



# **LED & TRADITIONAL LIGHTING CATALOGUE**

**2023-2024**

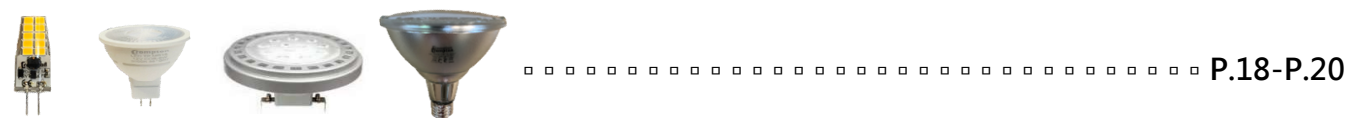
**Ver. 1.0**



## LED光管



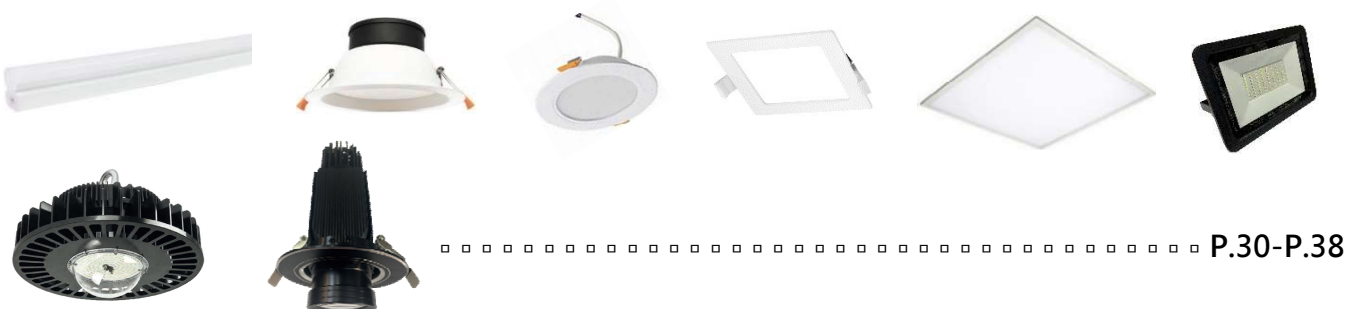
## 低壓LED光源



## 直氣LED光源



**LED Fitting    LED燈具**



## 傳統光源



## Other Lamps 其他光源



## Ballast 鎮流器





# Lighting Concept

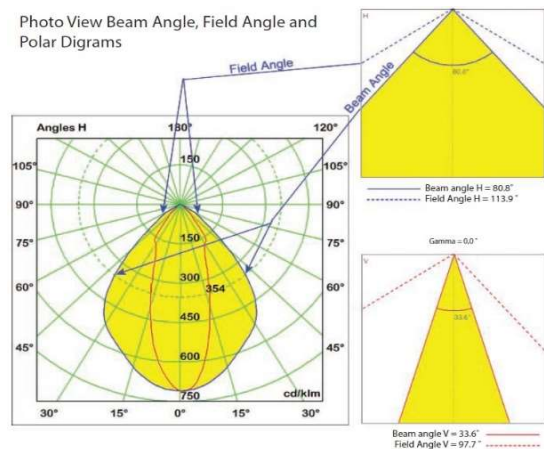
**Average Life** mentioned in this catalogue in hours is the lamp life being the expected time at which 50% of any large number of lamps reach the end of their individual lives. (\*The rated average life is not necessarily the average of all individual lamp lives. It may only be used for comparison, since operating conditions in practice may differ from the specified conditions used in life testing.)

**Luminous flux** is the measure of the perceived power of light. It reflects the varying sensitivity of the human eye to different wavelengths of light. Luminous flux is often used as an objective measure of the useful power emitted by a light source. Unit of luminous flux is lumen (lm). One lumen is defined as the luminous flux of light produced by a light source that emits one candela of luminous intensity over a solid angle of one steradian.

**Luminous intensity** is a measure of the wavelength-weighted power emitted by a light source in a particular direction per unit solid angle, based on the luminosity function, a standardized model of the sensitivity of the human eye. The unit of luminous intensity is the candela (cd).

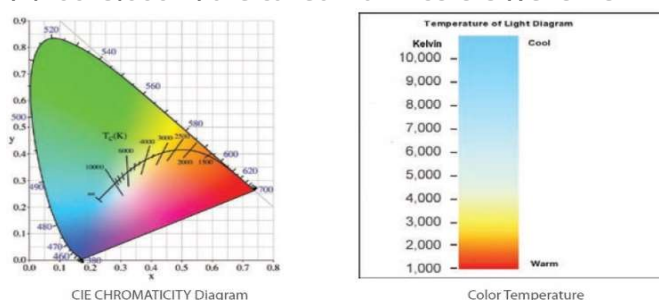
**Illuminance** is the total luminous flux incident on a surface, per unit area. It is a measure of how much the incident light illuminates the surface, wavelength-weighted by the luminosity function to correlate with human brightness perception. Illuminance is measured in lux (lx) or lumens per square metre ( $\text{cd} \cdot \text{sr} \cdot \text{m}^{-2}$ ).

**Beam angle** is a technical definition of the precise width of the amount of light being emitted by a specific light source. There are several types of beam angle definitions: very narrow spot, narrow spot, spot, narrow flood, flood, wide flood and very wide flood. To calculate Beam Angle, Field Angle in VH photometries : The beam angle is the opening in degrees width at 50% of the maximum intensity. The field angle is the opening in degrees at 10% of the maximum intensity.



**Color temperature** also called correlated color temperature is a characteristic of visible light that has important applications in lighting and other fields. The color temperature of a light source is the temperature of an ideal black body radiator that radiates light of comparable hue to that of the light source. Color temperature is conventionally stated in the unit of absolute temperature, the kelvin, having the unit symbol (K).

Color temperatures over 5,000K are called cool colors (blueish white), while lower color temperatures (2,700–3,000 K) are called warm colors (yellowish white through red).





# Lighting Concept

**Color rendering index (CRI)** is a quantitative measure of the ability of a light source to reproduce the colors of various objects faithfully in comparison with an ideal or natural light source. Light sources with a high CRI are desirable in color-critical applications such as photography and cinematography.



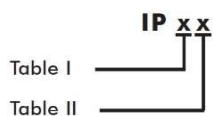
LOW CRI



HIGH CRI

### IP Ratings - Degree of protection to BS EN60529/DIN 0470

The IP classification system designates the degree of protection provided by an enclosure against solid objects or water ingress. Table I shows degrees of protection against solid objects, Table II shows degrees of protection against water.

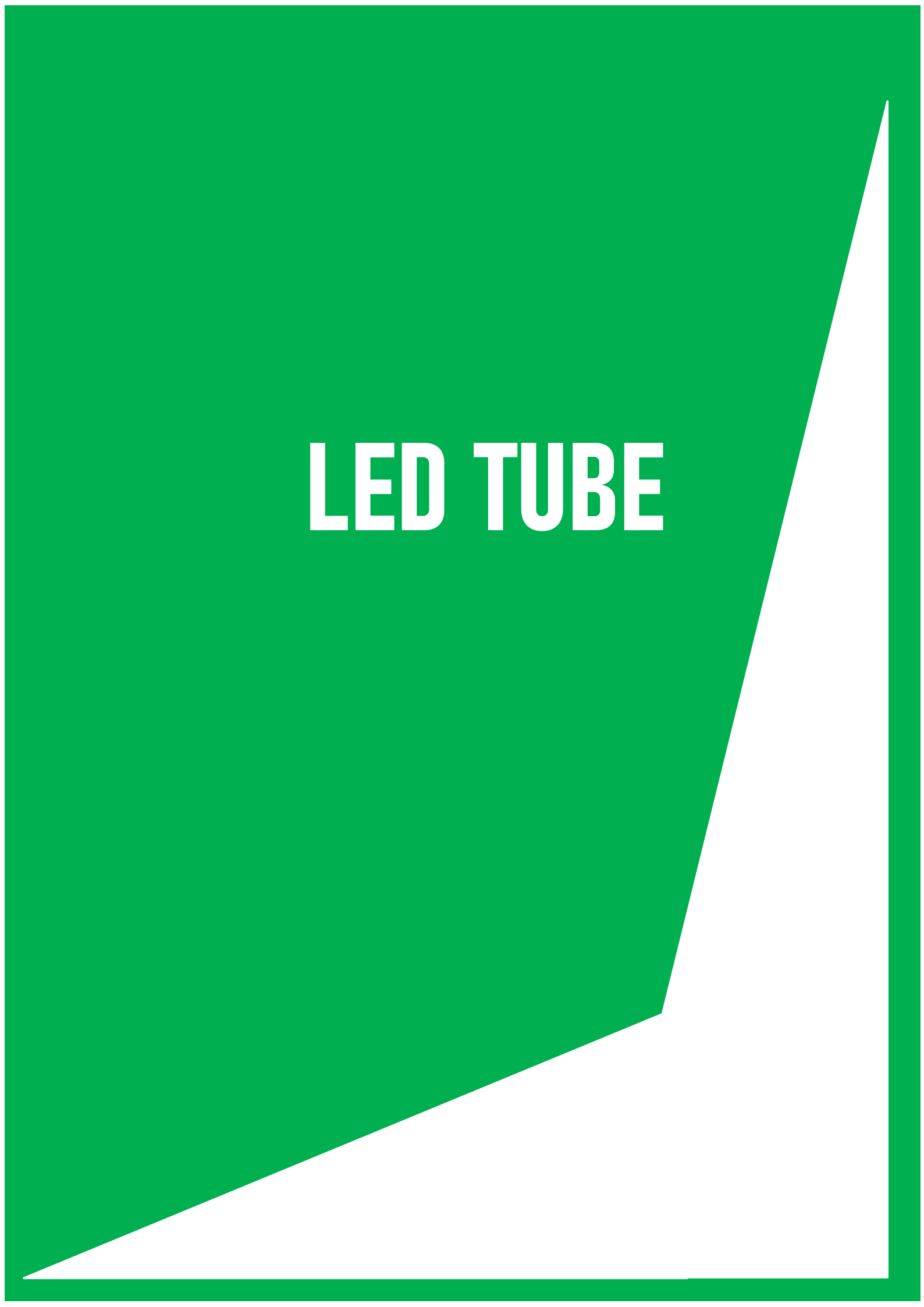


**Table I** (1st characteristic numeral)  
Degree of Protection against solid objects

|            |                                                                                   |
|------------|-----------------------------------------------------------------------------------|
| Digit<br>0 | Non-protected                                                                     |
| 1          | Protected against a solid object greater than 50mm, such as a hand.               |
| 2          | Protected against a solid object greater than 12.5mm, such as a finger.           |
| 3          | Protected against a solid object greater than 2.5mm, such as wire or a tool.      |
| 4          | Protected against a solid object greater than 1.0mm, such as wire or thin strips. |
| 5          | Dust-protected.<br>Prevents ingress of dust sufficient to cause harm.             |
| 6          | Dust tight.<br>No ingress of dust.                                                |

**Table II** (2nd characteristic numeral)  
Degree of Protection against water

|       |                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------|
| Digit |                                                                                                       |
| 0     | Non-protected                                                                                         |
| 1     | Protected against dripping water.                                                                     |
| 2     | Protected against dripping water when tilted up to 15°.                                               |
| 3     | Protected against spraying water at an angle of up to 60°.                                            |
| 4     | Protected against splashing water from any direction.                                                 |
| 5     | Protected against jets of water from any direction.                                                   |
| 6     | Protected against heavy seas or powerful jets of water.<br>Prevents ingress sufficient to cause harm. |
| 7     | Protected against the effects of temporary immersion in water.                                        |
| 8     | Protected against the effects of continuous immersion in water.                                       |

The background is a solid green color. A white geometric shape, resembling a large triangle or a parallelogram, is positioned on the right side, extending from the top right corner towards the bottom left. The text "LED TUBE" is centered in the green area.

**LED TUBE**

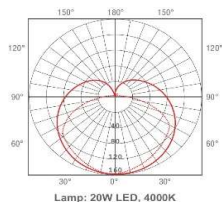
## LED T5 Tubular Lamps - GLASS G5

### T5 Direct Retrofit Type

No Re-wiring \*  
Broad compatibility  
with ballasts

無需重新佈線 \*  
廣泛兼容電子鎮流器

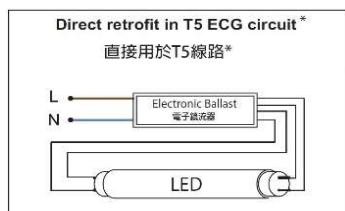
|     |   |     |
|-----|---|-----|
| 8W  | ~ | 14W |
| 12W | ~ | 21W |
| 16W | ~ | 28W |
| 20W | ~ | 35W |



| Model                | Wattage | Voltage  | Color Temp | Base | Type | Length | Lumen  | Efficacy |
|----------------------|---------|----------|------------|------|------|--------|--------|----------|
| LED F8T5/E/827/600   | 8W      | 220-240V | 2700K      | G5   | ECG  | 549mm  | 920lm  | 125lm/W  |
| LED F8T5/E/830/600   | 8W      | 220-240V | 3000K      | G5   | ECG  | 549mm  | 920lm  | 115lm/W  |
| LED F8T5/E/840/600   | 8W      | 220-240V | 4000K      | G5   | ECG  | 549mm  | 1020lm | 128lm/W  |
| LED F8T5/E/860/600   | 8W      | 220-240V | 6000K      | G5   | ECG  | 549mm  | 960lm  | 120lm/W  |
| LED F12T5/E/827/900  | 12W     | 220-240V | 2700K      | G5   | ECG  | 849mm  | 1500lm | 125lm/W  |
| LED F12T5/E/830/900  | 12W     | 220-240V | 3000K      | G5   | ECG  | 849mm  | 1500lm | 125lm/W  |
| LED F12T5/E/840/900  | 12W     | 220-240V | 4000K      | G5   | ECG  | 849mm  | 1530lm | 128lm/W  |
| LED F12T5/E/860/900  | 12W     | 220-240V | 6000K      | G5   | ECG  | 849mm  | 1270lm | 106lm/W  |
| LED F16T5/E/827/1200 | 16W     | 220-240V | 2700K      | G5   | ECG  | 1149mm | 2000lm | 125lm/W  |
| LED F16T5/E/830/1200 | 16W     | 220-240V | 3000K      | G5   | ECG  | 1149mm | 2000lm | 125lm/W  |
| LED F16T5/E/840/1200 | 16W     | 220-240V | 4000K      | G5   | ECG  | 1149mm | 2040lm | 128lm/W  |
| LED F16T5/E/860/1200 | 16W     | 220-240V | 6000K      | G5   | ECG  | 1149mm | 2080lm | 130lm/W  |
| LED F20T5/E/827/1500 | 20W     | 220-240V | 2700K      | G5   | ECG  | 1449mm | 2500lm | 125lm/W  |
| LED F20T5/E/830/1500 | 20W     | 220-240V | 3000K      | G5   | ECG  | 1449mm | 2000lm | 100lm/W  |
| LED F20T5/E/840/1500 | 20W     | 220-240V | 4000K      | G5   | ECG  | 1449mm | 2360lm | 118lm/W  |
| LED F20T5/E/860/1500 | 20W     | 220-240V | 6000K      | G5   | ECG  | 1449mm | 2400lm | 120lm/W  |

- Energy saving with low power consumption
- Good color rendition,  $Ra \geq 80$
- Smooth operation even at low temperature
- No mercury and hazardous substances
- Beam Angle:  $270^\circ$
- Full glass body
- Suitable for direct retrofit to 1x, 2x electronic ballast depending on brand / model.
- Compatible with T5 Fluorescent Emergency kit.
- Compatibility with 3x, 4x T5 fluo. Electronic ballast depending on brand / model.

- 極低電耗 · 省電
- 顯色度高,  $Ra \geq 80$
- 即使在低溫下也能穩定運作
- 無汞及有害物質
- 光輸出角度:  $270^\circ$
- 全玻璃管身
- 可直接用於1x, 2x 大部份牌子 / 型號的電子鎮流器
- 兼容T5光管的應急電池
- 可直接用於3x, 4x 部份牌子 / 型號的電子鎮流器



\*Comply to EN62776, EN55015, EN61000-3-2, EN61000-3-3, EN61547

\*符合 EN62776, EN55015, EN61000-3-2, EN61000-3-3, EN61547 標準

\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異



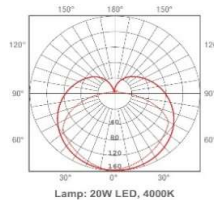
## LED T5 Tubular Lamps - GLASS G5

T5 AC Type

AC Input

AC直氣輸入

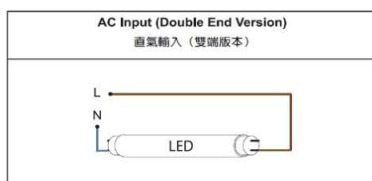
|     |       |
|-----|-------|
| LED | HE    |
| 8W  | ~ 14W |
| 12W | ~ 21W |
| 16W | ~ 28W |
| 20W | ~ 35W |



| Model                 | Wattage | Voltage  | Color Temp | Base | Type | Length | Lumen  | Efficacy |
|-----------------------|---------|----------|------------|------|------|--------|--------|----------|
| LED F8T5/AC/827/600   | 8W      | 220-240V | 2700K      | G5   | AC   | 549mm  | 900lm  | 113lm/W  |
| LED F8T5/AC/830/600   | 8W      | 220-240V | 3000K      | G5   | AC   | 549mm  | 800lm  | 100lm/W  |
| LED F8T5/AC/840/600   | 8W      | 220-240V | 4000K      | G5   | AC   | 549mm  | 1020lm | 128lm/W  |
| LED F8T5/AC/860/600   | 8W      | 220-240V | 6000K      | G5   | AC   | 549mm  | 960lm  | 120lm/W  |
| LED F12T5/AC/827/900  | 12W     | 220-240V | 2700K      | G5   | AC   | 849mm  | 1350lm | 113lm/W  |
| LED F12T5/AC/830/900  | 12W     | 220-240V | 3000K      | G5   | AC   | 849mm  | 1200lm | 100lm/W  |
| LED F12T5/AC/840/900  | 12W     | 220-240V | 4000K      | G5   | AC   | 849mm  | 1530lm | 128lm/W  |
| LED F12T5/AC/860/900  | 12W     | 220-240V | 6000K      | G5   | AC   | 849mm  | 1270lm | 106lm/W  |
| LED F16T5/AC/827/1200 | 16W     | 220-240V | 2700K      | G5   | AC   | 1149mm | 1800lm | 113lm/W  |
| LED F16T5/AC/830/1200 | 16W     | 220-240V | 3000K      | G5   | AC   | 1149mm | 1600lm | 100lm/W  |
| LED F16T5/AC/840/1200 | 16W     | 220-240V | 4000K      | G5   | AC   | 1149mm | 2040lm | 128lm/W  |
| LED F16T5/AC/860/1200 | 16W     | 220-240V | 6000K      | G5   | AC   | 1149mm | 2080lm | 130lm/W  |
| LED F20T5/AC/827/1500 | 20W     | 220-240V | 2700K      | G5   | AC   | 1449mm | 2250lm | 113lm/W  |
| LED F20T5/AC/830/1500 | 20W     | 220-240V | 3000K      | G5   | AC   | 1449mm | 2000lm | 100lm/W  |
| LED F20T5/AC/840/1500 | 20W     | 220-240V | 4000K      | G5   | AC   | 1449mm | 2560lm | 128lm/W  |
| LED F20T5/AC/860/1500 | 20W     | 220-240V | 6000K      | G5   | AC   | 1449mm | 2600lm | 130lm/W  |

- Energy saving with low power consumption
- Good color rendition,  $R_a \geq 80$
- Smooth operation even at low temperature
- No mercury and hazardous substances
- Beam Angle:  $270^\circ$
- Full glass body
- Voltage: 220-240V, 50/60Hz
- Direct 220-240V AC input, integral LED Driver

