The Lighting Association Laboratories

EST's LED Product Performance Evaluation

Introduction

The Energy Saving Trust have issued their documents for LED based lamps and Luminaires.

- LED Requirements for Replacement Lamps and Modules
- LED Requirements for Luminaires

Whilst the Energy Saving Trust is the body responsible for the issue of the mark, the Lighting Association Laboratory can provide the necessary independent test report in order to gain qualification.

The Carbon Emissions Reduction Target (CERT) (2008 – 2011) is the third three-year phase of a domestic energy supplier obligation and obligates all domestic energy suppliers to make savings in the amount of CO2 emitted by householders.

Once "Energy Saving Recommended" status is achieved then there is a possibility for your products to be supported by the domestic energy suppliers.

Because EST Approval requires independent test evaluation for both performance and reliability it is considered to represent a significant quality statement about successfully approved products.

General Requirements

Once you download the full requirement documents you will recognise they are comprehensive and whilst it is impossible to reproduce all the elements in this fact sheet the key elements are:

- Manufacturer must be either ISO9000 or LA COP Registered
- Products must meet the required light output and colour quality criteria
- Products must meet the required reliability criteria
- Provisional approval is possible after initial 2000 hr life is proven

Contact Details :

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EST's LED Product Performance Evaluation - Continued

LED Requirements for Replacement Lamps and Modules

The essence of these requirements is to ensure that when a LED Lamp replaces a conventional lamp the associated performance is truly comparable. There are tables within the EST requirements which advise the requirements for various lamp types e.g. GU10 and MR16 styles with different requirements for different wattage lamps. The LA Labs assesses against the requirements for various measures including

- Total Light Output
- Directional Light Output and Beam angles
- Electrical Characteristics including power and power factor
- CCT and Ra
- Conformation of reliability

LED Requirements for Luminaires

The requirements for luminaires is similar to the lamp requirements. However because there are many different categories of luminaire there are various classifications under which your product might fit.

What Happens Next - Project Quotations

The LA Lab can quote for :

- All necessary independent verification work and the production of the necessary report.

Once you have a successful 2000 hr provisional report an application can be made to the EST for Energy Saving Recommended Status

If you are interested in learning more, then **email us with a description of your product** and we can provide a quotation.

The Lighting Association Laboratory (LAL) is a UK Notified Body and is accredited in accordance with ISO 17025 via UKAS. The LAL is an international test facility with CBTL status. Our specialist subject is lighting and associated products. Our services are available to any client; you don't have to be a LA Member. Our goal is to provide a one stop solution for any test and certification requirement for lighting products.

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