

**OPPLE**  
LIGHTING.



# EU Ecodesign & Energy Label

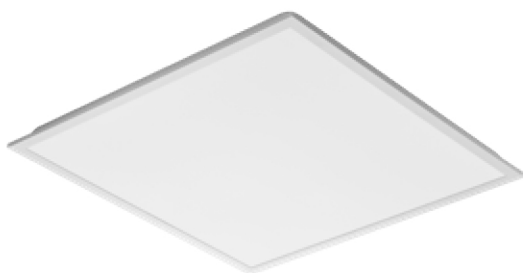
Regulations September 2021

The European Union has set new regulations for the lighting industry to comply with the general reduction of energy consumption in Europe. These new regulations will come in place on the 1st September 2021 and will lay down stricter requirements in relation to the ecodesign and energy labelling of lighting products. More particularly, the European Commission has published two new regulations concerning the Single Lighting Regulation (SLR) and the Energy Labeling Regulation (ELR). In addition to these requirements, all the light sources information will now be included in the European Product Registry for Energy Labelling (EPREL).

## New EU Ecodesign and Energy Label Regulations

Example:

### LED Slim Panel Basic G2



Calculated max  
allowed power  
consumption



34.74 W

≥

Actual  
power  
consumption



32 W

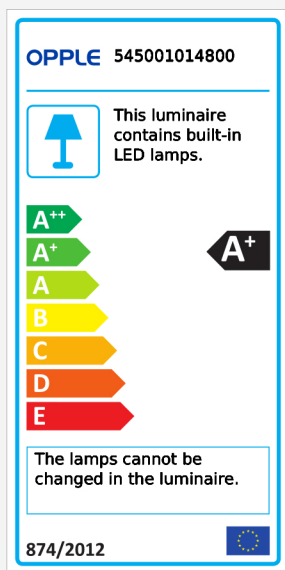


### Single Lighting Regulation (SLR) for energy efficiency

The SLR provides requirements for achieving better performance, and more sustainable lighting products. It is applied to all light sources and separate control gears, both, individually as well as within a containing product.<sup>1</sup>

The SLR has set new minimum energy efficiency standards that a product needs to achieve. This is determined by several factors, including but not limited to CRI, beam angle, and other constant and correctional factors. The functional requirements also include details on the quality of the product and the light emitted. In order to be compliant with the new regulations, the product power consumption must be lower than the calculated maximum allowed power consumption.<sup>2</sup>

From the of 1<sup>st</sup> September, all the sources of light that will not satisfy these conditions will have to be phased out. The majority of Oppla Lighting products are already conforming with these new requirements and from September 2021 OPPLA will certainly continue to ensure full compliance to the whole portfolio.

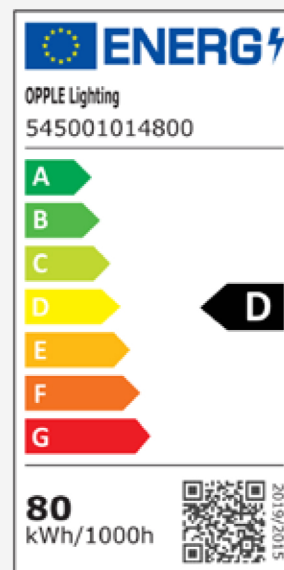


## OLD regulations

### Energy Label Regulation (ELR) for more transparency

The second part of the new energy regulations from the of 1st September is related to the Energy Labeling Regulation. This new set of rules is focusing on two main aspects.

1. The EU is adopting a new energy label that introduces an updated classification of the energy efficiency range. In connection with this regulation, new packaging guidelines have been determined.



## NEW regulations

2. Secondly, under the ELR all sources of light will be required to be added to the online European Product Registry for Energy Labelling (EPREL) database.

Aside from the new design, the energy labels will now show a revised energy classification from A to G and a link to the EPREL database accessible via a QR code. The new classification is based on efficacy (lm/W) corrected by factors such as beam angles and electric operation.<sup>3</sup>

<sup>1</sup>The regulation defines a light source as anything that emits light, including lamps, modules, and even certain containing products. A containing product that includes one or more light sources, separate control gears, or both are referred to as a containing product.

<sup>2</sup>The calculated power consumption is determined by calculating several technical specifications of the product (i.e. Correction Factor, End loss factor, Useful luminous flux, Efficacy factor based on its directional or non-directional light source, Threshold efficacy and CRI factor).

<sup>3</sup> $\eta_{TM} = (\Phi_{use}/P_{on}) \times FTM$  (lm/W), in which  $\eta_{TM}$  stands for *Total mains efficacy*,  $\Phi_{use}$  represents the *Useful luminous flux*,  $P_{on}$  is the *Declared on mode power consumption*, FTM stands for *Total mains factor*, lm and W is the *lumen* and *Watt* value.



The requirements were adopted not only to eliminate energy-inefficient products, but also to create transparency for users and, incentivise future technological developments for more sustainable lighting products.

All relevant data concerning the lighting products will be collected with the new EPREL product database. The product information included in the database will be accessible by searching for the item online or by scanning the QR code on the packaging of the product.

OPPLE ensures that all OPple products are available in EPREL database allowing everyone to freely access the product information online. All product information and additional specifications are also displayed on [opple.com](http://opple.com).

## Let's team OP!

### **OPPLE LIGHTING BV**

Meerenakkerweg 1-07  
5652 AR Eindhoven  
The Netherlands  
+31 (0)88 056 78 88  
[service@opple.com](mailto:service@opple.com)

### **CONTACT**

For any queries or additional information, please contact one of our account managers. All specifications are available in the Download Centre at [opple.com](http://opple.com)

All rights reserved.

**[OPPLE.COM](http://opple.com)**