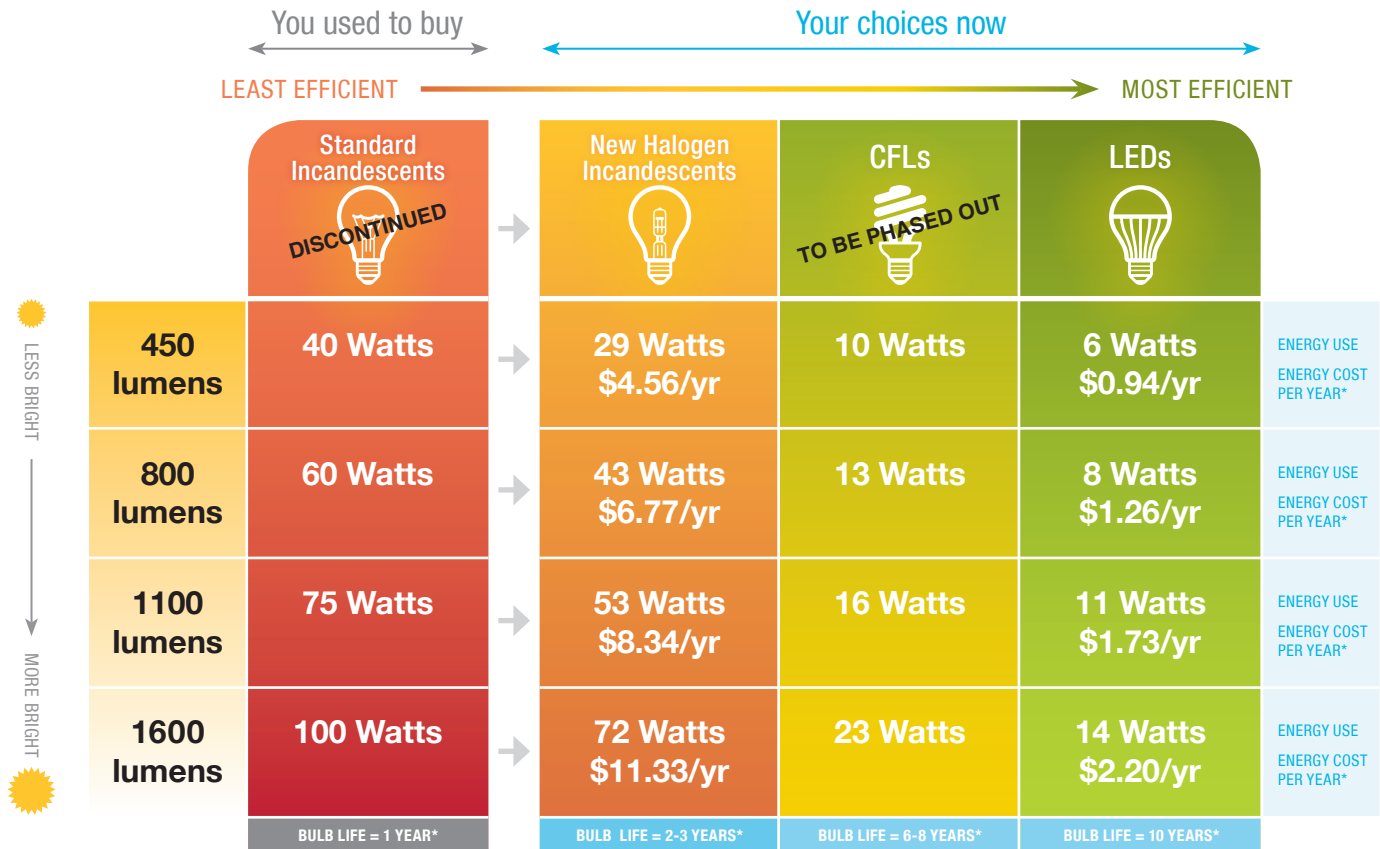


# Choosing a Replacement for the Standard Incandescent Light Bulb

With the standard incandescent light bulb now phased out under new energy efficiency lighting regulations, how do you decide which replacement bulb is best for your home and budget?

Follow these 3 easy steps...

- 1 Choose bulbs based on how bright you need them to be. Brightness is measured in lumens. The higher the lumens, the brighter the light.
- 2 Determine which bulb has the lowest estimated energy cost per year. These will save you the most money.
- 3 Choose the additional features you prefer, such as service life and colour temperature.



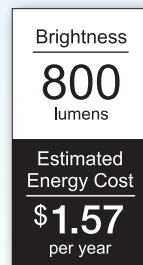
\*Rated life and energy cost per year based on 3 hours of use per day (energy cost per year based on Maritime Electric residential first block energy charge of \$0.1437/kWh).

