



Light Bulb Comparison Chart LEDs vs. CFLs vs. Incandescents

Over the last few years LED light bulbs have come a long way. They will eventually replace CFLs and incandescent bulbs.

The following comparison charts illustrate the value of the latest LED bulbs when compared with CFLs and incandescents for overall efficiency as well as cost-effectiveness.

	LED	CFL	Incandescent
Average Life (hrs)	50,000	10,000	1,200
Power (Watts)	6 – 8	13 - 15	60
Light Output (Lumens / Watt)	100	50	10
Heat Emitted (Btu/hr)	3.4	30	85
Electricity Use (kWh) ¹	350	700	3,000
Bulbs Need for 50,000 hrs of Use	1	5	42
Mercury Content	None	Contains 1 mg to 5 mg	None
Sensitivity to low temperatures	None	Yes - may not work under negative 10°F or over 120°F	Some
Sensitive to humidity	None	Yes	Some
On/off Cycling	No Effect	can reduce lifespan	Some
Turns on instantly	Yes	Some delay	Yes
Durability	Very Durable	Fragile	Fragile

¹ Electricity use over 50,000 hours



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While LEDs have not yet displaced CFLs and incandescent light bulbs, they will eventually replace them. LEDs have not yet displaced CFLs because the first generation LED bulbs had a narrow and focused light beam, and the cost of the LED bulbs was too high.

Recent developments in LED technology are addressing these issues. LEDs have been 'clustered' to provide more light, and mounted within diffuser lenses which spread the light across a wider area. And advancements in manufacturing technology have driven the prices down to a level where LED bulbs are more cost-effective than CFLs or incandescent bulbs. This trend is continuing, with LED bulbs being designed for more applications at lower prices.

Contact us for a free no obligation assessment of how we can help you save money and improve your bottom line by effectively managing your energy costs.

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