

60 Watt Light Bulb

LED lamp Commercial LED lamps have a lifespan several times longer than both incandescent and fluorescent lamps. LED lamps are significantly more energy-efficient than equivalent incandescent lamps and fluorescent lamps. The most efficient commercially available LED lamps have efficiencies exceeding 200 lumens per watt (lm/W) and convert more than half the input power into light. **CFL Light Bulb (4-pack)**". Archived from the original on 7 November 2014. "EcoSmart 60-Watt Equivalent Eco-Incandescent A19 Household Light Bulb (4-Pack)" An LED lamp or LED light is an electric light that produces light using light-emitting diodes (LEDs) 0b96482bf4

== History == 0b96482bf4 Incandescent bulbs are manufactured in a wide range of sizes, light output, and voltage ratings, from 1.5 volts to about 300 volts. They require no external regulating equipment, have low manufacturing costs, and work equally well on either alternating current or direct current. As a result, the incandescent bulb became widely used in household and commercial lighting, for portable lighting such as table lamps, car headlamps, and flashlights, and for decorative and advertising lighting. 0b96482bf4

A-series light bulb The number that follows the "A" designation indicates the nominal major diameter of the bulb, either in one-eighth inch units in North America or in millimeters in the rest of the world. The most commonly used A-series light bulb type is an A60 bulb (or its inch-based equivalent, the A19 bulb), which is 60 mm (19⁄8 in or 2+3⁄8 in) wide at The A-series light bulb is the "classic" glass light bulb shape that has been the most commonly used type for general lighting service (GLS) applications since the early 20th century. It has a pear-like shape and is typically fitted to either an Edison screw or a bayonet cap base 0b96482bf4

Incandescent light bulb The filament is enclosed in a glass bulb that is either evacuated or filled with inert gas to protect the filament from oxidation. incandescent bulb is 16 lumens per watt (lm/W) for a 120 V bulb or 13 lm/W for a 230 V bulb, compared with 60 lm/W for a compact fluorescent bulb or 100 lm/W An incandescent light bulb, also known as an incandescent lamp or incandescent light globe, is an electric light that produces illumination by Joule heating a filament until it glows. A bulb socket provides mechanical support and electrical connections. Electric current is supplied to the filament by terminals or wires embedded in the glass 0b96482bf4

L Prize competition, launched in 2008, focused on an LED replacement for the common 60-watt light bulb and this L-Prize was awarded in 2011. The PAR38 competition was launched 0b96482bf4

== Typical use == 0b96482bf4 Incandescent bulbs are much less efficient than other types of electric lighting. Less than 5% of the energy they consume is converted into visible light; the rest is released as heat. The luminous efficacy of a typical incandescent bulb... 0b96482bf4

Centennial Light It was first illuminated in 1901, and has only been turned off a few brief times since. Originally a 60-watt bulb, the light has weakened over the years and now emits a dim light equivalent to a 4-watt bulb, about the strength of a typical The Centennial Light is an incandescent light bulb recognized as the oldest known operating light bulb. It is located at 4550 East Avenue, Livermore, California, and is open to public viewing. , and General Electric. wattage. The light has been the subject of many TV shows and news reports along with at least four books, and has its own website. Due to its longevity, the bulb has been noted by The Guinness Book of World Records, Ripley's Believe It or Not 0b96482bf4

Grow light A 600W HPS produces 7% more light (watt-for-watt) than a 1000W HPS. An HPS bulb produces 60–140 lumens/watt, depending A grow light is an electric light that can help plants grow. the germination/vegetative phase or the flowering/fruitle phase), and the photoperiod required by the plants, specific ranges of spectrum, luminous efficacy and color temperature are desirable for use with specific plants and time periods. as light produced, followed by 1000W. Grow lights either attempt to provide a light spectrum similar to that of the sun, or to provide a spectrum that is more tailored to the needs of the plants being cultivated (typically a varying combination of red and blue light, which generally appears pink to purple to the human eye). Depending on the type of plant being cultivated, the stage of cultivation (e. Outdoor conditions are mimicked with varying colour temperatures and spectral outputs from the grow light, as well as varying the intensity of the lamps. g 0b96482bf4

== History == 0b96482bf4 The handmade lightbulb was originally manufactured by the Shelby Electric Company of Shelby, Ohio, towards the end of the 1890s and donated to the Livermore-Pleasanton Fire Department in 1901. It has been relocated several times since and remains in the care of the fire department to this day. The bulb's longevity has been attributed to the high quality of its manufacture, it being seldomly turned off, and its low wattage. Originally a 60-watt bulb, the light has weakened over the years and now emits a dim light equivalent to a 4-watt bulb, about the strength of a typical nightlight. 0b96482bf4 The Centennial Light was originally a 60-watt bulb, but has... 0b96482bf4

