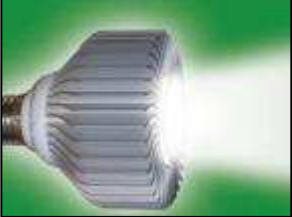







Comparison Chart LED Lights vs. Incandescent Light Bulbs vs. CFLs

<p style="text-align: center;">Energy Efficiency & Energy Costs</p>	<div style="text-align: center;">  Light Emitting Diodes (LEDs) </div>	<div style="text-align: center;">  Incandescent Light Bulbs </div>	<div style="text-align: center;">  Compact Fluorescents (CFLs) </div>
<p style="text-align: center;">Life Span (average)</p>	50,000 hours	1,200 hours	8,000 hours
<p style="text-align: center;">Watts of electricity used (equivalent to 60 watt bulb).</p> <p>LEDs use less power (watts) per unit of light generated (lumens). LEDs help reduce greenhouse gas emissions from power plants and lower electric bills</p>	6 - 8 watts	60 watts	13-15 watts
<p style="text-align: center;">Kilo-watts of Electricity used (30 Incandescent Bulbs per year equivalent)</p>	329 KWh/yr.	3285 KWh/yr.	767 KWh/yr.
<p style="text-align: center;">Annual Operating Cost (30 Incandescent Bulbs per year equivalent)</p>	\$32.85/year	\$328.59/year	\$76.65/year

<p>Environmental Impact</p>	 <p>Light Emitting Diodes (LEDs)</p>	 <p>Incandescent Light Bulbs</p>	 <p>Compact Fluorescents (CFLs)</p>
<p>Contains the TOXIC Mercury</p>	<p>No</p>	<p>No</p>	<p>Yes - Mercury is very toxic to your health and the environment</p>
<p>RoHS Compliant</p>	<p>Yes</p>	<p>Yes</p>	<p>No - contains 1mg-5mg of Mercury and is a major risk to the environment</p>
<p>Carbon Dioxide Emissions (30 bulbs per year)</p> <p>Lower energy consumption decreases: CO2 emissions, sulfur oxide, and high-level nuclear waste.</p>	<p>451 pounds/year</p>	<p>4500 pounds/year</p>	<p>1051 pounds/year</p>

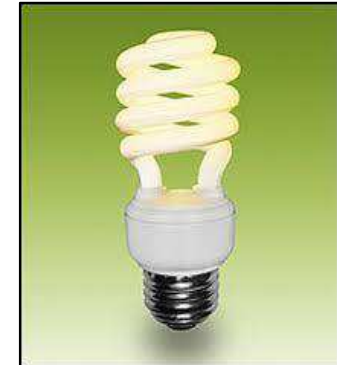
Important Facts



Light Emitting Diodes
(LEDs)



Incandescent
Light Bulbs



Compact Fluorescents
(CFLs)

Sensitivity to low temperatures	None	Some	Yes - may not work under negative 10 degrees Fahrenheit or over 120 degrees Fahrenheit
Sensitive to humidity	No	Some	Yes
On/off Cycling Switching a CFL on/off quickly, in a closet for instance, may decrease the lifespan of the bulb.	No Effect	Some	Yes - can reduce lifespan drastically
Turns on instantly	Yes	Yes	No - takes time to warm up
Durability	Very Durable - LEDs can handle jarring and bumping	Not Very Durable - glass or filament can break easily	Not Very Durable - glass can break easily
Heat Emitted	3.4 btu's/hour	85 btu's/hour	30 btu's/hour
Failure Modes	Not typical	Some	Yes - may catch on fire, smoke, or emit an odor

Light Output



Light Emitting Diodes
(LEDs)



Incandescent
Light Bulbs



Compact Fluorescents
(CFLs)

Lumens	Watts	Watts	Watts
450	4-5	40	9-13
800	6-8	60	13-15
1,100	9-13	75	18-25
1,600	16-20	100	23-30
2,600	25-28	150	30-55

This chart is courtesy of <http://www.designrecycleinc.com/led%20comp%20chart.html>