

Ecodesign and EPREL for lighting products

- Applies to practically all new white lighting products in the European Union
- Suppliers are responsible for product compliance
- Suppliers are responsible for making information available in the EPREL database
- **Viso software produces ready-to-upload EPREL data**

A short introduction

Rules on Ecodesign for lighting products are mandatory for all manufacturers and importers wishing to sell their products in the EU. Consumers can find detailed energy and quality information about energy labelled products and models in EPREL via QR codes on the products.

The term “Suppliers” means manufacturers, importers or authorised representatives established in the EU and EEA

As of 1 January 2019, European-based suppliers must register their products (required to have an EU energy label) in the European Product Registry for Energy Labelling (EPREL) before placing them on the EU market. In May 2022, the database was launched for public access and consultation.

Which lighting products are covered?

Energy labelling and ecodesign requirements apply to

- Light sources defined as electrically operated product intended to emit (or tuned to emit) visual white light, and with few exceptions this means that all light sources intended for general lighting are included.
- Separate control gears (e.g. ballasts, electronic components, drivers).
- Light sources and separate control gears placed in “a containing product”, meaning a luminaire.
- The application is irrelevant – the Ecodesign requirement apply to lighting products for both households and for professional use.

Requirements DO NOT apply to

- LED dies or LED chips
- LED packages, such as COBs with/without optics

- Luminaires where the light source can be taken out for separate verification – such as household luminaires with E27 lamp holder. If it cannot be taken out, the whole luminaire is defined as a “light source”.
- Specialised light sources, such as light sources for explosive atmospheres, emergency use, radiological and nuclear medicine installations, civil defence, motor vehicles, mobile, civil aviation aircraft, and railways.

Who must register lighting products in EPREL?

A product has to comply with the requirements for CE marking from the moment that it is ‘placed on the market’ and wherever it is installed or used. Suppliers must register products in the EPREL database so that consumers can access information easily.

Manufacturers are responsible for carrying out the Ecodesign conformity tests. Manufacturers established outside the EU need an importer established in an EU country to register their products.

- Importers shall only place compliant products on the market.
- Distributors shall make sure that the product is compliant.
- Dealers are responsible for making sure that the required information is accessible to consumers.
- Online marketplaces and search engines are required to collaborate with market surveillance authorities to ensure a more effective surveillance.

Article 2 of the Ecodesign Directive defines *placing on the market* as “making a product available for the first time on the Community market with a view to its distribution or use within the Community (...)” and *putting into service* as “the first use of a product for its intended purpose by an end-user in the Community”

What documentation is needed?

Lighting products need to conform with Ecodesign requirements, and the information in the EPREL database covers:

1. Energy classification and data (efficiency class, power and displacement factor)
2. Light quality data (CCT, CRI, flicker SVM/PstLM, beam angle, MacAdam Steps, etc.)
3. A spectral distribution image (250-800 nm)
4. Life expectancy data (lumen maintenance and survival factor)

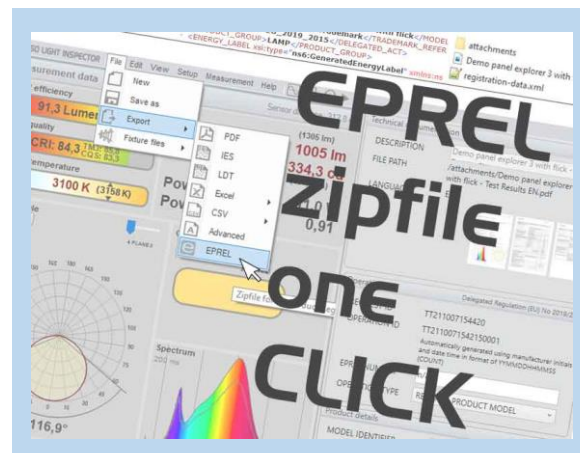
How can Viso Systems help?

Most of the documentation above (all except no. 4.) can be produced with Viso light measurement equipment. Consequently, Viso Systems has made it possible to export results directly to ready-to-upload zip-files.

Based on your light measurements, the Viso Light Inspector software calculates all required parameters, checks for compliance, and generates data and graphics. Fields are ready for entering life expectancy data and other specifications.

The system then generates zip-files that are **ready to upload directly to the EPREL database**. This is a unique Viso software feature. Find more information here:

<https://www.visosystems.com/eprel-data/>



Links

Ecodesign: From 1 September 2021: [Regulation for ecodesign requirements for light sources and separate control gears \(EU\) 2019/2020](#); **EPREL:** <http://data.europa.eu/eli/reg/2019/2020/2021-09-01>