

Lamp comparison chart

Lamp type	Incandescent	Halogen	CFL	LED
				
Life	750 to 1,000 hrs	2,000 hrs	6,000 to 15,000 hrs	30,000 to 50,000 hrs
Rated power	50W	35W	11W	5W
Power used over 1 year	438.0 kWh	306.6 kWh	96.4 kWh	43.8 kWh
Cost of electricity over 1 year	£52.56	£36.80	£11.57	£5.26
Heat output	High	High	Low	Lowest -minor
Health affects	UV rays, IR effects, SAD Syndrome	UV rays, IR effects, SAD Syndrome	UV rays, IR effects	No UV, No IR
Colour rendition	Restricted colour options	Restricted colour options	Restricted colour options	Wide range of colours
Dimmable	Yes	Yes	No	Yes
Robustness	Very sensitive, easily breakable	Sensitive, Breakable	Sensitive, Breakable	Robust, Solid State
Power-up time	Almost immediate	Almost immediate	Delayed	Immediate
Cost of ownership	Very High	High	Low	Lowest
Contaminants	Reasonably Safe	Reasonably Safe	Mercury	None = Safe
Specialist disposal	Non domestic only (to Landfill)	Non domestic only (to Landfill)	Yes (Compliance with WEEE Directive – Specialist Disposal)	Non domestic only (recyclable)
Recyclability	Landfill	Landfill	Specialist Disposal	Recyclable
Light efficiency	8-17 lumens / watt	10-30 lumens / watt	60-70 lumens / watt	40-60 lumens / watt
Energy efficiency	10%	10%	40%	90%
Light quality over time	Decreases	No change	Decreases	No change