- 極低電耗，省電
- 顯色度高， $R_a \geq 80$
- 即使在低溫下也能穩定運作
- 無汞及有害物質
- 光輸出角度:  $270^\circ$
- 全玻璃管身
- 電壓：220-240 · 50 / 60Hz
- 直氣220-240V AC輸入，內置LED火牛



\*Comply to EN55015, EN61000-3-2, EN61000-3-3, EN61547  
\*符合 EN55015, EN61000-3-2, EN61000-3-3, EN61547 標準

## LED T5 Tubular Lamps - GLASS G5

T5 AC - HO Type



AC Input  
HPF  
High Efficacy

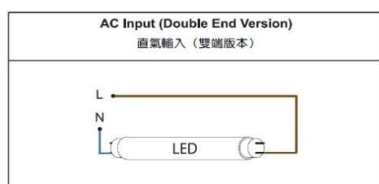
AC直氣輸入  
高功率  
高效能



| Model                   | Wattage | Voltage  | Color Temp | Base | Type | Length | Lumen  | Efficacy |
|-------------------------|---------|----------|------------|------|------|--------|--------|----------|
| LED F14T5/AC/830/600/L  | 14W     | 120-240V | 3000K      | G5   | AC   | 549mm  | 2030lm | 145lm/W  |
| LED F14T5/AC/840/600/L  | 14W     | 120-240V | 4000K      | G5   | AC   | 549mm  | 2100lm | 150lm/W  |
| LED F14T5/AC/860/600/L  | 14W     | 120-240V | 6000K      | G5   | AC   | 549mm  | 2170lm | 155lm/W  |
| LED F20T5/AC/830/900/L  | 20W     | 120-240V | 3000K      | G5   | AC   | 849mm  | 2900lm | 145lm/W  |
| LED F20T5/AC/840/900/L  | 20W     | 120-240V | 4000K      | G5   | AC   | 849mm  | 3000lm | 150lm/W  |
| LED F20T5/AC/860/900/L  | 20W     | 120-240V | 6000K      | G5   | AC   | 849mm  | 3100lm | 155lm/W  |
| LED F25T5/AC/830/1200/L | 25W     | 110-240V | 3000K      | G5   | AC   | 1149mm | 3630lm | 145lm/W  |
| LED F25T5/AC/840/1200/L | 25W     | 110-240V | 4000K      | G5   | AC   | 1149mm | 3750lm | 150lm/W  |
| LED F25T5/AC/860/1200/L | 25W     | 110-240V | 6000K      | G5   | AC   | 1149mm | 3880lm | 155lm/W  |
| LED F25T5/AC/830/1500/L | 25W     | 120-240V | 3000K      | G5   | AC   | 1449mm | 3630lm | 145lm/W  |
| LED F25T5/AC/840/1500/L | 25W     | 120-240V | 4000K      | G5   | AC   | 1449mm | 3750lm | 150lm/W  |
| LED F25T5/AC/860/1500/L | 25W     | 120-240V | 6000K      | G5   | AC   | 1449mm | 3880lm | 155lm/W  |

- Energy saving with low power consumption
- High efficacy up to 155lm/W
- Good color rendition,  $Ra \geq 80$
- Smooth operation even at low temperature
- No mercury and hazardous substances
- Beam Angle:  $270^\circ$
- Full glass body
- Wide Voltage range: 120-240V, 50/60Hz
- Direct 120-240V AC input, integral LED Driver
- Power Factor: 0.9

- 極低電耗，省電
- 效能最高可達 155lm/W
- 顯色度高， $Ra \geq 80$
- 即使在低溫下也能穩定運作
- 無汞及有害物質
- 光輸出角度:  $270^\circ$
- 全玻璃管身
- 寬電壓輸入：120-240V · 50 / 60Hz
- 直氣120-240V AC輸入，內置LED火牛
- 功率因數達0.9



\*Long Cap End for one side only  
\*只有單邊長燈頭

## LED T5 Tubular Lamps - GLASS G5

Global CC - Dimmable



EM lighting  
Extensive compatibility

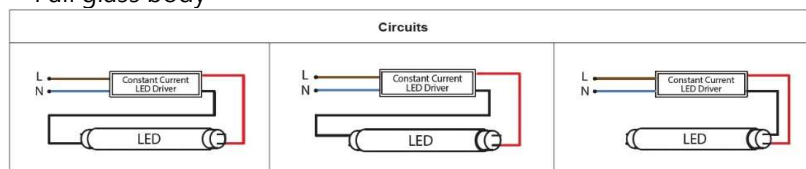
後備電池照明  
廣泛兼容



| Model                 | Wattage | Voltage | Current   | Color Temp | Base | Type      | Length | Lumen  | Efficacy |
|-----------------------|---------|---------|-----------|------------|------|-----------|--------|--------|----------|
| LED F8T5/CC/830/600   | 8W      | 21-25V  | C.C.350mA | 3000K      | G5   | UL Type C | 549mm  | 1000lm | 125lm/W  |
| LED F8T5/CC/840/600   | 8W      | 21-25V  | C.C.350mA | 4000K      | G5   | UL Type C | 549mm  | 1030lm | 129lm/W  |
| LED F8T5/CC/860/600   | 8W      | 21-25V  | C.C.350mA | 6000K      | G5   | UL Type C | 549mm  | 1050lm | 131lm/W  |
| LED F12T5/CC/830/900  | 12W     | 31-37V  | C.C.350mA | 3000K      | G5   | UL Type C | 849mm  | 1500lm | 125lm/W  |
| LED F12T5/CC/840/900  | 12W     | 31-37V  | C.C.350mA | 4000K      | G5   | UL Type C | 849mm  | 1530lm | 128lm/W  |
| LED F12T5/CC/860/900  | 12W     | 31-37V  | C.C.350mA | 6000K      | G5   | UL Type C | 849mm  | 1550lm | 129lm/W  |
| LED F16T5/CC/830/1200 | 16W     | 42-48V  | C.C.350mA | 3000K      | G5   | UL Type C | 1149mm | 2000lm | 125lm/W  |
| LED F16T5/CC/840/1200 | 16W     | 42-48V  | C.C.350mA | 4000K      | G5   | UL Type C | 1149mm | 2030lm | 127lm/W  |
| LED F16T5/CC/860/1200 | 16W     | 42-48V  | C.C.350mA | 6000K      | G5   | UL Type C | 1149mm | 2050lm | 128lm/W  |
| LED F20T5/CC/830/1500 | 20W     | 36-44V  | C.C.500mA | 3000K      | G5   | UL Type C | 1449mm | 2500lm | 125lm/W  |
| LED F20T5/CC/840/1500 | 20W     | 36-44V  | C.C.500mA | 4000K      | G5   | UL Type C | 1449mm | 2530lm | 127lm/W  |
| LED F20T5/CC/860/1500 | 20W     | 36-44V  | C.C.500mA | 6000K      | G5   | UL Type C | 1449mm | 2550lm | 128lm/W  |

- Two pin connection allow flexible wiring for light up and bi-directional tube installation
- Auto-correcting polarity protection
- 12 types of wiring combination in one tube
- External constant current driver (UL Type C)
- High efficacy up to 131lm/W
- Wattage and lumen can be adjusted by a driver with lower output current
- Suitable for LED emergency lighting
- Remote driver allows for superior heat dissipation performance and longer average lifetime
- Dimming and control system integration is possible based on selected driver model
- Beam Angle: 270°
- No mercury and hazardous substances
- Energy saving with low power consumption
- Good color rendition, Ra≥80
- Smooth operation even at low temperatures
- Full glass body

- 雙針連接允許靈活接線，用於點亮和雙向光管安裝
- 自動糾正極性保護
- 12種類型的接線組合於一身
- 需配合外置恆流電子鎮流器使用
- 效能高達131lm/W
- 低輸出電流的驅動器也可以調節功率和流明
- 適合應急電池使用
- 外置驅動器使光管有出色的散熱性能和更長的平均壽命
- 調光和控制系統可以實現基於特定的驅動器型號
- 光輸出角度: 270°
- 無汞及有害物質
- 極低電耗，省電
- 顯色度高, Ra≥80
- 即使在低溫下也能穩定運作
- 全玻璃管身



\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異

## LED T5 Tubular Lamps - GLASS G5

Global CC - Dimmable (HO)



EM lighting  
Extensive compatibility

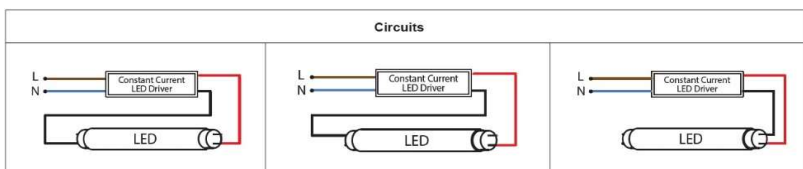
後備電池照明  
廣泛兼容



| Model                 | Wattage | Voltage | Current   | Color Temp | Base | Type      | Length | Lumen  | Efficacy |
|-----------------------|---------|---------|-----------|------------|------|-----------|--------|--------|----------|
| LED F12T5/CC/830/600  | 12W     | 31-37V  | C.C.350mA | 3000K      | G5   | UL Type C | 549mm  | 1500lm | 125lm/W  |
| LED F12T5/CC/840/600  | 12W     | 31-37V  | C.C.350mA | 4000K      | G5   | UL Type C | 549mm  | 1530lm | 128lm/W  |
| LED F12T5/CC/860/600  | 12W     | 31-37V  | C.C.350mA | 6000K      | G5   | UL Type C | 549mm  | 1550lm | 129lm/W  |
| LED F16T5/CC/830/900  | 16W     | 42-48V  | C.C.350mA | 3000K      | G5   | UL Type C | 849mm  | 2000lm | 125lm/W  |
| LED F16T5/CC/840/900  | 16W     | 42-48V  | C.C.350mA | 4000K      | G5   | UL Type C | 849mm  | 2030lm | 127lm/W  |
| LED F16T5/CC/860/900  | 16W     | 42-48V  | C.C.350mA | 6000K      | G5   | UL Type C | 849mm  | 2050lm | 128lm/W  |
| LED F20T5/CC/830/1200 | 20W     | 36-44V  | C.C.500mA | 3000K      | G5   | UL Type C | 1149mm | 2500lm | 125lm/W  |
| LED F20T5/CC/840/1200 | 20W     | 36-44V  | C.C.500mA | 4000K      | G5   | UL Type C | 1149mm | 2530lm | 127lm/W  |
| LED F20T5/CC/860/1200 | 20W     | 36-44V  | C.C.500mA | 6000K      | G5   | UL Type C | 1149mm | 2550lm | 128lm/W  |
| LED F28T5/CC/830/1500 | 28W     | 36-44V  | C.C.700mA | 3000K      | G5   | UL Type C | 1449mm | 3200lm | 114lm/W  |
| LED F28T5/CC/840/1500 | 28W     | 36-44V  | C.C.700mA | 4000K      | G5   | UL Type C | 1449mm | 3300lm | 118lm/W  |
| LED F28T5/CC/860/1500 | 28W     | 36-44V  | C.C.700mA | 6000K      | G5   | UL Type C | 1449mm | 3400lm | 121lm/W  |

- Two pin connection allow flexible wiring for light up and bi-directional tube installation
- Auto-correcting polarity protection
- 12 types of wiring combination in one tube
- External constant current driver (UL Type C)
- High efficacy up to 129lm/W
- Wattage and lumen can be adjusted by a driver with lower output current
- Suitable for LED emergency lighting
- Remote driver allows for superior heat dissipation performance and longer average lifetime
- Dimming and control system integration is possible based on selected driver model
- Beam Angle: 270°
- No mercury and hazardous substances
- Energy saving with low power consumption
- Good color rendition, Ra≥80
- Smooth operation even at low temperatures
- Full glass body

- 雙針連接允許靈活接線，用於點亮和雙向光管安裝
- 自動糾正極性保護
- 12種類型的接線組合於一身
- 需配合外置恆流電子鎮流器使用
- 效能高達129lm/W
- 低輸出電流的驅動器也可以調節功率和流明
- 適合應急電池使用
- 外置驅動器使光管有出色的散熱性能和更長的平均壽命
- 調光和控制系統可以實現基於特定的驅動器型號
- 光輸出角度: 270°
- 無汞及有害物質
- 極低電耗，省電
- 顯色度高, Ra≥80
- 即使在低溫下也能穩定運作
- 全玻璃管身



\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異



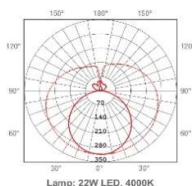
## LED T8 Tubular Lamps - GLASS G13

T8 AC Type



AC Input  
CCG Circuit

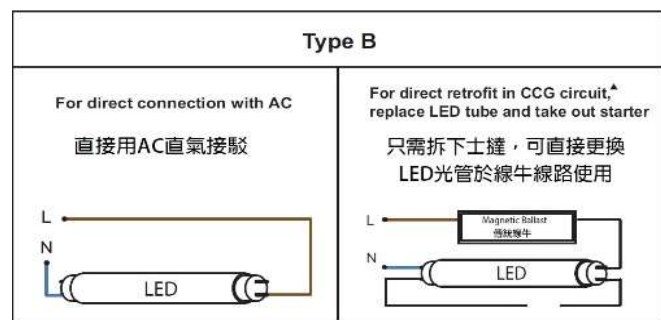
AC直氣輸入  
線牛線路



| Model                | Wattage | Voltage  | Color Temp | Base | Type   | Length | Lumen  | Efficacy |
|----------------------|---------|----------|------------|------|--------|--------|--------|----------|
| LED F8T8/830/G/600   | 8W      | 220-240V | 3000K      | G13  | AC/CCG | 588mm  | 720lm  | 90lm/W   |
| LED F8T8/835/G/600   | 8W      | 220-240V | 3500K      | G14  | AC/CCG | 588mm  | 928lm  | 116lm/W  |
| LED F8T8/840/G/600   | 8W      | 220-240V | 4000K      | G13  | AC/CCG | 588mm  | 760lm  | 95lm/W   |
| LED F8T8/860/G/600   | 8W      | 220-240V | 6000K      | G13  | AC/CCG | 588mm  | 800lm  | 100lm/W  |
| LED F12T8/830/G/900  | 12W     | 220-240V | 3000K      | G13  | AC/CCG | 894mm  | 1080lm | 98lm/W   |
| LED F12T8/840/G/900  | 12W     | 220-240V | 4000K      | G13  | AC/CCG | 894mm  | 1140lm | 103lm/W  |
| LED F12T8/860/G/900  | 12W     | 220-240V | 6000K      | G13  | AC/CCG | 894mm  | 1200lm | 109lm/W  |
| LED F16T8/830/G/1200 | 16W     | 220-240V | 3000K      | G13  | AC/CCG | 1198mm | 1440lm | 90lm/W   |
| LED F16T8/835/G/1200 | 16W     | 220-240V | 3500K      | G14  | AC/CCG | 1198mm | 1860lm | 116lm/W  |
| LED F16T8/840/G/1200 | 16W     | 220-240V | 4000K      | G13  | AC/CCG | 1198mm | 1520lm | 95lm/W   |
| LED F16T8/860/G/1200 | 16W     | 220-240V | 6000K      | G13  | AC/CCG | 1198mm | 1600lm | 100lm/W  |
| LED F22T8/830/G/1500 | 22W     | 220-240V | 3000K      | G13  | AC/CCG | 1500mm | 1980lm | 90lm/W   |
| LED F22T8/840/G/1500 | 22W     | 220-240V | 4000K      | G13  | AC/CCG | 1500mm | 2090lm | 95lm/W   |
| LED F22T8/860/G/1500 | 22W     | 220-240V | 6000K      | G13  | AC/CCG | 1500mm | 2200lm | 100lm/W  |
| LED F24T8/840/G/1500 | 24W     | 220-240V | 4000K      | G13  | AC/CCG | 1500mm | 3120lm | 130lm/W  |
| LED F24T8/860/G/1500 | 24W     | 220-240V | 6000K      | G13  | AC/CCG | 1500mm | 3120lm | 130lm/W  |

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Good color rendition,  $Ra \geq 80$
- Wide Operation Temperature:  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- No mercury and hazardous substances
- Direct retrofit for magnetic ballast circuit
- Beam Angle:  $280^{\circ}$
- Full glass body
- Voltage: 220-240V, 50/60Hz
- With high output version as option

- 極低電耗，省電
- 與傳統T8光管呎吋一樣，可直接更換
- 顯色度高， $Ra \geq 80$
- 寬工作溫度： $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- 無汞及有害物質
- 直接於線牛線路運作
- 光輸出角度： $280^{\circ}$
- 全玻璃管身
- 電壓：220-240 · 50 / 60Hz
- 備有高輸出版本供選購



\*Comply to EN55015, EN61000-3-2, EN61000-3-3, EN61547

\*符合 EN55015, EN61000-3-2, EN61000-3-3, EN61547 標準

\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異

\*Recommend to remove the parallel capacitor (if any) to achieve HPF

\*如固有燈具有安裝電容，需要拆下才可達至高功率效果

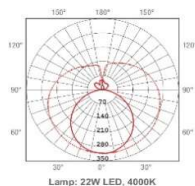
## LED T8 Tubular Lamps - GLASS G13

T8 AC Type (HO)



AC Input  
CCG Circuit

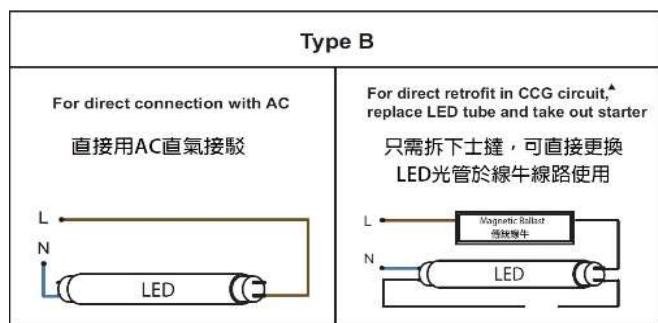
AC直氣輸入  
線牛線路



| Model                      | Wattage | Voltage  | Color Temp | Base | Type   | Length | Lumen  | Efficacy |
|----------------------------|---------|----------|------------|------|--------|--------|--------|----------|
| <b>HIGH OUTPUT VERSION</b> |         |          |            |      |        |        |        |          |
| LED F10T8/840/G/600        | 10W     | 220-240V | 4000K      | G13  | AC/CCG | 588mm  | 1050lm | 105lm/W  |
| LED F10T8/860/G/600        | 10W     | 220-240V | 6000K      | G13  | AC/CCG | 588mm  | 1100lm | 110lm/W  |
| LED F20T8/840/G/1200       | 20W     | 220-240V | 4000K      | G13  | AC/CCG | 1198mm | 2100lm | 105lm/W  |
| LED F20T8/860/G/1200       | 20W     | 220-240V | 6000K      | G13  | AC/CCG | 1198mm | 2100lm | 105lm/W  |
| LED F20T8/840/G/1500       | 20W     | 220-240V | 4000K      | G13  | AC/CCG | 1449mm | 2800lm | 140lm/W  |
| LED F20T8/860/G/1500       | 20W     | 220-240V | 6000K      | G13  | AC/CCG | 1449mm | 2800lm | 140lm/W  |

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Good color rendition,  $Ra \geq 80$
- Wide Operation Temperature:  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- No mercury and hazardous substances
- Direct retrofit for magnetic ballast circuit
- Beam Angle:  $280^{\circ}$
- Full glass body
- Voltage: 220-240V, 50/60Hz

- 極低電耗，省電
- 與傳統T8光管尺寸一樣，可直接更換
- 顯色度高， $Ra \geq 80$
- 寬工作溫度： $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- 無汞及有害物質
- 直接於線牛線路運作
- 光輸出角度： $280^{\circ}$
- 全玻璃管身
- 電壓：220-240 · 50 / 60Hz



