

# LED LIGHTING GUIDE

– We will help you find the right light bulb!



**STAR**<sup>®</sup>  
TRADING



## THE RIGHT LIGHT SOURCE FOR YOUR NEEDS



### Decorative lighting

With this light bulb the most important thing is what it looks like not how it illuminates a room. This bulb gives off a pleasant warm and soft glow while simultaneously being beautiful to look at without being blinded.

30-200 lumen

1800-2700K



### Mood lighting

This bulb provides a weak glow and thus gives a special feeling to the room. If you want a warm glow, choose a bulb with fewer kelvins.

220-360 lumen

2200-2700K



### General lighting

This much light illuminates a room but can be complemented with decorative and mood lighting to create a pleasant room environment.

400-500 lumen

2700-3000K



### Work lighting

Directed bulbs that provide good lighting, for example at a desk or in a kitchen. If you need good colour rendering, select a bulb with a high Ra rating.

806-1520 lumen

3000-4000K

## CHOOSE LIGHT SOURCES FROM STAR TRADING

Our goal is to offer a complete range of LEDs for home use. We have them in all shapes - we have round bulbs, pear bulbs and normal bulbs. We have smart bulbs with built-in features, we have spotlights and attractive decorative bulbs.

Something all our bulbs have in common is that they provide a lot of light but not a lot of heat - in other words, they save energy! They turn on immediately, tolerate cold and they also have a very long-life span!

Choose LED for durable, functional and stylish lighting!

**Star Trading has one of the largest ranges of bulbs on the market - we will help you find the right one!**

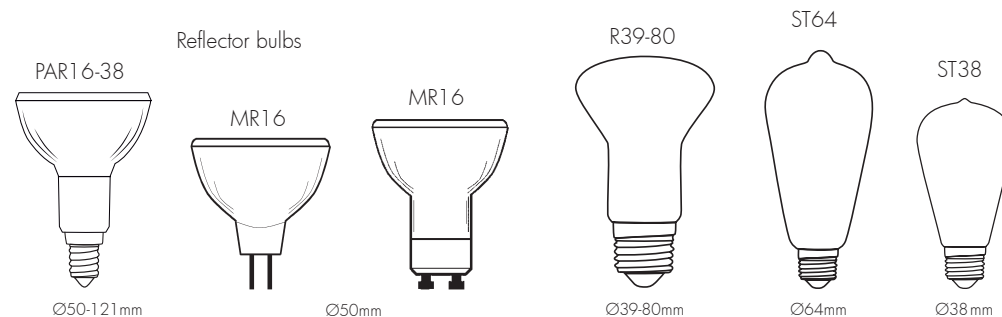
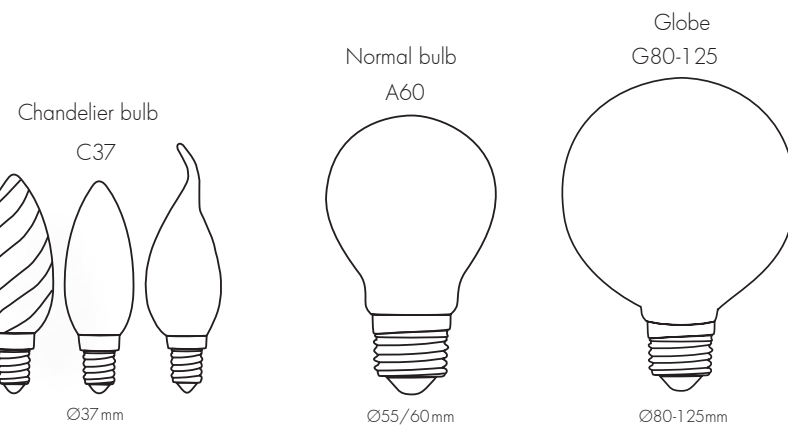
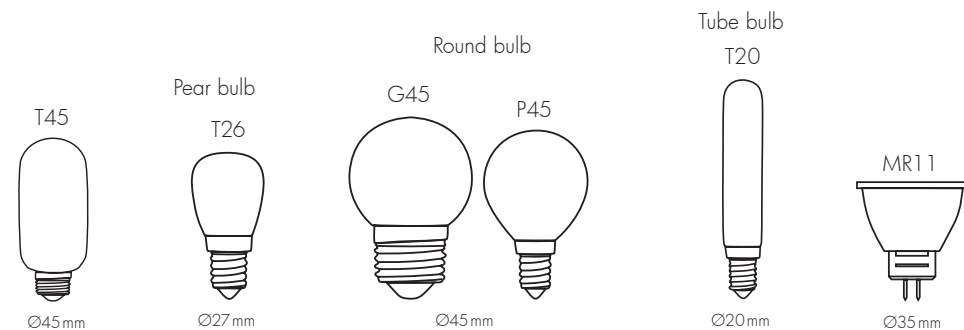


