

2023 - 2024

LED
PRODUCT
CATALOGUE



Prosperity Lamps and Components Limited

is the headquarters of Prosperity Group, founded in 1978. Prosperity has a long committed involvement in Hong Kong's lighting industry. After more than four decades of full support from suppliers, customers and employees, the group has become one of the leading and professional suppliers of various light sources, accessories and related machineries for the lighting industries.

China's rapid economic growth since the eighties called for foreign capital and technology to boost its illumination industry. In 1995, Prosperity and Osram set up a joint venture company in Hong Kong—Osram Prosperity Company Limited to market lighting products made by Osram and Prosperity. It also supplies and promotes lighting technology solutions to customers in Hong Kong and Macau. In 2016, the company was renamed **Ledvance Prosperity Company Limited**.

To strengthen our position in China, in 1997 Prosperity established a wholly-owned factory in Langfang—**Prosperity Electric (China) Company Limited** to manufacture lamps and lighting fixtures for both local and export markets.

In 2000, **Guizhou Prosperity Professional Lighting Design and Engineering Company Limited** was established in Guizhou, providing lighting solutions with an artistic eye for creative design, particularly in cave lighting.

Prosperity (Hangzhou) Lighting Electrical Company Limited

was established in 2002 after the acquisition of Hangzhou lamp factory. It specialized in manufacturing a comprehensive range of traditional lighting and LED products. In the same year, Hangzhou Times Lighting and Electric Appliance Company Limited was also set up. After years of development, it became a leading manufacturer in China for High Intensity Discharge (HID) lamps. In 2022, the company was renamed **Shaoxing Times Lighting Technology Company Limited**.

In 2004, Prosperity and SITECO GmbH set up a joint venture company—**SITECO Prosperity Lighting (Langfang) Company Limited** to specialize in manufacturing professional luminaires for local and export markets. In 2012, Osram acquired Siteco GmbH and become the shareholder of this company.

In order to strength our market position in the lighting solution segment, **SPL Lighting (Hong Kong) Company Limited** was established in 2005 aiming to provide customized lighting solutions for the Hong Kong and Macau market.

In 2008, Prosperity and Efesto S.R.L. Italy set up a joint venture company—**Efesto Prosperity (Hangzhou) Metal Die-Casting Company Limited** at Fuyang to manufacture aluminum die-cast parts for lighting, automotive and furniture industries.

In 2018, **Teamslitek Prosperity (Shanghai) Lighting Company Limited** was set up to

provide end to end lighting solutions for the Eastern China market.

In 2020, Prosperity Group has successfully acquired **Luxlight**, one of the leading lighting solutions providers in Singapore, expanding our reach into the South East Asian market, the first step in Prosperity's goal to become a major lighting player regionally in the Asia Pacific.

In addition to the lighting business, Prosperity has established a solid presence in various industry sectors such as aluminum die-casting, semiconductor raw materials, chemicals production and other industrial materials production. Prosperity has strategically diversified portfolio to achieve optimal financial results amid a period of increasing global complexity and uncertainty.

Prosperity is willing to share our innovative expertise, quality products and industrial experience with its customers and partners. The rapid establishment of sales offices and manufacturing facilities demonstrates Prosperity's dedication to service both the domestic Chinese and the worldwide lighting markets.

Sustainable development is the integral part of the group defining itself as Prosperity. After years of thriving, with efficient and resource-friendly production processes, state-of-the-art solutions, healthy and stable financials and long-accumulated expertise, Prosperity continues to move forward to achieve our goal of improving quality of life for everyone.



Prosperity Lamps and Components Limited
Ledvance Prosperity Company Limited
SPL Lighting (Hong Kong) Company Limited



Prosperity (Hangzhou) Lighting Electrical Company Limited
Shaoxing Times Lighting Technology Company Limited



Prosperity Electric (China) Company Limited



Hong Kong-Zhuhai-Macau Bridge, Hong Kong Port



Elements



MTR-The Shatin to Central Link, Hung Hom Station



Guangzhou-Shenzhen-Hong Kong Express Rail Link, West Kowloon Terminus





Xiqu Center



St Paul's Hospital



North Lantau Hospital



Studio City, Macau



The Mood Lyndhurst Terrace



Hong Kong Convention and Exhibition Centre



International Commerce Centre



South China Athletic Association



Po Kong Village Road Park



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LOW VOLTAGE LAMP



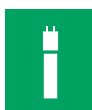
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SMART PRODUCTS



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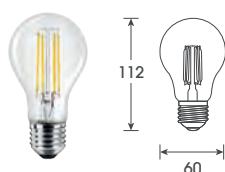
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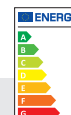
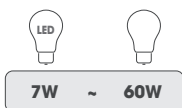
Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Overall light distribution
- Good color rendition, Ra ≥ 80

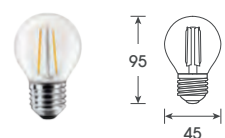
Smart Filament-LED A60



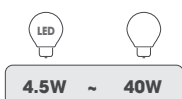
Model	Voltage	Wattage	Base	Color Temp	Lumen	ENERGY*
LED-SMT A60 FIL-7W-G CL TW DIM	220 - 240V	7W	E27	2700K - 6500K	806lm	E



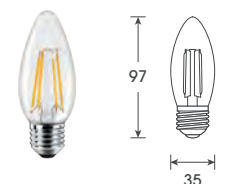
Smart Filament-LED Round



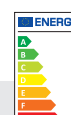
Model	Voltage	Wattage	Base	Color Temp	Lumen	ENERGY*
LED-SMT G45 FIL-4.5W-G CL TW DIM	220 - 240V	4.5W	E27	2700K - 6500K	470lm	F



Smart Filament-LED Candle



Model	Voltage	Wattage	Base	Color Temp	Lumen	ENERGY*
LED-SMT C35 FIL-4.5W-G CL TW DIM	220 - 240V	4.5W	E27	2700K - 6500K	470lm	F

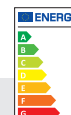




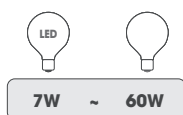
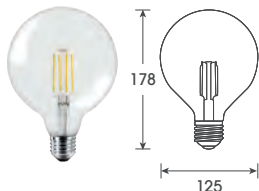
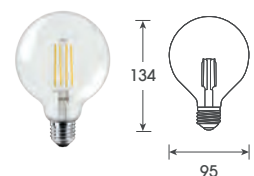
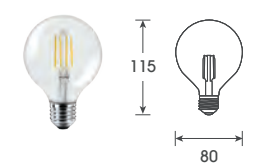
Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Overall light distribution
- Good color rendition, Ra ≥ 80

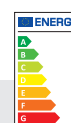
Smart Filament-LED Globe



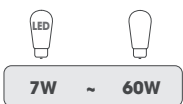
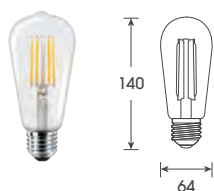
Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED-SMT G80 FIL-7W-G CL TW DIM	220 - 240V	7W	E27	2700K - 6500K	806lm	E
LED-SMT G95 FIL-7W-G CL TW DIM	220 - 240V	7W	E27	2700K - 6500K	806lm	E
LED-SMT G125 FIL-7W-G CL TW DIM	220 - 240V	7W	E27	2700K - 6500K	806lm	E



Smart Filament-LED ST64



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED-SMT ST64 FIL-7W-G CL TW DIM	220 - 240V	7W	E27	2700K - 6500K	806lm	E

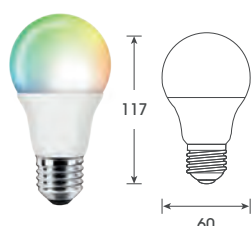




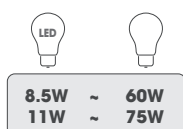
Features

- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Vivid and multiple color changing with over 16 million colors
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Good color rendition, Ra ≥ 80

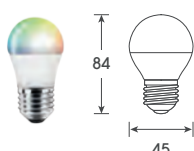
Smart Thermal Plastic LED A60



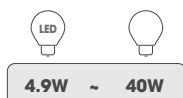
Model	Voltage	Wattage	Base	Color Temp	Lumen	ENERGY STAR
Tunable White						
LED-SMT TP A60 8.5W TW DIM	220 - 240V	8.5W	E27 / B22d	2700K - 6500K	800lm	F
Tunable White + RGB						
LED-SMT TP A60 8.5W RGBTW DIM	220 - 240V	8.5W	E27 / B22d	2700K - 6500K	800lm	F
LED-SMT TP A60 11W RGBTW DIM	220 - 240V	11W	E27 / B22d	2700K - 6500K	1055lm	F



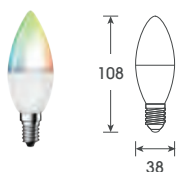
Smart Thermal Plastic LED Round



Model	Voltage	Wattage	Base	Color Temp	Lumen	ENERGY STAR
Tunable White						
LED-SMT TP G45 4.9W TW DIM	220 - 240V	4.9W	E27 / B22d	2700K - 6500K	470lm	F
Tunable White + RGB						
LED-SMT TP G45 4.9W RGBTW DIM	220 - 240V	4.9W	E27 / B22d	2700K - 6500K	470lm	F



Smart Thermal Plastic LED Candle



Model	Voltage	Wattage	Base	Color Temp	Lumen	ENERGY STAR
Tunable White						
LED-SMT TP C35 4.9W TW DIM	220 - 240V	4.9W	E14	2700K - 6500K	470lm	F
Tunable White + RGB						
LED-SMT TP C35 4.9W RGBTW DIM	220 - 240V	4.9W	E14	2700K - 6500K	470lm	F





Features

- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Vivid and multiple color changing with over 16 million colors
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Good color rendition, Ra ≥80

Smart Thermal Plastic LED GU10



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen	
Tunable White							
LED-SMT TP GU10 4.5W TW DIM	220 - 240V	4.5W	GU10	45°	2700K - 6500K	345lm	F
Tunable White + RGB							
LED-SMT TP GU10 4.5W RGBTW DIM	220 - 240V	4.5W	GU10	45°	2700K - 6500K	345lm	F



LED Smart Ceiling Light NC201E-NC203E



Features

- 18W / 24W / 36W LED Smart Ceiling Light
- Extremely energy saving with low power consumption
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Good color rendition, $Ra \geq 80$

Materials / Finish

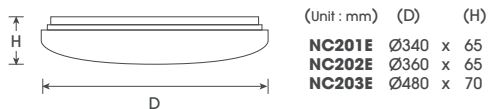
- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
NC201E-18W/TW	220 - 240V	18W	2700K - 6500K	170°	1800lm	F
NC202E-24W/TW	220 - 240V	24W	2700K - 6500K	170°	2450lm	F
NC203E-36W/TW	220 - 240V	36W	2700K - 6500K	170°	3780lm	F



LED Smart Ceiling Light NC241S



Features

- 20W LED Smart Ceiling Light
- Extremely energy saving with low power consumption
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Vivid and multiple color changing with over 16 million colors at backward light
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Good color rendition, Ra ≥ 80

Materials / Finish

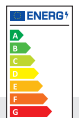
- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NC241S-20W/RGBTW	220 - 240V	20W	2700K - 6500K	170°	1980lm	F

Backward RGB 5W

LED Smart Floodlight UF261S



Features

- 30W LED Smart Floodlight
- Extremely energy saving with low power consumption
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Vivid and multiple color changing with over 16 million colors
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Support Matter protocol
- Good color rendition, Ra ≥ 80