\*Comply to EN55015, EN61000-3-2, EN61000-3-3, EN61547

\*符合 EN55015, EN61000-3-2, EN61000-3-3, EN61547 標準

\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異

\*Recommend to remove the parallel capacitor (if any) to achieve HPF

\*如固有燈具有安裝電容，需要拆下才可達至高功率效果

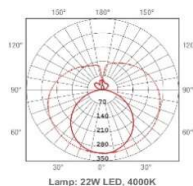
## LED T8 Tubular Lamps - GLASS G13

T8 AC Type (PC Version)



AC Input  
CCG Circuit

AC直氣輸入  
線牛線路



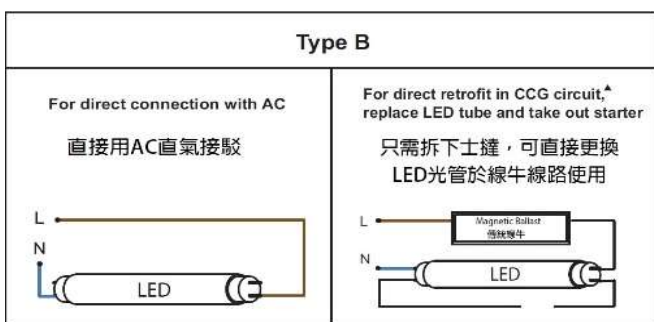
| Model                | Wattage | Voltage  | Color Temp | Base | Type   | Length | Lumen  | Efficacy |
|----------------------|---------|----------|------------|------|--------|--------|--------|----------|
| <b>PC VERSION</b>    |         |          |            |      |        |        |        |          |
| LED F8T8/860/G/600   | 8W      | 220-240V | 6000K      | G13  | AC/CCG | 588mm  | 750lm  | 94lm/W   |
| LED F16T8/860/G/1200 | 16W     | 220-240V | 6000K      | G13  | AC/CCG | 1198mm | 1700lm | 106lm/W  |

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Good color rendition,  $R_a \geq 80$
- Wide Operation Temperature:  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- No mercury and hazardous substances
- Direct retrofit for magnetic ballast circuit
- Beam Angle:  $280^{\circ}$
- Full glass body

\*\* This model also have Type A version (Single End)

- 極低電耗，省電
- 與傳統T8光管呎吋一樣，可直接更換
- 顯色度高， $R_a \geq 80$
- 寬工作溫度： $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- 無汞及有害物質
- 直接於線牛線路運作
- 光輸出角度： $280^{\circ}$
- 全玻璃管身

\*\*此型號亦有A款接駁(單端)



\*Comply to EN55015, EN61000-3-2, EN61000-3-3, EN61547

\*符合 EN55015, EN61000-3-2, EN61000-3-3, EN61547 標準

\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異

\*Recommend to remove the parallel capacitor (if any) to achieve HPF

\*如固有燈具有安裝電容，需要拆下才可達至高功率效果

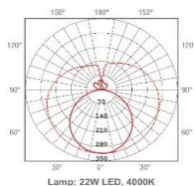
## LED T8 Tubular Lamps - GLASS G13

T8 AC Type (Type A)



AC Input  
CCG Circuit

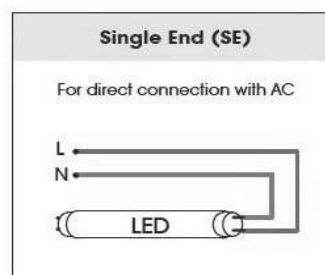
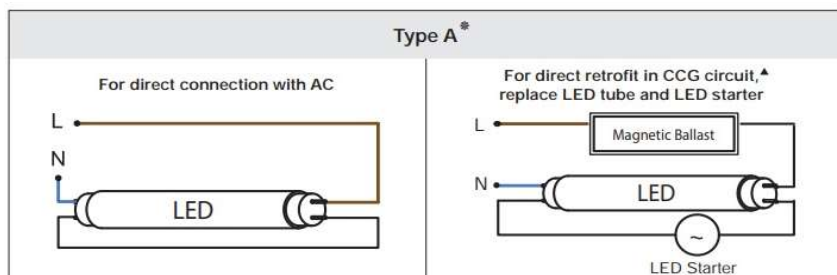
AC直氣輸入  
線牛線路



| Model                  | Wattage | Voltage  | Color Temp | Base | Type   | Length | Lumen  | Efficacy |
|------------------------|---------|----------|------------|------|--------|--------|--------|----------|
| LED F8T8/860/G/600 A   | 8W      | 220-240V | 6000K      | G13  | AC/CCG | 588mm  | 800lm  | 100lm/W  |
| LED F16T8/860/G/1200 A | 16W     | 220-240V | 6000K      | G13  | AC/CCG | 1198mm | 1600lm | 100lm/W  |
| LED F22T8/860/G/1500 A | 22W     | 220-240V | 6000K      | G13  | AC/CCG | 1449mm | 2200lm | 100lm/W  |

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Good color rendition,  $R_a \geq 80$
- Wide Operation Temperature:  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- No mercury and hazardous substances
- Direct retrofit for magnetic ballast circuit
- Beam Angle:  $280^{\circ}$
- Full glass body
- Voltage: 220-240V, 50/60Hz

- 極低電耗，省電
- 與傳統T8光管呎吋一樣，可直接更換
- 顯色度高， $R_a \geq 80$
- 寬工作溫度： $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- 無汞及有害物質
- 直接於線牛線路運作
- 光輸出角度： $280^{\circ}$
- 全玻璃管身
- 電壓：220-240 · 50 / 60Hz



\*Comply to EN62776, EN55015, EN61000-3-2, EN61000-3-3, EN61547

\*符合 EN62776, EN55015, EN61000-3-2, EN61000-3-3, EN61547 標準



## LED T8 Tubular Lamps - GLASS G13

Global CC - Dimmable

High Efficacy  
Extensive compatibility  
EM lighting

高效率  
廣泛兼容  
後備電池照明



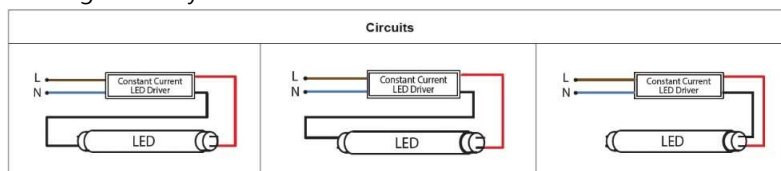
All-round lighting  
>280° beam spread



| Model                   | Wattage | Voltage | Current    | Color Temp | Base | Type      | Length | Lumen  | Efficacy |
|-------------------------|---------|---------|------------|------------|------|-----------|--------|--------|----------|
| LED F13T8/830/G/CC/600  | 13W     | 17-22V  | C.C.700mA  | 3000K      | G13  | UL Type C | 588mm  | 1755lm | 135lm/W  |
| LED F13T8/840/G/CC/600  | 13W     | 17-22V  | C.C.700mA  | 4000K      | G13  | UL Type C | 588mm  | 1820lm | 140lm/W  |
| LED F13T8/860/G/CC/600  | 13W     | 17-22V  | C.C.700mA  | 6000K      | G13  | UL Type C | 588mm  | 1820lm | 140lm/W  |
| LED F19T8/830/G/CC/900  | 19W     | 25-30V  | C.C.700mA  | 3000K      | G13  | UL Type C | 894mm  | 2565lm | 135lm/W  |
| LED F19T8/840/G/CC/900  | 19W     | 25-30V  | C.C.700mA  | 4000K      | G13  | UL Type C | 894mm  | 2660lm | 140lm/W  |
| LED F19T8/860/G/CC/900  | 19W     | 25-30V  | C.C.700mA  | 6000K      | G13  | UL Type C | 894mm  | 2660lm | 140lm/W  |
| LED F31T8/830/G/CC/1200 | 31W     | 28-33V  | C.C.1050mA | 3000K      | G13  | UL Type C | 1198mm | 4185lm | 135lm/W  |
| LED F31T8/840/G/CC/1200 | 31W     | 28-33V  | C.C.1050mA | 4000K      | G13  | UL Type C | 1198mm | 4340lm | 140lm/W  |
| LED F31T8/860/G/CC/1200 | 31W     | 28-33V  | C.C.1050mA | 6000K      | G13  | UL Type C | 1198mm | 4340lm | 140lm/W  |
| LED F41T8/830/G/CC/1500 | 41W     | 36-41V  | C.C.1050mA | 3000K      | G13  | UL Type C | 1500mm | 5535lm | 135lm/W  |
| LED F41T8/840/G/CC/1500 | 41W     | 36-41V  | C.C.1050mA | 4000K      | G13  | UL Type C | 1500mm | 5740lm | 140lm/W  |
| LED F41T8/860/G/CC/1500 | 41W     | 36-41V  | C.C.1050mA | 6000K      | G13  | UL Type C | 1500mm | 5740lm | 140lm/W  |

- Two pin connection allow flexible wiring for light up and bi-directional tube installation
- Auto-correcting polarity protection
- 12 types of wiring combination in one tube
- External constant current driver (UL Type C)
- High efficacy up to 134lm/W
- Wattage and lumen can be adjusted by a driver with lower output current
- Suitable for LED emergency lighting
- Remote driver allows for superior heat dissipation performance and longer average lifetime
- Dimming and control system integration is possible based on selected driver model
- Beam Angle: 280°
- No mercury and hazardous substances
- Energy saving with low power consumption
- Good color rendition, Ra≥80
- Smooth operation even at low temperatures
- Full glass body

- 雙針連接允許靈活接線，用於點亮和雙向光管安裝
- 自動糾正極性保護
- 12種類型的接線組合於一身
- 需配合外置恆流電子鎮流器使用
- 效能高達140lm/W
- 低輸出電流的驅動器也可以調節功率和流明
- 適於應急電池使用
- 外置驅動器使光管有出色的散熱性能和更長的平均壽命
- 調光和控制系統可以實現基於特定的驅動器型號
- 光輸出角度: 280°
- 無汞及有害物質
- 極低電耗，省電
- 顯色度高, Ra≥80
- 即使在低溫下也能穩定運作
- 全玻璃管身



\*Actual performance may vary depending on ballast output

\*實際性能會因應鎮流器輸出而異

## LED T8 Tubular Lamps - GLASS G13

T8 Type A / Type B Sensor



AC Input  
CCG Circuit  
EM lighting

AC直氣輸入  
線牛線路  
後備電池照明



• AC Input  
• CCG Circuit  
• Motion Sensor



| Model                  | Wattage | Voltage  | Color Temp | Base | Type  | Length | Lumen  | Efficacy |
|------------------------|---------|----------|------------|------|-------|--------|--------|----------|
| LED F9T8/830/G/S/600   | 9W      | 220-240V | 3000K      | G13  | A / B | 589mm  | 900lm  | 100lm/W  |
| LED F9T8/840/G/S/600   | 9W      | 220-240V | 4000K      | G13  | A / B | 589mm  | 945lm  | 105lm/W  |
| LED F9T8/860/G/S/600   | 9W      | 220-240V | 6000K      | G13  | A / B | 589mm  | 990lm  | 110lm/W  |
| LED F12T8/830/G/S/900  | 12W     | 220-240V | 3000K      | G13  | A / B | 895mm  | 1200lm | 100lm/W  |
| LED F12T8/840/G/S/900  | 12W     | 220-240V | 4000K      | G13  | A / B | 895mm  | 1260lm | 105lm/W  |
| LED F12T8/860/G/S/900  | 12W     | 220-240V | 6000K      | G13  | A / B | 895mm  | 1320lm | 110lm/W  |
| LED F22T8/830/G/S/1200 | 22W     | 220-240V | 3000K      | G13  | A / B | 1199mm | 2310lm | 105lm/W  |
| LED F22T8/840/G/S/1200 | 22W     | 220-240V | 4000K      | G13  | A / B | 1199mm | 2420lm | 110lm/W  |
| LED F22T8/860/G/S/1200 | 22W     | 220-240V | 6000K      | G13  | A / B | 1199mm | 2530lm | 115lm/W  |
| LED F22T8/830/G/S/1500 | 22W     | 220-240V | 3000K      | G13  | A / B | 1500mm | 2280lm | 105lm/W  |
| LED F22T8/840/G/S/1500 | 22W     | 220-240V | 4000K      | G13  | A / B | 1500mm | 2280lm | 105lm/W  |
| LED F22T8/860/G/S/1500 | 22W     | 220-240V | 6000K      | G13  | A / B | 1500mm | 2280lm | 105lm/W  |

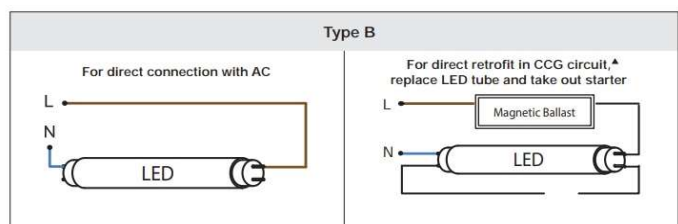
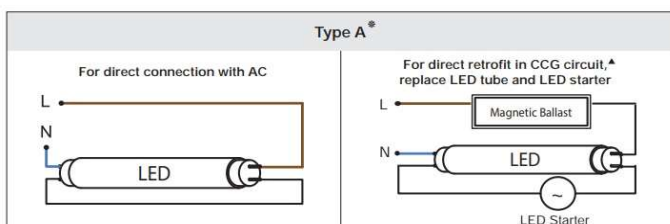
- No mercury and hazardous substances
- Beam Angle: 280°
- Full glass body
- Good color rendition, Ra≥80

- 無汞及有害物質
- 光輸出角度: 280°
- 全玻璃管身
- 顯色度高, Ra≥80

## SENSOR SPECIFICATIONS

- Sensor type: Microwave radar
- Sensor distance: ~6m
- Standby time: 30s
- Standby power: 9W>3W, 16W>4W
- Sensor detection angle: 120°

- 感應類型: 微波雷達
- 感應距離: ~6米
- 待機時間: 30秒
- 備用電源: 9W>3W, 12W>4W, 22W>4W
- 感應角度: 120°



\*實際性能會因應鎮流器輸出而異

## LED T8 Tubular Lamps G13

T8 Special Color - Meat Display



AC Input  
CCG Circuit

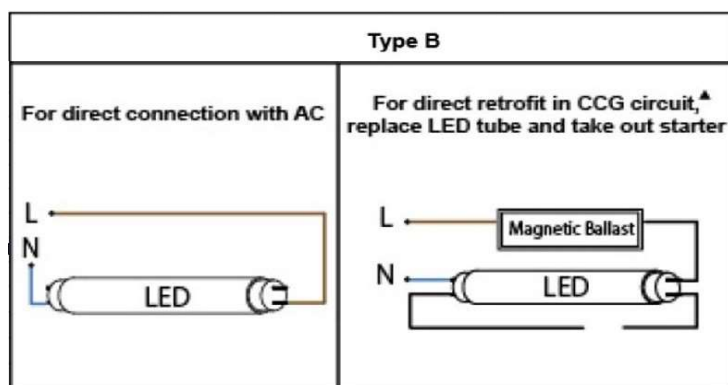
AC直氣輸入  
線牛線路



| Model                   | Wattage | Voltage  | Color      | Base | Length | Lumen  | Ra  |
|-------------------------|---------|----------|------------|------|--------|--------|-----|
| LED F22T8/925/G/1200/FM | 22W     | 220-240V | Fresh meat | G13  | 1198mm | 1550lm | >90 |
| LED F24T8/925/G/1500/FM | 24W     | 220-240V | Fresh meat | G13  | 1500mm | 1700lm | >90 |

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Direct retrofit for magnetic ballast circuit
- Suitable for direct AC input and LED emergency lighting
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Beam Angle: 280°
- Glass body with plastic protection sleeve
- Good color rendition, Ra≥90
- For better fresh food appearance and discoloration prevention

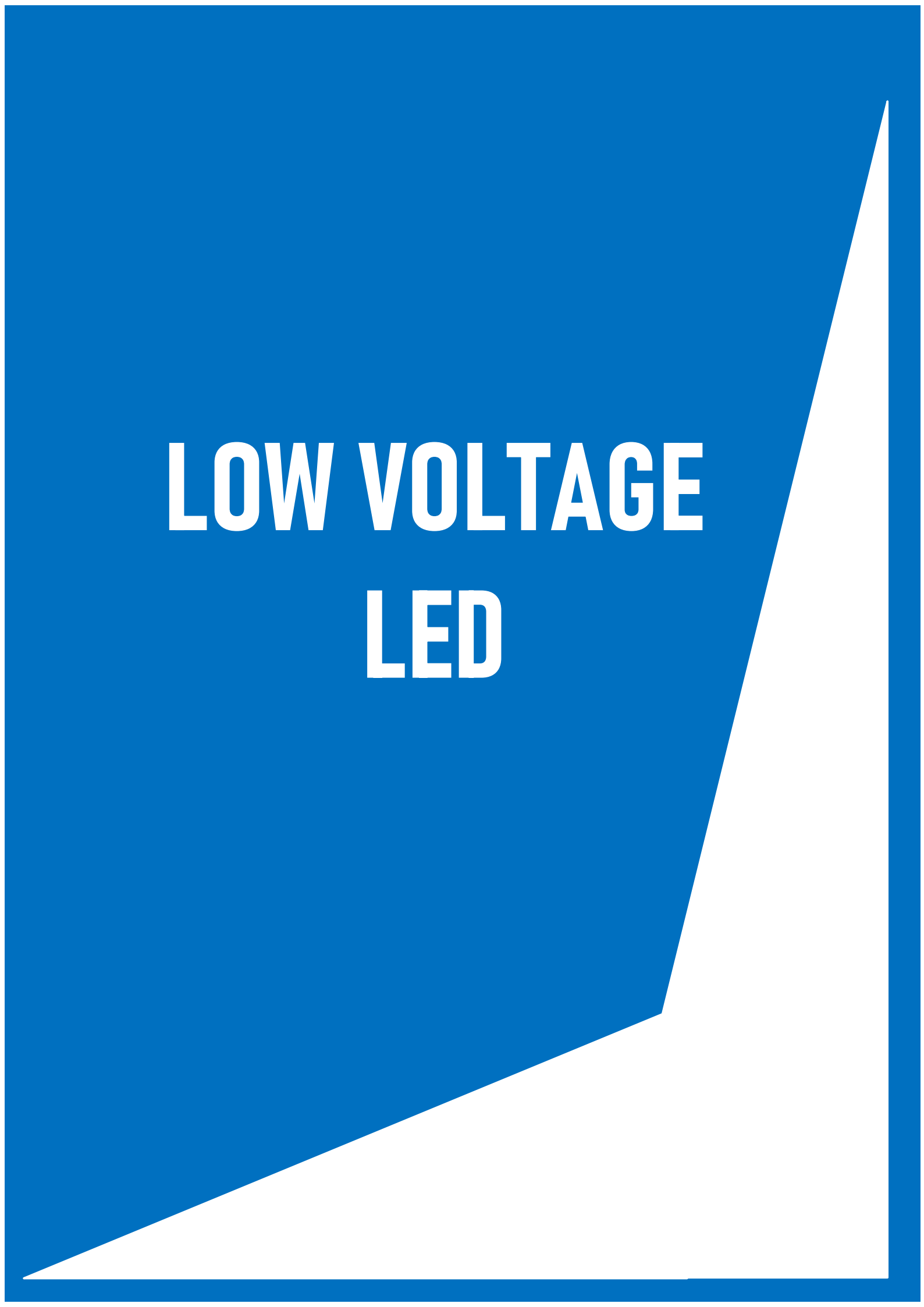
- 極低電耗，省電
- 與傳統T8光管尺寸一樣，可直接更換
- 直接於線牛線路運作
- 可直接用於AC直氣或後備電池使用
- 即使在低溫下也能穩定運作
- 無汞及有害物質
- 光輸出角度: 280°
- 全玻璃管身連塑膠保護套
- 顯色度高, Ra≥90
- 改善新鮮食品的外觀和防止變色



\*實際性能會因應鎮流器輸出而異

\*Recommend to remove the parallel capacitor (if any) to achieve HPF

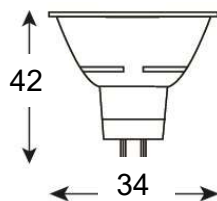
\*如固有燈具有安裝電容，需要拆下才可達至高功率效果

The background is a solid blue color with a white geometric shape on the right side. The white shape is a large triangle that points towards the top right corner, with its base along the bottom edge. The text is centered in the blue area.

