Complying with Europe's new Single Lighting Regulation and Energy Labeling

Guidelines for Lighting and Appliances Manufacturers

Manufacturers and producers of appliances with light sources selling into Europe need to comply with the new Single Lighting Regulation (SLR)

Ecodesign requirements (EU) 2019/2020
Published in late 2019, **the new regulation introduced the terms "light sources" and "containing products" which replace the commonly and widely used terms of "lamps" and "luminaires" in the landscape of European regulations.** Light sources, by definition, need to comply with this new regulation and the market surveillance needs to be informed how to remove the light source without damaging it from the containing product.

In order to promote circular economy aspects, a technical reason why the light source cannot be replaced must exist. At the same time, when the light source is not removable from the containing product, the whole product becomes a light source and needs to comply.

So, for example, luminaires without a removable LED module become a light source, and if a glass shelf in a refrigerator comes along with a nonremovable LED unit, the shelf itself will be considered a light source.

Separate control gears
At the same time, the regulation formulates additional requirements for the supply which is needed to operate the light source.

Our experts can support analyzing the end product to identify if it should be classified as a light source, containing product or separate control gear.

We offer all required tests, and can customize a testing plan if you require only a subset of tests.

For separate control gears
- No-load, standby, network standby power

For light sources
- Color rendering
- Displacement factor
- Lumen maintenance factor according to EN 62771-2-1
- In accordance with EN 13032-4
  - Survival factor
  - Color consistency
- Flicker in accordance with IEC TR 61547-1
- Stroboscopic effect in accordance with IEC TR 63158
- Useful luminous flux
- Correlated color temperature

Additionally, we can advise you regarding the information that must accompany the technical documentation or be visible on the packaging or on a free-access website of the manufacturer, importer or authorized representative.
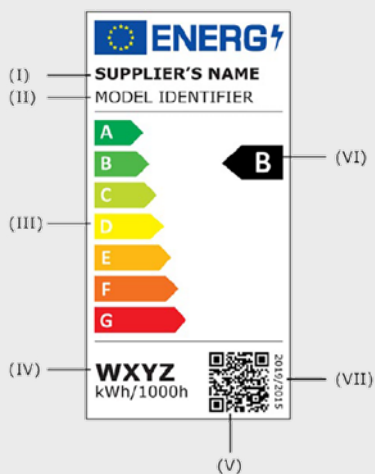

UL Solutions

Energy Labeling – a requirement for light sources

Energy Labeling for Light Sources (EU) 2019/2015

Also published in late 2019, new energy labeling requirements went into effect.

With our European Energy Lighting Regulation compliance service, we provide you with all the required data to fill the European Product Registry for Energy Labeling (EPREL) database on May 1, 2021.

The new energy label for the light source showing the rescaled efficiency classes A to G instead of A++ to E can be generated from the EPREL2-database. This needs to be done before you market your product.

Even if the energy label is no longer required for a containing product, your appliance might have become a light source.

Why UL Solutions

From safety testing and certification to performance testing, Global Market Access, sustainability and beyond, we have the right lighting knowledge you can trust to be your single-source provider.

Global Market Access (GMA)
As the most recognized lighting certifier in the U.S. and an issuer of IECEE CB Certificates across all industries in the world, we help your customers identify high-quality products and provides an important differentiator in a crowded market. Our experts can help streamline your acceptance into the global market and keep you up to date on the latest in IEC, ENEC Scheme, NOM, SASO and other major market requirements where you intend to export your products.

Electromagnetic Compatibility (EMC) – wireless services
As more lighting systems incorporate wireless technologies such as Bluetooth®, Wi-Fi and cellular connectivity, testing that assesses the real-life performance and connectivity of products has become more complex. Let us help you keep ahead of the regulations that are continually evolving to keep pace with rapid advances in technology. We are an approved testing laboratory for many Internet of Things (IoT) and wireless standards bodies, such as Bluetooth SIG, Thread Group, Wireless and Zigbee Alliance, and are actively engaged with key players in 5G.

Cybersecurity
As more smart features, communications protocols and connections are added to connected systems, risks and complexities increase. We have IoT Security Ratings based on emerging industry consensus to evaluate your products and set benchmarks for baseline security.

International Safe Transit Association (ISTA) packaging
We offer packaging tests to assess the security and integrity of goods during transport, so retailers and manufacturers can feel confident that packaging is up to the job. Package testing can provide tremendous value downstream, including cost savings and potential reductions in product loss due to breakage and damage during shipping.

Sustainability
We can help you establish a sustainability strategy, validate your achievements and communicate your progress to the market. From zero waste to landfill, greener product framework, carbon footprint and more, we have claim validations that can help set you apart.

For more information on the upcoming changes to lighting standards, visit us at UL.com/appliances or contact our team:

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