Materials / Finish

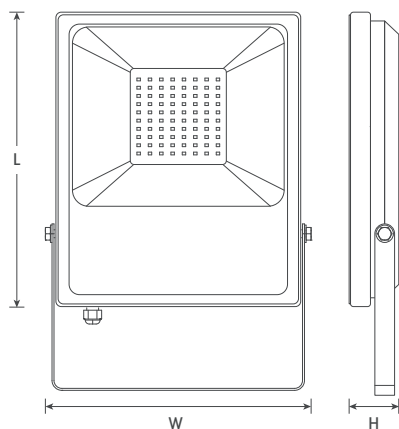
- Body: Sturdy die cast aluminium housing with anodised steel bracket and extruded silicone rubber gasket
- Diffuser: Toughened glass
- Black color

Installation / Mounting

- Suitable for mast mounting and wall mounting

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 65



(Unit : mm) (L) (W) (H)
UF261S 170 x 146 x 35

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
UF261S-30W/RGBTW	100 - 240V	30W	2700K - 6500K	115°	2850lm	E



LED Smart Striplight RGBTW



Features

- Extremely energy saving with low power consumption
- High brightness and multi-functional linear decoration
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually and customize your own lighting preferences
- Customize timer schedule to optimize energy efficiency
- Remote control the lamps from anywhere and anytime
- Vivid and multiple color changing with over 16 million colors
- Tunable White from 2700K to 6500K
- Smooth dimming range from 1% to 100%
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Support Matter protocol
- Good color rendition, $R_a \geq 80$

Materials / Finish

- Chips: SMD 5050

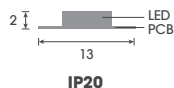
Installation / Mounting

- Easy to install with 3M adhesive tape, mounting brackets and profile

Standards

- EMC, RoHS
- Class III Electrical
- IP 20

IP Structures



Model	Voltage	Wattage	Color Temp	Lumen	PCB Width	Cutting Unit	No. of LEDs
LED 5050 24W 13-360 RGBTW	100 - 240V	24W/5m	2700K - 6500K	2000lm/5m	13mm	125mm/9LEDs	360 pcs/5m

Package Content: 5m per reel, max.2000lm/reel



Features

- Monitor real-time energy consumption
- Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- Control in a group or individually
- Customize timer schedule to optimize energy efficiency
- Remote control the electrical devices ON/OFF from anywhere and anytime
- Compact design without blocking adjacent sockets
- Support Matter protocol

Smart Plug EU Type



Model	Input Voltage	Rated Power	Max. Current	Size	Lifetime
PLUG-SMT/16A/EU	180 - 250V	2300W	16A	Ø53 x 86mm	30000hrs

Smart Plug UK Type



Model	Input Voltage	Rated Power	Max. Current	Size	Lifetime
PLUG-SMT/13A/UK	180 - 250V	3100W	13A	55 x 55 x 58mm	10000hrs

Smart Plug US Type



Model	Input Voltage	Rated Power	Max. Current	Size	Lifetime
PLUG-SMT/15A/US	100 - 132V	3100W	15A	51 x 51 x 50mm	30000hrs

Smart Plug AUS Type



Model	Input Voltage	Rated Power	Max. Current	Size	Lifetime
PLUG-SMT/10A/AU	220 - 240V	2400W	10A	69 x 55 x 57mm	30000hrs



LOW VOLTAGE LAMP



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LED A60
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LED MR8
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LED MR11
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LED MR16
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LED AR111
P. 23



LED PAR
P. 24



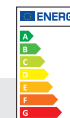
LED G4/GY6.35



Features

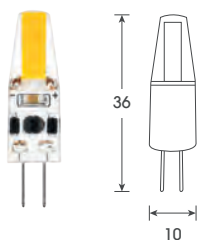
- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional halogen lamps with compact size
- Suitable for operation with all magnetic transformers, LED drivers and most electronic ballasts

LED COB G4



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G4 COB-1W	12 - 24V AC / DC	1W	G4	3000K / 4000K / 6500K	100lm / 103lm / 105lm	F
LED G4 COB-2W	12 - 24V AC / DC	2W	G4	3000K / 4000K / 6500K	160lm / 165lm / 170lm	G

LED	~	LED
1W	~	12W
2W	~	18W

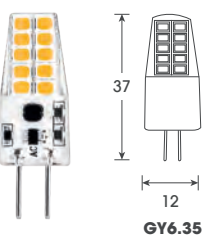
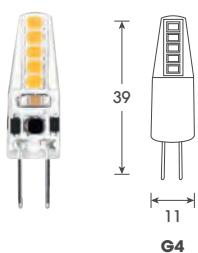


LED G4/GY6.35



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G4 2W	12 - 24V AC / DC	2W	G4	3000K / 4000K / 6500K	220lm / 230lm / 235lm	F
LED G4 2.5W	12 - 24V AC / DC	2.5W	G4	3000K / 4000K / 6500K	260lm / 270lm / 280lm	F
LED GY6.35 2.5W	12 - 24V AC / DC	2.5W	GY6.35	3000K / 4000K / 6500K	260lm / 270lm / 280lm	F

LED	~	LED
2W	~	23W
2.5W	~	27W

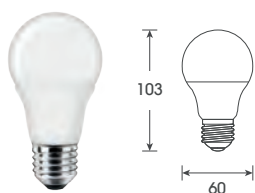




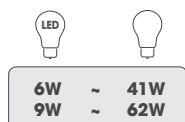
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional incandescent light source in traffic signals, EM lighting and outdoor lighting with 25 times longer life
- Extra low voltage (ELV) safe against electric shock, especially in damp locations

Thermal Plastic LED A60 12V/24V



Model	Voltage	Wattage	Base	Color Temp	Lumen		
					3000K	4000K	6500K
LED TP A60 6W	12V AC / DC	6W	E27 / B22d	3000K / 4000K / 6500K	470lm	480lm	490lm
LED TP A60 9W	12V AC / DC	9W	E27 / B22d	3000K / 4000K / 6500K	800lm	825lm	850lm
LED TP A60 6W	24V AC / DC	6W	E27 / B22d	3000K / 4000K / 6500K	470lm	480lm	490lm
LED TP A60 9W	24V AC / DC	9W	E27 / B22d	3000K / 4000K / 6500K	800lm	825lm	850lm



Ecodesign and Energy Labelling Regulations exempted

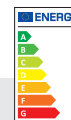




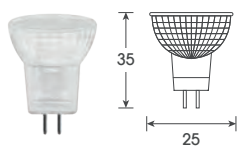
Features

- Extremely energy saving with low power consumption
- Aesthetic reflector optics
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional MR8 with identical size
- Broad compatibility with magnetic and 6V / 12V AC electronic transformers
- At least 20% loading of power rating is required for 6V / 12V AC electronic transformers

Glass LED MR8



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K		
LED G MR8 1W	6V AC / DC	1W	GZ4	40°	3000K / 4000K / 6500K	80lm / 85lm / 90lm	F	
LED G MR8 2.5W	12V AC / DC	2.5W	GZ4	40°	3000K / 4000K / 6500K	200lm / 205lm / 210lm	F	



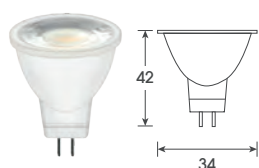
1W ~ 10W
2.5W ~ 20W



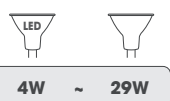
Features

- Extremely energy saving with low power consumption
- Aesthetic reflector optics
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional MR11 with identical size
- Broad compatibility with magnetic and 12V AC electronic transformers
- At least 20% loading of power rating is required for 12V AC electronic transformers

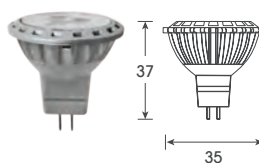
Thermal Plastic LED MR11



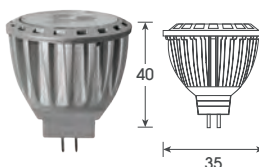
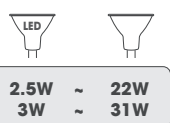
Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	ENERGY
LED TP MR11 4W	12V AC / DC	4W	GU4	38° / 60°	3000K / 4000K / 6500K	270lm / 280lm / 290lm	G



LED MR11



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	ENERGY
LED MR11 2.5W	12V AC / DC	2.5W	GU4	30°	3000K / 4000K / 6500K	200lm / 205lm / 210lm	F
LED MR11 3W	12V AC / DC	3W	GU4	30°	3000K / 4000K / 6500K	270lm / 290lm / 310lm	F

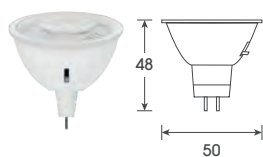
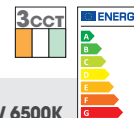




Features

- Extremely energy saving with low power consumption
- Aesthetic reflector optics
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional MR16 with identical size
- Broad compatibility with magnetic and 12V AC electronic transformers

Thermal Plastic LED MR16 3CCT

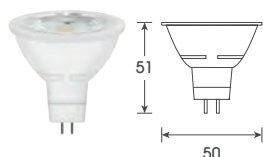
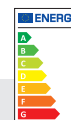


Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP MR16 6W 3CCT	12V AC / DC	6W	GU5.3	38°	3000K - 4000K - 6500K	485lm / 530lm / 580lm	F

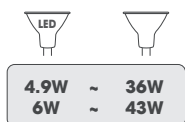


Selectable CCT via dip-switch
Inventory cost saving

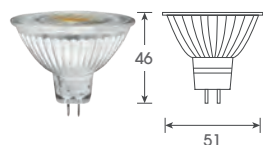
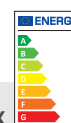
Thermal Plastic LED MR16



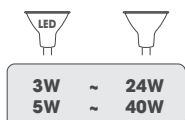
Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP MR16 4.9W	12V AC / DC	4.9W	GU5.3	38°	3000K / 4000K / 6500K	345lm / 355lm / 365lm	G
LED TP MR16 6W	12V AC / DC	6W	GU5.3	38°	3000K / 4000K / 6500K	485lm / 495lm / 505lm	F



Glass LED MR16



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G MR16 3W	12V AC / DC	3W	GU5.3	30° / 60°	3000K / 4000K / 6500K	235lm / 240lm / 245lm	F
LED G MR16 5W	12V AC / DC	5W	GU5.3	30° / 60°	3000K / 4000K / 6500K	410lm / 425lm / 440lm	F

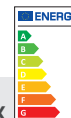




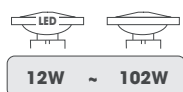
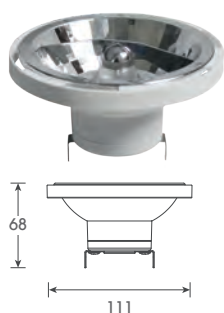
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥ 80
- Ideal retrofit solution for spot lighting applications in retail industry
- Broad compatibility with magnetic and 12V AC electronic transformers

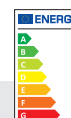
Thermal Plastic LED AR111



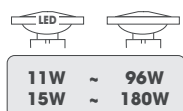
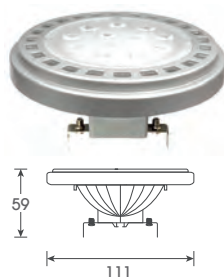
Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP AR111 12W	12V AC / DC	12W	G53	10° / 24° / 45°	3000K / 4000K / 6500K	880lm / 900lm / 920lm	G



LED AR111



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED AR111 11W	12V AC / DC	11W	G53	30°	3000K / 4000K / 6500K	860lm / 870lm / 880lm	F
LED AR111 15W	12V AC / DC	15W	G53	30°	3000K / 4000K / 6500K	1300lm / 1370lm / 1440lm	F

