Fat Lux Light

Induction Lighting

Introduction to the benefits of Magnetic Induction Fluorescent Lighting

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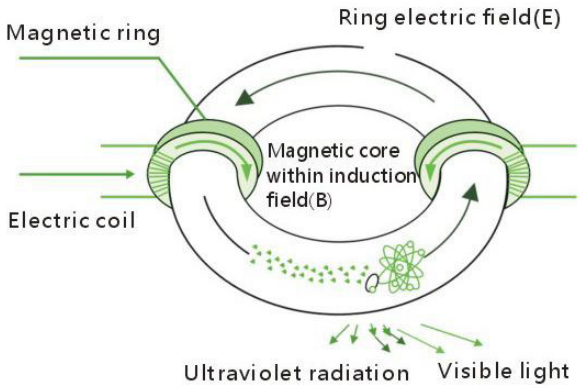
What is an Induction Lamp ?

The evolution of Magnetic Induction Lamp Systems is a significant advance in energy & environmental savings. Utilising the proven and established principles of electromagnetic induction & gas discharge lighting, it is a version of low frequency electrode-less lamp with a proven extreme long life of up to **100,000 hours**. Up to double that of LED.

The light is comprised of three components, the **ballast**, the **magnetic core** and **tube**.



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Why use Induction Lamps ?

- **Ultra Long Life**
  No electrode or filament to fail, usable life up to 100,000 hours.
  Electronic ballast and tube are tested and proven in 45°C plus environments.

- **Low Light Degradation**
  Lumen maintenance is more than 95% at 2000 hours and around 80% at 100,000 hours.
  High wattage LED luminaires can be badly affected by heat induced lumen depreciation.

- **Low Operating Temperature**
  The running temperature of components is less than 70℃ while HID lamps can be as high as 350℃.
  This can bring increased safety, environmental comfort & air-con cost reductions

- **High Power Factor**
  Latest technology in the electronic ballast provide a power factor of 0.98~0.99 for greater efficiency. (Power factor in Metal Halides, Mercury and Sodium luminaires can be as low as 0.65)
  Power Factor is increasingly important as energy companies move to KVA charging.

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Why use Induction Lamps ?

- **Wide Operating Voltage**
  90V to 265V, 277V, 347V available for extreme circumstances, automated electronic circuit protection system for areas or businesses with voltage fluctuations.

- **Instant Start & Restart**
  Instant start and restart even in low temperatures, avoiding delays found in other systems.
  Convenient operation, no lost time after power interruptions and allows switching to meet demand.

- **No Glare, Constant Light & Good CRI**
  Operating frequency is 140KHz to 250KHz, Colour Rendering Index (CRI) > 80 Ra and minimal glare gives visual comfort, no flicker, true colours & steady working light reducing fatigue

- **Wide Colour Temperature Range**
  2700K to 6500K available allows choice to suit purposes whether retail, commercial or industrial

- **No Liquid Mercury**
  Low Mercury levels present in solid (amalgam) form rather than liquid as often used in other formats is easily recycled. Lowest mercury levels over lifetime of all gas discharge lamps.

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Applications for Induction Lamps

- High Bay – 80w to 300w
- Flood Lights – 80w to 500w
- Low Bay for Food Industry or Industrial – 80w to 250w
- Ceiling Lights Recessed or Surface – 80w to 200w
- Car Park Light – 80w to 250w
- Wall Light – 80w to 150w
- Tunnel Light – 80w to 150w

Fat Lux Light are able to manufacture lights to your specific requirements and site needs.

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Light Source Characteristics

	Induction	LED	Metal Halide	High Pressure Sodium	Mercury Vapour
Nominal Life	75,000 - 100,000 hours	35,000 - 50,000 hours	6000 - 20,000 hours	24,000 hours	5,000 - 7,000 hours
Lumen Depreciation at 2000 hours	less than 5%	5 to 15%	30-40%	25-30%	30-40%
Operating Temperature	70°c	70°c	250-325°C	350°c	250-325°C
Colour Rendition	>80Ra	65 to 85Ra	65-90Ra	60Ra	50Ra
Restart	Instant	Instant	Cool down 5-10 min	Cool down 5-10 min	Cool down 5-10 min
Flicker	No	No	Yes	Yes	Yes
Glare	Minimal level	High Level	Low to Medium Level	Low Level	Low to Medium Level
Visual Comfort	Excellent	Poor	Fair	Fair	Fair
Output Range	Limits in Low Wattage	Limits in High Wattage	Wide in varying formats	Limited Range	Limited Range
Power Factor	>0.95	>0.95	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8

