



# LED DOWNLIGHTS.

## What's good about using LED Downlights over normal bulbs?

LED downlights are great as they save power and are up to 85% more efficient than incandescent bulbs and have a relatively quick payback on the investment.

## Traditional incandescent bulbs vs. LED downlights.

The fact is traditional incandescent bulbs have changed very little over 100 years and are very inefficient - less than 5% of their energy is converted into light with the balance of that is converted into heat. They also require a significant gap in insulation around the downlight fitting. In contrast, the LED downlights we use can be covered by insulation to keep your home both warmer and lighter and dramatically lower power use.

## Downlights & insulation

The use of downlights in modern homes with incandescent light bulbs poses a challenge for thermal efficiency. Guidelines require insulation to keep up to 200mm clear of all downlights unless the light fitting carries an "IC" or "CA" classification. This clearance results in considerable heat

loss around the light fitting. Insulation can cover IC-F rated LED downlights to keep your home warm and bright in winter by limiting heat loss. So it's a good thing to look at the bigger picture.

## Why upgrade to LED downlights?

LED lights are a big leap forward in performance – beyond the initial outlay you'll get a lot back.

- LED light bulbs use 85% less energy than traditional incandescent light bulbs and 35% less than Compact Fluorescent Light bulbs (CFLs)
- Only by changing to new IC rated LED light fittings can you install insulation over the fitting to minimise heat loss.
- The quality of light from LED bulbs is fantastic - it's gives you a strong clean light.
- LED light bulbs last much longer than incandescent bulbs saving you money & frustration.

- LED lights are more energy efficient than incandescent, halogen or CFL bulbs.
- LED downlights can be fitted with a dimmer but CFL bulbs cannot.
- The LED downlights have a smooth attractive face versus spiral CFL bulbs.
- LED downlights do not have to "warm up" like some halogen and CFL bulbs. Upgrading to LED bulbs in existing fittings will save on electricity but it won't allow insulation to cover them, with insulation only installed over LED downlights that are approved to do so.

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## Any questions? Here's what most people ask us.

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### How can I save money on lighting?

- Think long term and replace lighting with more energy efficient options. By replacing ordinary incandescent light bulbs with energy saving LEDs where ever you can, you'll start noticing instant savings. LEDs are more reliable and use less power for the same number of lumens (light).
- Save yourself a headache by switching off. By 'over lighting' you can create glare, eye strain and headaches, so save money and headaches by working out which lights you don't need and start turning them off.
- Sunlight is free so work with natural light wherever possible.

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### How much can I save with LED bulbs?

Going with LEDs can make a good dent in your energy bills with EECA Energywise website estimating a saving of around \$183.30 per year by replacing 10 incandescent bulbs with equivalent LED bulbs.

- This is based on replacing 10 x 75 Watt incandescent fittings with 10 x 13 Watt LED bulbs.
- Both bulbs would produce 1100 lumens of light.
- The estimate assumes 3 hours operation per day at 27c per kWh.

A \$55 replacement cost for downlights would be recovered in about 4 years based on the light energy alone. The added benefit of LED downlights is that the ones installed by Brighttr can be covered by insulation to keep you warmer in winter.

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### Warm & Cool LED lights - what's the difference?

- Cool white LEDs: these are most suited for task lighting in kitchens, bathrooms, offices, workshops and garages.
- Warm white LEDs: create a softer, more mellow light which is better suited for bedrooms and living rooms.

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### What size LED to replace a 100W bulb?

Watts are a measure of the power consumed rather than the light created. Consequently the best measure to compare is "lumens" or light output.

A 100W incandescent bulb has about the same lumens as a 10-15W LED bulb or fitting.

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## Right people for the right job – we've got trained and experienced teams.

Our dedicated team of advisors & installers are fully and regularly trained and experienced in working with homeowners, tenants & landlords. One of our team can call

on you at a time that suits to discuss your requirements and provide you with an obligation-free quote for supply & installation.