If you want to know more about lighting concepts, you can find more on the page. 20-211



## WHAT SHAPE SHOULD THE BULB HAVE?

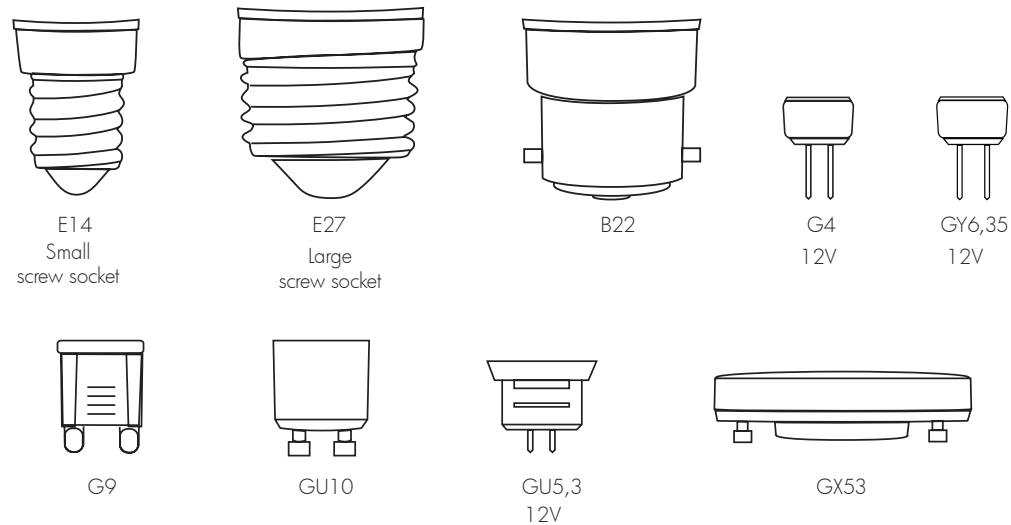
In many cases the shape is purely a matter of taste, but in some cases a specific shape is required so that the bulb will fit or so that a lampshade can be attached to the light. The height and width of the bulb are indicated on the packaging.



If you want to know more about lighting concepts, you can find more on the page. 20-21

## WHAT SOCKET SHOULD YOU HAVE?

Select the right socket for your light.



# CHOOSE FROM OUR DIFFERENT BULBS

## ILLUMINATION LED

...are bulbs for general lighting in all common household lights.

## SPOTLIGHT LED

...are directed bulbs for general lighting in common lights.

## DECORATION LED

...are decorative bulbs for various types of mood and decorative lighting.

## SMART LED

...are bulbs with built-in smart features to help ease everyday life.



## CLEAR FILAMENT 2100K - SOFT GLOW™

Our Soft Glow series are omnidirectional bulbs in clear glass - they have an extra warm white glow that provides warm and atmospheric lighting. The range includes bulbs from 30 lumens up to 720 lumens. Of course, there are both dimmable and non-dimmable bulbs to choose from.

● Decorative lighting ● Mood lighting

■ Decoration LED



## CLEAR FILAMENT 2700K

Clear filament are omnidirectional bulbs in clear glass. They are available in all the usual shapes and with light intensities ranging from 150 lumens up to 1000 lumens. The glow is warm white but still crisp and clean. For a true white light, there are also chandelier and round bulbs in natural white 4000K. There are both dimmable and non-dimmable bulbs, as well.

