

# LED GUIDE

Expert advice from the LED specialists.



Quality is our promise to you.



## About us



LightRabbit is an LED specialist who have been supplying the United Kingdom and Ireland with top of the range LEDs and related goods for years and continue to do so to this very day. Our team are always happy to help, whatever the query and however complex it might be. What's more, our site is filled with additional information and helpful guides, all of which are designed to assist you in your quest to pick up money saving, superbly designed LED products.

At LightRabbit, you will be able to purchase a wide range of LED bulbs at exceptionally low prices. However, we don't just sell bulbs and similar LED powered items; we can actually sell you long term savings, greener living and value for money.

Everything we do here at LightRabbit, we do with simplicity in mind. So, if you are on the look out for top quality LED bulbs at very reasonable prices, additional information and a helpful and friendly team, you made the right choice in LightRabbit.

## Our promise to you



### Quality

We pride ourselves on quality. Our aim is to strengthen & promote the industry by supplying bulbs which will last and perform to the very highest standards.



### Price

We constantly strive to ensure our prices are competitive & excellent value. We manufacture in bulk, enabling the lowest prices online, but never compromising on quality.



### Service

You are important to us. Our expert advisers are here to help 6 days a week. We believe in our product and offer a 5 year warranty (subject to T&C's) & 45-day no quibble money back trial.



### Cut lighting bills

BY UP TO  
**90%**



# What you need to know



## What is a watt?

Wattage is the amount of power required to operate the light bulb. For example, a 60 watt halogen bulb uses 60 watts of power, so if you have 5 of these halogen bulbs in a room they will consume 300 watts of power. By replacing these bulbs with LED equivalents at 5 watts each, you would be using 25 watts of power. Big energy savings without compromising on brightness!

## What is a lumen?

A lumen is the measure of the total amount of light emitted by a source. Lumens let you buy the amount of light you want, so when buying your new bulbs think lumens, not watts. Currently our LED bulbs produce approx 100 lumens per watt. A traditional bulb will typically produce only 10 Lumens per watt. Therefore as a rule, just divide your existing bulb wattage by 10 to get the LED replacement wattage you need.

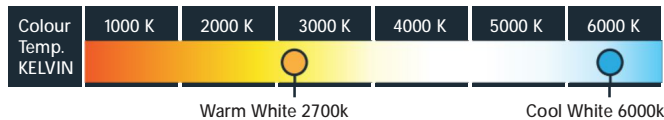
## What is meant by voltage?

Voltage is the measurement of volts required to operate the light bulb. Generally speaking, the UK, Australia & New Zealand is 240 volts and the US & Canada is 120 volts. NB. Some bulbs work on 12 volts which require a transformer, if unsure please check our bulb selector.

## What is colour temperature?

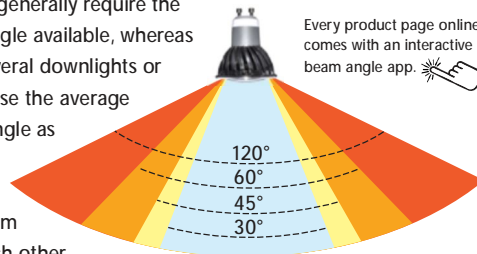


A measure of the colour of a light source at a particular temperature expressed in degrees Kelvin (K). Warm colours have a low colour temperature (approx 2700K) and have a red-yellowish tone; these are most suitable for living rooms. Cool colours have a high colour temperature (approx 6000K) and appear bluish; these are more clinical and therefore suitable for bathrooms, kitchens & offices. The lower the colour temperature, the warmer the colour of the light.



## What is beam angle?

The beam angle is the angle at which light is directed from the light bulb. So a small angle of 30° will focus light on a small area where targeted lighting is desired. A wide 120° beam angle will spread the light across a whole room creating softer lighting. A room with a single light fitting will generally require the widest beam angle available, whereas a room with several downlights or spotlights can use the average 30-45° beam angle as the light will cover different areas of the room and overlap each other.



# Direct LED replacements



Directly replace them - easy as plug & play!



