



## **Climacento Green Tech**

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LEDs have been nicknamed in the electric industry as the fourth light after candles, light bulbs and fluorescent lamps to stress the importance that these new lights are going to gain in the next few years.

LEDs are becoming more and more popular and while the manufacturers increase their production and the cost comes down, being the only real disadvantage of LEDs at present, LED are expected to become the principle lighting device of the near future.

LEDs (Light-emitting diodes) are semiconductors that emit light when a current passes through them. They are smaller, lighter, more durable and consume less electricity than conventional lighting. They are also more robust and light up very quickly. They are already commonly used in traffic lights, traffic signals, cell phones, etc and recently have started making their way to household lighting equipment.

With an average life span of 40 to 50,000 hours, LEDs are about 40 times more durable than conventional light bulbs and 7 times than fluorescent lamps. The average life span of fluorescent tubes is rated, in fact, about 10 to 15,000 hours and incandescent light bulbs at 1,000 – 2,000 hours. If a LED is used for 10 hours every day it would last more than 10 years and reduce the power consumption of about 75 - 85%.

LEDs are also shock resistant and therefore difficult to damage with external shock and subject to a slow failure by dimming over time, rather than the abrupt burnout of incandescent bulbs. Unlike fluorescent lamps that burn out quickly when cycled frequently, LEDs have no problem to frequent on-off cycling and need no time before restarting. They also produce a cool light so no energy is wasted in heat production like it happens with conventional lights.

Last but not least, LEDs do not contain mercury so they are once more a green, eco-friendly futuristic solution. Awareness of the potential represented by these lights introduced only in 1990 in the colored version and in 1996 in the white one is clearly demonstrated by companies like Toshiba Lighting & Technology Corp., Panasonic Electric Works Co and many other giant electric manufacturers that are planning to increase steadily their production of LED.

Our range of LED lights goes from 1W to 40W and are available in the following types: AC or DC, cold or warm, bulb type, tube type, down lights (on ceiling) type, spot lights and flood lights covering all the indoor and outdoor application for domestic and commercial installations. 1W LED light gives equivalent power to a 10W conventional bulb. 4W is equivalent to 40W, 9 to 100W. The performance can be even higher depending on the number of LED applied. Our floodlights are available in 16 and 40 W equivalent to 250W and up to 500W.

***Bigger sizes available in request.***