# **LOW VOLTAGE LED**



## Thermal Plastic LED COB MR11

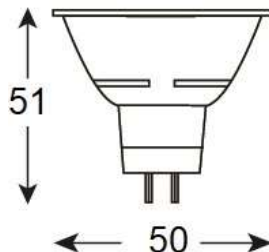


| Model                    | Voltage   | Wattage | Base | Beam Angel | Color Temp | Lumen |
|--------------------------|-----------|---------|------|------------|------------|-------|
| LED TP MR11 COB-4W/3000K | 12V AC/DC | 4W      | GU4  | 38°        | 3000K      | 280lm |

- Ideal retrofit solution for MR11 halogen lighting with identical use
- Built-in driver broad compatibility with magnetic and 12V electronic ballast / transformer
- Excellent thermal conductivity
- Aesthetic reflector optics
- Good color rendition, Ra $\geq$ 80

- 外形大小完美取代傳統MR11鹵素杯膽
- 內置線路，完全配合線牛及12V電子鎮流器使用
- 優異的導熱性
- 優秀光輸出的反射罩
- 顯色度高, Ra $\geq$ 80

## Thermal Plastic LED COB MR16

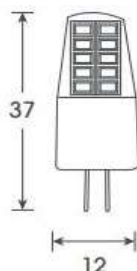


| Model                    | Voltage   | Wattage | Base  | Beam Angel | Color Temp | Lumen |
|--------------------------|-----------|---------|-------|------------|------------|-------|
| LED TP MR16 COB-6W/3000K | 12V AC/DC | 6W      | GU5.3 | 38°        | 3000K      | 500lm |
| LED TP MR16 COB-6W/4000K | 12V AC/DC | 6W      | GU5.3 | 38°        | 4000K      | 510lm |
| LED TP MR16 COB-6W/6000K | 12V AC/DC | 6W      | GU5.3 | 38°        | 6000K      | 520lm |

- Ideal retrofit solution for MR16 halogen lighting with identical use
- Built-in driver broad compatibility with magnetic and 12V electronic ballast / transformer
- Excellent thermal conductivity
- Aesthetic reflector optics
- Good color rendition, Ra $\geq$ 80

- 外形大小完美取代傳統MR16鹵素杯膽
- 內置線路，完全配合線牛及12V電子鎮流器使用
- 優異的導熱性
- 優秀光輸出的反射罩
- 顯色度高, Ra $\geq$ 80

## Multi-LED G4



2.5W ~ 22W

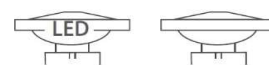
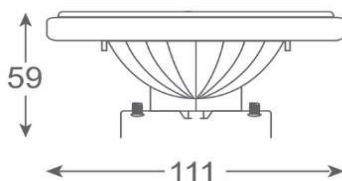


| Model           | Voltage   | Wattage | Base | Color Temp | Lumen |
|-----------------|-----------|---------|------|------------|-------|
| LED G4 SMD-2.5W | 12V AC/DC | 2.5W    | G4   | 3000K      | 260lm |

- Extremely energy saving with low power consumption
- Perfect replacing traditional halogen lamps with compact size
- Good color rendition,  $R_a \geq 80$
- Suitable for operation with all magnetic transformers, LED drivers and most electronic ballasts
- Overall light distribution

- 極低電耗，省電
- 大小完美取代傳統鹵素燈
- 顯色度高,  $R_a \geq 80$
- 適合用於所有傳統線牛，LED 變壓器，大部份電子鎮流器
- 360度全方位光輸出

## LED HP AR111



15W ~ 123W



| Model            | Voltage   | Wattage | Base | Beam Angle | Color Temp | Lumen  |
|------------------|-----------|---------|------|------------|------------|--------|
| LED AR111 HP-15W | 12V AC/DC | 15W     | G53  | 30°        | 3000K      | 1000lm |

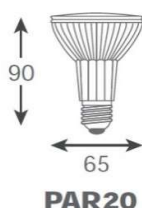
- Ideal retrofit solution for spot lighting applications in retail industry
- Low voltage 12V AR111 enables broad compatibility with existing electronic ballasts and magnetic transformers
- Good color rendition,  $R_a \geq 80$

- 完美取代/替換用於零售業傳統的焦點射燈
- 低壓12V線路使用，可直接使用於固有電子鎮流器或傳統線牛去代替傳統AR111鐵杯燈
- 顯色度高,  $R_a \geq 80$

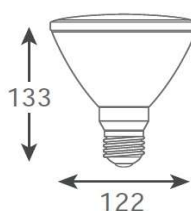


## Low Voltage PAR LED Lamp

低壓PAR LED水池膽



PAR20



PAR38



6W ~ 64W  
15W ~ 128W

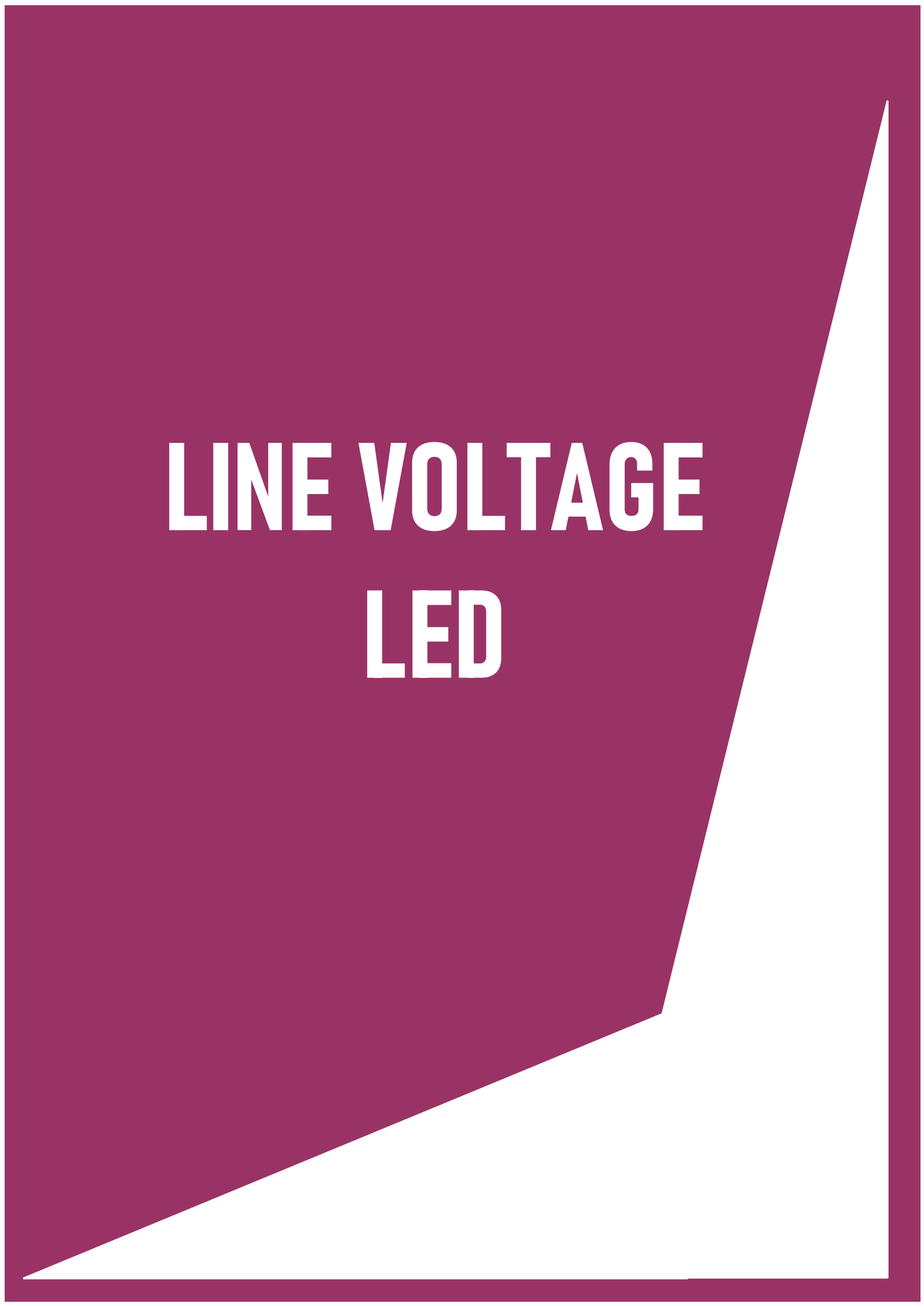


| Model                   | Wattage | Voltage      | Beam Angle | Color Temp | Lumen  | Base |
|-------------------------|---------|--------------|------------|------------|--------|------|
| LED G PAR20 COB-6W/12V  | 6W      | 12-24V AC/DC | 50° ± 10%  | 3000K      | 450lm  | E27  |
| LED G PAR38 COB-15W/12V | 15W     | 12-24V AC/DC | 50° ± 10%  | 3000K      | 1100lm | E27  |

- Need to operate with a low voltage transformer
- Glass housing
- E27 lamp base, easy to install
- Excellent use in pool lighting
- Wide range operating temperature -20°C to 50°C
- 25,000 hrs rated life time @25°C working temperature
- Can replace most of R20, R40 halogen pool lamp

- 低電壓，需配合降壓鎮流器使用
- 膽身玻璃物料製造
- E27燈頭，易於安裝
- 非常適合在泳池照明
- 廣泛操作溫度 -20°C to 50°C
- 25,000 小時壽命 @25°C工作溫度
- 可取代大部份R20, R40鎢絲水池膽

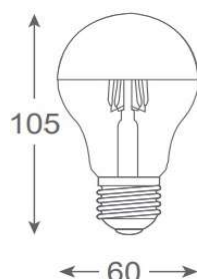


The background is a solid maroon color. A white diagonal line runs from the bottom-left corner towards the top-right, creating a triangular white area in the bottom-right corner.

# **LINE VOLTAGE LED**



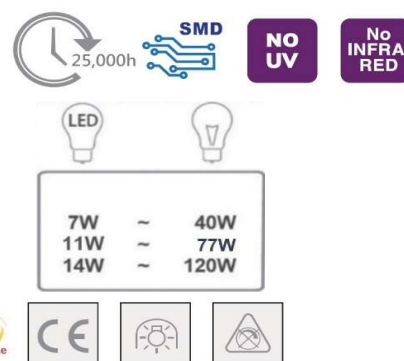
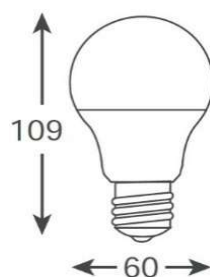
## Filament-LED A60 Crown Silver



| Model               | Voltage  | Wattage | Base | Color Temp | Lumen |
|---------------------|----------|---------|------|------------|-------|
| LED A60 FIL-4W-G-CS | 220-240V | 4W      | E27  | 2700K      | 360lm |

- Extremely energy saving with low power consumption
- Excellent decorative display for stylish design
- Perfectly retrofit incandescent crown silver lamps with same appearance / performance / dimensions
- Attractive mirror reflection effect
- Anti-glare and backward reflection light by silver coating suitable for wall lighting and designed luminaires
- Good color rendition,  $R_a \geq 80$
- 極低電耗，省電
- 超卓的裝飾燈，適合用於商業，化妝間照明
- 外觀 / 功能 / 呎吋完全一致，完美取代傳統銀冠鎢絲膽
- 極具吸引力的亮燈反射效果
- 亮銀色的防眩光的後反射照明效果，適合牆身特別效果，有設計的燈具及化妝照明
- 顯色度高， $R_a \geq 80$

## Thermal Plastic Multi-LED A60

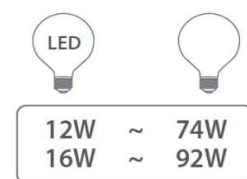
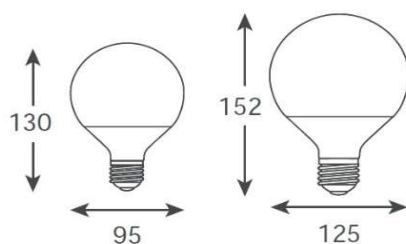


| Model                    | Voltage  | Wattage | Base | Color Temp | Lumen  |
|--------------------------|----------|---------|------|------------|--------|
| LED TP A60 SMD-7W/3000K  | 220-240V | 7W      | E27  | 3000K      | 470lm  |
| LED TP A60 SMD-7W/6000K  | 220-240V | 7W      | E27  | 6000K      | 490lm  |
| LED TP A60 SMD-11W/3000K | 220-240V | 11W     | E27  | 3000K      | 1050lm |
| LED TP A60 SMD-11W/6000K | 220-240V | 11W     | E27  | 6000K      | 1100lm |
| LED TP A60 SMD-13W/3000K | 220-240V | 14W     | E27  | 3000K      | 1530lm |
| LED TP A60 SMD-13W/6000K | 220-240V | 14W     | E27  | 6000K      | 1530lm |

- Extremely energy saving with low power consumption
- Perfectly retrofit incandescent lamps
- Good color rendition,  $R_a \geq 80$
- 極低電耗，省電
- 呎吋完全一致，完美取代傳統鎢絲膽
- 顯色度高， $R_a \geq 80$



## Thermal Plastic Multi-LED Globe

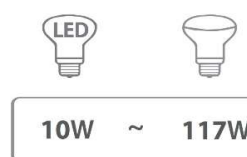
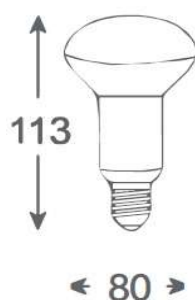


| Model                     | Voltage  | Wattage | Base | Color Temp | Lumen  |
|---------------------------|----------|---------|------|------------|--------|
| LED TP G95 SMD-12W/3000K  | 220-240V | 12W     | E27  | 3000K      | 1000lm |
| LED TP G95 SMD-12W/6000K  | 220-240V | 12W     | E27  | 6000K      | 1050lm |
| LED TP G125 SMD-16W/3000K | 220-240V | 16W     | E27  | 3000K      | 1300lm |
| LED TP G125 SMD-16W/6000K | 220-240V | 16W     | E27  | 6000K      | 1380lm |
| LED TP G125 SMD-16W/3000K | 220-240V | 16W     | B22  | 3000K      | 1300lm |
| LED TP G125 SMD-16W/6000K | 220-240V | 16W     | B22  | 6000K      | 1380lm |

- Excellent thermal conductivity
- Perfect electrical insulation
- 100% safe against fire hazards
- Attractive clear white cosmetic finishing
- Good color rendition,  $R_a \geq 80$

- 優異的導熱性
- 完美的電氣絕緣
- 100% 安全防火
- 具吸引力的半透明奶白反射罩
- 顯色度高,  $R_a \geq 80$

## Thermal Plastic Multi-LED R80

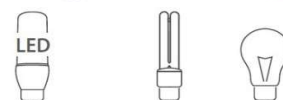
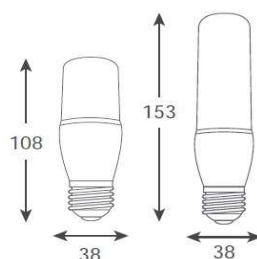


| Model              | Voltage  | Wattage | Base | Color Temp | Lumen |
|--------------------|----------|---------|------|------------|-------|
| LED TP R80 SMD-10W | 220-240V | 10W     | E27  | 3000K      | 800lm |

- Extremely energy saving with low power consumption
- Perfectly retrofit traditional lamps with no change on dimensions
- No mercury and hazardous substances
- Good color rendition,  $R_a \geq 80$

- 極低電耗，省電
- 外觀 / 功能 / 呎吋完全一致，完美取代傳統 R80 薄玻璃射燈
- 無汞及有害物質
- 顯色度高,  $R_a \geq 80$

## Thermal Plastic Multi-LED T38



9W ~ 15W / 60W  
12W ~ 20W / 100W

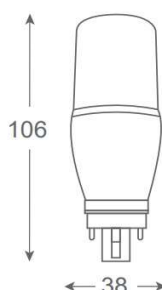


| Model                    | Voltage  | Wattage | Base    | Color Temp | Lumen  |
|--------------------------|----------|---------|---------|------------|--------|
| LED TP T38 SMD-9W/3000K  | 220-240V | 9W      | E14/E27 | 3000K      | 780lm  |
| LED TP T38 SMD-9W/6000K  | 220-240V | 9W      | E14/E27 | 6000K      | 800lm  |
| LED TP T38 SMD-12W/6000K | 220-240V | 12W     | E27     | 6000K      | 1100lm |

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- No mercury and hazardous substances
- 2.5 times the life of Electronic Energy Saving lamp
- 25 times the life of incandescent filament bulbs
- Perfect replacing Electronic Energy Saving lamp
- Good color rendition,  $Ra \geq 80$

- 極低電耗・省電
- 優異的導熱性
- 無汞及有害物質
- 比傳統電子燈管壽命長2.5倍
- 比傳統鎢絲燈壽命長25倍
- 完美取代傳統電子燈管
- 顯色度高,  $Ra \geq 80$

## Thermal Plastic Multi-LED T38



9W ~ 13W

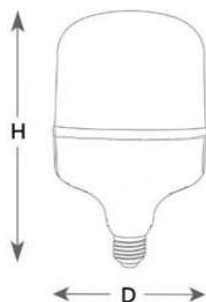


| Model                  | Voltage  | Wattage | Base | Color Temp | Lumen |
|------------------------|----------|---------|------|------------|-------|
| LED TP T38 SMD-9W/3000 | 100-240V | 9W      | G24  | 3000K      | 780lm |
| LED TP T38 SMD-9W/6000 | 100-240V | 9W      | G24  | 6000K      | 800lm |

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Perfect replacing Compact Fluorescent Lamp with > 30% power savings
- No mercury and hazardous substances
- Direct retrofit for G24 2pin Compact Fluorescent Lamp in CCG circuit without re-wiring work
- >2.5 times the life of Compact Fluorescent Lamp
- Applicable for new installation with direct AC connection
- Good color rendition,  $Ra \geq 80$

- 極低電耗・省電
- 優異的導熱性
- 完美取代傳統筷子管更節省30%耗電
- 無汞及有害物質
- 無需更改線路電路，可直接替代G24 2針筷子管使用
- 壽命比筷子管長2.5倍
- 可直接用於AC直氣電流，不用鎮流器
- 顯色度高,  $Ra \geq 80$

