



LED Lighting Fact Sheet

Why should I consider upgrading to LED Lighting?

Replacing your current light bulbs with LED (Light Emitting Diode) fittings is a quick and easy way to realise some great energy and cost savings for your business.

Lighting typically makes up 10-30% of the overall electricity consumption within a business. As LED bulbs can reduce your lighting energy consumption by up to 90%, switching to LED can have a big impact on reducing your energy bills.

Although slightly more expensive, LED bulbs also last much longer than traditional fittings such as incandescent and halogen bulbs and in many cases last up to 10x as long.



How much money are my lightbulbs costing me?

Over an annual period, ten 60W bulbs, used for 4 hours a day will contribute £126 to your energy bill. Upgrading to equivalent LED bulbs will use 83% less energy and cost only £17 to run, saving you £109 over the year.

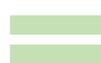
As many replacement LED bulbs cost less than £5, the investment required to switch to LED bulbs is often repaid by the resulting energy savings in less than a year. So what are you waiting for – switch to LED!



60W Incandescent Bulb



10W LED Equivalent



Savings!

Which bulbs should I buy?

We recommend buying LED bulbs from a well-known manufacturer. Cheaper alternatives are available but the quality will be poorer and as such, the bulbs will have a shorter lifetime and lose their brightness over time. It is worth shopping around to find the best price and retailers will often offer a discount if buying bulbs in bulk.

How do I know which fittings to replace?

If any of your current bulbs look like the fittings in the top row of the following table then we would recommend upgrading to LED! Light bulbs are all named with a code combining letters and numbers. For example a halogen bulb fitted into your ceiling is most likely to be a GU10 bulb.



Find this code on your current bulbs so that you can make sure you find the right LED replacement which will fit into your light fitting. The bulb type (i.e. E27, GU10) and its power rating (Watts - W) can be found on the bulb casing.

Current Bulb	Incandescent E27 – 60W	Halogen GU10 - 50W	Halogen G4 - 20W	Fluorescent Tube T8 6ft - 70W	Halogen Floodlight - 500W
Looks like?					
LED Equivalent	10W LED	5W LED	2W LED	25W LED	50W LED
Looks like?					
Energy Reduction? Annual Saving per bulb (assuming 4hrs usage per day)	83% £11.0	90% £9.50	90% £3.80	64% £9.50	90% £95.3

Lighting - Brightness

The brightness of a bulb is measured in lumens. When choosing LED fittings check that its 'equivalent' rating matches that of your current bulb - i.e. a 6W LED bulb has the same brightness as a 40W standard incandescent bulb (400 lumens)

BRIGHTNESS →	220+	400+	700+	900+	1300+
STANDARD 	25W	40W	60W	75W	100W
HALOGEN 	18W	289W	42W	53W	70W
CFL 	6W	9W	12W	15W	20W
LED 	4W	6W	10W	13W	18W

Lighting – Temperature

Measured in kelvins, lighting temperature is not a measure of brightness but appearance. As shown the image below, the lower the lighting temperature the softer the appearance.

'Cool White' fittings are often preferable for applications such as kitchens and offices where a clearer light is required. 'Warm White' fittings are better suited for restaurants and cafes where a softer, more ambient appearance is desired. If you are planning to change a large number of fittings then we would recommend initially replacing a small number of fittings with both types to determine which temperature you prefer.

