

SHIFTING FOCUS FROM WATT TO LUMEN

Below you can convert 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

HALOGENSPOT AND 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	1.050 lm	970 lm



At the end of life light sources are subject to special disposal requirements. Do not throw them in the bin according to Directive 2012/19/EU.

You can find further information about the rescaling of other products on www.label2020.eu/downloads



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LABEL
2020

INFORMATION ABOUT THE NEW ENERGY LABEL FOR LIGHT SOURCES



EU #EnergyLabel

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

www.label2020.eu

INTRODUCTION

For more than 20 years the energy label has supported and guided consumers in the search of energy efficient products. However, the current A+++ to D energy efficiency scheme has become less transparent. The European Commission and the Member States have therefore decided to revise the requirements for energy labelled products and rescale the energy efficiency scale from A to G for all product groups. The rescaling happens gradually and will initially include: Household refrigerators and freezers, washing machines, combined washer-dryers, light sources and televisions and electronic displays.

From the **1st of September 2021** the 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 the product registration in EPREL from where you can find further information about the product.

The new legal requirements for light sources apply from the 1st of September 2021. Read more on www.label2020.eu.

GOOD ADVICES WHEN REPLACING YOUR LIGHT SOURCES

- 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 Lumen.
- 2 Check the socket and the light sources dimensions to make sure that the light source fits your lamp.
- 3 If you require high colour rendering you should choose a light source with an Ra-index of at least 90.
- 4 Choose a light source with a colour temperature with 2.700-3.000 K if you are looking for a light source similar to an incandescent light source.
- 5 Check your dimmer specifications before you buy a dimmable light source to ensure that the light source fits.

If you want a more neutral white light similar to daylight you should choose a light source with 3.500-4.000 K.

HOW TO READ THE PACKAGING?

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

Energy label

The light sources energy consumption in kWh per 1.000 hours.

Watt

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

Luminous flux (lm)

Lumen indicates how much light the light source emanates hence the total amount of light coming from the light source. 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 emanated from the light source is perceived.

Ra-value

(Colour rendering index, CRI)

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

Lifetime

Indicates the light sources lifetime in hours from the start of use till the light output has degraded to less than 70% of the original luminous flux.

Dimming

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

Beam angle

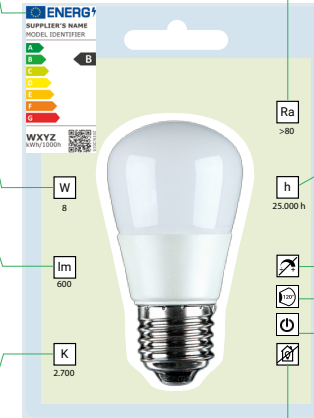
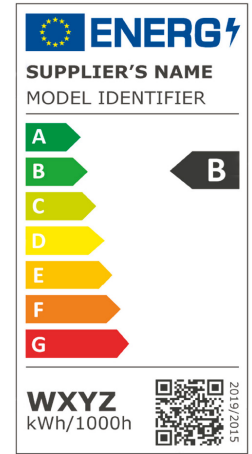
The beam angle in degrees or the range of the beam angle.

Power supply

The electrical interface details type of power supply.

Outdoor use

If the CRI < 80 and the light source is intended for outdoor use, this should be noted on the packaging.



*Note that the manufacturer can either use icons or text