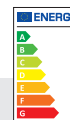




Features

- Extremely energy saving with low power consumption
- Full glass reflector
- Good color rendition, $R_a \geq 80$
- Frontal lens in total silicon sealing
- Suitable for pool / fountain and outdoor lighting with waterproof fixtures

Glass LED PAR38 12-24V



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen			
						3000K	4000K	6500K	
LED G PAR38 12W	12 - 24V AC / DC	12W	E27	60°	3000K / 4000K / 6500K	950lm	975lm	1000lm	F



12W ~ 115W





LINE VOLTAGE LAMP



LED FILAMENT
P. 26 - 34



LED DECOR FILAMENT
P. 35 - 39



LED DECOR CROWN SILVER
P. 40



LED DECOR COLOR
P. 41 - 42



LED GX53
P. 43



LED THERMAL PLASTIC BULB
P. 44 - 49



LED G9
P. 50 - 51



LED T25 / ST26
P. 52



LED T38 / T41
P. 53 - 54



LED HIGH POWER LAMP
P. 55



LED GU10
P. 56 - 57



LED PAR
P. 58 - 59



LED R39/R50/R63/R80
P. 60



LED R7S
P. 61



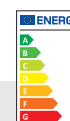
LED TUBULAR STRIPLIGHT
P. 62



Filament-LED A60/A70 Clear/Opal

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED A60 FIL-4W-G CL	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED A60 FIL-6.5W-G CL	220 - 240V	6.5W	E27 / B22d	2700K	806lm	E
LED A60 FIL-8.5W-G CL	220 - 240V	8.5W	E27 / B22d	2700K	1055lm	E
LED A70 FIL-12W-G CL	220 - 240V	12W	E27 / B22d	2700K	1521lm	E
LED A60 FIL-4.5W-G CL DIM	220 - 240V	4.5W	E27 / B22d	2700K	470lm	F
LED A60 FIL-8W-G CL DIM	220 - 240V	8W	E27 / B22d	2700K	806lm	F
LED A70 FIL-12W-G CL DIM	220 - 240V	12W	E27 / B22d	2700K	1521lm	E
LED A60 FIL-4W-G OP	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED A60 FIL-7W-G OP	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED A60 FIL-4W-G OP DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED A60 FIL-7W-G OP DIM	220 - 240V	7W	E27 / B22d	2700K	780lm	E



4W	~	40W
4.5W	~	40W
6.5W	~	60W
7W	~	58W

8W	~	60W
8.5W	~	75W
12W	~	100W



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED A60 FIL-3.4W-G CL	220 - 240V	3.4W	E27 / B22d	2700K	470lm	D
LED A60 FIL-5.8W-G CL	220 - 240V	5.8W	E27 / B22d	2700K	806lm	D
LED A60 FIL-7.6W-G CL	220 - 240V	7.6W	E27 / B22d	2700K	1055lm	D
LED A60 FIL-10.9W-G CL	220 - 240V	10.9W	E27 / B22d	2700K	1521lm	D
LED A60 FIL-3.4W-G CL DIM	220 - 240V	3.4W	E27 / B22d	2700K	470lm	D
LED A60 FIL-5.8W-G CL DIM	220 - 240V	5.8W	E27 / B22d	2700K	806lm	D
LED A60 FIL-10.9W-G CL DIM	220 - 240V	10.9W	E27 / B22d	2700K	1521lm	D
LED A60 FIL-3.4W-G OP	220 - 240V	3.4W	E27 / B22d	2700K	470lm	D
LED A60 FIL-5.8W-G OP	220 - 240V	5.8W	E27 / B22d	2700K	806lm	D
LED A60 FIL-7.6W-G OP	220 - 240V	7.6W	E27 / B22d	2700K	1055lm	D
LED A60 FIL-10.9W-G OP	220 - 240V	10.9W	E27 / B22d	2700K	1521lm	D
LED A60 FIL-3.4W-G OP DIM	220 - 240V	3.4W	E27 / B22d	2700K	470lm	D
LED A60 FIL-5.8W-G OP DIM	220 - 240V	5.8W	E27 / B22d	2700K	806lm	D
LED A60 FIL-10.9W-G OP DIM	220 - 240V	10.9W	E27 / B22d	2700K	1521lm	D



3.4W	~	40W
5.8W	~	60W
7.6W	~	75W
10.9W	~	100W



Filament-LED A60 Class-A Clear/Opal

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Supreme efficacy up to 214lm/W
- The highest energy efficiency class A in the market
- Save over 93% energy consumption
- Overall light distribution
- Good color rendition, Ra ≥ 80

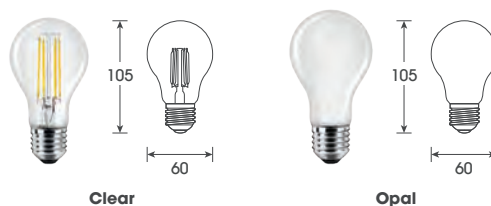
CLASS A

214lm/W

EUROPE

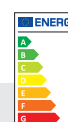


LINE VOLTAGE LAMP



Clear

Opal



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED A60 FIL-2.2W-G CL	220 - 240V	2.2W	E27 / B22d	3000K	470lm	A
LED A60 FIL-3.8W-G CL	220 - 240V	3.8W	E27 / B22d	3000K	806lm	A
LED A60 FIL-5W-G CL	220 - 240V	5W	E27 / B22d	3000K	1055lm	A
LED A60 FIL-7.2W-G CL	220 - 240V	7.2W	E27 / B22d	3000K	1521lm	A
LED A60 FIL-2.2W-G OP	220 - 240V	2.2W	E27 / B22d	3000K	470lm	A
LED A60 FIL-3.8W-G OP	220 - 240V	3.8W	E27 / B22d	3000K	806lm	A
LED A60 FIL-5W-G OP	220 - 240V	5W	E27 / B22d	3000K	1055lm	A
LED A60 FIL-7.2W-G OP	220 - 240V	7.2W	E27 / B22d	3000K	1521lm	A



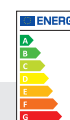
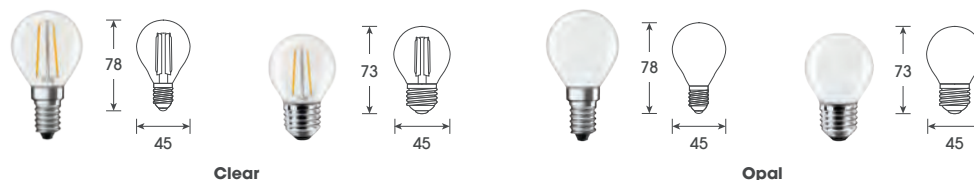
2.2W	~	40W
3.8W	~	60W
5W	~	75W
7.2W	~	100W



Filament-LED Round Clear/Opal

Features

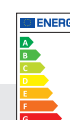
- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED G45 FIL-2.5W-G CL	220 - 240V	2.5W	E14 / B15d / E27 / B22d	2700K	250lm	F
LED G45 FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	470lm	E
LED G45 FIL-6.5W-G CL	220 - 240V	6.5W	E14 / B15d / E27 / B22d	2700K	806lm	E
LED G45 FIL-4.5W-G CL DIM	220 - 240V	4.5W	E14 / B15d / E27 / B22d	2700K	470lm	F
LED G45 FIL-2W-G OP	220 - 240V	2W	E14 / B15d / E27 / B22d	2700K	250lm	E
LED G45 FIL-4W-G OP	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	450lm	E
LED G45 FIL-4W-G OP DIM	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	450lm	E



2.5W	~	25W
4W	~	40W
4.5W	~	40W
6.5W	~	60W



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED G45 FIL-1.8W-G CL	220 - 240V	1.8W	E14 / B15d / E27 / B22d	2700K	250lm	D
LED G45 FIL-3.4W-G CL	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D
LED G45 FIL-3.4W-G CL DIM	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D
LED G45 FIL-1.8W-G OP	220 - 240V	1.8W	E14 / B15d / E27 / B22d	2700K	250lm	D
LED G45 FIL-3.4W-G OP	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D
LED G45 FIL-3.4W-G OP DIM	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D



1.8W	~	25W
3.4W	~	40W



Filament-LED Round Class-A Clear/Opal

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Supreme efficacy up to 214lm/W
- The highest energy efficiency class A in the market
- Save over 93% energy consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$

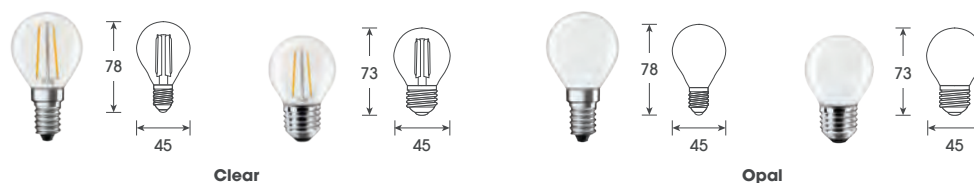
CLASS A

214lm/W

EUROPE



LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED G45 FIL-2.2W-G CL	220 - 240V	2.2W	E14 / B15d / E27 / B22d	3000K	470lm	A
LED G45 FIL-2.2W-G OP	220 - 240V	2.2W	E14 / B15d / E27 / B22d	3000K	470lm	A



2.2W ~ 40W



Filament-LED Candle Clear/Opal

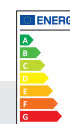
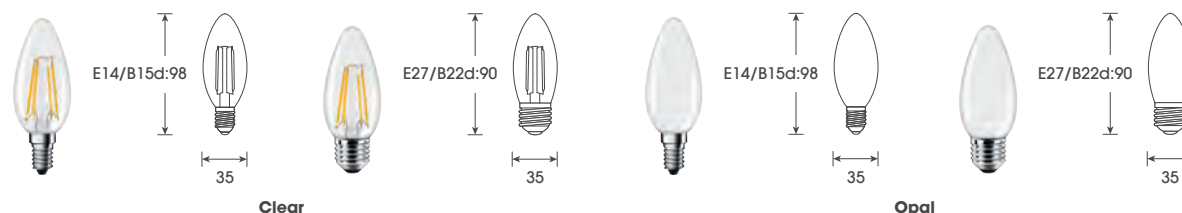
Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra ≥ 80

EUROPE



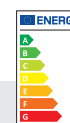
LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED C35 FIL-2.5W-G CL	220 - 240V	2.5W	E14 / B15d / E27 / B22d	2700K	250lm	F
LED C35 FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	470lm	E
LED C35 FIL-6.5W-G CL	220 - 240V	6.5W	E14 / B15d / E27 / B22d	2700K	806lm	E
LED C35 FIL-4.5W-G CL DIM	220 - 240V	4.5W	E14 / B15d / E27 / B22d	2700K	470lm	F
LED C35 FIL-2W-G OP	220 - 240V	2W	E14 / B15d / E27 / B22d	2700K	250lm	E
LED C35 FIL-4W-G OP	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	470lm	E
LED C35 FIL-4W-G OP DIM	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	470lm	E



2W	~	25W
2.5W	~	25W
4W	~	40W
4.5W	~	40W
6.5W	~	60W



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED C35 FIL-1.8W-G CL	220 - 240V	1.8W	E14 / B15d / E27 / B22d	2700K	250lm	D
LED C35 FIL-3.4W-G CL	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D
LED C35 FIL-3.4W-G CL DIM	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D
LED C35 FIL-1.8W-G OP	220 - 240V	1.8W	E14 / B15d / E27 / B22d	2700K	250lm	D
LED C35 FIL-3.4W-G OP	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D
LED C35 FIL-3.4W-G OP DIM	220 - 240V	3.4W	E14 / B15d / E27 / B22d	2700K	470lm	D



