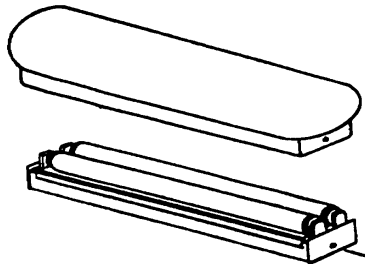




Energy Efficient Lighting: Electronic Ballast Fluorescent Fixtures



Electronic ballast fluorescent fixtures use 30 to 50 percent less energy than standard (magnetic ballast) fluorescents, have higher color rendition (75 to 85 CRI*), have higher lumen maintenance (90% of light original light level is maintained, vs. 50% for magnetic ballast), and operate without the hum and flicker typically associated with fluorescent fixtures. The key to these advantages is the electronic ballast which operates at a much higher frequency than magnetic ballasts, and the T8 lamps (8 eighths of an inch in diameter versus a standard T12 lamp at 12 eighths of an inch diameter) which are coated with special tri-phosphors to provide the higher color rendering light and are rated to last 20,000 hours. Electronic ballasts for are rated to last 100,000 hours.



This “Cloud” fixture can be wall or ceiling mounted, with a typical use as a bathroom over-vanity fixture. A 4’ fixture using two T8 lamps and an electronic ballast uses 62W of electricity to produce the light of a 95W magnetic ballast / T12 fluorescent or replaces the “Hollywood” vanity fixture with six or eight 60W incandescent globe bulbs using 360W to 480W. The core of this fixture is a fluorescent strip fixture which can be used independently of the “Cloud” lens to provide indirect lighting over kitchen cabinets or alcoves.



Ceiling mounted fixtures using electronic ballast circular fluorescent lamps come in a variety of styles and shapes. The typical ceiling dome fixture uses only 22W of electricity to provide the light output of over 100W of incandescent light. Light is evenly diffused and much cooler than incandescent fixtures, saving additional air conditioning expenses. These circular lamps typically have a CRI of 85, high lumen maintenance and a rated life of 20,000 hours for the replaceable lamps and 50,000 hours for the ballast.



This “Torchiere” Floor Lamp uses two concentric circular electronic ballast fluorescent lamps to provide a 3-way operation of 55W-32W-23W equaling 250W-150W-100W incandescent light output. This cool-operating fixture avoids the fire hazards and air conditioning heat load of the standard halogen floor lamp.

***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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All Eco-Smart products are approved by the nonprofit Florida House Institute for Sustainable Development