




Comparison Chart LED Lights vs. Incandescent Light Bulbs vs. CFL's

 <p>Distributor of High Quality LED Lighting</p> <p>Tom Rietz 480-222-8300 Ext. 333 TRietz@CanterraHomes.com</p> <p style="text-align: center;"><u>Energy Efficiency</u> <u>& Energy Costs</u></p>	 <p style="text-align: center;">Light Emitting Diodes (LED's)</p>	 <p style="text-align: center;">Incandescent Light Bulbs</p>	 <p style="text-align: center;">Compact Fluorescents (CFL's)</p>
<p style="text-align: center;">Life Span (average)</p>	<p style="text-align: center;">Up to 50,000 hours</p>	<p style="text-align: center;">1,000 hours</p>	<p style="text-align: center;">5,000 hours</p>
<p style="text-align: center;">Watts of Electricity Used (equivalent to 60 watt bulb).</p> <p>LED's use less power (watts) per unit of light generated (lumens). LED's help reduce greenhouse gas emissions from power plants & lower electric bills</p>	<p style="text-align: center;">6 - 8 watts</p>	<p style="text-align: center;">60 watts</p>	<p style="text-align: center;">13-15 watts</p>
<p style="text-align: center;">Kilowatts of Electricity Used (30 Incandescent Bulbs per year equivalent)</p>	<p style="text-align: center;">329 KWh / year</p>	<p style="text-align: center;">3,285 KWh / year</p>	<p style="text-align: center;">767 KWh / year</p>
<p style="text-align: center;">Annual Operating Cost * (30 Incandescent Bulbs per year equivalent)</p>	<p style="text-align: center;">\$32.85 / year</p>	<p style="text-align: center;">\$328.59 / year</p>	<p style="text-align: center;">\$76.65 / year</p>



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Environmental Impact

**Light Emitting Diodes
(LED's)**

**Incandescent
Light Bulbs**

**Compact Fluorescents
(CFL's)**

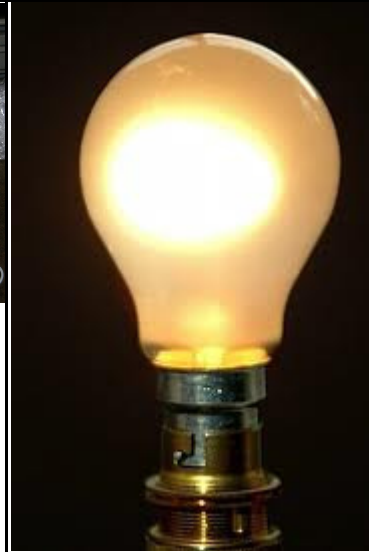
Contains the TOXIN Mercury	No	No	Yes - Mercury is very toxic to your health & the environment
RoHS Compliant	Yes	Yes	No - contains 1mg-5mg of Mercury & is a major risk to the environment
Carbon Dioxide (CO₂) Emissions (30 bulbs per year) Lower energy consumption decreases: Carbon Dioxide (CO ₂) emissions, sulfur oxide, & high-level nuclear waste.	451 pounds / year	4,500 pounds / year	1,051 pounds / year



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Important Facts



**Light Emitting Diodes
(LED's)**

**Incandescent
Light Bulbs**

**Compact Fluorescents
(CFL's)**

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, decreases 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 – LED's can handle jarring & 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

CANTERRA
LIGHTING

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Light Output

**Light Emitting Diodes
(LED's)**

**Incandescent
Light Bulbs**

**Compact Fluorescents
(CFL's)**

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

*Based on \$.10/KWh