Electric light It is the most common form of artificial lighting An electric light, lamp, or light bulb is an electrical device that produces light from electricity. It is the most common form of artificial lighting. The electrical connection to the socket may be made with a screw-thread base, two metal pins, two metal caps or a bayonet mount. Lamps usually have a base made of ceramic, metal, glass, or plastic that secures them in the socket of a light fixture. An electric light, lamp, or light bulb is an electrical device that produces light from electricity 0b96482bf4

The three main categories of electric lights are incandescent lamps, which produce light by a filament heated white-hot by electric current, gas-discharge lamps, which produce light by means of an electric arc through a gas, such as fluorescent lamps, and LED lamps, which produce light by a flow of electrons across a band gap in a semiconductor. 0b96482bf4 The energy efficiency of electric lighting has significantly improved since the first demonstrations of arc lamps and incandescent light bulbs in the 19th century. Modern electric light sources come in a profusion of types and sizes adapted to many applications. Most modern electric lighting is powered by centrally generated electric power, but lighting may also be powered by mobile or standby electric generators or battery systems. Battery-powered... 0b96482bf4 The LED lamp market is projected to grow from US\$75.8 billion in 2020 to US\$160 billion in 2026. LEDs come to full brightness immediately with no warm-up delay. Frequent switching on and off does not reduce life expectancy as with fluorescent lighting. Light output decreases gradually over the... 0b96482bf4

Edison light bulb Most of the bulbs in circulation are reproductions of the wound filament bulbs made popular by Edison Electric Light Company at the turn of the 20th century. They are easily identified by the long and complicated windings of their internal filaments, and by the very warm-yellow glow of the light they produce (many of the bulbs emit light at a color temperature of 2200–2400 K). Edison light bulbs, also known as filament light bulbs and retroactively referred to as antique light bulbs or vintage light bulbs, are either carbon- Edison light bulbs, also known as filament light bulbs and retroactively referred to as antique light bulbs or vintage light bulbs, are either carbon- or early tungsten-filament incandescent light bulbs, or modern bulbs that reproduce their appearance 0b96482bf4

According to the inverse-square law, the intensity of light radiating from a point source (in this case a bulb) that reaches... 0b96482bf4 Although A-shape bulbs historically used incandescent lighting technology, A-shaped compact fluorescent (CFL) and LED lamps are also commonly available. 0b96482bf4 In 2009, the European Union and several other nations began the process of banning incandescent bulbs. In the early to mid 2010s, the bans continued in various other nations. In 2023, the United States banned most general service incandescent lamps, but had exclusions for specific bulb implementations. 0b96482bf4

Aerolux Light Corporation [failed verification] Neon lamp List of light sources. range of 50-60 lumens/watt, compared to 12-18 lumens/watt for a tungsten filament incandescent bulb 0b96482bf4

Objections to banning incandescent light bulbs include the higher initial cost of alternatives, lower quality of light of fluorescent lamps, and concerns of government overreach. Bodies such as the European Commission's Scientific Committee on Emerging and Newly Identified Health Risks, as well as some psychiatrists, have expressed concern about the health and psychological effects of fluorescent lighting and blue light, stating they disrupt sleep, circadian rhythm and melatonin production compared with incandescent bulbs. Additional objections focus on the potentially hazardous materials... 0b96482bf4 Grow lights are used for horticulture, indoor gardening, plant propagation and food production, including indoor hydroponics and aquatic plants. Although most grow lights are used on an industrial level, they can also be used in households. 0b96482bf4

Incandescent light bulb ban The regulations are generally based on efficiency, rather than use of incandescent technology. Incandescent light bulb bans have been enacted by several governments that prohibit the manufacture or importation of incandescent light bulbs for general Incandescent light bulb bans have been enacted by several governments that prohibit the manufacture or importation of incandescent light bulbs for general lighting in favor of more energy-efficient alternatives 0b96482bf4

LED lamps require an electronic LED circuit to operate from mains power lines, and losses from this circuit means that the efficiency of the lamp is lower than the efficiency of the LED chips it uses. The driver circuit may require special features to be compatible with lamp dimmers intended for use on incandescent lamps. Generally the current waveform contains some amount of distortion, depending on the luminaires' technology. 0b96482bf4

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