting systems incorporate wireless technologies, testing that assesses products' real-life performance and functionality has become more complex. We can help you stay ahead of continually evolving regulations to keep pace with rapid technological advances with testing on wireless protocols including Wi-Fi, Zigbee, Bluetooth, Thread and Matter, a new standard coming to the market.



Materials testing

Manufacturers and retailers that sell in California need to perform due diligence to determine whether products — including lighting — require Proposition 65 (CA65) labeling. We have the expertise and capabilities to offer complete assessment, evaluation and testing services. Testing and evaluation through a trusted third party help demonstrate that you provide safe and sustainable products.



Federal Communications Commission (FCC) requirements

Products that FCC regulations cover include various consumer technology devices, industrial devices and wireless devices with Bluetooth, Wi-Fi, Zigbee and/or cellular connectivity. Manufacturers of these products must achieve FCC certification to export into the U.S. We can help with testing and offers guidance on meeting FCC requirements.



Human-centric lighting

We recognize that beyond utility, the future of lighting depends on its impact on human health and well-being. Our recent publication of DG 24480, Design Guideline for Promoting Circadian Entrainment with Light for Day-Active People, offers potential baseline performance goals for indoor lighting specifiers and building owners to consider when seeking circadian entrainment in addition to quality illumination.



Retailer inspection programs

Our deep expertise in retailer efficiency, supply chain, quality assurance and brand protection enables us to see your organization as a whole, helping you create and enact more efficient, comprehensive and effective processes across your business.



Future programs

In step with future technology, UL Solutions operates at the cutting edge of many new developments. Our experienced engineers can help find solutions for your new and existing challenges.

With lighting laboratories in the Chinese cities of Shanghai, Suzhou, Guangzhou and other regional locations, UL Solutions can provide local engineering support.

Contact us to begin a quote or learn more about combining our services for a customized bundle to meet your smart lighting needs.

**For more information,
visit us at [UL.com/lighting](https://www.ul.com/lighting) or contact us:**

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