



INFORMATION ABOUT THE NEW ENERGY LABEL FOR LIGHT SOURCES



#EnergyLabel

For a brighter future: Check the label before you buy.

energylabel.org.uk

INTRODUCTION

The energy label has supported consumers in the search and selection of energy efficient appliances for more than 25 years. It has driven the development of innovative, energy efficient products, dramatically reducing the energy consumption and running costs of appliances. As consumers became more environmentally aware, products started to be more energy efficient, occupying the top of the scale. The top categories had to be expanded by bringing in the '+' signs, making it more difficult for consumers to identify the most energy efficient models.

From the **1 October 2021** the new rescaled energy label will help you on

your quest for energy efficient light sources and will encourage manufacturers to develop even more energy efficient technologies in the future.

The rescaled energy label for light sources is very similar to the old energy label. The main difference is the energy scale, the overall design and an addition of a QR code, that links directly to further information about the product.

The new legal requirements for light sources apply from 1 October 2021. Read more at energylabel.org.uk.



TIPS FOR USING OR BUYING A LIGHT SOURCE

- 1 Make sure that the luminous flux (measured in lumen) suits your purpose. On the last page of this leaflet, you will find a table that converts Watts to Lumens.
- 2 Check the socket and the light sources dimensions to make sure that the light source fits your lamp.
- 3 If you are looking for a light source similar to an incandescent one, then choose one with a colour temperature of 2700-3000K. If you want a more neutral white light similar to daylight you can choose a light source with 3500-4000K.
- 4 Check your dimmer specifications before you buy a dimmable light source to ensure that the light source fits.

HOW TO READ THE PACKAGING?

On the light source packaging you can find a lot of useful information.*

Energy label

The light sources energy consumption in kWh per 1000 hours.

Watt

The on-mode power for the light source in W.

Luminous flux (lm)

Indicates how much light the light source emits. A high Lumen value means a more distinguished light.

Kelvin (K)

Is a colour temperature scale used to indicate how warm or cold the light output is perceived.

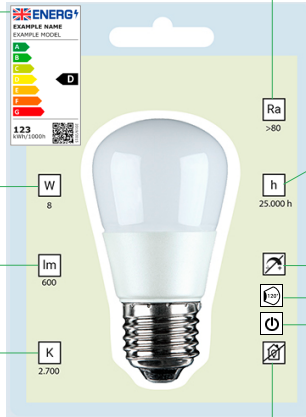
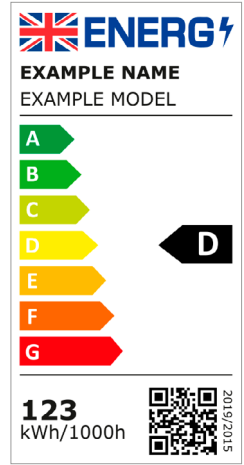
Ra-value

(Colour rendering index, CRI)

The Ra-value indicates the light source's ability to reproduce a lifelike colour. Daylight has a Ra-value of 100.

Outdoor use

Indicates if the light source is intended for outdoor use, this should be noted on the packaging.



Lifetime

Indicates the light source's lifetime in hours from the start of use till the light output has degraded to less than 70% of the original output.

Dimming

The dimming icon indicates whether the light source is dimmable or not.

Beam angle

The angle of the light output in degrees or the range of the light output angle.

Power supply

*Note that the manufacturer can either use either icons or text

SHIFTING FOCUS FROM WATT TO LUMEN

HALOGEN SPOT	LED 12 V	LED 230 V
20 watt	190 lm	110 lm
25 watt	–	150 lm
35 watt	350 lm	230 lm
50 watt	620 lm	350 lm
75 watt	–	580 lm

INCANDESCENT BULBS	LED	ENERGY SAVING BULBS
15 watt	140 lm	130 lm
25 watt	250 lm	230 lm
40 watt	470 lm	430 lm
60 watt	800 lm	740 lm
75 watt	1050 lm	970 lm



Light sources are subject to special disposal requirements.



Do not throw light sources in the bin. Retailers must provide a way for customers to dispose of their old household electrical and electronic equipment including light sources.

You can find further information about the rescaling of other products on www.energylabel.org.uk



This project is funded by the European Union

The Label 2020 project has received funding from the European Union's Horizon 2020 research and innovation program under Grant Agreement Number 847062. The sole responsibility for the content of this document lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EASME nor the European Commission are responsible for any use that may be made of the information contained therein.

**energy
saving
trust**