

India Lighting Capabilities – Testing, Inspection and Certification

Building trust in the marketplace

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

Our test facilities located in Gurugram, India, are accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL). We help global manufacturers and brand owners with the necessary testing for India market access to obtain necessary registrations within short turnaround time.

The products are tested for safety according to the applicable Bureau of Indian Standards (BIS) standard. Overseas manufacturers are required to have a local representative in India who will represent the manufacturer locally and will be responsible for placing the product in the market.

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CRS scheme

In 2012, the Compulsory Registration Scheme (CRS) was introduced by the Department of Electronics and Information Technology (DeitY) — now called Ministry of Electronics and Information Technology (MeitY) — along with BIS.

Since the program mandates in-country testing, several local and international labs are recognized by BIS for testing different products covered under this program. We have a dedicated test facility in India at Gurugram that is accredited by BIS. We offer testing for almost all the products covered under compulsory registration scheme according to the BIS Act. In addition, our global teams can help manufacturers achieve compliance by helping to:

1. Identify applicable testing requirements for specific product or technology feature to comply with current regulations for the mandatory registration scheme.
2. Handle the entire testing process as required in CRS.
3. Formulate a series for different products according to series guidelines.
4. Provide periodic updates on the CRS to the customers.

Under this scheme, manufacturers must register their products before launching them into the marketplace. To make this program robust, market surveillance has been designed to ensure compliance. MeitY's authorized representatives will pick the product from the market and send it to designated laboratory for testing and verification.



Our highly trained staff and state-of-the-art laboratories provide the services our customers demand for the Asian markets. As we continue to add programs, our industry leading laboratories are accredited to offer the following services:

Safety Testing for India under BIS Compulsory Registration Scheme (CRS)

Product categories	Indian Standard number (IS No.)
Self-Ballasted LED Lamps for General Lighting Services	IS 16102(Part 1):2012
DC OR AC Supplied Electronic Controlgear for LED Modules	IS 15885(Part 2/Sec 13):2012
Fixed General-Purpose LED Luminaires	IS 10322(Part 5/Sec 1):2012*
Recessed LED Luminaires	IS 10322 (Part 5/Section 2) : 2012
LED Luminaires for Road and Street lighting	IS 10322 (Part 5/Section 3) : 2012
LED Flood Lights	IS 10322 (Part 5/Section 5) : 2013
LED Hand lamps	IS 10322 (Part 5/Section 6) : 2013
LED Lighting Chains	IS 10322 (Part 5/Section 7) : 2013
LED Luminaires for Emergency Lighting	IS 10322 (Part 5/Section 8) : 2013
Standalone LED Modules for General Lighting	IS 16103: Part 1: 2012*
Rope Lights	IS 10322: Part 5 Section 9 :2017*

Performance solutions

- Claims validation
- Competitive benchmarking
- Design verification
- Electrical
- Environmental
- Ingress protection/Impact protection (IP/IK) Testing
- Lifetime
- Mechanical
- R&D Testing
- Reliability

Testing capabilities and equipment to expand India market reach

- Photometry
- LM79-08 & IS 16106 : 2012 Electrical and photometric measurements of solid state lighting
- In-situ testing
- Lifetime and lumen maintenance (LED lamp testing according to BEE Schedule 20 (IS 16102 Part 2)
- Luminance
- Angular uniformity of color
- Solar Streetlight/Home light System Testing: System testing according to Indian regulations and customized testing as per Demand Driver
- Smart lighting testing
- EMI/EMC testing: IEC 61000-4-5 Surge test up to 6KV and CISPR 15
- Astronomical timer accuracy energy data acquisition real time online monitoring system fault detection alarm function
- Dimming function
- AIP Testing: Ingress protection testing up to IP68
- Ballast testing

Our photometric laboratories are equipped with cutting-edge equipment and instrumentation:

- Goniophotometers
- Integrating spheres (0.5m to 3m)
- Life cycle stations
- Environmental chambers

For more information, visit www.UL.com/lighting or write to UL.Indiamarketing@ul.com



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