

# FIT ONE & FORGET MORE . . . .

LED's – or 'Light Emitting Diodes' have revolutionised the lighting scene with great light quality and low energy consumption. Using on average only 20% of the energy that would be required to power a traditional filament or energy saving halogen lamp for the same light output, LED lamps can make a massive contribution to your energy saving effort. And when you think that the 25% of the average home energy budget is spent just keeping the lights on, even better.

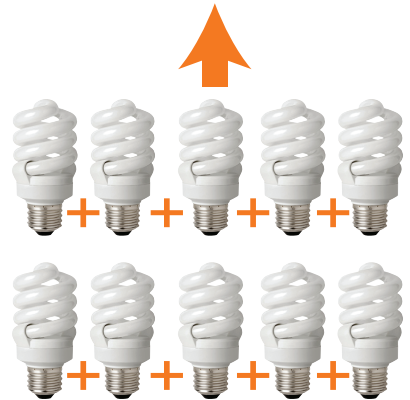
Now consider their lifespan. LED lights typically last up to 50,000 hours with almost no degradation of light output. And if you were to average that out at a typical 8 hours usage per day, that's an amazing life expectancy of about 30 years. Unlike conventional lights, LEDs have a directional light source. The LED light therefore gives you increased control over the light and therefore less wasted light and pollution.

You can use LED virtually anywhere. LED lights have a lower operating temperature making them much safer to the touch, whilst at the same time reducing heat pollution.

The design of LED lighting makes them suitable for most applications, but excellent as direct replacements for the lamps normally used in conventional light fittings such as 'down lighters'.

Running off only a 12 volt or 24 volt system, LED lights are a great low-energy partner when used with renewable energy sources such as solar panels or wind power generators.

LED lights are available in many different shades of 'light-colour' including white, warm white, RGB (red, green, blue) and colour changing. And demonstrating even greater versatility, LED lights are also fully dimmable.



The life expectancy of a LED lamp is more than 10 times that of a similar compact fluorescent and 30 times longer than a typical incandescent light bulb.

**LONG LIFE**  
**SAVES**  
**ELECTRICITY**  
**UP TO 90%**

The construction of a LED light is solid, in other words they do not have a filament. That makes them virtually indestructible in normal service, and even better, the performance of the light should remain constant. This makes the LED light superior to other light technologies both of which will almost certainly visibly deteriorate with age.

**CALL 01674737042**

# COMPARISON CHART



## LED LIGHTS VS. INCANDESCENT BULBS VS. CFLS

Light Emitting Diodes  
(LED)

Incandescent Light  
Bulbs

Compact Fluorecents  
(CFL)

Life Span (average)	50,000 hours	1,200 hours	8,000 hours
Watts of electricity used (equivalent to 60 watt bulb).	6 - 8 watts	60 watts	13-15 watts
Contains the TOXIC Mercury	No	No	Yes
RoHS Compliant	Yes	Yes	No
Carbon Dioxide Emissions (30 bulbs per year) <i>Lower energy consumption decreases: CO2 emissions, sulfur oxide, and high-level nuclear waste.</i>	451 pounds/year	4500 pounds/year	1051 pounds/year
Sensitivity to low temperatures	None	Some	Yes <i>may not work under negative 10 degrees Fahrenheit or over 120 degrees Fahrenheit</i>
Sensitive to humidity	None	Some	Yes
On/off Cycling	No Effect	Some	Yes <i>Switching a CFL on/off quickly, in a closet for instance, may decrease the lifespan of the bulb.</i>
Turns on instantly	Yes	Yes	No <i>takes time to warm up</i>
Failure Modes	Not typical	Some	Yes <i>may catch on fire, smoke, or omit an odor</i>
Durability	Very Durable <i>LEDs can handle jarring and bumping</i>	Not Very Durable <i>glass or filament can break easily</i>	Not Very Durable <i>glass can break easily</i>



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