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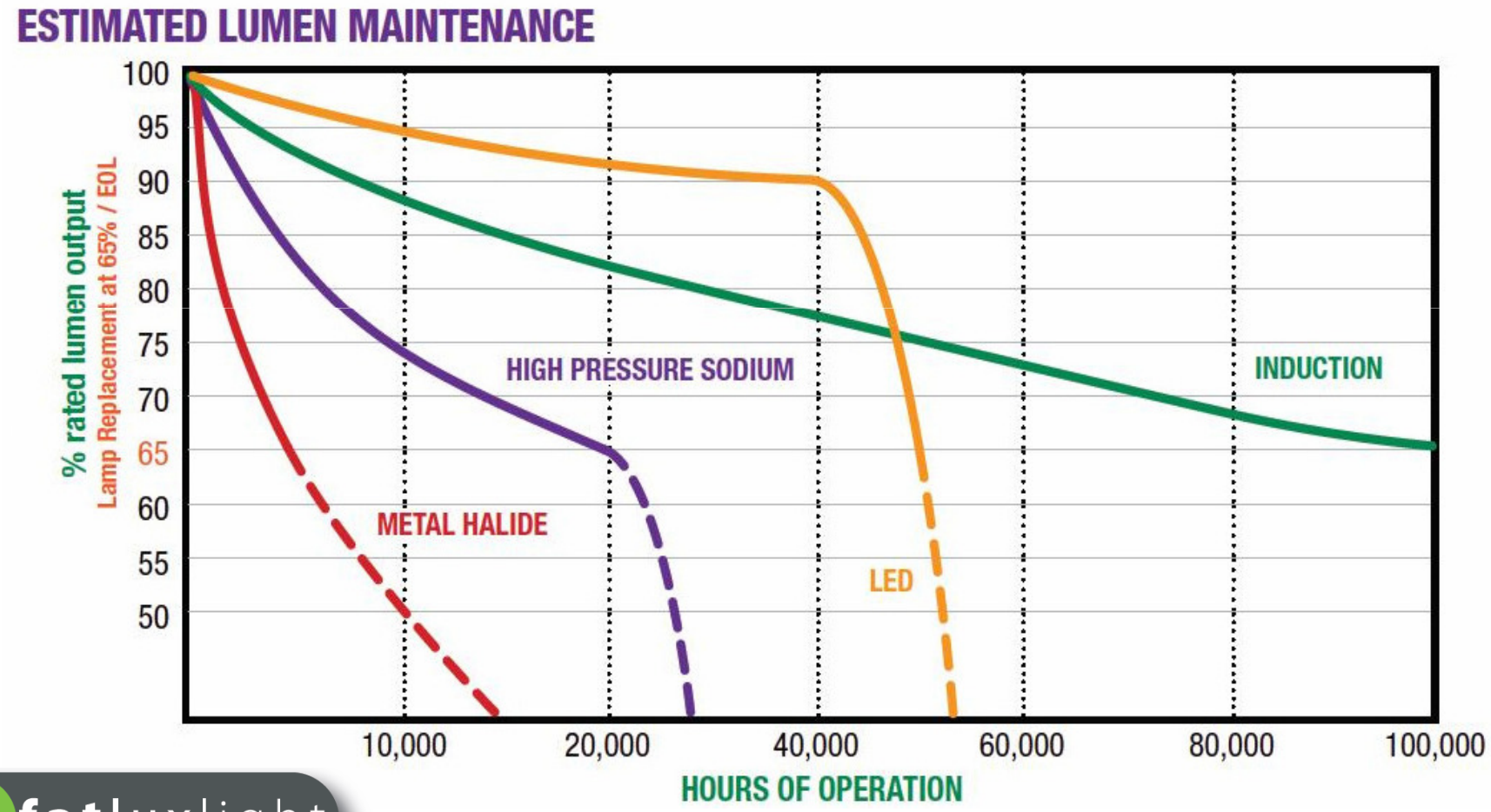

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