

Empowering you to make  
smart energy choices



## Energy-Efficient Lighting for Your Home



# Why Choose Energy-Efficient Lighting?

SWITCHING FROM TRADITIONAL INCANDESCENT LIGHTBULBS to compact fluorescent lights (CFLs) or light emitting diodes (LEDs) is an effective, easy change every American can make to reduce energy use at home, save money on energy bills and prevent greenhouse gas emissions that contribute to global climate change.

Lighting accounts for nearly 20% of the average home's electric bill. Compared to traditional incandescent bulbs, ENERGY STAR® certified CFLs and LEDs use between 75-80% less energy, last at least 6 years longer, and produce less heat, making them safer to operate while cutting energy costs associated with home cooling. You will spend more time enjoying a quick return on your investment and less time on the ladder changing bulbs. Better yet, if every home in America replaced just one incandescent lightbulb with an ENERGY STAR certified bulb, in one year we would save enough energy to light more than 3 million homes and prevent greenhouse gas emissions equivalent to those of more than 800,000 cars.

## Choosing a CFL or LED that's Right for You

Once you make the smart choice to use energy-efficient lighting, you need to decide which bulb to buy. There is an energy-efficient bulb for nearly every application in your home. To make an informed decision, there are a number of things to think about such as location, fixture, brightness and color.

**Earning the ENERGY STAR** means products meet strict energy efficiency guidelines set by the US Environmental Protection Agency. Lighting products that have earned the ENERGY STAR deliver exceptional features, while using less energy.



## ENERGY STAR® Certified Lighting Products

	Harp Shade	Clamp Shade	Pendant Fixture	Ceiling Fixture	Ceiling Fan	Wall Sconce	Recessed Can	Track Lighting	Outdoor Covered	Outdoor Exposed
<b>For This Fixture</b>										
<b>Choose This Bulb</b>	   	 	   	    	   	  	 	 	   	 
<b>Key</b>	LED	Mini Spiral	Standard Spiral	Quad Spiral	A Line	Globe	Candle	Flood	Outdoor Reflector/Flood	Directional LED

NOTE: If your fixture is on a dimmer or three-way switch, you'll need to select a bulb that is designed to dim or for three way use. Using regular CFLs or LEDs on dimmers will cause premature product failure and may create a fire hazard.

ENERGY STAR certified lighting products come in a variety of colors and brightness to create the right mood, ambiance and atmosphere. Selecting the same bulb color and manufacturer is recommended to achieve consistent light color in a room.

## KELVINS — Color of Light

Color temperature affects the appearance of home furnishings. The Kelvin scale measures the temperature of color in light.

Kelvin	2700K-3000K	3500K-4100K	5000K-6500K
Color	“Warm or Soft White” a warm glow	“Neutral or Cool White” a radiant, crisp glow	“Sunlight or Daylight” a vibrant glow
Impact	Cozy, inviting, relaxing mood	Clean, efficient, fast paced ambiance	Alert, active, bright atmosphere
Usage	<ul style="list-style-type: none"> <li>• Living room</li> <li>• Family room</li> <li>• Bedroom</li> <li>• Restaurants</li> <li>• Lobbies</li> </ul>	<ul style="list-style-type: none"> <li>• Kitchen</li> <li>• Bathroom</li> <li>• Hobby room</li> <li>• Basement</li> <li>• Garage</li> </ul>	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Detail oriented activities</li> <li>• Hospitals</li> </ul>
Compares to	Standard incandescent bulbs	Halogen bulbs	Average daylight

**LUMENS: THE NEW WAY TO SHOP FOR LIGHT**

Choose Your Next Lightbulb for the Brightness You Want.

**Lighting Facts** Per Bulb

Brightness **800 lumens**

Estimated Yearly Energy Cost **\$1.57**  
Based on 3 hrs/day, 11 c/kWh  
Cost depends on rates and use

Life **9 years**  
Based on 3 hrs/day

Light Appearance **Warm** to **Cool**  
2700K

Energy Used **13 watts**

Lumens (Brightness)

~450 ~800 ~1100 ~1600

40 60 75 100

Traditional Incandescent Watts

U.S. DEPARTMENT OF ENERGY

For the greatest savings, choose ENERGY STAR® light bulbs.

