

Features of LED & non-LED Light Bulbs Compared

Features	Incandescent bulbs	CFL (Fluorescent) bulbs	LED bulbs
Watts per bulb	60	14	6
Life span of each bulb	1200 hours	10,000 hours	60,000 hours
Amount of electricity used in 60,000 hours	3,600 KWh	840 KWh	360 KWh
Cost of electricity @£0.20 for each KWh	£720	£168	£72
Number of bulbs required over 60,000 hours	50	6	1
Cost of each bulb	£1.25	£2.98	£15.98
Bulb expense for 60,000 hours	£62.50	£17.88	£15.98
Total lighting cost for 60,000 hours (cost of electricity + bulb expense for 60,000 hours)	£782.50	£185.88	£87.98

LED Light Bulbs Cost Comparison

The following data assumes you will be using approximately 30 light bulbs around your home at any point in time.

Features	Incandescent bulbs	CFL (florescent bulbs)	LED bulbs
Cost of 30 bulbs	£37.50	£89.40	£479.40
Number of bulbs that you would require for 60000 hours	50	6	1
Bulb costs for 60,000 hours for 30 bulbs of each	£1875	£536.40	£479.40
Electricity costs for 60,000 hours	£21000	£5040	£2160
Total lighting cost of 30 bulbs for 60,000 hours	£23,475	£5,576.40	£2,639.40

Thus, if you replace your incandescent or CFL bulb with an **LED bulb**, you could save a significant amount of money - running into the thousands of pounds - on electricity consumption and cost of bulbs over the lifetime of the bulbs. Using LED light bulbs will dramatically reduce your lighting costs and you will reap the environmental benefits of using **energy efficient lighting**.

LED Lighting Solutions Compared

Types of LED lights	Watts	Lumens	Lifespan
LED GU10 bulb	3 watts	70lm	50,000 hours
MR16 LED Bulb	3 watts	240lm	50,000 hours
LED down lights	3 watts	160lm	50,000 hours
LED spotlights (PAR20, PAR30 and PAR38)	5 watts	900lm	50,000 hours
LED floodlights	10-30 watts	100lm	50,000 hours
LED tube	8 Watts	800lm	30,000 hours
LED garden lights	28 Watts	2180lm	30,000 hours

LED lighting solutions also include **LED ceiling lights**, **LED wall lights**, LED and **dimable LED** lights. You can choose any kind of **LED lights for homes** depending upon your preferences and requirements. [LED lights](#) are proven to be energy efficient and extremely long lasting when compared to incandescent lights and CFLs.

When choosing **LED lights for your home** it is essential to understand the light output ie: how bright the LED bulbs are going to be. The standard light bulb wattages you may be used to do not apply to LED bulbs, check their useful comparison table below to see exactly which [LED light bulbs](#) you need.

Light output in lumens	Incandescent in watts	CFLs in watts	LEDs in watts
450	40	8-12	4-5
300-900	60	13-18	6-8
1100-1300	75-100	18-22	9-13
1600-1800	100	23-30	16-20
2600-2800	150	30-55	25-28

Features of LED Lights & non-LED Lights Compared

Features	Incandescent	CFLs	LED lights
Durability	Fragile	Fragile	Durable
Sensitivity to humidity	Some	Yes	No
Sensitivity to temperature	Some	Yes (if temperature goes under -10 degrees Fahrenheit or above 120 degrees Fahrenheit they may not work)	No
Turns on instantly	Yes	There will be some delay	Yes
Frequent on/off cycling	Some effect	Drastically shortens the lifespan	No effect
Heat emitted	High	Medium	Low
Frequency of replacement say in about 50,000 hours	4	5	1
Hazardous materials used	None	Contains about 5 mg of mercury in each bulb	None
Emissions of carbon dioxide	4500 pounds per year	1051 pounds per year	451 pounds per year
RoHS compliant	Yes	No	Yes
Failure modes	Some	Yes – could succumb to smoke or fire or it could even emit some kind of odor	Not typical