1.8W	~	25W
3.4W	~	40W



Filament-LED Candle Class-A Clear/Opal

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Supreme efficacy up to 214lm/W
- The highest energy efficiency class A in the market
- Save over 93% energy consumption
- Overall light distribution
- Good color rendition, $Ra \geq 80$

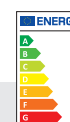
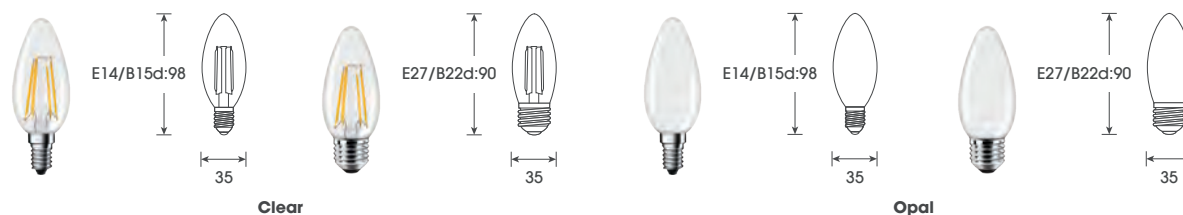
CLASS A

214lm/W

EUROPE



LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED C35 FIL-2.2W-G CL	220 - 240V	2.2W	E14 / B15d / E27 / B22d	3000K	470lm	A
LED C35 FIL-2.2W-G OP	220 - 240V	2.2W	E14 / B15d / E27 / B22d	3000K	470lm	A



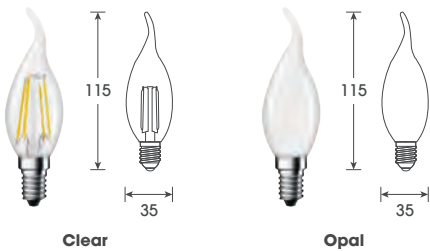
2.2W ~ 40W



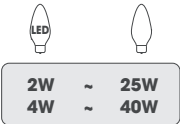
Filament-LED Turntip Clear/Opal

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra ≥80



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED Turntip FIL-2W-G CL	220 - 240V	2W	E14 / B15d	2700K	250lm	E
LED Turntip FIL-4W-G CL	220 - 240V	4W	E14 / B15d	2700K	470lm	E
LED Turntip FIL-4W-G CL DIM	220 - 240V	4W	E14 / B15d	2700K	470lm	E
LED Turntip FIL-2W-G OP	220 - 240V	2W	E14 / B15d	2700K	250lm	E
LED Turntip FIL-4W-G OP	220 - 240V	4W	E14 / B15d	2700K	470lm	E
LED Turntip FIL-4W-G OP DIM	220 - 240V	4W	E14 / B15d	2700K	470lm	E



EUROPE

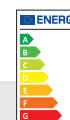
LINE VOLTAGE LAMP



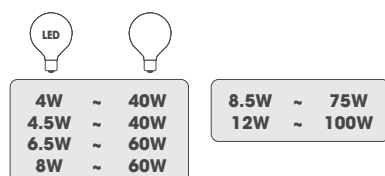
Filament-LED Globe

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Filament Length	Lumen	ENERGY STAR
LED G80 FIL-4W-G CL	220 - 240V	4W	E27 / B22d	2700K	50mm	470lm	E
LED G80 FIL-6.5W-G CL	220 - 240V	6.5W	E27 / B22d	2700K	50mm	806lm	E
LED G80 FIL-8.5W-G CL	220 - 240V	8.5W	E27 / B22d	2700K	50mm	1055lm	E
LED G95 FIL-4W-G CL	220 - 240V	4W	E27 / B22d	2700K	50mm	470lm	E
LED G95 FIL-6.5W-G CL	220 - 240V	6.5W	E27 / B22d	2700K	50mm	806lm	E
LED G95 FIL-8.5W-G CL	220 - 240V	8.5W	E27 / B22d	2700K	50mm	1055lm	E
LED G95 FIL-12W-G CL	220 - 240V	12W	E27 / B22d	2700K	68mm	1521lm	E
LED G125 FIL-4W-G CL	220 - 240V	4W	E27 / B22d	2700K	50mm	470lm	E
LED G125 FIL-6.5W-G CL	220 - 240V	6.5W	E27 / B22d	2700K	50mm	806lm	E
LED G125 FIL-8.5W-G CL	220 - 240V	8.5W	E27 / B22d	2700K	50mm	1055lm	E
LED G125 FIL-12W-G CL	220 - 240V	12W	E27 / B22d	2700K	68mm	1521lm	E
LED G80 FIL-4.5W-G CL DIM	220 - 240V	4.5W	E27 / B22d	2700K	50mm	470lm	F
LED G80 FIL-8W-G CL DIM	220 - 240V	8W	E27 / B22d	2700K	50mm	806lm	F
LED G95 FIL-4.5W-G CL DIM	220 - 240V	4.5W	E27 / B22d	2700K	50mm	470lm	F
LED G95 FIL-8W-G CL DIM	220 - 240V	8W	E27 / B22d	2700K	50mm	806lm	F
LED G95 FIL-12W-G CL DIM	220 - 240V	12W	E27 / B22d	2700K	68mm	1521lm	E
LED G125 FIL-4.5W-G CL DIM	220 - 240V	4.5W	E27 / B22d	2700K	50mm	470lm	F
LED G125 FIL-8W-G CL DIM	220 - 240V	8W	E27 / B22d	2700K	50mm	806lm	F
LED G125 FIL-12W-G CL DIM	220 - 240V	12W	E27 / B22d	2700K	68mm	1521lm	E





Filament-LED Globe Opal

Features

- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Overall light distribution
- Good color rendition, Ra ≥ 80

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LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED G80 FIL-4W-G OP	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G80 FIL-7W-G OP	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED G80 FIL-8W-G OP	220 - 240V	8W	E27 / B22d	2700K	1050lm	E
LED G80 FIL-12W-G OP	220 - 240V	12W	E27 / B22d	2700K	1450lm	E
LED G95 FIL-4W-G OP	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G95 FIL-7W-G OP	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED G95 FIL-8W-G OP	220 - 240V	8W	E27 / B22d	2700K	1050lm	E
LED G95 FIL-12W-G OP	220 - 240V	12W	E27 / B22d	2700K	1450lm	E
LED G125 FIL-4W-G OP	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G125 FIL-7W-G OP	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED G125 FIL-8W-G OP	220 - 240V	8W	E27 / B22d	2700K	1050lm	E
LED G125 FIL-12W-G OP	220 - 240V	12W	E27 / B22d	2700K	1450lm	E
LED G80 FIL-4W-G OP DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G80 FIL-7W-G OP DIM	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED G80 FIL-8W-G OP DIM	220 - 240V	8W	E27 / B22d	2700K	1050lm	E
LED G80 FIL-12W-G OP DIM	220 - 240V	12W	E27 / B22d	2700K	1450lm	E
LED G95 FIL-4W-G OP DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G95 FIL-7W-G OP DIM	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED G95 FIL-8W-G OP DIM	220 - 240V	8W	E27 / B22d	2700K	1050lm	E
LED G95 FIL-12W-G OP DIM	220 - 240V	12W	E27 / B22d	2700K	1450lm	E
LED G125 FIL-4W-G OP DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G125 FIL-7W-G OP DIM	220 - 240V	7W	E27 / B22d	2700K	780lm	E
LED G125 FIL-8W-G OP DIM	220 - 240V	8W	E27 / B22d	2700K	1050lm	E
LED G125 FIL-12W-G OP DIM	220 - 240V	12W	E27 / B22d	2700K	1450lm	E



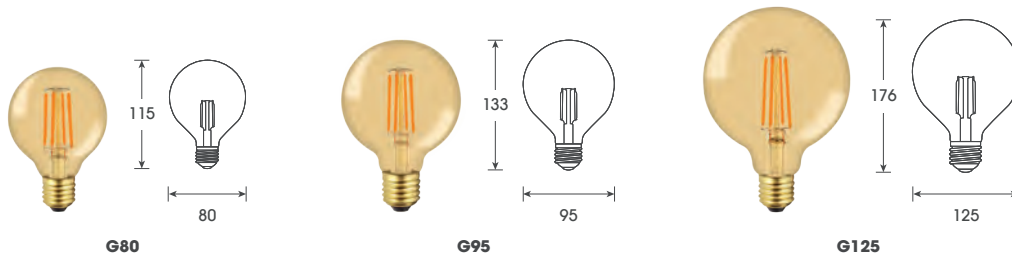
4W	~	40W
7W	~	58W
8W	~	74W
12W	~	96W



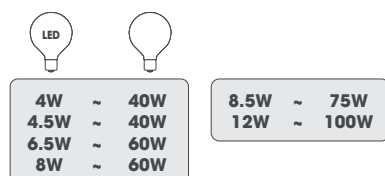
Long Filament-LED Globe Amber

Features

- Extremely energy saving with low power consumption
- Filament-like LED gives perfect light effect in all directions
- Special Warm Tone for decorative purposes
- Overall light distribution
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Filament Length	Lumen	ENERGY STAR
LED G80 L-FIL-4W-G WT	220 - 240V	4W	E27 / B22d	2200K	50mm	360lm	F
LED G80 L-FIL-6.5W-G WT	220 - 240V	6.5W	E27 / B22d	2200K	50mm	650lm	F
LED G80 L-FIL-8.5W-G WT	220 - 240V	8.5W	E27 / B22d	2200K	50mm	800lm	F
LED G95 L-FIL-4W-G WT	220 - 240V	4W	E27 / B22d	2200K	50mm	360lm	F
LED G95 L-FIL-6.5W-G WT	220 - 240V	6.5W	E27 / B22d	2200K	50mm	650lm	F
LED G95 L-FIL-8.5W-G WT	220 - 240V	8.5W	E27 / B22d	2200K	50mm	800lm	F
LED G95 L-FIL-12W-G WT	220 - 240V	12W	E27 / B22d	2200K	68mm	1200lm	F
LED G125 L-FIL-4W-G WT	220 - 240V	4W	E27 / B22d	2200K	50mm	360lm	F
LED G125 L-FIL-6.5W-G WT	220 - 240V	6.5W	E27 / B22d	2200K	50mm	650lm	F
LED G125 L-FIL-8.5W-G WT	220 - 240V	8.5W	E27 / B22d	2200K	50mm	800lm	F
LED G125 L-FIL-12W-G WT	220 - 240V	12W	E27 / B22d	2200K	68mm	1200lm	F
LED G80 L-FIL-4.5W-G WT DIM	220 - 240V	4.5W	E27 / B22d	2200K	50mm	360lm	G
LED G80 L-FIL-8W-G WT DIM	220 - 240V	8W	E27 / B22d	2200K	50mm	720lm	F
LED G95 L-FIL-4.5W-G WT DIM	220 - 240V	4.5W	E27 / B22d	2200K	50mm	360lm	G
LED G95 L-FIL-8W-G WT DIM	220 - 240V	8W	E27 / B22d	2200K	50mm	720lm	F
LED G95 L-FIL-12W-G WT DIM	220 - 240V	12W	E27 / B22d	2200K	68mm	1200lm	F
LED G125 L-FIL-4.5W-G WT DIM	220 - 240V	4.5W	E27 / B22d	2200K	50mm	360lm	G
LED G125 L-FIL-8W-G WT DIM	220 - 240V	8W	E27 / B22d	2200K	50mm	720lm	F
LED G125 L-FIL-12W-G WT DIM	220 - 240V	12W	E27 / B22d	2200K	68mm	1200lm	F