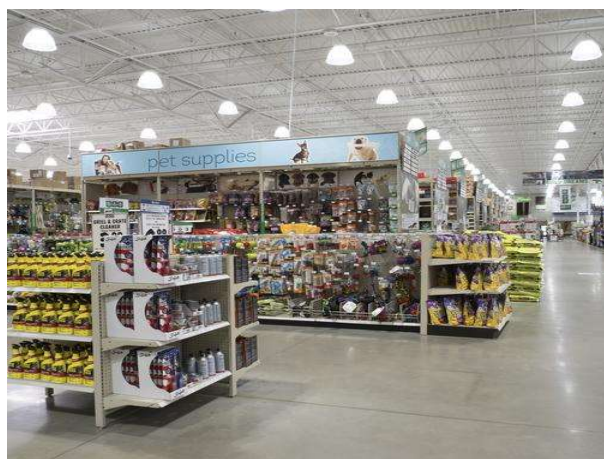
## LED Tubular Lamp T80-T135



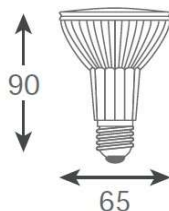
| Model             | Voltage  | Wattage | Base | Color Temp | Lumen  | Diameter (D) | Height(H) |
|-------------------|----------|---------|------|------------|--------|--------------|-----------|
| LED T80 20W/3000  | 220-240V | 20W     | E27  | 3000K      | 1800lm | 80mm         | 145mm     |
| LED T80 20W/6000  | 220-240V | 20W     | E27  | 6000K      | 1900lm | 80mm         | 145mm     |
| LED T100 26W/3000 | 220-240V | 26W     | E27  | 3000K      | 2300lm | 100mm        | 170mm     |
| LED T100 26W/6000 | 220-240V | 26W     | E27  | 6000K      | 2500lm | 100mm        | 170mm     |
| LED T110 36W/3000 | 220-240V | 36W     | E27  | 3000K      | 3700lm | 110mm        | 200mm     |
| LED T110 36W/6000 | 220-240V | 36W     | E27  | 6000K      | 3900lm | 110mm        | 200mm     |
| LED T125 45W/3000 | 220-240V | 45W     | E27  | 3000K      | 3600lm | 125mm        | 230mm     |
| LED T135 55W/3000 | 220-240V | 55W     | E27  | 3000K      | 4250lm | 135mm        | 250mm     |
| LED T135 55W/6000 | 220-240V | 55W     | E27  | 6000K      | 4350lm | 135mm        | 250mm     |

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- No mercury and hazardous substances
- 2.5 times the life of Electronic Energy Saving lamp
- 25 times the life of incandescent filament bulbs
- Perfect replacing Electronic Energy Saving lamp
- Good color rendition,  $Ra \geq 80$
- Plastic base, light weight

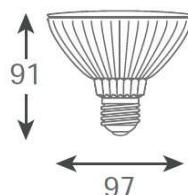
- 極低電耗，省電
- 優異的導熱性
- 無汞及有害物質
- 比傳統電子燈膽壽命長2.5倍
- 比傳統白熾燈壽命長25倍
- 完美取代傳統電子燈膽
- 顯色度高,  $Ra \geq 80$
- 塑膠底座，重量輕



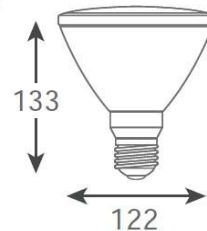
## Glass LED COB PAR20/PAR30/PAR38



PAR20



PAR30S



PAR38



|     |   |      |
|-----|---|------|
| 6W  | ~ | 64W  |
| 10W | ~ | 98W  |
| 15W | ~ | 134W |



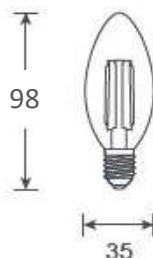
| Model             | Voltage  | Wattage | Base | Color Temp | Lumen  |
|-------------------|----------|---------|------|------------|--------|
| LED PAR20 COB-6W  | 220-240V | 6W      | E27  | 3000K      | 450lm  |
| LED PAR30 COB-10W | 220-240V | 10W     | E27  | 3000K      | 800lm  |
| LED PAR38 COB-15W | 220-240V | 15W     | E27  | 3000K      | 1100lm |

- Perfect replacing traditional incandescent lamps and halogen PAR lamps
- Extremely energy saving with low power consumption
- Full glass LED PAR20/PAR30/PAR38 in actual size as halogen PAR lamp
- Frontal glass heat dissipation technology
- No mercury and hazard
- Good color rendition,  $Ra \geq 80$
- Extremely energy saving with low power consumption

- 完美取代傳統的PAR型鎢絲膽和鹵素膽
- 極低電耗·省電
- 呎吋與傳統玻璃型PAR20/PAR30/PAR38一樣
- 優異的導熱性
- 無汞及有害物質
- 顯色度高,  $Ra \geq 80$
- 極低電耗·省電

## Dimmable Filament-LED Candle C35

可調光仿鎢絲蠟膽



4.5W ~ 40W



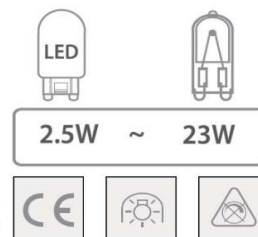
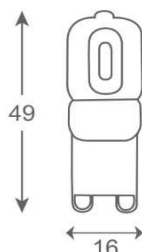
| Model                 | Voltage  | Wattage | Base | Color Temp | Lumen |
|-----------------------|----------|---------|------|------------|-------|
| LED C35 FIL-4.5W-G-CS | 220-240V | 4.5W    | E14  | 2700K      | 470lm |

- Extremely energy saving with low power consumption
- Perfectly retrofit incandescent lamps with same appearance / performance / dimensions
- Good color rendition,  $Ra \geq 80$
- Dimmable

- 極低電耗·省電
- 外觀 / 功能 / 呎吋完全一致·完美取代傳統鎢絲膽
- 顯色度高,  $Ra \geq 80$
- 可調光



## Thermal Plastic Multi-LED G9

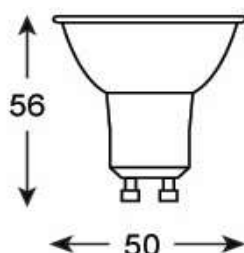


| Model              | Voltage  | Wattage | Base | Color Temp | Lumen |
|--------------------|----------|---------|------|------------|-------|
| LED TP G9 SMD-2.5W | 220-240V | 2.5W    | G9   | 3000K      | 200lm |

- Extremely energy saving with low power consumption
- Overall light distribution
- Universal burning position
- Lamp weight < 12g comply with IEC requirement
- Good color rendition, Ra≥80

- 極低電耗，省電
- 360度全方位出光
- 全方位亮燈安裝方向
- 燈身重量少於12克，符合IEC有關G9燈膽的標準
- 顯色度高，Ra≥80

## Thermal Plastic LED COB GU10



| Model                   | Voltage  | Wattage | Base | Beam Angle | Color Temp | Lumen |
|-------------------------|----------|---------|------|------------|------------|-------|
| LED TP GU10 COB-5W/3000 | 220-240V | 5W      | GU10 | 38°        | 3000K      | 380lm |
| LED TP GU10 COB-5W/4000 | 220-240V | 5W      | GU10 | 38°        | 4000K      | 390lm |
| LED TP GU10 COB-5W/6000 | 220-240V | 5W      | GU10 | 38°        | 6000K      | 400lm |

## HIGH OUTPUT VERSION

|                         |          |    |      |     |       |       |
|-------------------------|----------|----|------|-----|-------|-------|
| LED TP GU10 COB-7W/3000 | 220-240V | 7W | GU10 | 38° | 3000K | 580lm |
|-------------------------|----------|----|------|-----|-------|-------|

## DIMMABLE VERSION

|                           |          |      |      |     |       |       |
|---------------------------|----------|------|------|-----|-------|-------|
| LED TP GU10 COB-5.5W/3000 | 220-240V | 5.5W | GU10 | 38° | 3000K | 500lm |
|---------------------------|----------|------|------|-----|-------|-------|

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- No mercury and hazardous substances
- Good color rendition, Ra≥80
- Dimmable for 5.5W Version

- 極低電耗，省電
- 優異的導熱性
- 具吸引力的半透明奶白反射罩
- 顯色度高，Ra≥80
- 另有5.5W可調光版本



## Multi-LED Tubular Striplights



T9 S14s Base



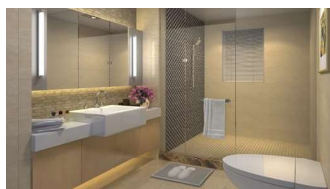
|     |   |      |
|-----|---|------|
| 5W  | ~ | 35W  |
| 8W  | ~ | 60W  |
| 16W | ~ | 120W |



| Model                   | Voltage  | Wattage | Base | Angle | Color Temp | Lumen  |
|-------------------------|----------|---------|------|-------|------------|--------|
| <b>DIMMABLE VERSION</b> |          |         |      |       |            |        |
| LED S14s T9 TP 5W       | 220-240V | 5W      | S14s | 270°  | 2700K      | 400lm  |
| LED S14s T9 TP 8W       | 220-240V | 8W      | S14s | 270°  | 2700K      | 650lm  |
| LED S14s T9 TP 16W      | 220-240V | 16W     | S14s | 270°  | 2700K      | 1250lm |

- Extremely energy saving with low power consumption
- Perfect retrofit traditional incandescent striplights
- Direct AC input with integrated driver
- Housing: PC
- No mercury and hazardous substances
- Good color rendition,  $R_a \geq 80$
- Dimmable

- 極低電耗・省電
- 完美取代傳統燈絲管
- 內置火牛・可AC直氣使用
- 不易碎膠外殼
- 無汞及有害物質
- 顯色度高,  $R_a \geq 80$
- 可調光



## Multi-LED Linear R7s

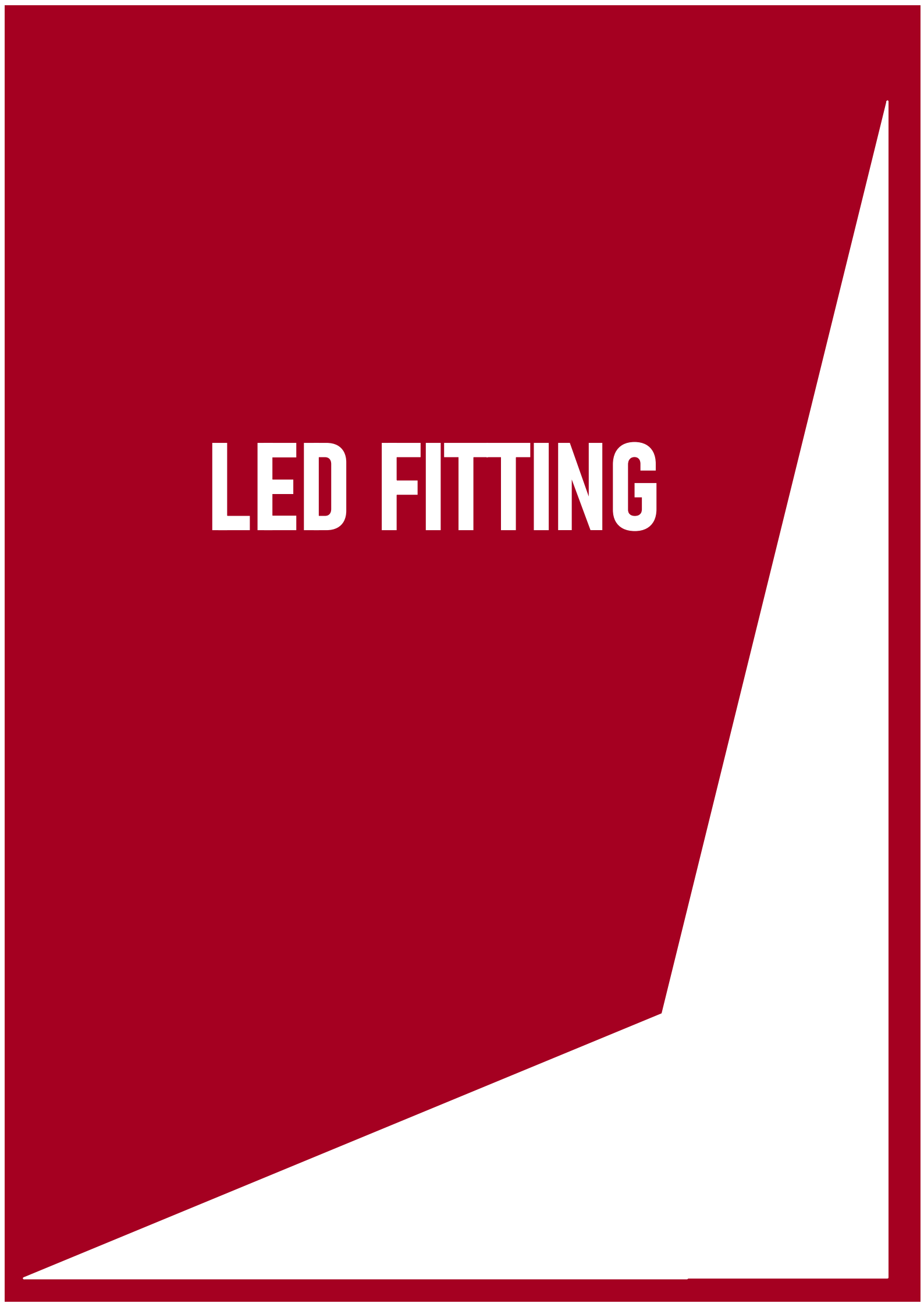


| Model              | Wattage | Voltage  | Color Temp | Base | Dia. (D) | Length (L) | Lumen  |
|--------------------|---------|----------|------------|------|----------|------------|--------|
| LED J-118 8W 2700K | 8W      | 220-240V | 2700K      | R7s  | 13.3mm   | 118mm      | 900 lm |

- Extremely energy saving with low power consumption
- Perfect retrofit traditional linear halogen lamp
- Direct AC input
- No mercury and hazardous substances
- Good color rendition,  $R_a \geq 80$

- 極低電耗・省電
- 完美取代傳統小太陽管
- AC直氣使用
- 無汞及有害物質
- 顯色度高,  $R_a \geq 80$

# LED FITTING

The background of the image is a solid red color. A large, white, abstract geometric shape is positioned on the right side, extending from the top right corner towards the bottom left. This shape is composed of several straight lines, creating a dynamic, angular composition. The text 'LED FITTING' is centered in the upper half of the image, rendered in a bold, white, sans-serif font.

## LED Seamless Batten



Accessories

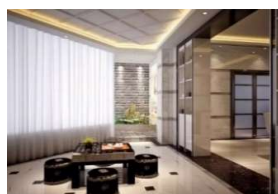
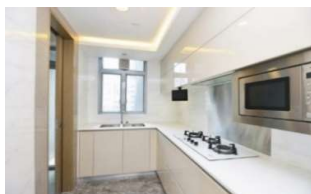


| Model           | Wattage | Voltage  | Color Temp | Length (L) | Width (W) | Height (H) | Lumen  | Max. of Connection | Body Color |
|-----------------|---------|----------|------------|------------|-----------|------------|--------|--------------------|------------|
| LED T5F/4W/830  | 4W      | 220-240V | 3000K      | 308mm      | 22.5mm    | 36mm       | 340lm  | 30                 | White      |
| LED T5F/4W/840  | 4W      | 220-240V | 4000K      | 308mm      | 22.5mm    | 36mm       | 380lm  | 30                 | White      |
| LED T5F/4W/860  | 4W      | 220-240V | 6000K      | 308mm      | 22.5mm    | 36mm       | 400lm  | 30                 | White      |
| LED T5F/8W/830  | 8W      | 220-240V | 3000K      | 582mm      | 22.5mm    | 36mm       | 650lm  | 15                 | White      |
| LED T5F/8W/840  | 8W      | 220-240V | 4000K      | 582mm      | 22.5mm    | 36mm       | 700lm  | 15                 | White      |
| LED T5F/8W/860  | 8W      | 220-240V | 6000K      | 582mm      | 22.5mm    | 36mm       | 720lm  | 15                 | White      |
| LED T5F/10W/830 | 10W     | 220-240V | 3000K      | 882mm      | 22.5mm    | 36mm       | 950lm  | 10                 | White      |
| LED T5F/10W/840 | 10W     | 220-240V | 4000K      | 882mm      | 22.5mm    | 36mm       | 1000lm | 10                 | White      |
| LED T5F/10W/860 | 10W     | 220-240V | 6000K      | 882mm      | 22.5mm    | 36mm       | 1050lm | 10                 | White      |
| LED T5F/14W/830 | 14W     | 220-240V | 3000K      | 1182mm     | 22.5mm    | 36mm       | 1350lm | 8                  | White      |
| LED T5F/14W/840 | 14W     | 220-240V | 4000K      | 1182mm     | 22.5mm    | 36mm       | 1400lm | 8                  | White      |
| LED T5F/14W/860 | 14W     | 220-240V | 6000K      | 1182mm     | 22.5mm    | 36mm       | 1450lm | 8                  | White      |



- Energy saving with low power consumption
- Long average life 25,000hrs
- Good color rendition,  $Ra \geq 80$
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Seamless design
- Beam Angle:  $130^\circ$
- Opal PC Diffuser + White body
- Easy install - use 2 mounting clips
- Linear plug and play connection at both ends
- Class II Electrical
- IP20

- 極低電耗・省電
- 超長壽命達25,000小時
- 顯色度高,  $Ra \geq 80$
- 低熱量輸出・無紅外線和有害紫外線
- 無汞及有害物質
- 無縫一體式設計
- 光輸出角度:  $130^\circ$
- 不碎膠奶白泛光罩+白色外殼
- 容易安裝 - 只用兩只安裝夾
- 兩端均可作為入電插座
- Class II 電路
- IP20

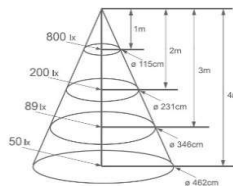
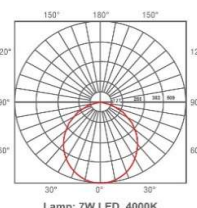
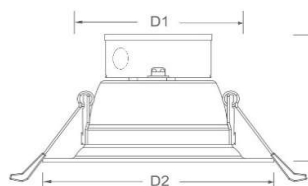


Optional - Connection cable



20cm  
100cm

## LED DOWNlight

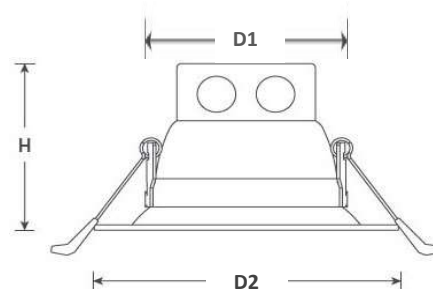


| Model          | Wattage | Voltage  | Color Temp | Lumen  | D1 (mm) | D2 (mm) | H (mm) |
|----------------|---------|----------|------------|--------|---------|---------|--------|
| ND101E-3W/830  | 3W      | 220-240V | 3000K      | 320lm  | 80mm    | 102mm   | 70mm   |
| ND101E-3W/840  | 3W      | 220-240V | 4000K      | 340lm  | 80mm    | 102mm   | 70mm   |
| ND101E-3W/860  | 3W      | 220-240V | 6000K      | 340lm  | 80mm    | 102mm   | 70mm   |
| ND102E-5W/830  | 5W      | 220-240V | 3000K      | 535lm  | 85mm    | 110mm   | 75mm   |
| ND102E-5W/840  | 5W      | 220-240V | 4000K      | 565lm  | 85mm    | 110mm   | 75mm   |
| ND102E-5W/860  | 5W      | 220-240V | 6000K      | 565lm  | 85mm    | 110mm   | 75mm   |
| ND103E-7W/830  | 7W      | 220-240V | 3000K      | 750lm  | 95mm    | 120mm   | 75mm   |
| ND103E-7W/840  | 7W      | 220-240V | 4000K      | 800lm  | 95mm    | 120mm   | 75mm   |
| ND103E-7W/860  | 7W      | 220-240V | 6000K      | 800lm  | 95mm    | 120mm   | 75mm   |
| ND104E-12W/830 | 12W     | 220-240V | 3000K      | 1030lm | 120mm   | 145mm   | 77mm   |
| ND104E-12W/840 | 12W     | 220-240V | 4000K      | 1080lm | 120mm   | 145mm   | 77mm   |
| ND104E-12W/860 | 12W     | 220-240V | 6000K      | 1080lm | 120mm   | 145mm   | 77mm   |
| ND205E-20W/830 | 20W     | 220-240V | 3000K      | 2010lm | 155mm   | 195mm   | 95mm   |
| ND205E-20W/840 | 20W     | 220-240V | 4000K      | 2010lm | 155mm   | 195mm   | 95mm   |
| ND205E-20W/860 | 20W     | 220-240V | 6000K      | 2010lm | 155mm   | 195mm   | 95mm   |
| ND207E-22W/830 | 22W     | 220-240V | 3000K      | 2250lm | 180mm   | 220mm   | 105mm  |
| ND207E-22W/840 | 22W     | 220-240V | 4000K      | 2250lm | 180mm   | 220mm   | 105mm  |
| ND207E-22W/860 | 22W     | 220-240V | 6000K      | 2250lm | 180mm   | 220mm   | 105mm  |