● General lighting ● Work lighting

■ Illumination LED



## FROSTED FILAMENT 2700K

Our frosted filament bulbs look just like old-fashioned bulbs since they have frosted glass. They are perfect in office lights and provide good omnidirectional illumination. The glow is soft warm white and the bulbs are available in all the usual shapes. These are also available as dimmable bulbs.

● General lighting

■ Illumination LED





## OPAQUE FILAMENT RA 90

Our opal filament bulbs are white and omnidirectional. All bulbs in this series have an Ra rating of 90, which means they provide almost perfect colour rendering. They provide a smooth and diffuse light that is perfect under a shade, but they are equally stylish in lights where the bulbs are visible.

● General lighting ● Work lighting

■ Illumination LED

## HALO LED

Halo Led is our series of G4/G9 bulbs. These bulbs are used in everything from bathroom lighting to new modern chandeliers.

We have a wide range of bulbs, ranging from warm white to more icy/crispy, cold light. In addition, we have many different shapes and sizes, to make it easy to find the right bulb for the right light!

● General lighting ● Work lighting

■ Illumination LED



## FUNCTIONAL BULBS

Bulbs with various technical features that simplify home lighting. For example, we have bulbs with light and motion sensors that turn on and turn off at the right moment.

We also have bulbs with a 3-stage dimmer - with a simple click on the power switch the bulb dims in 3 stages, perfect for where there are no regular dimmers.

 Mood lighting  General lighting  Work lighting  Illumination LED





## HOLIDAY & PARTY

Light up your life with our party chains! In our Holiday & Party series we have assembled both chains with accessories and bulbs that are perfect for creating a party or Christmas mood. In our large range there are opaque, clear and coloured bulbs - in glass or unbreakable with a polycarbonate cover.

● Decorative lighting ● Mood lighting

■ Decoration LED





## DECORATION BULBS

In our large selection of decorative bulbs there are many different stylish shapes and colours to choose from, ranging from very large "industrial vintage" bulbs, to beautiful opaque globes of various sizes.

● Decorative lighting
 ● Mood lighting

■ Decoration LED



## INTEGRA

Light and bulb in one! We have ceiling lights, bench lighting, striplights and more. All of which are available in various lumens and kelvins.

● General lighting ● Work lighting

■ Integra LED



## FULL GLASS SPOTLIGHT

The advantages of LED are tangible, you get an exact colour temperature, an accurate diffusion-angle and reduced energy costs. We have a large selection and a majority of our spotlights are dimmable.

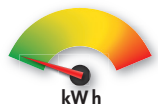
● General lighting ● Work lighting

■ Spotlight LED



## LIGHT CONCEPTS AND CHARACTERISTICS

Light output is measured in lumen, not Watt



### Watt (W)

Watt just measure the energy consumption and say nothing about how much light a bulb provides. A 40W bulb and a 6W LED bulb emit approximately the same amount of light but the LED bulb has significantly lower power consumption.

### Bulb strength

Previously, bulb strength was measured in watts but now it is measured in lumens. Lumen is the measurement that describes the luminous flux of a bulb. By stating the luminous flux in lumens you can compare the brightness of bulbs exactly. In the table you can see the luminous flux, how many lumens a bulb should have to get as much light as, for example, a 25-watt or 60-watt bulb provided.

LIGHT-BULB	LED BULB
15 watt	120-180 lumen
25 watt	220-250 lumen
40 watt	400-470 lumen
60 watt	806-840 lumen
75 watt	1050 lumen
100 watt	1500 lumen



### Lumen (lm)

Is the measurement unit for the total luminous flux from a bulb, i.e. the amount of light the bulb emits in all directions. Lumen is the most relevant measurement for omnidirectional bulbs but does not tell us how much energy a bulb uses.



