



Quality of Light and Cost Savings from CFL

Overview

CFL technology and product design has improved dramatically in recent years. It is well documented that, in the past, CFLs have taken too long to warm up, have not worked with dimmer switches, and have produced a different kind of light to incandescent bulbs, appearing cold and harsh, with a tendency to flicker. This is no longer the case. In fact CFLs use at least 2/3 less energy than standard bulbs to provide the same amount of light and, good quality CFLs, can now produce the same quality, brightness, and colour of light as traditional incandescent bulbs.

In order to guarantee an acceptable level of service with any compact fluorescent lamp, the European Union (EU) introduced a minimum requirement on warm-up times and the number of switching cycles. A CFL with amalgam should reach 60% of its full light output within 120 seconds and achieve a minimum of 30,000 switching cycles before failure. Not only are MEGAMAN® CFLs in compliance with the ErP directive, that sets out minimum requirements for eco-design of energy-related products, these lamps are far beyond ErP requirements - MEGAMAN®'s Compact Fluorescent Lamps offer a life expectancy of up to 15,000 hours and switching cycle of up to 600,000.

Light Quality

MEGAMAN®'s unique INGENIUM® technology applies advanced integrated circuit technology to each lamp to enhance operating efficiency, shorten preheating times and increase the luminous efficacy of their CFL range. This gives MEGAMAN® CFLs 7% more light output than other low-energy lamps of the same wattage at a preheating time of less than 1 second.

New, better designs also mean that modern CFLs work on a high frequency, so that no flickering is detectable to the human eye. In addition to this, the MEGAMAN® range encompasses a wide spectrum of colour temperatures, from 2700K Warmwhite through to 6500K Daylight. This allows consumers to select the colour temperature of their energy saving lamp based on their preference. For those wanting to dim their lights, MEGAMAN® has invented the world's first linear dimming CFL that is operable on conventional dimmer switches. Alternatively, a 4-step dimming system is available.

Cost Savings

The main criticism levelled against CFLs is that they are more expensive per unit than traditional incandescent bulbs. Although this is generally true, CFLs deliver greater savings in the long run due to their higher energy efficiency and longer lifespan. MEGAMAN® CFLs have an extended operating life of up to 15,000 hours, which is up to 15 times longer than an average incandescent lamp. In addition, they have an improved switching cycle of 600,000 times, making them more durable. Users can therefore expect to save a significant amount of money over the lifespan of each MEGAMAN® CFL compared to using and replacing incandescent bulbs over the same timeframe.