- Recessed round downlight, uniform distribution
- Comfort glare-free diffuser
- Good color rendition,  $Ra \geq 80$
- Body: Die-cast aluminium with white finish
- Trim: Die-cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected
- Quick installation with mounting bracket
- Integral gear unit allows quick and easy installation
- Class II Electrical

- 圓形暗裝筒燈，光均勻分佈
- 舒適防眩光反射罩
- 顯色度高,  $Ra \geq 80$
- 外殼: 白色塗層壓鑄鋁
- 邊框: 防紫外線白色鑄鋁
- 擴散器: 磨沙防紫外線 PS 面
- 附燈安裝夾，容易安裝
- 內置變壓器，安裝接駁簡單
- Class II 電路

## LED DOWNlight Generation 2



| Model          | Wattage | Voltage  | Color Temp | Lumen  | D1 (mm) | D2 (mm) | H (mm) |
|----------------|---------|----------|------------|--------|---------|---------|--------|
| Generation 2   |         |          |            |        |         |         |        |
| ND205E-20W/830 | 20W     | 220-240V | 3000K      | 1555lm | 140mm   | 180mm   | 85mm   |
| ND205E-20W/840 | 20W     | 220-240V | 4000K      | 1555lm | 140mm   | 180mm   | 85mm   |
| ND205E-20W/860 | 20W     | 220-240V | 6000K      | 1555lm | 140mm   | 180mm   | 85mm   |
| ND207E-22W/830 | 22W     | 220-240V | 3000K      | 1730lm | 190mm   | 220mm   | 85mm   |
| ND207E-22W/840 | 22W     | 220-240V | 4000K      | 1730lm | 190mm   | 220mm   | 85mm   |
| ND207E-22W/860 | 22W     | 220-240V | 6000K      | 1730lm | 190mm   | 220mm   | 85mm   |

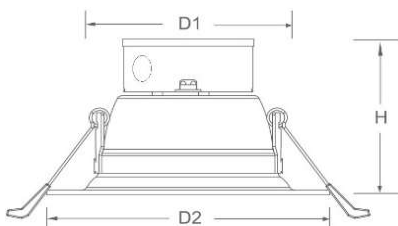
- Recessed round downlight, uniform distribution
- Comfort glare-free diffuser
- Good color rendition,  $Ra \geq 80$
- Body: Die-cast aluminium with white finish
- Trim: Die-cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected
- Metal box with  $\varnothing 20\text{mm}$  knockout facilitates conduit mounting
- Quick installation with mounting bracket
- Integral gear unit allows quick and easy installation
- Class II Electrical

- 圓形暗裝筒燈，光均勻分佈
- 舒適防眩光反射罩
- 顯色度高,  $Ra \geq 80$
- 外殼: 白色塗層壓鑄鋁
- 邊框: 防紫外線白色鑄鋁
- 擴散器: 磨沙防紫外線 PS 面
- 金屬盒附 $\varnothing 20\text{mm}$ 敲落孔，便於導管安裝
- 附燈安裝夾，容易安裝
- 內置變壓器，安裝接駁簡單
- Class II 電路





## LED DOWNlight-DIP SW



Dip switch - 10W/15W/20W



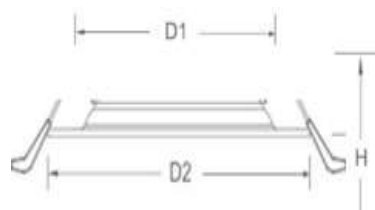
| Model          | Wattage         | Color Temp | Lumen               | D1 (mm) | D2 (mm) | H (mm) |
|----------------|-----------------|------------|---------------------|---------|---------|--------|
| ND205S-20W/830 | 10W / 15W / 20W | 3000K      | 830lm/1610lm/2010lm | 155mm   | 195mm   | 95mm   |
| ND205S-20W/840 | 10W / 15W / 20W | 4000K      | 830lm/1610lm/2010lm | 155mm   | 195mm   | 95mm   |
| ND205S-20W/860 | 10W / 15W / 20W | 6000K      | 830lm/1610lm/2010lm | 155mm   | 195mm   | 95mm   |
| ND207S-20W/830 | 10W / 15W / 20W | 3000K      | 830lm/1610lm/2010lm | 180mm   | 220mm   | 105mm  |
| ND207S-20W/840 | 10W / 15W / 20W | 4000K      | 830lm/1610lm/2010lm | 180mm   | 220mm   | 105mm  |
| ND207S-20W/860 | 10W / 15W / 20W | 6000K      | 830lm/1610lm/2010lm | 180mm   | 220mm   | 105mm  |

- Selectable wattage 10W/ 15W/ 20W via dip-switch
- Recessed round downlight, uniform distribution
- Comfort glare-free diffuser
- Good color rendition,  $Ra \geq 80$
- Body: Die-cast aluminium with white finish
- Trim: Die-cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected
- Quick installation with mounting bracket
- Integral gear unit allows quick and easy installation
- 220-240V, 50/60Hz
- Class II Electrical
- IP20

- 可通過撥碼開關選擇功率 10W/ 15W/ 20W
- 圓形暗裝筒燈，光均勻分佈
- 舒適防眩光反射罩
- 顯色度高,  $Ra \geq 80$
- 外殼: 白色塗層壓鑄鋁
- 邊框: 防紫外線白色鑄鋁
- 擴散器: 磨沙防紫外線 PS 面
- 附燈安裝夾，容易安裝
- 內置變壓器，安裝接駁簡單
- 220-240V, 50/60Hz
- Class II 電路
- IP20



## LED Slim Round DOWNlight (薄裝)

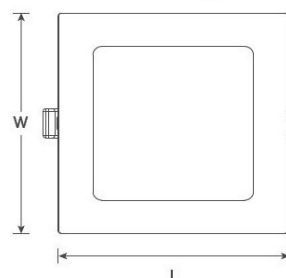


| Model          | Wattage | Color Temp | Lumen  | D1 (mm) | D2 (mm) | H (mm) |
|----------------|---------|------------|--------|---------|---------|--------|
| ND221E-3W/830  | 3W      | 3000K      | 230lm  | 75mm    | 85mm    | 30mm   |
| ND224E-12W/840 | 12W     | 4000K      | 1080lm | 160mm   | 172mm   | 30mm   |

- Recessed round downlight, uniform distribution
- Comfort glare-free diffuser
- Good color rendition,  $Ra \geq 80$
- Body: Die-cast aluminium with white finish
- Trim: Die-cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected
- Quick installation with mounting bracket
- Integral gear unit allows quick and easy installation
- 220-240V, 50/60Hz
- Class II Electrical
- IP20

- 圓形暗裝筒燈 · 光均勻分佈
- 舒適防眩光反射罩
- 顯色度高,  $Ra \geq 80$
- 外殼: 白色塗層壓鑄鋁
- 邊框: 防紫外線白色鑄鋁
- 擴散器: 磨沙防紫外線 PS 面
- 附燈安裝夾 · 容易安裝
- 內置變壓器 · 安裝接駁簡單
- 220-240V, 50/60Hz
- Class II 電路
- IP20

## LED Slim Square Downlight

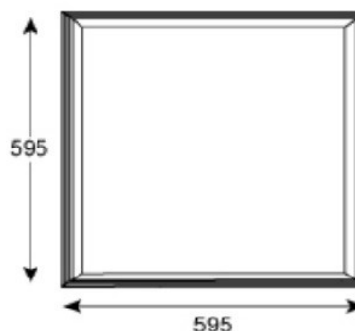


| Model          | Wattage | Color Temp | Lumen  | L (mm) | W (mm) | H (mm) |
|----------------|---------|------------|--------|--------|--------|--------|
| ND215E-15W/830 | 15W     | 3000K      | 1390lm | 201mm  | 201mm  | 28mm   |

- Square downlight, uniform distribution
- Comfort glare-free diffuser
- Good color rendition,  $Ra \geq 80$
- Body: Die-cast aluminium with white finish
- Trim: Die-cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected
- Quick installation with mounting bracket
- Integral gear unit allows quick and easy installation
- 220-240V, 50/60Hz
- Class II Electrical
- IP20

- 方形暗裝筒燈 · 光均勻分佈
- 舒適防眩光反射罩
- 顯色度高,  $Ra \geq 80$
- 外殼: 白色塗層壓鑄鋁
- 邊框: 防紫外線白色鑄鋁
- 擴散器: 磨沙防紫外線 PS 面
- 附燈安裝夾 · 容易安裝
- 內置變壓器 · 安裝接駁簡單
- 220-240V, 50/60Hz
- Class II 電路
- IP20

## LED Panel



## Optional spare parts

NDPM-001

Pendant mount kit



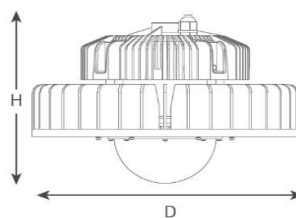
| Model      | Wattage | Voltage  | Color Temp | Length (L) | Width (W) | Height (H) | Power factor | Lumen  |
|------------|---------|----------|------------|------------|-----------|------------|--------------|--------|
| ND5012-840 | 36W     | 220-240V | 4000K      | 595mm      | 595mm     | 10mm       | 0.90         | 3400lm |
| ND5012-865 | 36W     | 220-240V | 6500K      | 595mm      | 595mm     | 10mm       | 0.90         | 3400lm |

- Stable light output, no flickering
- Energy saving with low power consumption
- Long average life 25,000hrs
- Good color rendition,  $Ra \geq 80$
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Beam Angle:  $120^\circ$
- Opal PC Diffuser + White body
- 3 mounting methods: Recess mounted, \* Surface mounted, \* Pendant mounted \*(Need to buy accessories)
- Class II Electrical
- IP20

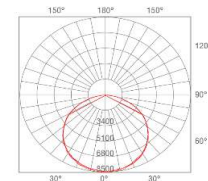
- 光輸出穩定，無頻閃
- 極低電耗，省電
- 超長壽命達25,000小時
- 顯色度高,  $Ra \geq 80$
- 低熱量輸出，無紅外線和有害紫外線
- 無汞及有害物質
- 光輸出角度:  $120^\circ$
- 不碎膠奶白泛光罩+白色外殼
- 3種不同安裝方法: 暗裝，明裝\*，吊裝\* \*(需另購配件)
- Class II 電路
- IP20



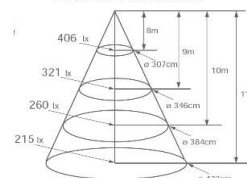
## LED Highbay



| (Unit : mm) | (D)        | (H) |
|-------------|------------|-----|
| 60W         | Ø180 x 157 |     |
| 80W         | Ø230 x 191 |     |
| 100W        | Ø230 x 191 |     |
| 150W        | Ø260 x 201 |     |
| 200W        | Ø300 x 207 |     |



Lamp: 200W LED, 4000K, 125°



## Reflector Options

ALU



45°: Ø384 x 145mm



60°: Ø372 x 149mm



90°: Ø455 x 130mm



120°: Ø505 x 125mm

PC



60°: Ø415 x 270mm

| Model              | Wattage | Voltage | Color Temp | Beam Angle | Lumen   |
|--------------------|---------|---------|------------|------------|---------|
| ND1020-3-ALB060-02 | 60W     | 90-305V | 3000K      | 125°       | 6800lm  |
| ND1020-3-ALD060-02 | 60W     | 90-305V | 4000K      | 125°       | 7200lm  |
| ND1020-3-ALG060-02 | 60W     | 90-305V | 6000K      | 125°       | 7500lm  |
| ND1021-3-ALB080-02 | 80W     | 90-305V | 3000K      | 125°       | 9000lm  |
| ND1021-3-ALD080-02 | 80W     | 90-305V | 4000K      | 125°       | 9800lm  |
| ND1021-3-ALG080-02 | 80W     | 90-305V | 6000K      | 125°       | 10400lm |
| ND1022-3-ALB100-02 | 100W    | 90-305V | 3000K      | 125°       | 11400lm |
| ND1022-3-ALD100-02 | 100W    | 90-305V | 4000K      | 125°       | 12200lm |
| ND1022-3-ALG100-02 | 100W    | 90-305V | 6000K      | 125°       | 13000lm |
| ND1023-3-ALB150-02 | 150W    | 90-305V | 3000K      | 125°       | 17500lm |
| ND1023-3-ALD150-02 | 150W    | 90-305V | 4000K      | 125°       | 18500lm |
| ND1023-3-ALG150-02 | 150W    | 90-305V | 6000K      | 125°       | 19500lm |
| ND1024-3-ALB200-02 | 200W    | 90-305V | 3000K      | 125°       | 24000lm |
| ND1024-3-ALD200-02 | 200W    | 90-305V | 4000K      | 125°       | 25000lm |
| ND1024-3-ALG200-02 | 200W    | 90-305V | 6000K      | 125°       | 26000lm |

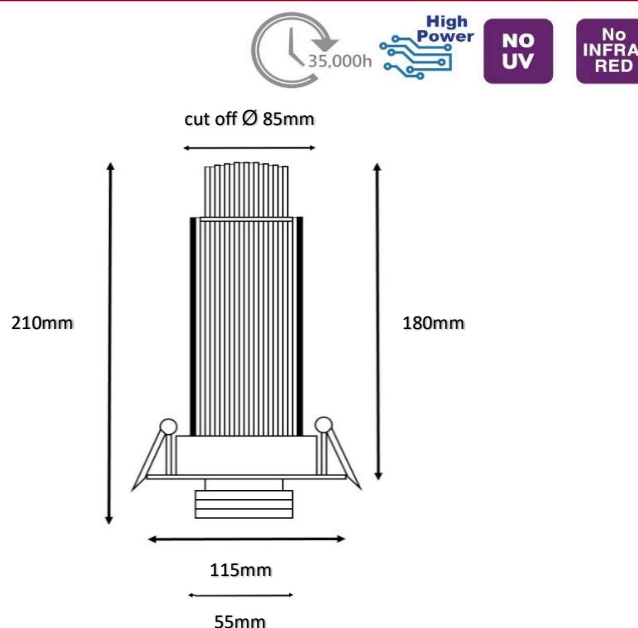
- Wide beam angle for large open area coverage
- Uniformity distribution in high ceiling application
- Color rendering index Ra≥70
- Die-cast aluminium body, Clear PC lens or Milky PC lens
- Reflector (optional): Anodised aluminium /PC
- Pendant mount by chain
- Easy assembly by screw fixation
- Class I Electrical
- IP65
- IK09

- 寬闊的光束角，可覆蓋大面積開放區域
- 適用於高天花板，光均勻分佈
- 顯色度 ≥70
- 壓鑄鋁製外殼，透明PC鏡片/ 奶白PC鏡片
- 反射罩(可選)：陽極氧化鋁 / PC
- 鍊式吊裝
- 通過螺絲固定，安裝容易
- Class I 電路
- IP65
- IK09





## LED Logo Projector



| Model              | Wattage | Voltage  | LED chips | Beam Angle | Lumen   |
|--------------------|---------|----------|-----------|------------|---------|
| ND1088-3-PLL025-10 | 25W     | 110-220V | OSRAM     | 10°        | 12500lm |
| ND1088-3-PLL025-20 | 25W     | 110-220V | OSRAM     | 20°        | 12500lm |
| ND1088-3-PLL025-25 | 25W     | 110-220V | OSRAM     | 25°        | 12500lm |

- Recess-mounted logo projector
- Die-cast aluminum body, good clear lens
- Adjustable tilting angle  $\pm 15^\circ$
- Easy installation with 2 spring clips
- Recommend project distance within 1-8m
- Reserve at least 200mm height above ceiling for recess installation
- Focus can be adjust for difference height purpose
- Integrated fan for good heat dissipation
- Tailor made project logo can be order upon requested
- Remote LED ballast for flexible installation
- Life time: 35,000hrs
- IP20

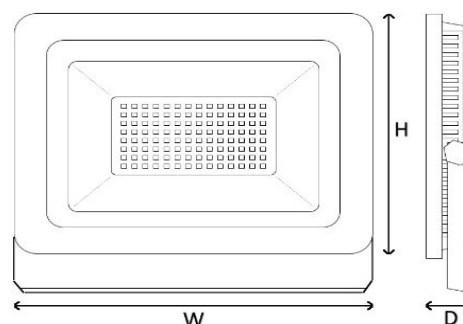
- 嵌入式標誌投影儀
- 壓鑄鋁製外殼，清晰的鏡片
- 可調傾斜角度  $\pm 15^\circ$
- 使用兩個彈簧夾，容易安裝
- 建議工程距離在1-8m以內
- 在天花板上方最少預留 200 毫米的高度以用於嵌入式安裝
- 可針對不同高度調整焦距
- 集成風扇，散熱良好
- 項目標誌可根據要求訂製
- 遠程 LED 鎮流器，安裝靈活
- 使用壽命：35,000 小時
- IP20



\*\*Parts of designed logo



## LED FLOODlight IP65



| Model           | Wattage | Voltage  | Color Temp | Lumen  | Beam Angle | W (mm) | H (mm) | D (mm) |
|-----------------|---------|----------|------------|--------|------------|--------|--------|--------|
| UF123E-50W/830  | 50W     | 180-240V | 3000K      | 3000lm | 110°       | 205mm  | 160mm  | 30mm   |
| UF123E-50W/865  | 50W     | 180-240V | 6500K      | 3500lm | 110°       | 205mm  | 160mm  | 30mm   |
| UF124E-100W/830 | 100W    | 180-240V | 3000K      | 6000lm | 110°       | 270mm  | 210mm  | 32mm   |
| UF124E-100W/865 | 100W    | 180-240V | 6500K      | 7000lm | 110°       | 270mm  | 210mm  | 32mm   |

- Polyester powder finish for excellent corrosion and UV resistance
- Design for excellent thermal transfer to extend component life
- Good heat dissipation performance
- Good color rendition,  $Ra \geq 80$
- Sturdy die-cast aluminium body in black/white color with anodised steel bracket and extruded silicone rubber gasket for long life
- Toughened glass diffuser
- Suitable for mast mounting and wall mounting
- Class I Electrical
- IP65

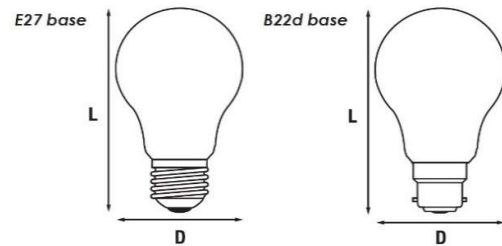
- 聚酯粉末表面具有出色的耐腐蝕性和抗紫外線性
- 設計出色的熱傳遞，延長部件壽命
- 良好的散熱性能
- 顯色度高,  $Ra \geq 80$
- 黑/白色堅固的壓鑄鋁製外殼連陽極氧化鋼支架，更有擠壓矽橡膠墊圈，令使用壽命更長
- 鋼化玻璃擴散器
- 適用於桅杆安裝和牆壁安裝
- Class I 電路
- IP65



The background is a solid blue color with a large white triangular shape on the right side, pointing towards the top right corner. The text is centered in the blue area.

