



## Why switch to ENERGY STAR® qualified CFL or LED lamps?

There are many, many benefits to switching to ENERGY STAR® qualified CFL or LED lamps. They are good for the environment, using less resources because they are so efficient, and last far longer than older technologies. And it's not just our environment that benefits; due to their efficiency, they are far and away less costly to operate, saving everyone money on every energy bill we receive.

### About ENERGY STAR®

ENERGY STAR is a voluntary government-backed program sponsored by the Environmental Protection Agency (EPA) and the Department of Energy (DOE). Energy Star protects the environment by helping us to identify and promote energy-efficient products which reduce greenhouse gas emissions. It is the national symbol of energy efficiency.

Visit [www.energystar.gov](http://www.energystar.gov) for more information.



Standard CFL Spirals



BR/PAR CFL Lamps



Ditto™ LED Reflector Lamps



Specialty LED Lamps



LED A19



LED PAR Lamps

# Benefits of ENERGY STAR® qualified LED and CFL lamps



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## ENERGY STAR® lamps

- **Reduce energy consumption, saving you money.** By switching from a 60W incandescent bulb to a 13W CFL, you will save about \$62 over the lifetime of the CFL! Replace the incandescent bulb with an LED and you'll save \$143 over the life of the LED bulb!\*
- **Last longer.** A CFL lamp lasts almost 10 times longer than an incandescent bulb, while an LED lamp lasts almost 20 times as long. You save trips to the store which saves time and money.
- **Lessen the impact on the environment.** Using Energy Star qualified lamps use less energy thus reducing greenhouse gasses and impact on the earth.
- **They can be recycled.** CFL and LED lamps are recyclable which keeps materials out of landfills.
- **Produce less heat.** CFL and LED technology uses energy more efficiently, so less heat is emitted. Less heat production means lower cooling bills.
- **Save time.** Replace lamps less frequently and make less trips to the store.

\* Savings based on \$0.12 per kWh for 3 hours per day with a 12,000 hour CFL and a 25,000 hour LED. Actual savings will vary depending on current electric rates and actual hours of use.

## Choosing the right LED or CFL

### Where to use an ENERGY STAR® LED or CFL

- **High use areas** kitchens, bathrooms, laundry rooms and outdoor fixtures.
- **Use in hard to reach fixtures** so you don't have to replace them so frequently.
- **Where you need more light** without exceeding the maximum rated wattage of the fixture.

### Choosing the right wattage

Use the 4:1 rule when choosing a CFL lamp. When replacing a 60W incandescent, use a 13W or 15W CFL. Use the 6:1 rule for LED lamps. When replacing a 60W incandescent with an LED lamp, choose an 8W or 10W LED. In either case, choose the lumen output you need, then select the lowest wattage.

### Color choices

CFLs and LEDs are available in several color temperatures. Color is rated on a scale measured in Kelvins (K). Refer to the charts below to find the color temperature that is right for you.

### Improved technology

- No flicker or hum
- Available in various color temperatures
- Reproduces colors more accurately

### Mercury facts

All fluorescents, including CFLs require mercury to operate. The amount of mercury in a CFL is very, very small. But since they use far less electricity than incandescent lamps, less power from coal-fired plants is required. So compared to traditional incandescent lights, using CFLs creates a net reduction in the amount of mercury emissions into our atmosphere. LED lamps contain no mercury at all. More information is available at [www.energystar.gov](http://www.energystar.gov).



## LIFETIME SAVINGS CHART

### COMPARISON OF RETURN OF INVESTMENT (10 BULBS)

Bulb Type	Incandescent R30 Reflector	Fluorescent Reflector	LED Reflector
Cost (each)	\$2.99	\$8.95	\$29.95
Wattage	65 watts	15 watts	11 watts
Bulbs replaced	10 bulbs	10 bulbs	10 bulbs
Cost per year <sup>1</sup>	\$140.40	\$32.40	\$23.76
Bulb lifespan <sup>2</sup>	2,000 hours	10,000 hours	25,000 hours
Actual lifespan <sup>3</sup>	1 yr, 1 mo, 4 days	5 yrs, 6 mos, 8 days	13 yrs, 8 mos, 11 days
# of replacements <sup>4</sup>	120 times*	1.5 times	0
Annual Cost <sup>5</sup>	\$169.63/year	\$34.04/year	\$24.09/year

<sup>1</sup> Average of \$0.12kWh of electricity.

<sup>2</sup> When in continuous use.

<sup>3</sup> When used 5 hours a day.

<sup>4</sup> Number of times an Incandescent, Halogen or Fluorescent bulb would need to be replaced during an LED bulb's lifetime.

<sup>5</sup> Includes cost of bulb, plus electricity, in one year. Excludes cost of re-lamping.

\* 12 replacements per bulb.

KELVIN SCALE						
Warm White		White		Cool White		
2700K	3000K	3500K	4100K	5000K	7500K	10,000K
Warm White		White		Cool White		
2700K		4100K		5000K		
• living areas • bedrooms • dining areas		• office use • work areas • general purpose		• reading • display use • color accuracy		

## LIGHT OUTPUT EQUIVALENCY

To determine which ENERGY STAR qualified light bulbs will provide the same amount of light as your current incandescent light bulbs, consult the following chart:

Incandescent Light Bulbs	Minimum Light Output	Common Energy Star Qualified Light Bulbs
WATTS	LUMENS	WATTS
40	450	9-13
60	800	13-15
75	1,100	18-25
100	1,600	23-30
150	2,600	30-52



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