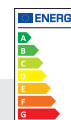
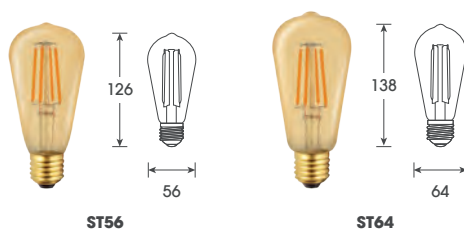




Long Filament-LED ST56/ST64 Amber

Features

- Extremely energy saving with low power consumption
- Filament-like LED gives perfect light effect in all directions
- Special Warm Tone for decorative purposes
- Overall light distribution
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Filament Length	Lumen	
LED ST56 L-FIL-4W-G WT	220 - 240V	4W	E27 / B22d	2200K	50mm	360lm	F
LED ST56 L-FIL-6.5W-G WT	220 - 240V	6.5W	E27 / B22d	2200K	50mm	650lm	F
LED ST56 L-FIL-8.5W-G WT	220 - 240V	8.5W	E27 / B22d	2200K	50mm	800lm	F
LED ST64 L-FIL-4W-G WT	220 - 240V	4W	E27 / B22d	2200K	50mm	360lm	F
LED ST64 L-FIL-6.5W-G WT	220 - 240V	6.5W	E27 / B22d	2200K	50mm	650lm	F
LED ST64 L-FIL-8.5W-G WT	220 - 240V	8.5W	E27 / B22d	2200K	50mm	800lm	F
LED ST64 L-FIL-12W-G WT	220 - 240V	12W	E27 / B22d	2200K	68mm	1200lm	F
LED ST56 L-FIL-4.5W-G WT DIM	220 - 240V	4.5W	E27 / B22d	2200K	50mm	360lm	G
LED ST56 L-FIL-8W-G WT DIM	220 - 240V	8W	E27 / B22d	2200K	50mm	720lm	F
LED ST64 L-FIL-4.5W-G WT DIM	220 - 240V	4.5W	E27 / B22d	2200K	50mm	360lm	G
LED ST64 L-FIL-8W-G WT DIM	220 - 240V	8W	E27 / B22d	2200K	50mm	720lm	F
LED ST64 L-FIL-12W-G WT DIM	220 - 240V	12W	E27 / B22d	2200K	68mm	1200lm	F



4W ~ 40W
4.5W ~ 40W
6.5W ~ 60W
8W ~ 60W

8.5W ~ 75W
12W ~ 100W



Spiral Filament-LED C35/Turntip/A60/ST64/Globe Clear

Features

- Extremely energy saving with low power consumption
- Spiral filament-like LED gives aesthetic and attractive light effect
- High CRI R9 >50 renders vivid colors of objects for true color viewing
- Quality grade spiral filament LED with high efficacy up to 118lm/W
- Dimmable with most wall/in-line TRIAC dimming switches
- Flicker free
- Overall light distribution
- ST58 available on request
- CCT 2200K also available
- High color rendition, Ra ≥90

Ra ≥ 90

118lm/W

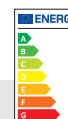
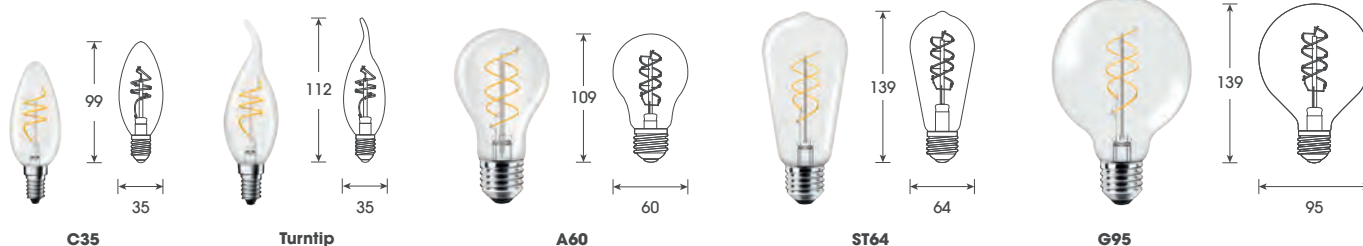
PATENT

FLICKER FREE

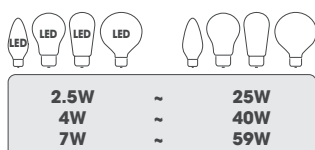
EUROPE



LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen	Energy Class
LED C35 S-FIL-2.5W-G CL	220 - 240V	2.5W	E14 / B15d / E27 / B22d	2700K	250lm	F
LED C35 S-FIL-4W-G CL DIM	220 - 240V	4W	E14 / B15d / E27 / B22d	2700K	470lm	E
LED Turntip S-FIL-2.5W-G CL	220 - 240V	2.5W	E14 / B15d	2700K	250lm	F
LED Turntip S-FIL-4W-G CL DIM	220 - 240V	4W	E14 / B15d	2700K	470lm	E
LED A60 S-FIL-4W-G CL DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED A60 S-FIL-7W-G CL DIM	220 - 240V	7W	E27 / B22d	2700K	805lm	E
LED ST64 S-FIL-4W-G CL DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED ST64 S-FIL-7W-G CL DIM	220 - 240V	7W	E27 / B22d	2700K	805lm	E
LED G95 S-FIL-4W-G CL DIM	220 - 240V	4W	E27 / B22d	2700K	470lm	E
LED G95 S-FIL-7W-G CL DIM	220 - 240V	7W	E27 / B22d	2700K	805lm	E





Spiral Filament-LED C35/Turntip/A60/ST64/Globe Amber

Features

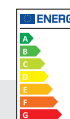
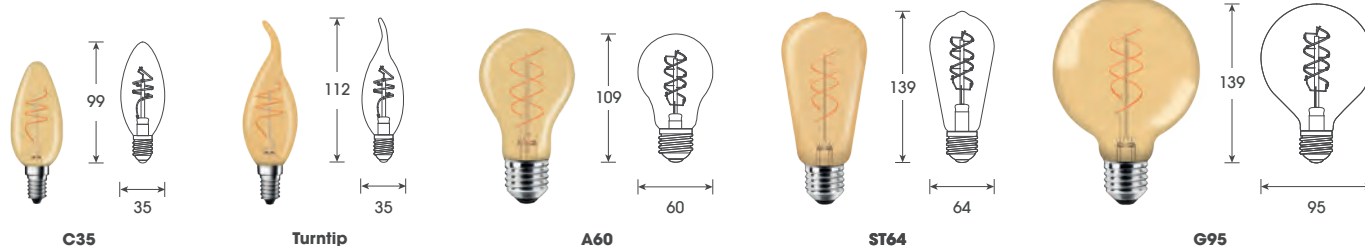
- Extremely energy saving with low power consumption
- Spiral filament-like LED gives aesthetic and attractive light effect
- High CRI R9 >50 renders vivid colors of objects for true color viewing
- Quality grade spiral filament LED with high efficacy up to 118lm/W
- Dimmable with most wall/in-line TRIAC dimming switches
- Special Warm Tone for decorative purposes
- Flicker free
- Overall light distribution
- ST58 available on request
- High color rendition, Ra ≥90

Ra ≥ 90

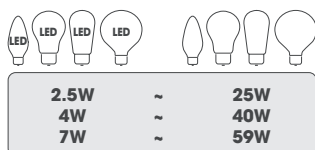
118lm/W

PATENT

FLICKER FREE



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED C35 S-FIL-2.5W-G WT	220 - 240V	2.5W	E14 / B15d / E27 / B22d	2200K	250lm	F
LED C35 S-FIL-4W-G WT DIM	220 - 240V	4W	E14 / B15d / E27 / B22d	2200K	470lm	E
LED Turntip S-FIL-2.5W-G WT	220 - 240V	2.5W	E14 / B15d	2200K	250lm	F
LED Turntip S-FIL-4W-G WT DIM	220 - 240V	4W	E14 / B15d	2200K	470lm	E
LED A60 S-FIL-4W-G WT DIM	220 - 240V	4W	E27 / B22d	2200K	470lm	E
LED A60 S-FIL-7W-G WT DIM	220 - 240V	7W	E27 / B22d	2200K	805lm	E
LED ST64 S-FIL-4W-G WT DIM	220 - 240V	4W	E27 / B22d	2200K	470lm	E
LED ST64 S-FIL-7W-G WT DIM	220 - 240V	7W	E27 / B22d	2200K	805lm	E
LED G95 S-FIL-4W-G WT DIM	220 - 240V	4W	E27 / B22d	2200K	470lm	E
LED G95 S-FIL-7W-G WT DIM	220 - 240V	7W	E27 / B22d	2200K	805lm	E





Features

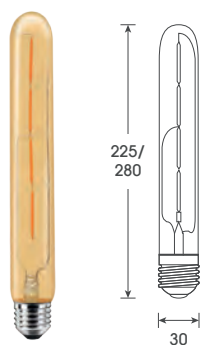
- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$
- Filament-like LED gives perfect light effect in all directions
- Special Warm Tone for decorative purposes

Filament-LED T30 Amber



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED T30 FIL-4W-G WT	220 - 240V	4W	E27 / B22d	1800K	350lm
LED T30 FIL-6W-G WT	220 - 240V	6W	E27 / B22d	1800K	500lm
LED T30 FIL-7W-G WT	220 - 240V	7W	E27 / B22d	1800K	700lm

Ecodesign and Energy Labelling Regulations exempted



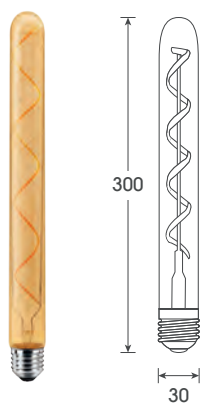
LED	~	15W
4W	~	40W
6W	~	60W
7W	~	

Spiral Filament-LED T30 Amber



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED T30 S-FIL-4W-G WT DIM	220 - 240V	4W	E27 / B22d	1800K	200lm

Ecodesign and Energy Labelling Regulations exempted



LED	~	40W
4W	~	





Filament-LED Round/A60/A70/Globe Crown Silver

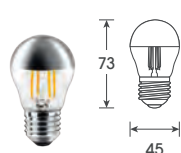
Features

- Extremely energy saving with low power consumption
- Anti-glare silver coating reflects light backward for indirect lighting
- Attractive mirror reflection effect for specially designed luminaires
- Ideal retrofit of incandescent crown silver lamps with same appearance / performance / dimensions
- Excellent decorative display for stylish design and shop lighting
- Good color rendition, Ra ≥ 80