## LUMENS — Brightness of Light

Shopping by lumens is more important than shopping by watts when choosing which energy-efficient bulb to purchase. Watts measure the amount of energy required to light products, whereas lumens measure the amount of light produced. The more lumens in a lightbulb, the brighter the light.

## Using the Lighting Facts Label

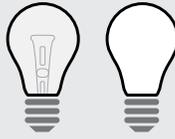
To help consumers better understand the switch from watts to lumens, the Federal Trade Commission requires a new product label for lightbulbs called the Lighting Facts label. It will help you buy a lightbulb to suit your needs. Like the nutrition label on food products, the Lighting Facts label helps consumers understand what they are really purchasing. The label clearly provides the brightness (lumens), color of the light (Kelvins), lifetime and estimated annual operating cost.

## Energy-Efficient Bulb Tips

- For greater savings, replace as many incandescent bulbs with CFLs or LEDs as possible.
- Installing CFLs in poorly ventilated or closed fixtures may significantly shorten their lifetime.
- If installed outdoors, CFLs should be protected from moisture by using the proper fixture.
- CFLs may cause interference with remote control devices (TV, VCR) or cordless phones. Simply move the bulb away from the affected appliance.

## The New Lighting Standard

Did you know that the Federal government passed the 2007 Energy Independence and Security Act (EISA) that requires an increase in the efficiency of products such as lightbulbs? These requirements state that 100, 75, 60 and 40-watt bulbs meet these basic efficiency levels beginning January 1, 2012, with a complete phase-out of inefficient products occurring in January 2014. In place of these standard inefficient incandescent bulbs, manufacturers have been working since 2007 to provide consumers with alternate solutions that deliver much greater energy savings. Among these options are CFLs and LEDs.



Which incandescent bulbs will no longer be made?

Current Wattage	Date (not made after)
100w	January 1, 2012
75w	January 1, 2013
60w and 40w	January 1, 2014

*The law requires increased efficiency.  
It does not ban incandescents or mandate CFLs.*

## More Efficient Technology with LEDs

LEDs look somewhat like traditional incandescent lightbulbs and are the latest in energy-efficient lighting technology. They are estimated to save up to 80% more energy than standard incandescent bulbs with a lifespan of over 25,000 hours, or at least 20 years. While they are the most expensive lightbulb, discounts are available through Energize CT and prices are dropping as they become more commonplace.

### Benefits of LEDs:

- Excellent quality—color and brightness of light appears more like that of traditional incandescent bulbs.
- Long lifetime.
- Light up immediately, even in cold weather.
- Do not contain mercury.
- Made of a durable plastic instead of glass.
- Remain cool to the touch.
- Compatibility with dimmers and occupancy sensors.

### What precautions should I take when using CFLs in my home?

For the most up-to-date information on CFL disposal and clean-up, visit [www.epa.gov/cflcleanup](http://www.epa.gov/cflcleanup)

## CFL Information and Resources for Connecticut Residents

Connecticut residents can find state-specific information for hazardous waste collection, recycling, mercury content and basic information related to CFLs by visiting the Department of Energy and Environmental Protection (DEEP) website at [www.ct.gov/deep](http://www.ct.gov/deep) or by calling 860-424-3000.

### Recycling can be found at retailers such as:

The Home Depot, Lowes and IKEA

### Special Pricing Brought to You by Energize CT

You can find reduced pricing on CFLs and LEDs at most Connecticut lighting retailers. For more information visit [EnergizeCT.com/dealfinder](http://EnergizeCT.com/dealfinder).

For more information on energy-saving programs and services supported by Energize Connecticut, call 1-877-WISE-USE  
Or visit: [EnergizeCT.com](http://EnergizeCT.com)



Empowering you to make  
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Connecticut  
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