



ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION



**INDIA'S NEW SPOTLIGHT
FOR LIGHTING TESTING**

Electrical Research and Development Association (ERDA) is a not for profit organization of India involved in Testing, Calibration, Evaluation and Research & Development. ERDA was established in 1974 by the Indian Electrical Industries & Utilities with the support of State & Central Government of India. In order to meet the challenges of sustainability and growth in power sector and to meet the expectations from manufacturing industries as well as power utilities, ERDA has re-organized itself under three verticals namely Testing and Evaluation, Field Services, R&D and Expert Services.

ERDA is having state-of-the-art Type 'C' Goniophotometer in its photometry testing laboratory along with facilities like EMI/EMC & IP testing laboratory for testing of LED control gear and LED lighting products like LED lamp, LED indoor and outdoor luminaire, LED street light luminaire, LED flood light.

KEY TEST CAPABILITIES AT GLANCE

- Type 'C' Goniophotometry facility traceable to METAS, Switzerland for photometry testing of LED lighting products (weight capacity upto 50kg, test distance with EUT >25.5m, maximum size of EUT is upto 1.2m)
- Integrating sphere photometry facility traceable to NIST, USA for photometry testing of LED lighting products
- Reliability and life testing facility of LED lamps & LED luminaires
- Asia's largest IP test facility up to IP 68 for luminaires fittings / enclosures testing
- Thermal cage for safety testing of endurance and thermal test of lighting products
- Safety testing facility of LED lamps, LED luminaire & LED control gears under BIS compulsory registration scheme
- Optical calibration facility for all types of lamps for measurement parameters of lumens, CCT, CRI & chromaticity coordinates
- Performance test facility for solar lighting system as per MNRE specifications
- Solar sun simulator class AAA traceable to NREL, USA for I-V characteristics measurement of solar panels (PV module) testing of size 2m x 1m and up to 400Wp
- Environmental chamber with size of 2m x 1m x 1m, range for temperature - 40°C to 130°C, humidity 20% to 95%, weight capacity 100kg (maximum)
- State-of-the-art 10 meter semi anechoic chamber for EMI/EMC testing having shielding effectiveness from 10kHz to 40GHz & turn table capacity up to 3 Ton for testing as per various IS/IEC/MIL-461E/F standards



Integrating Sphere



IP Test Facility with Payload Capacity of 40 MT



Solar Sun Simulator

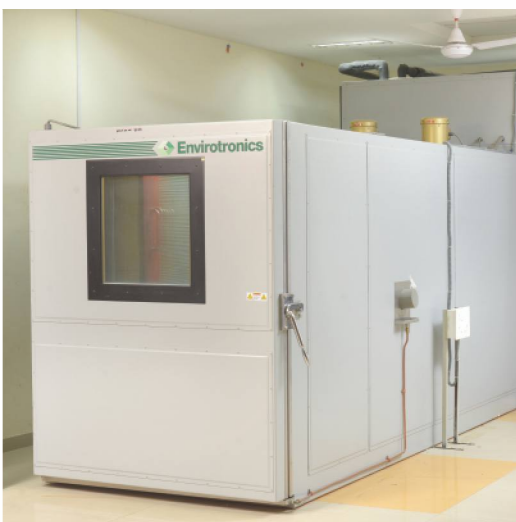
PRODUCTS EVALUATED

- LED Lamps
- LED Luminaire
- LED Modules
- AC/DC LED Control Gears
- CFL, TFL & HPSV Lamps
- AC Supplied Electronic Ballast for TFL
- Fixed General Purpose Luminaires
- Recessed Luminaire
- Road & Street Light Luminaire
- Portable General Purpose Luminaire
- Flood Light Luminaire
- Solar PV Module
- Solar Lantern
- Solar Home Lighting System
- Solar Street Lighting System

ACCREDITATIONS & RECOGNITIONS



Certificate No: TC-5389



Environmental Chamber



10M Semi Anechoic Chamber



Life Test Setup of LED Lamp



ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

web: www.erda.org | **Email:** bd@erda.org

Head Office:

ERDA Road, GIDC, Makarpura,
Vadodara - 390 010, Gujarat.
Tel: +91-265-2642942, 2642377, 3043129-31, 3043133
Fax: +91-265-2638382 | Email: erda@erda.org
Toll Free No: 1800 233 2668

ERDA (North) Laboratory:

CBIP Centre of Excellence,
Plot No: 21, Sector 32, Gurgaon - 122 001, Haryana.
M: +91-9999320346 | Tel: +91-124 2580021
Email: erdadel@erda.org

Registered Office & ERDA (West) Laboratory:

R-336, TTC Industrial Area,
Near Rabale Railway Station,
Navi Mumbai - 400 701, Maharashtra.
M: +91-9820719041 | Tel: +91-22-27606212-14
Email: erdarab@erda.org

ERDA (South) Laboratory:

Plot No: 57A, Auto Nagar, AP Industrial Infrastructure Corp.,
Rajahmundry - 533 106, Andhra Pradesh.
M: +91-9966947999
Email: erdarjm@erda.org