

Aura Light: From a Light Bulb Manufacturer to an Energy Savings Solutions Provider

By: Michael Fernandez, Michele Erazo
TheCasesolutions.com



The collage contains several small images and text blocks:

- Worth it or not?**: A small image showing a comparison of light bulbs.
- Fluorescent bulbs**: Text describing the benefits of fluorescent bulbs, including energy savings and long life.
- LED bulbs**: Text describing the benefits of LED bulbs, including energy savings and long life.
- Energy Savings Solutions**: Text describing the company's services and products.
- Other Types of Bulbs**: A small image showing various types of light bulbs.
- Energy Savings Solutions**: Text describing the company's services and products.
- Energy Savings Solutions**: Text describing the company's services and products.

Aura Light: From a Light Bulb Manufacturer to Energy Savings Solutions Provider

By: Michael Fernandez, Michele Erazo
TheCasesolutions.com



What is LED?

LED stands for Light Emitting Diode. It is a semiconductor device that converts electrical energy into light. LEDs are used in a wide variety of applications, from small indicator lights to large-scale lighting systems.

Traditional Bulbs

Traditional incandescent bulbs are made of glass and contain a filament. They are known for their warm, yellowish glow. However, they are inefficient, converting most of the energy into heat rather than light. They also have a short lifespan compared to LED bulbs.

How an LED

LEDs are made of semiconductor materials. When an electric current is applied, the electrons in the material recombine with holes, releasing energy in the form of light. This process is much more efficient than the incandescence of traditional bulbs.

Incandescent Bulbs

Incandescent bulbs are made of glass and contain a filament. They are known for their warm, yellowish glow. However, they are inefficient, converting most of the energy into heat rather than light. They also have a short lifespan compared to LED bulbs.

Other Types of LEDs

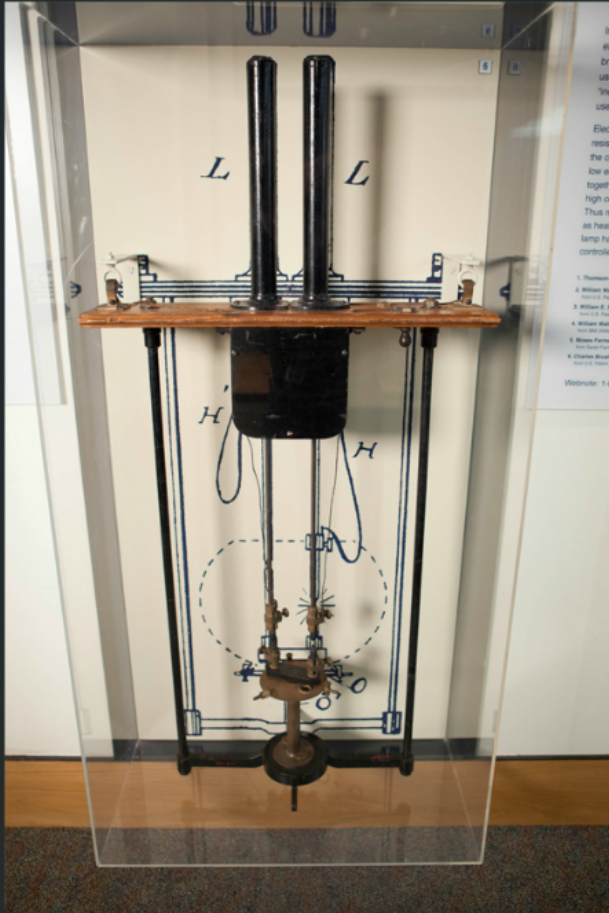
There are several types of LEDs, including surface-mount LEDs, through-hole LEDs, and power LEDs. Each type has its own unique characteristics and applications.

LED Bulbs vs. CFL (Compact Fluorescent)

LED bulbs are more energy-efficient and have a longer lifespan than CFL bulbs. They also do not contain mercury, making them safer for the environment. However, LED bulbs are currently more expensive than CFL bulbs.

Item	Value
Item 1	Value 1
Item 2	Value 2
Item 3	Value 3

Where It All Started



- In 1835, British pioneers invented the first initial idea for an arc lamp or electrical lamp.
- It was an innovation from the creation of the electrical battery during the early 1800's.
- It was composed of copper wires attached to the battery and a carbonized bamboo filament in order to create a conductor for heat energy.
- The lifespan of the light was several hours long and was too bright to be of any practical use as well as being considerably hot.

Thomas Edison

- Patented the *incandescent* light bulb model in the 1880's.
- Instead of a carbonized bamboo filament, a heat resistant conductor was instead used as a replacement.
- Model has been more compacted and simplified as well as the power source being more easily accessible.
- Light source lasted a considerable amount of time longer than its previous successor.