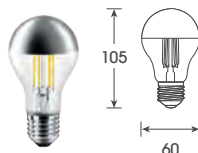
EUROPE



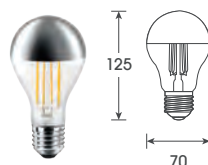
LINE VOLTAGE LAMP



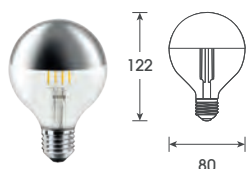
G45



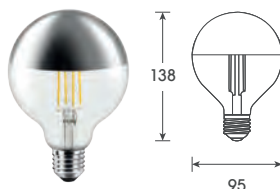
A60



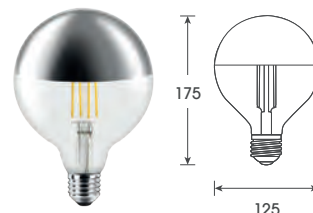
A70



G80



G95



G125



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED G45 FIL-2W-G CS	220 - 240V	2W	E27 / B22d	2700K	200lm
LED G45 FIL-4W-G CS	220 - 240V	4W	E27 / B22d	2700K	400lm
LED A60 FIL-4W-G CS	220 - 240V	4W	E27 / B22d	2700K	400lm
LED A60 FIL-7W-G CS	220 - 240V	7W	E27 / B22d	2700K	700lm
LED A70 FIL-7W-G CS	220 - 240V	7W	E27 / B22d	2700K	700lm
LED A70 FIL-8W-G CS	220 - 240V	8W	E27 / B22d	2700K	800lm
LED G80 FIL-4W-G CS	220 - 240V	4W	E27 / B22d	2700K	400lm
LED G80 FIL-7W-G CS	220 - 240V	7W	E27 / B22d	2700K	700lm
LED G80 FIL-8W-G CS	220 - 240V	8W	E27 / B22d	2700K	800lm
LED G95 FIL-4W-G CS	220 - 240V	4W	E27 / B22d	2700K	400lm
LED G95 FIL-7W-G CS	220 - 240V	7W	E27 / B22d	2700K	700lm
LED G95 FIL-8W-G CS	220 - 240V	8W	E27 / B22d	2700K	800lm
LED G125 FIL-4W-G CS	220 - 240V	4W	E27 / B22d	2700K	400lm
LED G125 FIL-7W-G CS	220 - 240V	7W	E27 / B22d	2700K	700lm
LED G125 FIL-8W-G CS	220 - 240V	8W	E27 / B22d	2700K	800lm

Ecodesign and Energy Labelling Regulations exempted

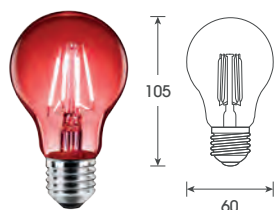
LED	LED	LED	LED	LED	LED
2W	~	25W			
4W	~	40W			
7W	~	60W			
8W	~	75W			



Features

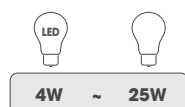
- Extremely energy saving with low power consumption
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Color filament gives vivid light for decorative purposes
- Overall light distribution

Color Filament-LED A60

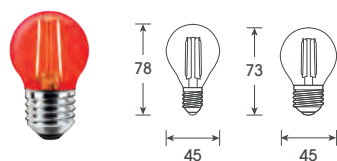


Model	Voltage	Wattage	Base	Color
LED A60 RD-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Red
LED A60 OG-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Orange
LED A60 YL-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Yellow
LED A60 GR-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Green
LED A60 BL-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Blue
LED A60 PP-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Purple
LED A60 PK-FIL-4W-G CL	220 - 240V	4W	E27 / B22d	Pink

Ecodesign and Energy Labelling Regulations exempted

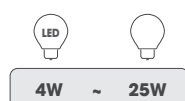


Color Filament-LED Round



Model	Voltage	Wattage	Base	Color
LED G45 RD-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Red
LED G45 OG-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Orange
LED G45 YL-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Yellow
LED G45 GR-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Green
LED G45 BL-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Blue
LED G45 PP-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Purple
LED G45 PK-FIL-4W-G CL	220 - 240V	4W	E14 / B15d / E27 / B22d	Pink

Ecodesign and Energy Labelling Regulations exempted





Features

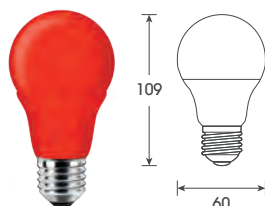
- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Attractive color finishing for decorative purposes
- Overall light distribution

EUROPE



LINE VOLTAGE LAMP

Thermal Plastic LED A60 Color



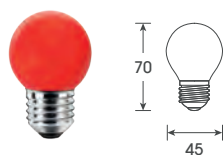
Model	Voltage	Wattage	Base	Color
LED TP A60 5W RD	220 - 240V	5W	E27 / B22d	Red
LED TP A60 5W YL	220 - 240V	5W	E27 / B22d	Yellow
LED TP A60 5W GR	220 - 240V	5W	E27 / B22d	Green
LED TP A60 5W BL	220 - 240V	5W	E27 / B22d	Blue

Ecodesign and Energy Labelling Regulations exempted



5W ~ 25W

LED Round Color



Model	Voltage	Wattage	Base	Color
LED G45 1W RD	220 - 240V	1W	E27 / B22d	Red
LED G45 1W OG	220 - 240V	1W	E27 / B22d	Orange
LED G45 1W YL	220 - 240V	1W	E27 / B22d	Yellow
LED G45 1W GR	220 - 240V	1W	E27 / B22d	Green
LED G45 1W BL	220 - 240V	1W	E27 / B22d	Blue
LED G45 1W PP	220 - 240V	1W	E27 / B22d	Purple
LED G45 1W PK	220 - 240V	1W	E27 / B22d	Pink

Ecodesign and Energy Labelling Regulations exempted



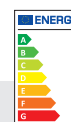
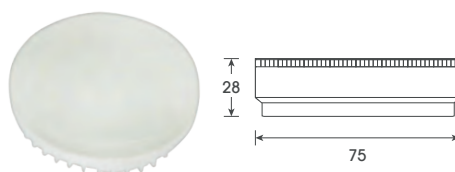
1W ~ 15W



Features

- Extremely energy saving with low power consumption
- Instant full light, no warm up time is required
- Ideal retrofit of CFL with compact size
- No mercury and hazardous substances
- Good color rendition, Ra ≥ 80

LED GX53



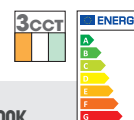
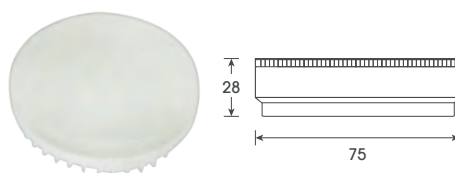
Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED GX53 5W	220 - 240V	5W	GX53-1	180°	3000K / 4000K / 6500K	450lm / 460lm / 470lm	F
LED GX53 6W	220 - 240V	6W	GX53-1	180°	3000K / 4000K / 6500K	540lm / 550lm / 560lm	F

LED

CFL

5W ~ 68% more light than 9W CFL GX53
6W ~ 100% more light than 9W CFL GX53

LED GX53 3CCT



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED GX53 7W 3CCT	220 - 240V	7W	GX53-1	180°	3000K - 4000K - 6500K	600lm / 610lm / 620lm	F

LED

CFL

7W ~ 120% more light than 9W CFL GX53

Selectable CCT via ON/OFF
Inventory cost saving

EUROPE



LINE VOLTAGE LAMP



Features

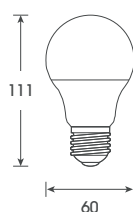
- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Excellent thermal conductivity
- Good color rendition, $R_a \geq 80$

EUROPE



LINE VOLTAGE LAMP

Thermal Plastic LED A60 Sensor



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP A60 9W SR	220 - 240V	9W	E27 / B22d	3000K / 4000K / 6500K	820lm / 835lm / 850lm	F



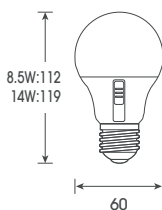
9W

~

62W

With daylight sensor to control ON (<0.1 lux)/OFF (>10 lux) for outdoor lighting by detecting sunlight lux level in IR spectrum

Thermal Plastic LED A60 5CCT



Model	Voltage	Wattage	Base	Color Temp	Lumen 2700K / 3000K / 4000K / 5000K / 6500K	
LED TP A60 8.5W 5CCT DIM	220 - 240V	8.5W	E27 / B22d	2700K - 3000K - 4000K - 5000K - 6500K	806lm / 806lm / 820lm / 820lm / 820lm	F
LED TP A60 14W 5CCT DIM	220 - 240V	14W	E27 / B22d	2700K - 3000K - 4000K - 5000K - 6500K	1450lm / 1450lm / 1521lm / 1521lm / 1521lm	F

8.5W
14W

~

60W
100W

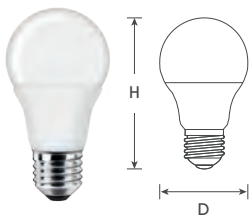
Selectable CCT via dip-switch
Inventory cost saving



Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions

Thermal Plastic LED A60



(Unit : mm)	(D)	(H)
4W/4.9W	Ø60	x 108
7W	Ø60	x 108
7.2W/8.5W	Ø60	x 108
9.5W/11W	Ø60	x 115
13W/14W	Ø60	x 119

Model	Voltage	Wattage	Base	Color Temp	Lumen			ENERG ⁺
					3000K	4000K	6500K	
LED TP A60 4.9W	220 - 240V	4.9W	E27 / B22d	3000K / 4000K / 6500K	470lm	480lm	490lm	F
LED TP A60 7W	220 - 240V	7W	E27 / B22d	3000K / 4000K / 6500K	600lm	615lm	630lm	F
LED TP A60 8.5W	220 - 240V	8.5W	E27 / B22d	3000K / 4000K / 6500K	805lm	825lm	850lm	F
LED TP A60 11W	220 - 240V	11W	E27 / B22d	3000K / 4000K / 6500K	1050lm	1075lm	1100lm	F
LED TP A60 14W	220 - 240V	14W	E27 / B22d	3000K / 4000K / 6500K	1520lm	1525lm	1530lm	F
LED TP A60 4.9W DIM	220 - 240V	4.9W	E27 / B22d	3000K / 4000K / 6500K	470lm	480lm	490lm	F
LED TP A60 8.5W DIM	220 - 240V	8.5W	E27 / B22d	3000K / 4000K / 6500K	805lm	825lm	850lm	F
LED TP A60 11W DIM	220 - 240V	11W	E27 / B22d	3000K / 4000K / 6500K	1050lm	1075lm	1100lm	F
LED TP A60 14W DIM	220 - 240V	14W	E27 / B22d	3000K / 4000K / 6500K	1520lm	1525lm	1530lm	F

LED	
4.9W ~ 41W	
7W ~ 49W	
8.5W ~ 62W	

11W ~ 77W
14W ~ 100W

Model	Voltage	Wattage	Base	Color Temp	Lumen			ENERG ⁺
					3000K	4000K	6500K	
LED TP A60 4W	220 - 240V	4W	E27 / B22d	3000K / 4000K / 6500K	470lm	480lm	490lm	E
LED TP A60 7.2W	220 - 240V	7.2W	E27 / B22d	3000K / 4000K / 6500K	805lm	825lm	850lm	E
LED TP A60 9.5W	220 - 240V	9.5W	E27 / B22d	3000K / 4000K / 6500K	1050lm	1075lm	1100lm	E
LED TP A60 13W	220 - 240V	13W	E27 / B22d	3000K / 4000K / 6500K	1520lm	1525lm	1530lm	E
LED TP A60 7.2W DIM	220 - 240V	7.2W	E27 / B22d	3000K / 4000K / 6500K	805lm	825lm	850lm	E
LED TP A60 13W DIM	220 - 240V	13W	E27 / B22d	3000K / 4000K / 6500K	1520lm	1525lm	1530lm	E

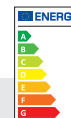
LED	
4W ~ 41W	
7.2W ~ 62W	
9.5W ~ 77W	
13W ~ 100W	



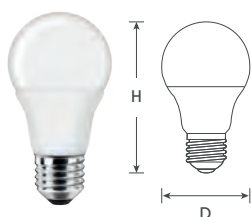
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions

