

LED LIGHTING



Many homes have lots of halogen down lights and flood lights. These are notorious power guzzlers, not to mention potential fire hazards! There are a variety of long lasting energy efficient light emitting diodes (LED) light fittings now entering the market at prices that are a fraction of what they were a couple of years ago.

Reasons to make the switch to LED lighting

- Typical incandescent bulbs last 1,000 to 2,000 hours,
- Halogen bulbs last between 1,000 to 4,000 hours,
- Compact fluorescent lamps (CFLs) last approximately 6,000 hours, and
- LED bulbs last between 15,000 to 50,000 hrs.
- The long operational life time span mentioned above means also that one LED light bulb can save material and production of 25 incandescent light bulbs. A big step towards a greener future!
- LEDs are 4 to 7 times more efficient than the typical incandescent or halogen equivalent.
- LED lights can be switched off and on frequently and without affecting the LED's lifetime or light emission.
- LEDs emit very little infrared heat. In comparison, incandescent bulbs release 90% of their energy as heat and CFLs release about 80% of their energy as heat.
- LEDs are more expensive to buy but cheaper overall when considering lifetime energy use costs.

| Light globe comparison table | | | | |
|------------------------------|--------------|----------|----------------|------------------|
| Incandescent globes (W) | Halogens (W) | CFLs (W) | LED globes (W) | Lumen range (lm) |
| 40W | 28W | 7-10W | 4-5W | 470lm |
| 60W | 42W | 15-18W | 6-8W | 806lm |
| 75W | 52W | 17-20W | 7-12W | 1055lm |
| 100W | 70W | 20-25W | 16-20W | 1521lm |
| 150W | 105W | 29-32W | 25-28W | 2452lm |

Note: It's important to remember that this sort of comparison is only part of the story. Different globe types serve different purposes, behave differently, have their own practical advantages and disadvantages and cover a broad range of costs and lifespans. This is especially the case for LED globes, which differ very significantly from product to product. Lumen value source: EU ErP equivalence comparison (supplied by Lighting Council Australia)

Table Source: <http://www.build.com.au/light-globe-comparison-guide>



How do I get started?

Whether your building from scratch, renovating, or need electrical maintenance or repair, call Electrical Sensations on 07 4637 2744 to find out how we can help you today.