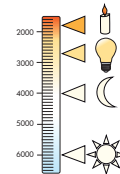
### Diffusion angle

Is usually indicated for directed bulbs (reflector bulbs) and tell us about the width of the beam. 30° to 40° is the most common but both narrower and wider are used for various applications.



### Colour rendering (Ra)

Is the measurement of how well the bulb renders the colours of illuminated objects. Ra 100 is the highest possible rating.



### Kelvin (K)

Indicates the colour of the bulb or "colour temperature". Lower degrees kelvin mean a warmer glow. Everything under 3000K is usually called warm-white. A incandesent light bulb has a colour temperature of approximately 2700K. Choose a warmer bulb for mood lighting and the evening and a cooler light for work and daytime.



### Candela (cd)

Measures bulb brightness in a given direction and is most relevant for directed bulbs. If two reflector bulbs have the same total amount of luminous flux in lumens, then the bulb with the lesser diffusion-angle will have the greater brightness in candela because it concentrates the luminous flux more.



startrading.com/dimmer

### Dimmer compatible

Compatible LED bulbs can be controlled with many common dimmers. For the best results you should always check that the bulb and dimmer are compatible. You can do this by using the current list at [www.startrading.com/dimmer](http://www.startrading.com/dimmer).



### 3-stage dimmer

Bulbs with a 3-stage dimmer function. Which are regulated by the number of clicks on the power switch.

# LED - LIGHTING IN TIME

## Save energy

LED bulbs are the most energy efficient option on the market for consumer lighting. Compared to incandescent light bulbs, LED bulbs with the same amount of light will save you up to 85% of the energy cost.

## Longer life

The life-span of an LED bulb is 10 to 20 times greater than that of an incandescent light-bulb. It saves you money as you will need to buy fewer bulbs and you will reduce your maintenance costs. LED bulbs are also less sensitive to vibrations and shock.

## Dimmer compatible

Many LED bulbs can be controlled with a standard dimmer.

## Turn on immediately and tolerate cold

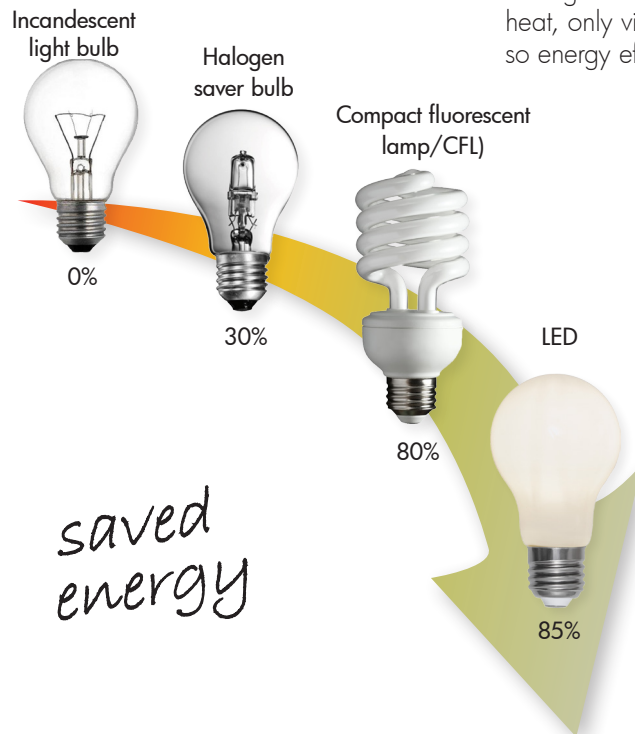
Unlike low-energy bulbs (CFL), LED bulbs can withstand cold without affecting the ignition time or the luminous flux.

## Less waste, no mercury

Longer life means less waste. LED bulbs contain no mercury, unlike some other bulb types which do.

## No radiant heat (IR radiation)

The light from an LED contains no radiant heat, only visible light. That is why they are so energy efficient.



A blue fabric background with three unlit Edison-style light bulbs and a green leafy branch. The text "Visit us at startrading.com" is centered in the upper half of the image.

Visit us at  
[startrading.com](https://startrading.com)