Thermal Plastic LED A60 PRO



Model	Voltage	Wattage	Base	Color Temp	Lumen			
					3000K	4000K	6500K	
LED TP A60 PRO 5W	165 - 265V	5W	E27 / B22d	3000K / 4000K / 6500K	810lm	825lm	840lm	C
LED TP A60 PRO 6W	165 - 265V	6W	E27 / B22d	3000K / 4000K / 6500K	1055lm	1080lm	1100lm	C
LED TP A60 PRO 8W	165 - 265V	8W	E27 / B22d	3000K / 4000K / 6500K	1300lm	1340lm	1380lm	C
LED TP A60 PRO 10W	165 - 265V	10W	E27 / B22d	3000K / 4000K / 6500K	1600lm	1650lm	1700lm	C



(Unit : mm)	(D)	(H)
5W	Ø60	x 106
6W	Ø60	x 106
8W	Ø60	x 116
10W	Ø60	x 116

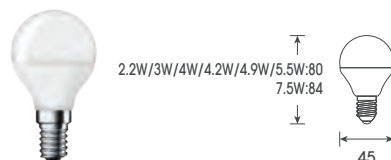
5W	~	62W
6W	~	77W
8W	~	92W
10W	~	109W



Thermal Plastic LED Round

Features

- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Excellent thermal conductivity
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Lumen			ENERGY CLASS
					3000K	4000K	6500K	
LED TP G45 3W	220 - 240V	3W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	230lm	240lm	250lm	G
LED TP G45 4W	220 - 240V	4W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	340lm	350lm	360lm	F
LED TP G45 4.9W	220 - 240V	4.9W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm	475lm	480lm	F
LED TP G45 7.5W	220 - 240V	7.5W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	780lm	790lm	805lm	F
LED TP G45 5.5W DIM	220 - 240V	5.5W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm	475lm	480lm	F
LED TP G45 7.5W DIM	220 - 240V	7.5W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	780lm	790lm	805lm	F

LED	~	LED
3W	~	25W
4W	~	32W
4.9W	~	40W
5.5W	~	40W
7.5W	~	59W

Model	Voltage	Wattage	Base	Color Temp	Lumen			ENERGY CLASS
					3000K	4000K	6500K	
LED TP G45 2.2W	220 - 240V	2.2W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	245lm	250lm	255lm	E
LED TP G45 4.2W	220 - 240V	4.2W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm	475lm	480lm	E
LED TP G45 4.2W DIM	220 - 240V	4.2W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm	475lm	480lm	E

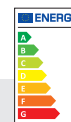
LED	~	LED
2.2W	~	25W
4.2W	~	40W



Thermal Plastic LED Candle

Features

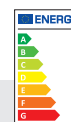
- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Excellent thermal conductivity
- Good color rendition, Ra ≥ 80



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP C35 3W	220 - 240V	3W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	230lm / 240lm / 250lm	G
LED TP C35 4W	220 - 240V	4W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	340lm / 350lm / 360lm	F
LED TP C35 4.9W	220 - 240V	4.9W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm / 475lm / 480lm	F
LED TP C35 7.5W	220 - 240V	7.5W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	780lm / 790lm / 805lm	F
LED TP C35 5.5W DIM	220 - 240V	5.5W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm / 475lm / 480lm	F
LED TP C35 7.5W DIM	220 - 240V	7.5W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	780lm / 790lm / 805lm	F



3W	~	25W
4W	~	32W
4.9W	~	40W
5.5W	~	40W
7.5W	~	59W



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP C35 2.2W	220 - 240V	2.2W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	245lm / 250lm / 255lm	E
LED TP C35 4.2W	220 - 240V	4.2W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm / 475lm / 480lm	E
LED TP C35 4.2W DIM	220 - 240V	4.2W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	470lm / 475lm / 480lm	E



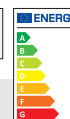
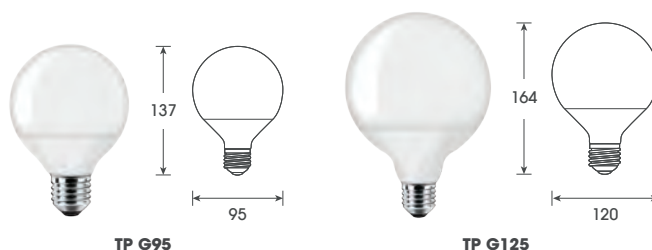
2.2W	~	25W
4.2W	~	40W



Features

- Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Excellent thermal conductivity
- Good color rendition, Ra ≥ 80

Thermal Plastic LED Globe

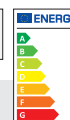
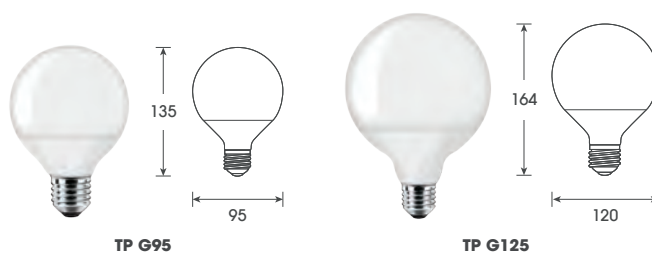


Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP G95 13W	220 - 240V	13W	E27 / B22d	3000K / 4000K / 6500K	1500lm / 1540lm / 1580lm	E
LED TP G125 16W	220 - 240V	16W	E27 / B22d	3000K / 4000K / 6500K	1850lm / 1900lm / 1950lm	E
LED TP G95 13W DIM	220 - 240V	13W	E27 / B22d	3000K / 4000K / 6500K	1500lm / 1525lm / 1550lm	E
LED TP G125 16W DIM	220 - 240V	16W	E27 / B22d	3000K / 4000K / 6500K	1800lm / 1850lm / 1900lm	E
LED TP G125 20W DIM	220 - 240V	20W	E27 / B22d	3000K / 4000K / 6500K	2450lm / 2475lm / 2500lm	E



13W ~ 103W
16W ~ 123W
20W ~ 152W

Thermal Plastic LED Globe PRO



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP G95 PRO 7W	165 - 265V	7W	E27 / B22d	3000K / 4000K / 6500K	1000lm / 1025lm / 1050lm	D
LED TP G95 PRO 11W	165 - 265V	11W	E27 / B22d	3000K / 4000K / 6500K	1500lm / 1525lm / 1550lm	D
LED TP G95 PRO 15W	165 - 265V	15W	E27 / B22d	3000K / 4000K / 6500K	2050lm / 2125lm / 2150lm	D
LED TP G125 PRO 11W	165 - 265V	11W	E27 / B22d	3000K / 4000K / 6500K	1500lm / 1525lm / 1550lm	D
LED TP G125 PRO 15W	165 - 265V	15W	E27 / B22d	3000K / 4000K / 6500K	2050lm / 2125lm / 2150lm	D
LED TP G125 PRO 18W	165 - 265V	18W	E27 / B22d	3000K / 4000K / 6500K	2450lm / 2500lm / 2550lm	D
LED TP G125 PRO 20W	165 - 265V	20W	E27 / B22d	3000K / 4000K / 6500K	2800lm / 2900lm / 3000lm	D



7W ~ 74W
11W ~ 101W
15W ~ 133W

18W ~ 154W
20W ~ 177W

High PF 0.95

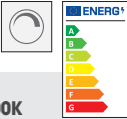




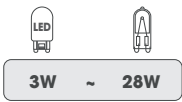
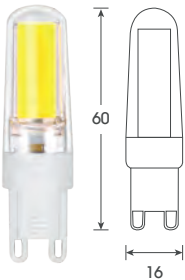
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional G9 with same appearance / performance / dimensions
- Lamp weight <12g comply with IEC G9 requirement
- Universal burning position

Ceramic LED COB G9



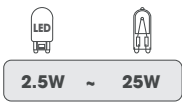
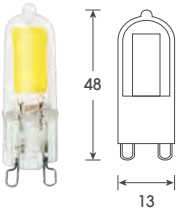
Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED C G9 COB-3W DIM	220 - 240V	3W	G9	3000K / 4000K / 6500K	260lm / 280lm / 300lm	F



LED COB G9



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G9 COB-2.5W	220 - 240V	2.5W	G9	3000K / 4000K / 6500K	220lm / 240lm / 260lm	F

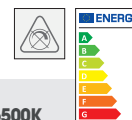




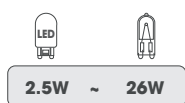
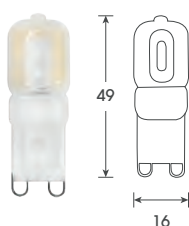
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional G9 with same appearance / performance / dimensions
- Lamp weight <12g comply with IEC G9 requirement
- Universal burning position

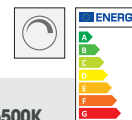
Thermal Plastic LED G9



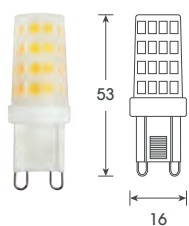
Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP G9 2.5W	220 - 240V	2.5W	G9	3000K / 4000K / 6500K	220lm / 250lm / 270lm	F



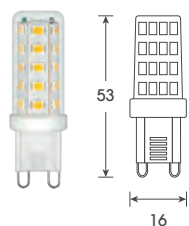
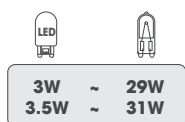
Ceramic LED G9



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED C G9 3.5W	220 - 240V	3.5W	G9	3000K / 4000K / 6500K	320lm / 330lm / 340lm	F
LED C G9 3W DIM	220 - 240V	3W	G9	3000K / 4000K / 6500K	240lm / 245lm / 250lm	G



3.5W



3W

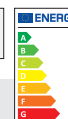




Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Operation temperature -20°C to 60°C
- Good color rendition, Ra ≥80
- Full glass version ideal retrofit of Incandescent Pygmy and traditional lamps with same appearance / performance / dimensions
- Suitable for Refrigerator light, Cooker hood light and Night light

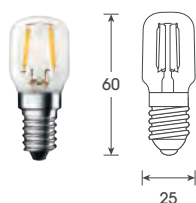
Filament-LED T25



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED T25 FIL-1.4W-G CL	220 - 240V	1.4W	E14 / B15d	2700K	140lm	F
LED T25 FIL-2.6W-G CL	220 - 240V	2.6W	E14 / B15d	2700K	280lm	F
LED T25 FIL-4W-G CL	220 - 240V	4W	E14	2700K	400lm	F



1.4W ~ 15W
2.6W ~ 25W
4W ~ 40W

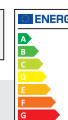


1.4W / 2.6W



4W

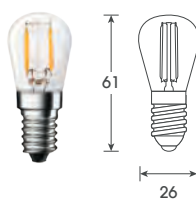
Filament-LED ST26



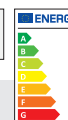
Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED ST26 FIL-1.4W-G CL	220 - 240V	1.4W	E14 / B15d	2700K	140lm	F
LED ST26 FIL-2.6W-G CL	220 - 240V	2.6W	E14 / B15d	2700K	280lm	F
LED ST26 FIL-2W-G CL DIM	220 - 240V	2W	E14 / B15d	2700K	160lm	G



1.4W ~ 15W
2W ~ 15W
2.6W ~ 25W



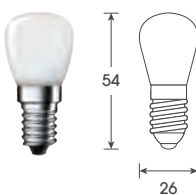
LED ST26 Opal



Model	Voltage	Wattage	Base	Color Temp	Lumen	
LED ST26 1.5W OP	220 - 240V	1.5W	E14 / B15d	3000K / 4000K / 6500K	90lm / 95lm / 100lm	G