## Where can I find this information?

Most light bulb packages in Canada now have labels that tell you how bright the bulb is and how much energy it will use. Look on the light bulb package to match the lumens information and energy cost per year to the table above.

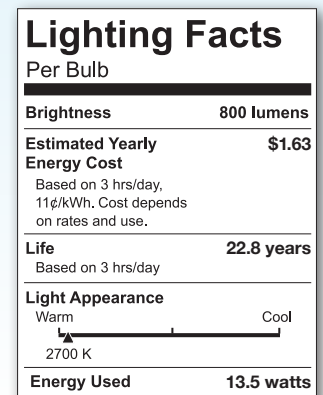
### Front of package

- 1 Brightness
- 2 Estimated energy cost per year



### Back of package

- 3 Other features



# Why are light bulbs changing?

In both the United States and Canada, new energy efficiency regulations require improved energy efficiency for general purpose light bulbs. You can still buy incandescent bulbs (halogen incandescents) that look and operate like the ones you are used to – the new ones just use less electricity. Most light bulb packages in Canada will include a Lighting Facts label such as the one shown below.



## Example of new bulb labels

Lighting Facts	
Per Bulb	
1 <b>Brightness</b>	800 lumens
<b>Estimated Yearly Energy Cost</b>	\$1.63
Based on 3 hrs/day, 11¢/kWh. Cost depends on rates and use.	
2 <b>Life</b>	22.8 years
Based on 3 hrs/day	
3 <b>Light Appearance</b>	Warm <span style="display: inline-block; width: 100px; border-bottom: 1px solid black; position: relative; top: -5px;"> <span style="position: absolute; left: 0; top: -5px;">2700 K</span> <span style="position: absolute; right: 0; top: -5px;">Cool</span> </span>
4 <b>Energy Used</b>	13.5 watts

- Brightness** – Tells you how much light the bulb provides.
- ENERGY STAR® Logo** – Indicates which CFLs and LEDs meet ENERGY STAR® requirements for efficiency, lifetime and quality.
- Life** – Estimates in years how long the bulb will last. A longer bulb life means less frequent replacement and faster payback on your lighting investment.
- Light Appearance** – Tells you the colour temperature of light, expressed in degrees Kelvin. Incandescents produce warm white light – between 2700 K and 3000 K. Bulbs that produce cooler or more bluish light will have a higher rating, such as 4000 K to 6500 K. Most buyers prefer the warm white colour compared to daylight or bright white bulbs.
- Energy Used (Watts)** – Measures bulb energy use, not brightness.

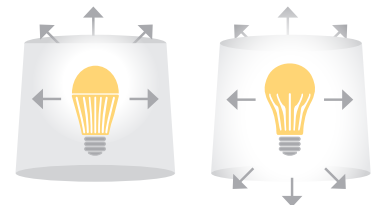
## Which bulbs cost the least to purchase and operate over the long run?

While an incandescent bulb may be the cheapest to buy, the overall cost of both purchasing and powering the bulb will be far higher than an LED bulb. Over the longer life of an LED, savings can exceed \$50 per bulb. The following table helps to illustrate why more efficient LED bulbs are the best bargain overall.

Bulb Types (all approx. 800 lumens)	Bulb Life	Costs	Year 1	Annual Cost	Total Costs over 10 years
Halogen Incandescent 43 Watt 	3 years	Bulb Cost	\$2.50	\$0.00	\$7.50
		Energy Cost	\$6.77	\$6.77	\$67.66
		<b>Total Cost</b>	<b>\$9.27</b>	<b>\$6.77</b>	<b>\$75.16</b>
LED 11 Watt 	10 years	Bulb Cost	\$5.00	\$0.00	\$5.00
		Energy Cost	\$1.26	\$1.26	\$12.59
		<b>Total Cost</b>	<b>\$6.26</b>	<b>\$1.26</b>	<b>\$17.59</b>

\*Rated life and energy cost per year based on 3 hours of use per day (energy cost per year based on Maritime Electric residential first block energy charge of \$0.1437/kWh)

### Table lamp comparison



Standard LED bulb  
x

Omnidirectional LED bulb  
✓

In table and floor lamps, you want the lights to shine in all directions, so look for Energy Star®-labeled bulbs that are omnidirectional.

### Recessed can comparison



Omnidirectional LED bulb  
x

Reflector LED Bulb  
✓

For down lights and recessed cans, install Energy Star® reflector LED bulbs. The light going upward from the omnidirectional bulbs can be wasted inside this fixture.