At LightRabbit we believe in making your life easy

Our bulbs are made to directly replace your existing light bulbs:

- GU10 ✓ MR16 ✓ MR11 ✓ G4 ✓ G9 ✓ B22 (bayonet) ✓
- B15 (small bayonet) ✓ E27 (edison) ✓ E14 (small edison) ✓

### Questions about our direct replacements

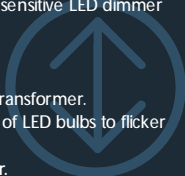
#### Will my existing dimmer switch work with my LED bulbs?

- 1) Ensure that your LED bulbs are dimmable, not all LED bulbs come with a dimmable option.
- 2) Your dimmer switch must be LED-compatible as standard dimmer switches will not work. Choose from one of our smooth control or touch sensitive LED dimmer switches.

#### Do I need an LED-compatible transformer?

Only 12 volt bulbs (typically MR16, G4 & MR11) will require a transformer. This is because standard transformers can cause these types of LED bulbs to flicker and result in permanent damage to the bulb.

NB: all 240 volt LED bulbs do NOT require a transformer.



## Our range of direct LED replacements



With every LED bulb replacement possible, LightRabbit really is a leader in it's field. Not only do we offer the best bulbs at the best prices, our friendly team of experts are always on hand to help you make the right choice.

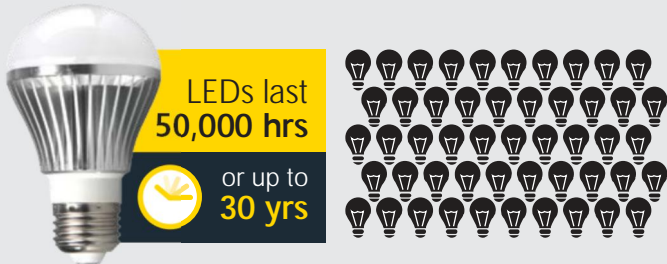


# How LED measures up



	LED Bulbs	Incandescent Bulbs
	4 Watts power used	50 Watts power used
	80% energy to light	10% energy to light
	20% energy to heat	90% energy to heat

The LED bulb works at an incredible 80% efficiency compared to the incandescent bulb which is only 10% efficient. 80% of the actual electricity consumed by a LightRabbit LED bulb is used to produce high quality light. The energy which is not turned to light turns to heat, making LEDs cool to the touch whilst incandescents are extremely hot. Expect to save up to 90% on your lighting bill by using energy efficient LED light bulbs.

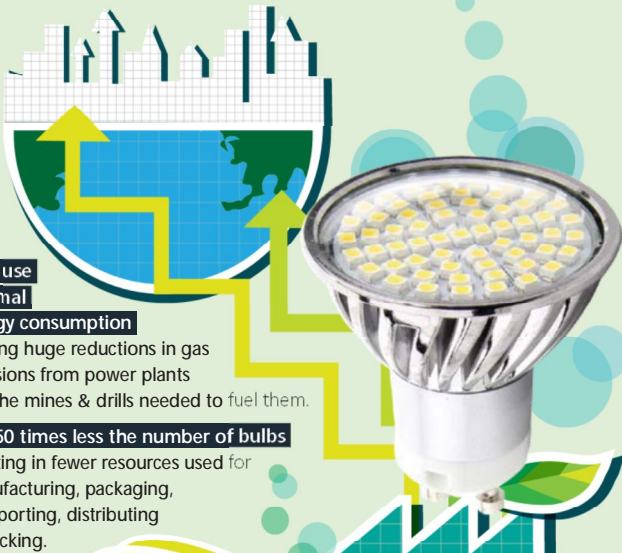


1x LED Bulb lasts as long as 50x Standard Bulbs

# Environmental benefits of LED



Being green is no longer just a trend. It is a way of life.



**LEDs use minimal energy consumption** yielding huge reductions in gas emissions from power plants and the mines & drills needed to fuel them.

**Use 50 times less the number of bulbs** resulting in fewer resources used for manufacturing, packaging, transporting, distributing & stocking.