# **TRADITIONAL LAMPS**

## GLS Lamp 普通型鎢絲膽

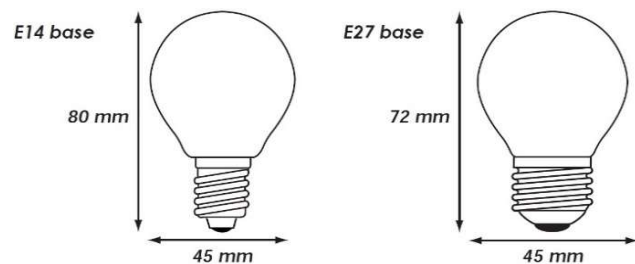


| Model      | Wattage | Voltage  | Glass   | Base     | Diameter | Length | Lumen   |
|------------|---------|----------|---------|----------|----------|--------|---------|
| GLS 40W-C  | 40W     | 220-240V | Clear   | E27      | 60mm     | 105mm  | 415 lm  |
| GLS 60W-C  | 60W     | 220-240V | Clear   | E27/B22d | 60mm     | 105mm  | 710 lm  |
| GLS 100W-C | 100W    | 220-240V | Clear   | E27/B22d | 60mm     | 105mm  | 1340 lm |
| GLS 200W-C | 200W    | 220-240V | Clear   | E27/B22d | 80mm     | 150mm  | 2000 lm |
| GLS 25W-F  | 25W     | 220-240V | Frosted | E27      | 60mm     | 105mm  | 210 lm  |
| GLS 40W-F  | 40W     | 220-240V | Frosted | E27      | 60mm     | 105mm  | 415 lm  |
| GLS 60W-F  | 60W     | 220-240V | Frosted | E27      | 60mm     | 105mm  | 710 lm  |
| GLS 100W-F | 100W    | 220-240V | Frosted | E27      | 60mm     | 105mm  | 1340 lm |

- Clear glass / Frosted glass as option
- 100% Dimmable

- 透明玻璃 / 磨沙玻璃可供選擇
- 100% 可調光

## Round Incandescent Lamp 球型鎢絲膽

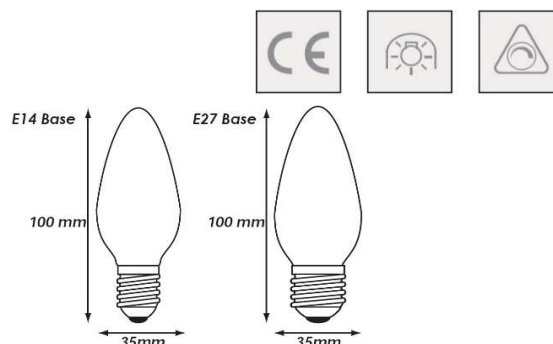


| Model       | Wattage | Voltage  | Glass   | Base    | Diameter | Length    | Lumen  |
|-------------|---------|----------|---------|---------|----------|-----------|--------|
| ROUND 25W-C | 25W     | 220-240V | Clear   | E14/E27 | 45mm     | 80mm/72mm | 210 lm |
| ROUND 40W-C | 40W     | 220-240V | Clear   | E14/E27 | 45mm     | 80mm/72mm | 400 lm |
| ROUND 60W-C | 60W     | 220-240V | Clear   | E14/E27 | 45mm     | 80mm/72mm | 660 lm |
| ROUND 25W-F | 25W     | 220-240V | Frosted | E14/E27 | 45mm     | 80mm/72mm | 210 lm |
| ROUND 40W-F | 40W     | 220-240V | Frosted | E14/E27 | 45mm     | 80mm/72mm | 400 lm |
| ROUND 60W-F | 60W     | 220-240V | Frosted | E14/E27 | 45mm     | 80mm/72mm | 660 lm |

- Clear glass / Frosted glass as option
- 100% Dimmable

- 透明玻璃 / 磨沙玻璃可供選擇
- 100% 可調光

## Candle Incandescent Lamp 椒型鎢絲膽

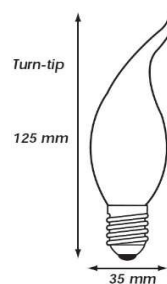


| Model        | Wattage | Voltage  | Glass   | Base    | Diameter | Length | Lumen  |
|--------------|---------|----------|---------|---------|----------|--------|--------|
| CANDLE 25W-C | 25W     | 220-240V | Clear   | E14     | 35mm     | 100mm  | 210 lm |
| CANDLE 40W-C | 40W     | 220-240V | Clear   | E14     | 35mm     | 100mm  | 400 lm |
| CANDLE 60W-C | 60W     | 220-240V | Clear   | E14/E27 | 35mm     | 100mm  | 660 lm |
| CANDLE 25W-F | 25W     | 220-240V | Frosted | E14     | 35mm     | 100mm  | 210 lm |
| CANDLE 40W-F | 40W     | 220-240V | Frosted | E14     | 35mm     | 100mm  | 400 lm |
| CANDLE 60W-F | 60W     | 220-240V | Frosted | E14/E27 | 35mm     | 100mm  | 660 lm |

- Clear glass / Frosted glass as option
- 100% Dimmable

- 透明玻璃 / 磨沙玻璃可供選擇
- 100% 可調光

## Candle Turn-Tip Incandescent Lamp 拉尾椒型鎢絲膽



| Model           | Wattage | Voltage  | Glass   | Base | Diameter | Length | Lumen  |
|-----------------|---------|----------|---------|------|----------|--------|--------|
| CANDLE TT 25W-C | 25W     | 220-240V | Clear   | E14  | 35mm     | 125mm  | 210 lm |
| CANDLE TT 60W-C | 60W     | 220-240V | Clear   | E14  | 35mm     | 125mm  | 660 lm |
| CANDLE TT 60W-F | 60W     | 220-240V | Frosted | E14  | 35mm     | 125mm  | 660 lm |

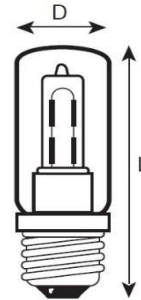
- Clear glass / Frosted glass as option
- 100% Dimmable

- 透明玻璃 / 磨沙玻璃可供選擇
- 100% 可調光



## JDD Standard Double Envelope Halogen Lamp

JDD 雙保護鹵素膽



Clear, E27



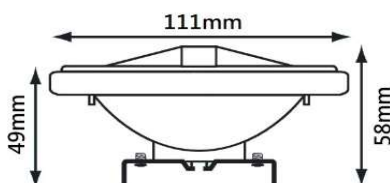
| Model            | Wattage | Voltage | Glass | Base | Diameter | Length | Lumen   |   |
|------------------|---------|---------|-------|------|----------|--------|---------|---|
| JDD 70W (64400)  | 70W     | 230V    | Clear | E27  | 32mm     | 105mm  | 1050 lm | D |
| JDD 100W (64401) | 100W    | 230V    | Clear | E27  | 32mm     | 105mm  | 1500 lm | D |
| JDD 150W (64402) | 150W    | 230V    | Clear | E27  | 32mm     | 105mm  | 2500 lm | D |
| JDD 200W (64404) | 200W    | 230V    | Clear | E27  | 32mm     | 105mm  | 3200 lm | D |

- Crisp warm light with high efficiency
- Average life 2000 hours
- Conforms to EN60432-2/EN60357 requirements with integrated fuse
- Self-shielded feature allows free burning in open fixtures
- - Conforms to EN60598 safety requirement
- The hard glass envelope blocks harmful UV radiation
- 高效率的黃光輸出
- 平均壽命2000小時
- 內置保險絲符合EN60432-2 / EN60357要求
- 自屏蔽功能允許在開放式燈具中任何角度亮燈
- 符合EN60598安全要求
- 硬質玻璃外殼可阻擋有害的紫外線輻射



## AR111 Low voltage Halogen Spot Light

AR111 低壓鹵素射燈



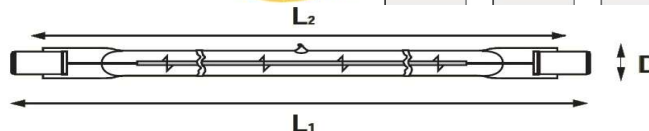
| Model                   | Wattage | Voltage | Beam Angle | Intensity (cd) | Base |
|-------------------------|---------|---------|------------|----------------|------|
| SPOT111/50/FL (41835FL) | 50W     | 12V     | 24°        | 4000           | G53  |
| SPOT111/75/FL (41840FL) | 75W     | 12V     | 24°        | 5300           | G53  |

- Low voltage halogen point source lighting
- Intelligent spots-versatile shop-lighting, exhibition and art gallery display
- The front bridge cover allows glare free comfortable light quality
- Aluminum reflector allow 100% light reflection with no color shift throughout life of lamp
- Average life 3,000 hours
- Color temperature 3000K
- 100% Dimmable

- 低壓鹵素焦點照明
- 多功能商店照明，展覽和藝術畫廊展示
- 前橋蓋可實現無眩光的舒適光線質量
- 鋁質反射器可實現100%光反射，在燈泡的整個使用壽命期間不會發生色溫偏移
- 平均壽命3,000小時
- 色溫3000K
- 100% 可調光

## Double-Ended Linear Halogen Lamp

雙端直氣小太陽管



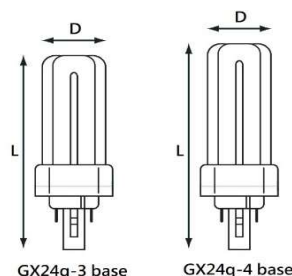
| Model       | Wattage | Voltage | Filament Support | Base | Dia. (D) | Length (L1) | Length (L2) | Lumen    |
|-------------|---------|---------|------------------|------|----------|-------------|-------------|----------|
| J-78/100W   | 100W    | 230V    | Re-inforced      | R7s  | 8mm      | 78mm        | 76 ± 1.5mm  | 1650 lm  |
| J-78/150W   | 150W    | 230V    | Re-inforced      | R7s  | 8mm      | 78mm        | 76 ± 1.5mm  | 2600 lm  |
| J-78/200W   | 200W    | 230V    | Re-inforced      | R7s  | 8mm      | 78mm        | 76 ± 1.5mm  | 3200 lm  |
| J-118/100W  | 100W    | 230V    | Re-inforced      | R7s  | 8mm      | 118mm       | 114 ± 1.5mm | 1650 lm  |
| J-118/150W  | 150W    | 230V    | Re-inforced      | R7s  | 8mm      | 118mm       | 114 ± 1.5mm | 2600 lm  |
| J-118/200W  | 200W    | 230V    | Standard         | R7s  | 8mm      | 118mm       | 114 ± 1.5mm | 3200 lm  |
| J-118/300W  | 300W    | 230V    | Standard         | R7s  | 8mm      | 118mm       | 114 ± 1.5mm | 5000 lm  |
| J-118/500W  | 500W    | 230V    | Standard         | R7s  | 10mm     | 118mm       | 114 ± 1.5mm | 9500 lm  |
| J-189/1000W | 1000W   | 230V    | Standard         | R7s  | 10mm     | 189mm       | 185 ± 1.5mm | 22000 lm |

- Average life 2,000 hours
- Color temperature 2900K
- Protective covers are required for lighting fixtures
- 100% Dimmable

- 平均壽命2,000小時
- 色溫2900K
- 照明燈具需要保護罩
- 100% 可調光

## T/E 4 Pin Compact Fluorescent Lamp

三環四針慳電管



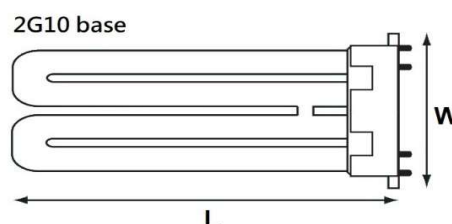
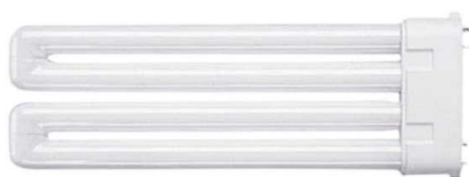
| Model         | Wattage | CRI       | Base    | Color Temp | Lumen  | Diameter (D) | Length (L) |
|---------------|---------|-----------|---------|------------|--------|--------------|------------|
| CLT/E-32W/827 | 32W     | 80-89, 1B | GX24q-3 | 2700K      | 2400lm | 49mm         | 147mm      |
| CLT/E-32W/830 | 32W     | 80-89, 1B | GX24q-3 | 3000K      | 2400lm | 49mm         | 147mm      |
| CLT/E-32W/840 | 32W     | 80-89, 1B | GX24q-3 | 4000K      | 2400lm | 49mm         | 147mm      |
| CLT/E-42W/830 | 42W     | 80-89, 1B | GX24q-4 | 3000K      | 3200lm | 49mm         | 168mm      |
| CLT/E-42W/840 | 42W     | 80-89, 1B | GX24q-4 | 4000K      | 3200lm | 49mm         | 168mm      |

- Extremely slim with small dimensions
- 8 times the lives and only 20% of power consumption of ordinary light bulbs
- Good color rendition,  $Ra \geq 80$
- Dimmable by using a specify electronic ballast

- 非常纖薄，呎吋小巧
- 比普通燈泡壽命長8倍，但耗電量僅為20%
- 顯色度高,  $Ra \geq 80$
- 配合指定的電子牛便可調光

## Flat Type 4P Compact Fluorescent Lamps

平排四針慳電管



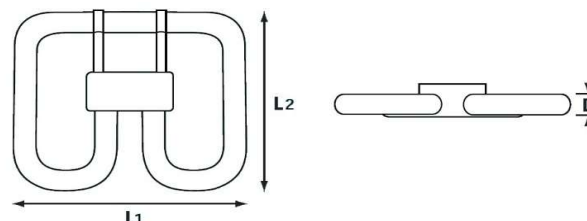
| Model       | Wattage | CRI       | Base | Color Temp | Lumen  | Width (W) | Length (L) |
|-------------|---------|-----------|------|------------|--------|-----------|------------|
| CLF-24W/840 | 24W     | 80-89, 1B | 2G10 | 4000K      | 1705lm | 90mm      | 165mm      |
| CLF-36W/840 | 36W     | 80-89, 1B | 2G10 | 4000K      | 2810lm | 90mm      | 217mm      |

- Flat compact fluorescent lamps with high luminous efficacy
- 8 times the lives and only 20% of power consumption of ordinary light bulbs
- Can use with conventional or electronic control gear for T8 and FLL (2G10 base) lamp
- Good color rendition,  $Ra \geq 80$
- Dimmable by using a specify electronic ballast

- 扁平緊湊型熒光燈，具有更好的光輸出效果
- 比普通燈泡壽命長8倍，但耗電量僅為20%
- 可適用與T8/PLL傳統或電子牛一起使用 (需配合2G10燈座)
- 顯色度高,  $Ra \geq 80$
- 配合指定的電子牛便可調光

## 2D Compact Fluorescent Lamp

2D 慳電管 (蝴蝶管)



| Model                                    | Wattage | Base    | Color Temp | Lumen  | Length (L1) | Length (L2) | Tube Dia. (D) |
|------------------------------------------|---------|---------|------------|--------|-------------|-------------|---------------|
| <b>2 Pin 2D Compact fluorescent lamp</b> |         |         |            |        |             |             |               |
| F16/2D/827/2P                            | 16W     | GR8q-2  | 2700K      | 1056lm | 138mm       | 141mm       | 15mm          |
| <b>4 Pin 2D Compact fluorescent lamp</b> |         |         |            |        |             |             |               |
| F16/2D/827/4P                            | 16W     | GR10q-4 | 2700K      | 1056lm | 138mm       | 141mm       | 15mm          |
| F16/2D/835/4P                            | 16W     | GR10q-4 | 3500K      | 1056lm | 138mm       | 141mm       | 15mm          |
| F21/2D/827/4P                            | 21W     | GR10q-4 | 2700K      | 1350lm | 138mm       | 141mm       | 15mm          |
| F21/2D/835/4P                            | 21W     | GR10q-4 | 3500K      | 1350lm | 138mm       | 141mm       | 15mm          |
| F28/2D/827/4P                            | 28W     | GR10q-4 | 2700K      | 2050lm | 205mm       | 207mm       | 15mm          |
| F28/2D/835/4P                            | 28W     | GR10q-4 | 3500K      | 2050lm | 205mm       | 207mm       | 15mm          |
| F28/2D/840/4P                            | 28W     | GR10q-4 | 4000K      | 2050lm | 205mm       | 207mm       | 15mm          |
| F28/2D/860/4P                            | 28W     | GR10q-4 | 6000K      | 2050lm | 205mm       | 207mm       | 15mm          |
| F38/2D/827/4P                            | 38W     | GR10q-4 | 2700K      | 2850lm | 205mm       | 207mm       | 15mm          |
| F38/2D/835/4P                            | 38W     | GR10q-4 | 3500K      | 2850lm | 205mm       | 207mm       | 15mm          |
| F38/2D/840/4P                            | 38W     | GR10q-4 | 4000K      | 2850lm | 205mm       | 207mm       | 15mm          |
| F38/2D/860/4P                            | 38W     | GR10q-4 | 6000K      | 2850lm | 205mm       | 207mm       | 15mm          |

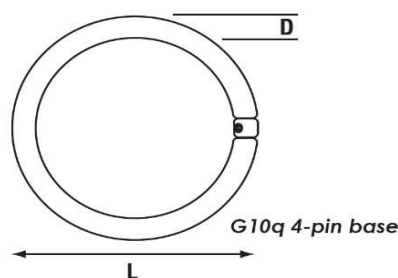
- Good color rendition,  $Ra \geq 80$
- Dimmable by using a specify electronic ballast

- 顯色度高,  $Ra \geq 80$
- 配合指定的電子牛便可調光



## T9 (30mm) Circular Fluorescent Lamps

T9 (30mm) 圓形螢光燈



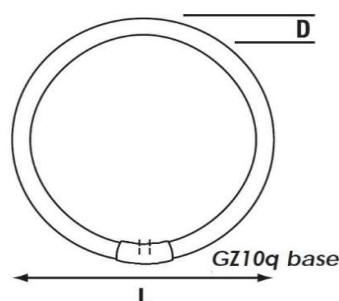
| Model       | Wattage | CRI       | Base   | Color Temp | Lumen  | Diameter (D) | Length (L) |
|-------------|---------|-----------|--------|------------|--------|--------------|------------|
| CIR 22T9/D  | 22W     | 60-69, 2B | G10q-4 | 6500K      | 920lm  | 30mm         | 216mm      |
| CIR 32T9/D  | 32W     | 60-69, 2B | G10q-4 | 6500K      | 1700lm | 30mm         | 307mm      |
| CIR 40T9/WW | 40W     | 60-69, 2B | G10q-4 | 2900K      | 2400lm | 30mm         | 409mm      |
| CIR 40T9/D  | 40W     | 60-69, 2B | G10q-4 | 6500K      | 3200lm | 30mm         | 409mm      |

- Circular shape with high luminous efficacy
- Need to operate with ballast

- 圓形管身具有更好的光輸出效果
- 需配合鎮流器使用

## T5 (16mm) Circular Fluorescent Lamps

T5 (16mm) 圓形螢光燈



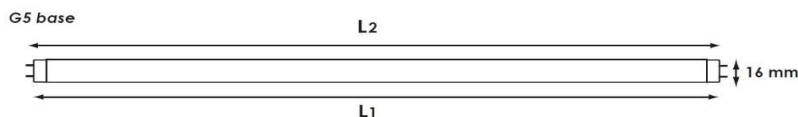
| Model       | Wattage | CRI       | Base  | Color Temp | Lumen  | Diameter (D) | Length (L) |
|-------------|---------|-----------|-------|------------|--------|--------------|------------|
| T5C 22W/865 | 22W     | 80-89, 1B | GZ10q | 6500K      | 1400lm | 16mm         | 185mm      |
| T5C 32W/865 | 32W     | 80-89, 1B | GZ10q | 6500K      | 2350lm | 16mm         | 244mm      |

- Circular shape with high luminous efficacy
- Need to operate with ballast
- Operate with dimmable ballast can achieve the best environment and energy saving purpose

