

LED射燈 LED Spot Light

- 優點
  - 將傳統石英燈更換或改造LED射燈，可節省 95%之耗電量。
  - LED射燈工作時溫度較傳統石英燈低50%。
  - 壽命較傳統石英燈長10倍。
- Advantages
  - Changed from Halogen Lamp to LED : 90% of power saved .
  - Working Temperature reduce almost 50% compare with Halogen Lamp .
  - 10 times lifespan extended .

傳統石英燈與LED射燈比較 Comparison between Halogen Lamp & LED

	Halogen Lamp	LED	優點 Benefits
總耗電量 (射燈+鎮流器) Total Power Consumption ( Spot Light + Ballast )	50W + 5W = 55W	3W ~ 7W	節省 Saved 95%
壽命 Lifespan	5,000 小時 hr	50,000 小時 hr	提高 Improved 1,000%
溫度 (射燈+鎮流器) Temperature ( Spot Light + Ballast )	120° c	50° c	減少空調耗電 Power Consumption of Air-Conditioning Reduced



MR11 - 1\*2W



MR16 - 3\*1W / 3\*2W



MR16 - 5\*1W

其他LED產品 Others LED Products



Compact Lamp - 7W



Down Light - 8W / 12W



Motion Sensor Tube



Globe Light



PAR Light

節能無極燈 Induction Lamp

- 優點
  - 將現有之高壓鈉燈或金鹵燈等高耗電燈具更換或改造為無極燈，可節省約 50%之耗電量。
  - 無極燈之水銀含量減少80%，對環境污染減至最低。
- Advantages
  - Replace existing High Pressure Sodium Lamp to Induction Lamp : 50% of power saved
  - Environmental friendly : 80% Mercury reduced .

傳統高壓鈉燈與節能無極燈比較

Comparison between Traditional Pressure Lamp & Induction Lamp

	無極燈 Induction Lamp	金鹵燈 Metal Halide Lamp	高壓鈉燈 High Pressure Sodium Lamp	高壓汞燈 High Pressure Mercury Lamp
替代光源 Replacement	40W / 80W	100W	100W	100W
	120W	250W	250W	250W
	150W / 200W	400W	400W	400W
壽命 Lifespan	100,000 小時 hr	6000 小時 hr	24,000 小時 hr	6000 小時 hr
流明 Lumen Efficacy	80lm / W	75lm / W	120lm / W	50lm / W
光衰 (2,000小時) Decay (2,000 hrs)	5%	40%	30%	45%
溫度 Temperature	80° c >	300° c >	350° c >	300° c >
顯色指數 CRI	>80 (Ra)	60-90 (Ra)	60 (Ra)	45 (Ra)
啓動時間 Starting Time	立即啓動 Immediately	10~15 分鐘 Mins	10~15 分鐘 Mins	10~15 分鐘 Mins

外制式無極燈技術 External Inductor Lamp

- 由感應線圈而產生的一個強力磁場 激發燈管內部的水銀原子(實體狀水銀) 發出紫外光，而紫外光透過三基色粉塗層發出可見之光線。
- The induction coil produces a very strong magnetic field which travels through the glass and excites the mercury atoms in the interior which are provided by a pellet of amalgam (a solid form of mercury) . The mercury atoms emit UV light and , just as in a fluorescent tube , the UV light is up-converted to visible light by the phosphor coating on the inside of the tube .