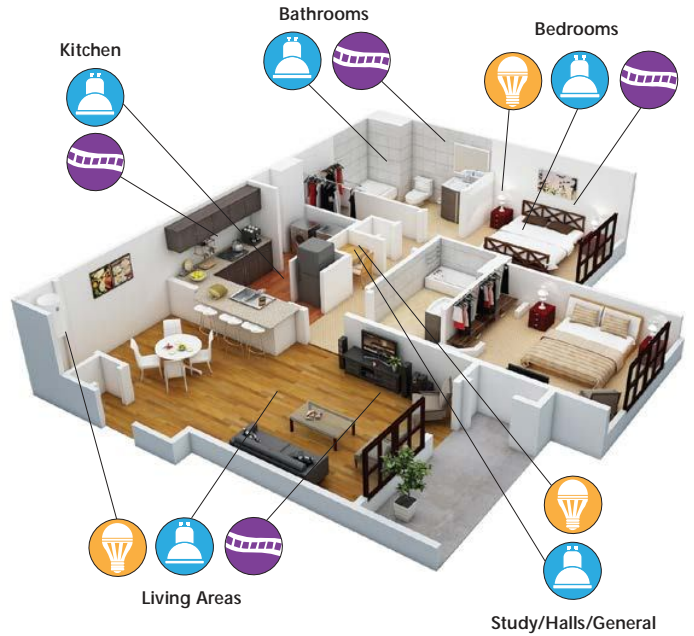
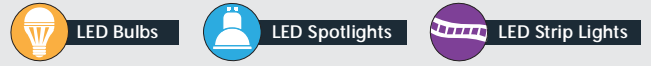
WITH LED GROWTH ~ lighting as a major source of global emissions could be a thing of the past.

- No IR or UV Emissions
- No mercury or toxic components
- Less light pollution with more directional light

# Your home is our business



LightRabbit LED lighting has the answer to saving you money and energy throughout your home and business.

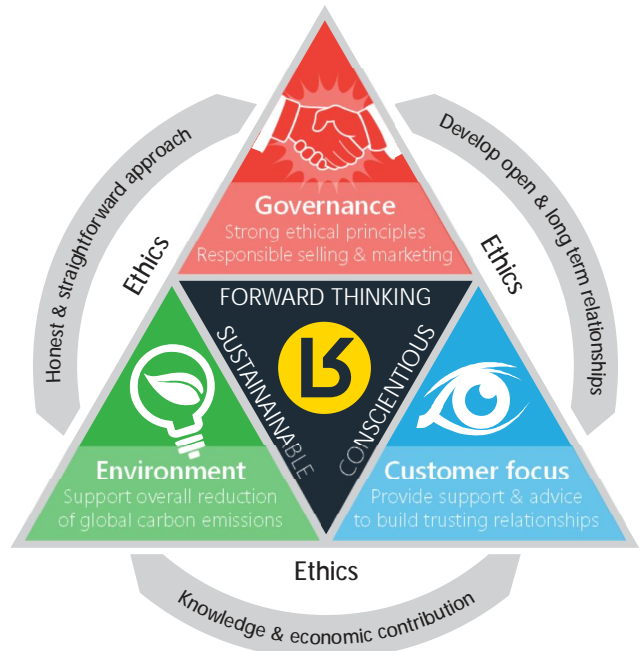


# Ethics are our strength



LED light bulbs you can trust and rely on.

- 5 year warranty
- 100% secure online payments
- 28-day money back trial
- Best quality component parts

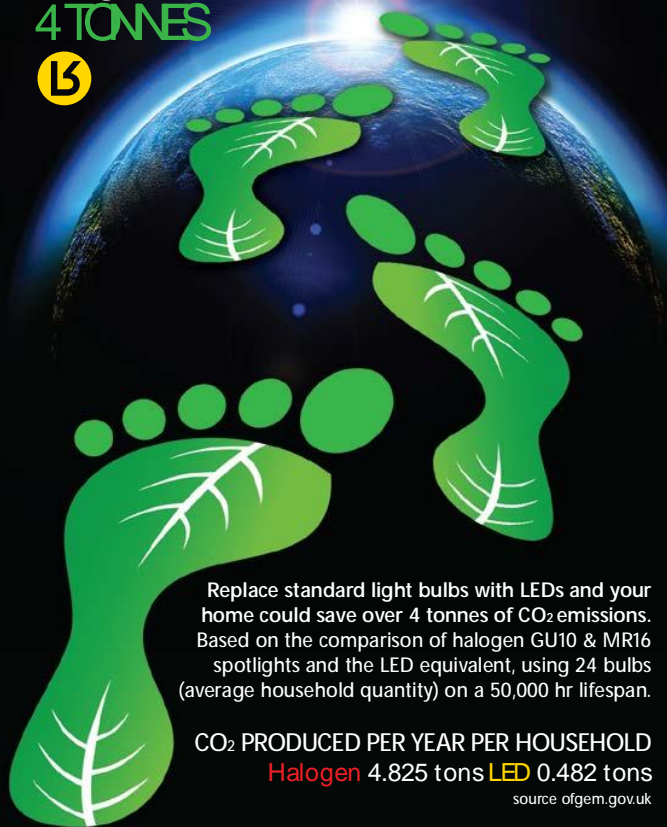


Currently 20% of the world's energy is used for lighting. LED lighting could reduce that energy use to only 4%