- 圓形管身具有更好的光輸出效果
- 需配合鎮流器使用
- 配合可調光鎮流器達至最佳環境效果或節能要求

## T5 (16mm) Tubular Fluorescent Lamps

T5 (16mm) 光管



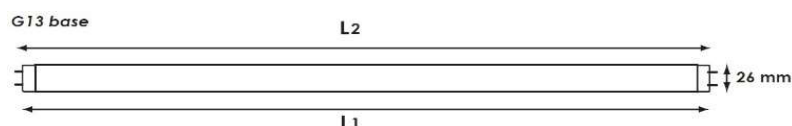
| Model   | Wattage | Color Temp | Lumen | Base | Diameter (D) | Length (L1) | Length (L2) |
|---------|---------|------------|-------|------|--------------|-------------|-------------|
| F8T5/WW | 8W      | 3000K      | 380lm | G5   | 16mm         | 288mm       | 302mm       |
| F8T5/W  | 8W      | 3500K      | 380lm | G5   | 16mm         | 288mm       | 302mm       |
| F8T5/CW | 8W      | 4000K      | 380lm | G5   | 16mm         | 288mm       | 302mm       |
| F8T5/D  | 8W      | 6500K      | 330lm | G5   | 16mm         | 288mm       | 302mm       |

- 8W T5 Fluorescent tube with several color
- Need to operate with ballast

- 具多種色溫8W T5光管
- 需配合鎮流器使用

## T8 (26mm) Tubular Fluorescent Lamps

T8 (26mm) 光管



| Model   | Wattage | Color Temp | Lumen | Base | Diameter (D) | Length (L1) | Length (L2) |
|---------|---------|------------|-------|------|--------------|-------------|-------------|
| F10T8/D | 10W     | 6500K      | 550lm | G13  | 26mm         | 330mm       | 345mm       |
| F15T8/D | 15W     | 6500K      | 850lm | G13  | 26mm         | 438mm       | 451mm       |

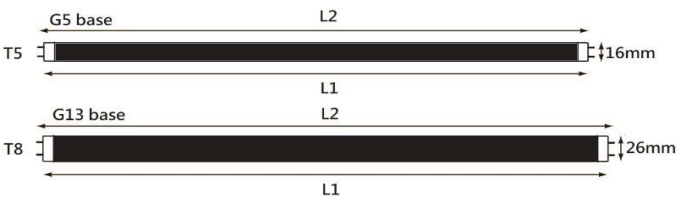
- Special length
- Need to operate with ballast

- 特殊長度
- 需配合鎮流器使用



Blacklight Blue-Special Fluorescent tube

Blacklight Blue - 特殊光管



| Model               | Wattage | Color Temp      | Base | Diameter (D) | Length (L1) | Length (L2) |
|---------------------|---------|-----------------|------|--------------|-------------|-------------|
| T5 Fluorescent tube |         |                 |      |              |             |             |
| F4T5/BLB            | 4W      | Blacklight Blue | G5   | 16mm         | 150mm       | 164mm       |
| F21T5/BLB           | 21W     | Blacklight Blue | G5   | 16mm         | 849mm       | 863mm       |
| T8 Fluorescent tube |         |                 |      |              |             |             |
| F18T8/BLB           | 18W     | Blacklight Blue | G13  | 26mm         | 590mm       | 604mm       |
| F30T8/BLB           | 30W     | Blacklight Blue | G13  | 26mm         | 895mm       | 909mm       |

- Made with Wood's glass and emit UV rays of 360nm mainly
  - Suitable for use as counterfeit detector, special stage effect
  - Applications similar to blacklight lamps
  - Need to operate with ballast
- 採用伍德玻璃製成，主要放出360nm的紫外線
  - 適合用作探測器，特殊的舞台效果
  - 可類似應用作黑光燈
  - 需配合鎮流器使用

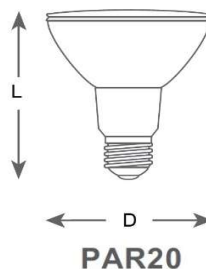


## Low Voltage PAR Halogen Lamp

低壓PAR水池膽



PAR20



PAR20

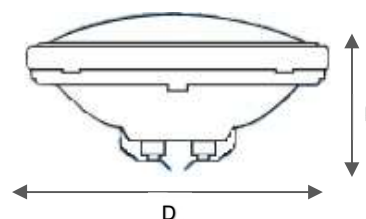
| Model             | Wattage | Voltage | Beam Angle | Base | Diameter (D) | Length (L) |
|-------------------|---------|---------|------------|------|--------------|------------|
| PAR20 100W/FL/12V | 100W    | 12V     | 30° ± 10%  | E27  | 63mm         | 79mm       |

- Voltage 12V, need to operate with a low voltage transformer
- E27 lamp base, easy to install
- Excellent use in pool lighting

- 12V 電壓，需配合降壓鎮流器使用
- E27燈頭，易於安裝
- 非常適合在泳池照明

## Low Voltage PAR Halogen Lamp

低壓PAR水池膽



| Model          | Wattage | Voltage | Beam Angle | Base           | Diameter (D) | Length (L) |
|----------------|---------|---------|------------|----------------|--------------|------------|
| PAR56 300W/12V | 300W    | 12V     | 30° ± 10%  | Screw Terminal | 178mm        | 127mm      |

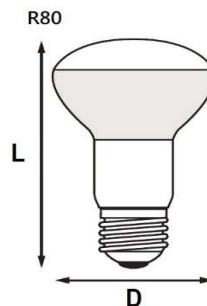
- Voltage 12V, need to operate with a low voltage transformer
- Excellent use in pool lighting

- 12V 電壓，需配合降壓鎮流器使用
- 非常適合在泳池照明



## Incandescent R80 Reflector Lamp

R80 鎢絲反射膽



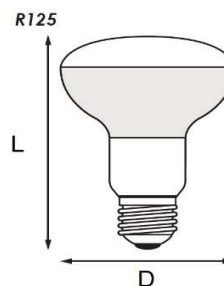
| Model        | Wattage | Voltage  | Base | Beam Angle | Diameter (D) | Length (L) |
|--------------|---------|----------|------|------------|--------------|------------|
| R80 100W/E27 | 100W    | 220-240V | E27  | 40° ± 10%  | 80mm         | 110mm      |

- Wide range of uses
- Dimmable
- E27 lamp base, easy to install

- 用途廣泛
- 可調光
- E27燈頭，易於安裝

## Incandescent R125 Infrared Heat Lamp

R125 紅外線暖膽



| Model        | Wattage | Voltage  | Base | Beam Angle | Diameter (D) | Length (L) |
|--------------|---------|----------|------|------------|--------------|------------|
| R125/IR 275W | 275W    | 220-240V | E27  | 30°        | 125mm        | 185mm      |

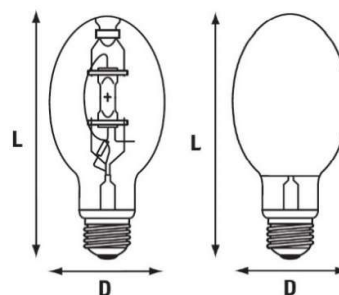
- Hard glass bulb shell in enduring temperature change
- Special cement to ensure of no loosening lamp base for prolong usage
- Average life time 5,000 hours

- 耐久溫度變化的堅硬玻璃球殼
- 特殊物料，確保燈座不會因高溫而鬆動，延長使用壽命
- 平均壽命為5,000小時



## Single-Ended Metal Halide Lamps

單端金屬鹵素膽



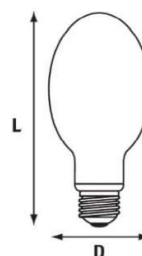
| Model           | Wattage | Color Temp | Lumen     | Base | Glass  | Diameter (D) | Length (L) |
|-----------------|---------|------------|-----------|------|--------|--------------|------------|
| MH-E70/WDL/CL   | 70W     | 3000K      | 5,200 lm  | E27  | Clear  | 55mm         | 137 ± 3mm  |
| MHP-E70/WDL     | 70W     | 3000K      | 4,800 lm  | E27  | Coated | 55mm         | 137 ± 3mm  |
| MH-E70/NDL/CL   | 70W     | 4000K      | 5,500 lm  | E27  | Clear  | 55mm         | 137 ± 3mm  |
| MHP-E70/NDL     | 70W     | 4000K      | 5,100 lm  | E27  | Coated | 55mm         | 137 ± 3mm  |
| MHP-E100/NDL/CL | 100W    | 4000K      | 8,400 lm  | E27  | Clear  | 55mm         | 137 ± 3mm  |
| MHP-E100/NDL    | 100W    | 4000K      | 7,800 lm  | E27  | Coated | 55mm         | 137 ± 3mm  |
| MH-E150/WDL/CL  | 150W    | 3000K      | 12,500 lm | E27  | Clear  | 55mm         | 137 ± 3mm  |
| MH-E150/WDL     | 150W    | 3000K      | 11,800 lm | E27  | Coated | 55mm         | 137 ± 3mm  |
| MH-E150/NDL/CL  | 150W    | 4000K      | 12,500 lm | E27  | Clear  | 55mm         | 137 ± 3mm  |
| MH-E150/NDL     | 150W    | 4000K      | 11,800 lm | E27  | Coated | 55mm         | 137 ± 3mm  |

- High Luminous efficacy with very good colour rendition
- Universal burning position
- Long burning hours

- 高光效，具有非常好的顯色度
- 全方位燃點方位
- 使用壽命長

## Single-Ended High Pressure Sodium Lamps - SON-E/I

單端高壓鈉膽 - 內置點火器



| Model      | Wattage | Integral ignitor | Lumen    | Base | Glass  | Diameter (D) | Length (L) |
|------------|---------|------------------|----------|------|--------|--------------|------------|
| SON-E 70/I | 70W     | Yes              | 4,600 lm | E27  | Coated | 70mm         | 156mm      |

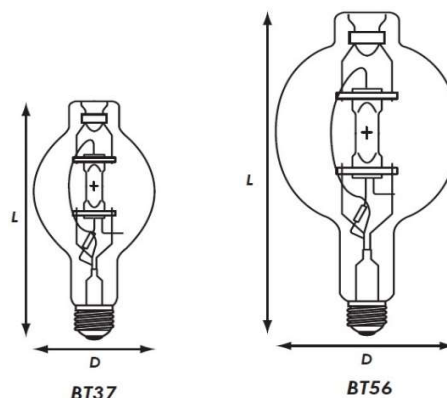
- High Luminous efficacy with very good colour rendition
- Universal burning position
- Long burning hours

- 高光效，具有非常好的顯色度
- 全方位燃點方位
- 使用壽命長



## US Single-Ended Metal Halide Lamps

美式單端金屬鹵素膽



| Model          | Wattage | Color Temp | Lumen      | Base | Glass  | Diameter (D) | Length |
|----------------|---------|------------|------------|------|--------|--------------|--------|
| MH-1000/U BT37 | 1000W   | 4000K      | 110,000 lm | E39  | Clear  | 118mm        | 292mm  |
| MH-1000/U BT56 | 1000W   | 4000K      | 110,000 lm | E39  | Clear  | 178mm        | 391mm  |
| MH-1000/U BT56 | 1000W   | 4000K      | 110,000 lm | E40  | Clear  | 178mm        | 391mm  |
| MH-1000/C BT56 | 1000W   | 4000K      | 105,000 lm | E39  | Coated | 178mm        | 391mm  |

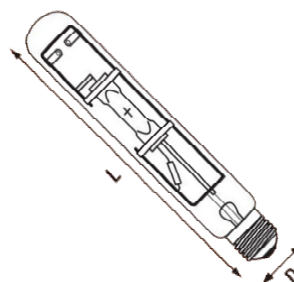
- High Luminous efficacy with very good colour rendition
- Universal burning position
- Long burning hours

- 高光效 · 具有非常好的顯色度
- 全方位燃點方位
- 使用壽命長



## EU Single-Ended Metal Halide Lamps

歐式單端金屬鹵素膽



| Model            | Wattage | Color Temp | Lumen      | Base | Glass | Diameter (D) | Length |
|------------------|---------|------------|------------|------|-------|--------------|--------|
| MH-T 1000W/N T65 | 1000W   | 4300K      | 110,000 lm | E40  | Clear | 64mm         | 377mm  |

- High Luminous efficacy with very good colour rendition
- Universal burning position
- Long burning hours

- 高光效 · 具有非常好的顯色度
- 全方位燃點方位
- 使用壽命長



## LED Blowing Control lamp

LED 懷舊調光吹控燈

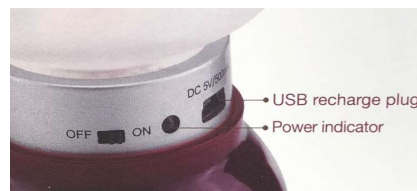


| Model      | Rated Power | Color Temp | Dimmable | Input       | Rechargeable Battery |
|------------|-------------|------------|----------|-------------|----------------------|
| LED-BCL 1W | 1W          | 2900K      | YES      | 500mA/DC 5V | 600mAh               |

- Switch the LED light on and off by blowing the light.
- Adjustable LED brightness.
- Ultra-bright LED, harmless to eyes, long life time.
- Built in high capacity rechargeable battery, energy saving, convenient and safe.
- Rechargeable by USB power cable

- 對著燈罩裡面吹可點亮或熄滅LED燈
- 具備燈光強弱調節功能
- 採用進口高亮LED燈，護眼無閃頻，使用壽命長
- 產品內置高容量可充電電池，節能，方便，安全
- 使用USB電源線充電

### Accessories

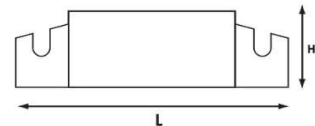
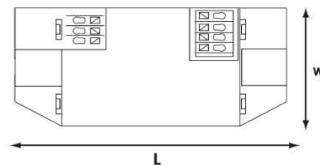


The image features a solid red background. A large, white, abstract shape, resembling a stylized 'L' or a corner, is positioned on the right side, extending from the bottom left towards the top right. The text 'TRADITIONAL BALLAST' is centered in the red area.

# **TRADITIONAL BALLAST**

## For Multi-wattage Compact fluorescent lamp

適用於多款緊湊型熒光燈



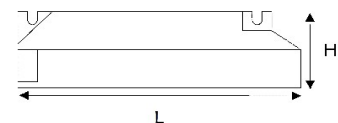
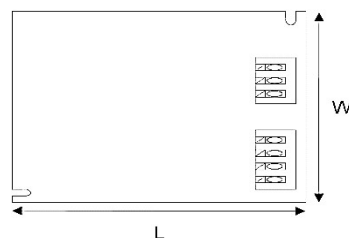
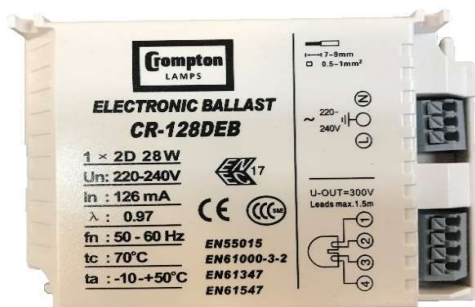
| Model    | Suitable for Lamps Type | Min - Max Voltage | Frer. (Hz) | Amp (A) | Length (L) | Width (W) | Height (H) |
|----------|-------------------------|-------------------|------------|---------|------------|-----------|------------|
| CR-121EB | G5: 6W/8W/13W/14W/21Wx1 | 220-240V          | 50/60Hz    | 0.104   | 81mm       | 40mm      | 22mm       |
|          | 2G7: 7W/9W/11W          |                   |            |         |            |           |            |
|          | G24q: 10W/13W/18W       |                   |            |         |            |           |            |
|          | GR10q: 10W/16W/21W      |                   |            |         |            |           |            |

- Wide range of uses for several wattage / kinds lamp type
- Shutdown in response to lamps failure or end of lamp life
- Automatic restart after lamp replacement
- Safety acc. to EN61347-1, EN61347-2-3

- 用途廣泛，適用於多種瓦數/多種類型燈款
- 當燈泡損壞或壽命完結時自動關掉
- 更換新燈泡後自動重開
- 安全標準符合 EN61347-1, EN61347-2-3

## For 2D Compact Fluorescent lamp

適用2D緊湊型熒光燈(蝴蝶管)



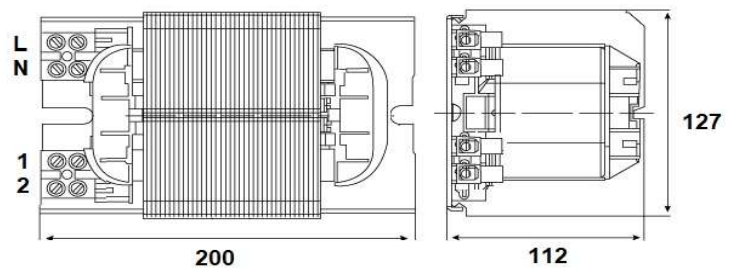
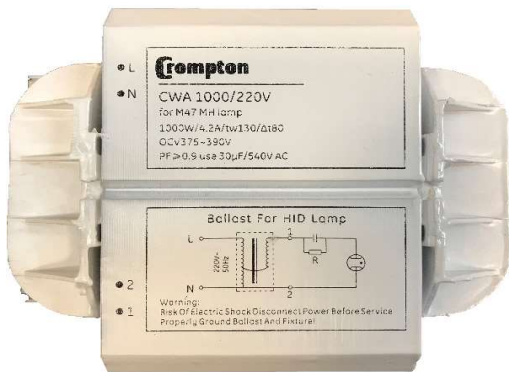
| Model     | Suitable for Lamps Type | Min - Max Voltage | Frer. (Hz) | Amp (A) | Length (L) | Width (W) | Height (H) |
|-----------|-------------------------|-------------------|------------|---------|------------|-----------|------------|
| CR-128DEB | 2D 28W CFL              | 198-253V          | 50/60Hz    | 0.124   | 103mm      | 67mm      | 30mm       |
| CR-138DEB | 2D 38W CFL              | 198-253V          | 50/60Hz    | 0.169   | 103mm      | 67mm      | 30mm       |

- Shutdown in response to lamps failure or end of lamp life
- Automatic restart after lamp replacement
- Safety acc. to EN61000-3-2, EN61347, EN61547, EN55015

- 當燈泡損壞或壽命完結時自動關掉
- 更換新燈泡後自動重開
- 安全標準符合 EN61000-2-3, EN61347, EN61547, EN55015

## Magnetic Ballast for 1000W American standard metal halide lamp

1000W 美式金鹵燈電感鎮流器

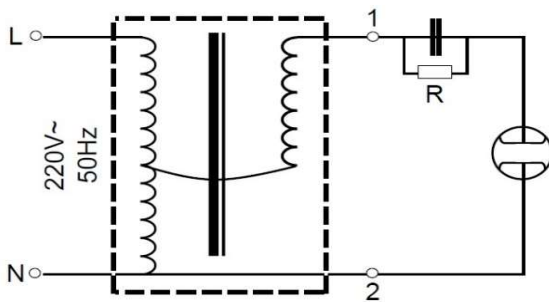


| Model         | Suitable for Lamps Type                   | Voltage (V) | Frer. (Hz) | Power (W) | Lambda (λ) |
|---------------|-------------------------------------------|-------------|------------|-----------|------------|
| CWA1000W/220V | 1000W American standard Metal Halide Lamp | 220-240V    | 50/60Hz    | 1080      | ≥ 0.9      |

- Supply Voltage 220-240V
- Main frequency: 50/60Hz
- Use with 30uF capacitor
- Weight : 11.5kg
- Length (L) : 200mm
- Width (W) : 127mm
- Height (H) : 112mm

- 電源電壓: 220-240V
- 頻率: 50/60Hz
- 重量: 11.5kg
- 長度: 200mm
- 闊度: 127mm
- 高度: 112mm

- 配合30uF電容使用
- 540V Capcitor for US ballast



1000W HID Ballast Wiring Diagram









**英國名牌 百年歷史**

**2023-2024**

**Ver. 1.0**