

## The Advantages of Magnetic Induction Lamps:

- Long lifespan due to the lack of electrodes - between 65,000 and 100,000 hours depending on the lamp model;
- Very high energy conversion efficiency of between 62 and 90 Lumens/watt [higher wattage lamps are more energy efficient];
- High power factor due to the low loss in high frequency electronic ballasts which are between 95% and 98% efficient;
- Minimal Lumen depreciation (declining light output with age) compared to other lamp types as filament evaporation and depletion is absent (see graph below);
- "Instant-on" and hot re-strike, unlike most conventional lamps used in commercial/industrial lighting applications (Sodium vapor and Metal Halides);
- Environmentally friendly as induction lamps use less energy, and generally use less mercury per hour of operation than conventional lighting due to their long lifespan. The mercury is in a solid form and can be easily recovered if the lamp is broken, or for recycling at end-of-life (see Environmental Aspects Of Magnetic Induction Lamps<sup>[4]</sup>)

These benefits offer a considerable cost savings of between 35% and 55% in energy and maintenance costs for induction lamps compared to other types of lamps that they replace. In some applications, advanced energy savings technologies incorporated into the fixtures can provide energy savings as high as 75%.

## Induction Lamps Vs. LED Lamps:

While induction lamp technology has matured in the last few years, is often overlooked or underutilized in lighting applications since none of the major manufacturers promote induction lamps in any significant way. LED lighting seems to get the most "buzz" in the market as LEDs are promoted as the best alternative to conventional lighting due to their longevity. Induction lamps have a lifespan of 80,000 to 100,000 hours (depending on type and model), which is much longer than the typical high-power white LED lamp lifespan which is in the 50,000 to 55,000 range.