# REDUCE YOUR CARBON FOOTPRINT

BY MORE THAN  
4 TONNES



Replace standard light bulbs with LEDs and your home could save over 4 tonnes of CO<sub>2</sub> emissions. Based on the comparison of halogen GU10 & MR16 spotlights and the LED equivalent, using 24 bulbs (average household quantity) on a 50,000 hr lifespan.

CO<sub>2</sub> PRODUCED PER YEAR PER HOUSEHOLD  
Halogen 4.825 tons LED 0.482 tons  
source: ofgem.gov.uk

## Where you can find our bulbs



France: [www.lightrabbit.fr](http://www.lightrabbit.fr)



Germany: [www.lightrabbit.de](http://www.lightrabbit.de)



Ireland: [www.lightrabbit.ie](http://www.lightrabbit.ie)



UK: [www.lightrabbit.co.uk](http://www.lightrabbit.co.uk)



USA: [www.lightrabbitusa.com](http://www.lightrabbitusa.com)

At LightRabbit we guarantee all our bulbs for 5 years, subject to terms and conditions. We are so sure they will meet with your satisfaction that we have a 45-day no quibble returns policy.

Quality is our promise to you. All the components in our bulbs come from globally certified factories and each bulb is tested with a minimum of 2 quality checks to ensure you receive an LED bulb of the highest standard.



The best prices  
Checked daily



Free Phone Support  
Mon-Sat 8:30-5:30



5 Year Warranty  
Subject to T&C's



45-day no quibble  
Money back trial!



Free Delivery  
Subject to T&C's



Worldwide shipping  
Available

## Frequently Asked Questions



### ? Which colour option should I choose?

The two key colour options you will come across in our LED bulbs are warm white and cool white. In terms of choosing, if you remember that warm white is similar to conventional lighting with a softer slightly yellow light and cool white is a brighter white light, it should help you with your decision. Generally speaking, warm white is the preferred option for living rooms and bedrooms, whilst cool white is more popular for bathrooms and kitchens.

### ? Will LED bulbs fit into my existing light fittings?

Yes. All LightRabbit bulbs are direct replacements for your old halogens, unless otherwise stated in their description.

NB. All bathroom light fittings must be fire rated and waterproof with a certification of at least IP65, in compliance with building regulations.

### ? Will I require an LED-compatible transformer?

You will only need an LED-compatible transformer for 12 volt bulbs (MR16, G4, and MR11). All 240 volt bulbs do not require a transformer. If the minimum wattage of the transformer is greater than 20 watts, your LED will not be compatible. Non-compatible transformers will cause the bulb to flicker which can damage the fixture and decrease the overall lifespan of the LED.

### ? Can LED bulbs be dimmed?



They certainly can. However, in order to do so, you will need to install a low voltage dimmer switch, as standard halogen dimmer switches will not work with dimmable LED bulbs.

### ? Will my LED turn on instantly or does it need to warm up?

Your LED bulbs do not require time to warm up which means they turn on instantly to provide you with the high quality lighting you need. LED bulbs do not give off harmful IR or UV emissions.

### ? Will the light created lessen over the bulbs lifespan?

Yes it will. However, because the lifespan of the bulb is so long, the eventual dimming is practically unnoticeable and as such, much more reliable than its halogen equivalent.

### ? What are the main features & benefits of LEDs?

The perks of an LED bulb over a halogen include a long lifespan, energy efficient consumption, low temperature, high safety levels, zero warm up time and saving money, not only on bills but also on replacement items.

- Cost effective
- Long life span
- Compact size
- Directional light
- No warm up time
- Energy efficient
- Low temperature
- Adjustable beam
- Resistant to damage
- No UV or IR emissions