



Energy Efficient Lighting: Electronic Ballast Compact Fluorescent Lamps

One of the most common and readily available forms of energy efficient lighting, the electronic ballast compact fluorescent lamp provides high quality light (typically 85 CRI*) and long life (typically 10,000 hours of operation) at 75 to 80 percent less power usage than incandescent lamps. Electronic ballast compact fluorescent lamps also operate at a higher frequency than standard, magnetic ballast fluorescents, avoiding the hum and flicker associated with fluorescent lighting in the past. Utility Company and EPA savings estimates suggest that a 15W compact fluorescent will save over \$70.00 in lighting electrical, air conditioning and replacement costs versus a 75W incandescent over its five-year expected life in residential use.



This electronic ballast compact fluorescent uses only 15W to produce the light output of a 75W incandescent lamp. The shape and size is referred to as an R-30 lamp, made for recessed cans and track lighting. The rated life of this lamp is 10,000 hours, versus 750 to 1000 hours for the incandescent equivalent. Also available in a 23W R-40 version, providing the equivalent light output of a 100W incandescent R-40 lamp.



Electronic ballast “spiral” compact fluorescents have become very popular due to their symmetrical light output pattern, and the fact that the spiral dissipates heat better than earlier compact fluorescent tube shapes, extending lamp life. This type of lamp is available in a variety of light outputs and wattages, from a 7W spiral equaling a 30W to 35W incandescent, up to a 32W spiral, equaling the light output of a 150W incandescent. Rated life is 10,000 hours.



Electronic ballast compact fluorescent lamps are now available in a variety of shapes and styles, designed to look like standard incandescent lamps. These styles include the A-lamp (standard incandescent bulb shape), Torpedo (looks like a candelabra lamp), G-lamp (globe shaped) and others. These energy saving lamps will fit into the same sockets as their incandescent counterparts.

***CRI** – **C**olor **R**endering **I**ndex, the ability of a light source to illuminate an object so that the viewer sees the object in its true colors. Sunlight is the standard with a CRI of 100, standard (magnetic ballast / older tube type fluorescents) have a CRI of 60 to 65.

For more information, and to purchase energy efficient lighting contact:

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