1.5W ~ Replacing most popular 15W-25W incandescent pygmy lamps



Opal white bulb finish gives soft comfort light

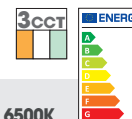




Features

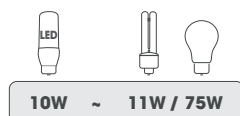
- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, Ra ≥80
- No mercury and hazardous substances
- Excellent thermal conductivity

Thermal Plastic LED T38 3CCT

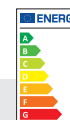


Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP T38 10W 3CCT	220 - 240V	10W	E27 / B22d	3000K - 4000K - 6500K	950lm / 1000lm / 1050lm	F

Selectable CCT via dip-switch
Inventory cost saving

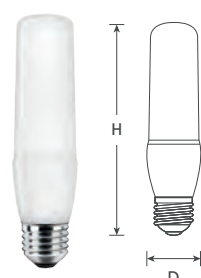


Thermal Plastic LED T38/T41 AC

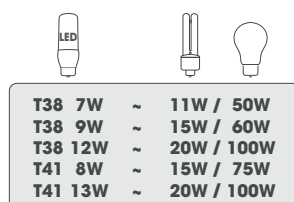


Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP T38 7W	220 - 240V	7W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	600lm / 620lm / 650lm	F
LED TP T38 9W	220 - 240V	9W	E14 / B15d / E27 / B22d	3000K / 4000K / 6500K	820lm / 850lm / 880lm	F
LED TP T38 12W	220 - 240V	12W	E27 / B22d	3000K / 4000K / 6500K	1180lm / 1210lm / 1250lm	F
LED TP T41 8W HO	220 - 240V	8W	E27 / B22d	3000K / 4000K / 6500K	720lm / 750lm / 800lm	F
LED TP T41 13W HO	220 - 240V	13W	E27 / B22d	3000K / 4000K / 6500K	1280lm / 1310lm / 1350lm	F

2.5 times the life of electronic energy saving lamp
25 times the life of incandescent filament bulb
Ideal retrofit of electronic energy saving lamp



(Unit : mm)	(D)	(H)
T38 7W	Ø38	x 108
T38 9W	Ø38	x 108
T38 12W	Ø38	x 153
T41 8W	Ø41	x 130
T41 13W	Ø41	x 170

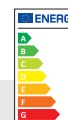




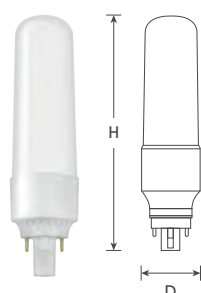
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, Ra ≥ 80
- No mercury and hazardous substances
- Excellent thermal conductivity

Thermal Plastic LED T38/T41 AC & CCG



Model	Voltage	Wattage	Base	Color Temp	Lumen			
					3000K	4000K	6500K	
LED TP T38 7W	100 - 240V	7W	G24	3000K / 4000K / 6500K	600lm	620lm	650lm	F
LED TP T38 9W	100 - 240V	9W	G24	3000K / 4000K / 6500K	820lm	850lm	880lm	F
LED TP T38 12W	100 - 240V	12W	G24	3000K / 4000K / 6500K	1180lm	1210lm	1250lm	F
LED TP T41 8W HO	100 - 240V	8W	G24	3000K / 4000K / 6500K	720lm	750lm	800lm	F
LED TP T41 13W HO	100 - 240V	13W	G24	3000K / 4000K / 6500K	1280lm	1310lm	1350lm	F



(Unit : mm)	(D)	(H)
T38 7W	Ø38 x	106
T38 9W	Ø38 x	106
T38 12W	Ø38 x	151
T41 8W	Ø41 x	122
T41 13W	Ø41 x	160

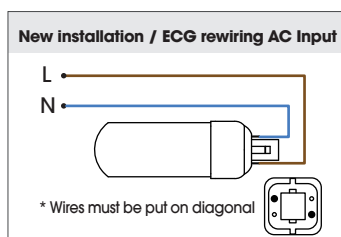
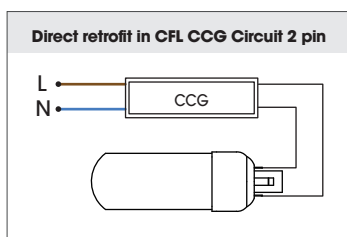
T38 7W	~	10W
T38 9W	~	13W
T38 12W	~	18W
T41 8W	~	13W
T41 13W	~	18W

>2.5 times the life of Compact Fluorescent Lamp (CFL)

Ideal retrofit of CFL with >30% power savings

Direct retrofit for G24 2-pin CFL in CCG circuit without re-wiring work

Applicable for new installation with direct AC connection

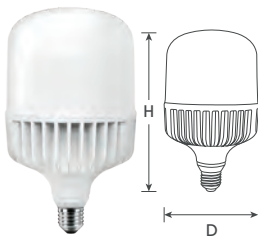
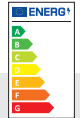




Features

- Extremely energy saving with low power consumption
- Instant full light
- Good color rendition, Ra ≥80
- Ideal retrofit of high wattage traditional lamps
- Widely used for indoor, commercial and low / high bay lighting
- No mercury and hazardous substances

LED T70-T150



(Unit : mm)	(D)	(H)
15W	Ø70	x 124
20W	Ø81	x 156
28W	Ø90	x 150
40W	Ø120	x 210
50W	Ø120	x 220
75W	Ø135	x 254
95W	Ø150	x 273

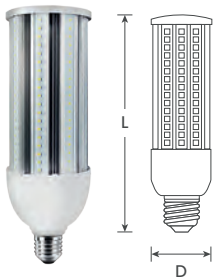
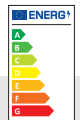


15W	~	25W
20W	~	30W
28W	~	40W
40W	~	60W

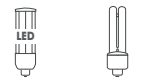
50W	~	75W
75W	~	120W
95W	~	150W

Excellent thermal management by aluminium housing

LED HP Corn Lamp



(Unit : mm)	(D)	(H)	E27 / E40
20W	Ø60	x 178 / 206	
24W	Ø60	x 207 / 226	
36W	Ø90	x 210 / 220	
45W	Ø90	x 235 / 245	
54W	Ø90	x 260 / 270	
60W	Ø90	x 260 / 270	
80W	Ø105	x 290 / 300	
100W	Ø105	x 290 / 300	
120W	Ø105	x 320 / 330	
150W	Ø105	x 320 / 330	



20W	~	40W / 70W
24W	~	45W / 70W
36W	~	75W / 70W
45W	~	100W / 70W
54W	~	100W / 100W

60W	~	120W / 100W
80W	~	100W
100W	~	150W
120W	~	150W
150W	~	250W

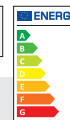
Double insulated driver with silicone sealant



Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Aesthetic reflector optics

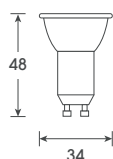
Thermal Plastic LED MR11 GU10



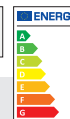
Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP MR11 GU10 4W	220 - 240V	4W	GU10	30°	3000K / 4000K / 6500K	290lm / 310lm / 330lm	F



4W ~ 33W



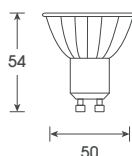
Glass LED GU10



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G GU10 3.5W	220 - 240V	3.5W	GU10	38°	3000K / 4000K / 6500K	280lm / 290lm / 300lm	F
LED G GU10 4.5W	220 - 240V	4.5W	GU10	38°	3000K / 4000K / 6500K	350lm / 360lm / 370lm	F
LED G GU10 5.5W	220 - 240V	5.5W	GU10	38°	3000K / 4000K / 6500K	450lm / 460lm / 470lm	F
LED G GU10 4.5W DIM	220 - 240V	4.5W	GU10	38°	3000K / 4000K / 6500K	380lm / 390lm / 400lm	F
LED G GU10 5.5W DIM	220 - 240V	5.5W	GU10	38°	3000K / 4000K / 6500K	450lm / 460lm / 470lm	F



3.5W ~ 44W
4.5W ~ 57W
5.5W ~ 66W

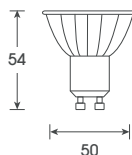


Glass body finishing

Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G GU10 3.6W	220 - 240V	3.6W	GU10	38°	3000K / 4000K / 6500K	340lm / 345lm / 350lm	E
LED G GU10 5.7W	220 - 240V	5.7W	GU10	38°	3000K / 4000K / 6500K	535lm / 540lm / 545lm	E

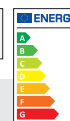


3.6W ~ 50W
5.7W ~ 76W



Glass body finishing

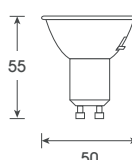
Thermal Plastic LED GU10 3CCT



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP GU10 6W 3CCT	220 - 240V	6W	GU10	38°	3000K - 4000K - 6500K	485lm / 530lm / 580lm	F / F / E



6W ~ 80W



Selectable CCT via dip-switch
Inventory cost saving

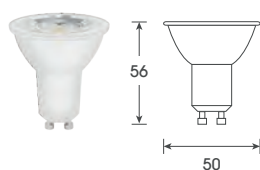




Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Aesthetic reflector optics

Thermal Plastic LED GU10



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP GU10 4.9W	220 - 240V	4.9W	GU10	38°	3000K / 4000K / 6500K	355lm / 365lm / 370lm	F
LED TP GU10 7W	220 - 240V	7W	GU10	38°	3000K / 4000K / 6500K	510lm / 515lm / 520lm	F
LED TP GU10 5.5W DIM	220 - 240V	5.5W	GU10	38°	3000K / 4000K / 6500K	450lm / 455lm / 460lm	F
LED TP GU10 6.5W DIM	220 - 240V	6.5W	GU10	38°	3000K / 4000K / 6500K	510lm / 515lm / 520lm	F



4.9W	~	53W
5.5W	~	65W
6.5W	~	72W
7W	~	72W

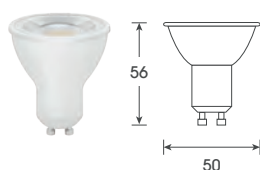


Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP GU10 3.6W	220 - 240V	3.6W	GU10	38°	3000K / 4000K / 6500K	340lm / 345lm / 350lm	E
LED TP GU10 6.2W	220 - 240V	6.2W	GU10	38°	3000K / 4000K / 6500K	600lm / 605lm / 610lm	E



3.6W	~	50W
6.2W	~	84W

Thermal Plastic LED GU10 PRO

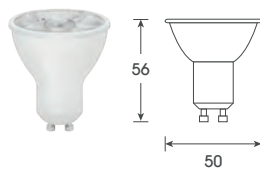


Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP GU10 PRO 4W	220 - 240V	4W	GU10	40°	3000K / 4000K / 6500K	510lm / 520lm / 525lm	D
LED TP GU10 PRO 6.5W	220 - 240V	6.5W	GU10	40°	3000K / 4000K / 6500K	770lm / 790lm / 810lm	D



4W	~	73W
6.5W	~	110W

Thermal Plastic LED GU10 Special Ra90



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP GU10 SP 6.5W	220 - 240V	6.5W	GU10	14°	3000K / 4000K / 6500K	450lm / 455lm / 460lm	G
LED TP GU10 SP 6.5W DIM	220 - 240V	6.5W	GU10	14°	3000K / 4000K / 6500K	410lm / 415lm / 420lm	G



6.5W	~	65W
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Ra 90

EUROPE



LINE VOLTAGE LAMP



Thermal Plastic LED PAR20/PAR30/PAR38

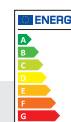
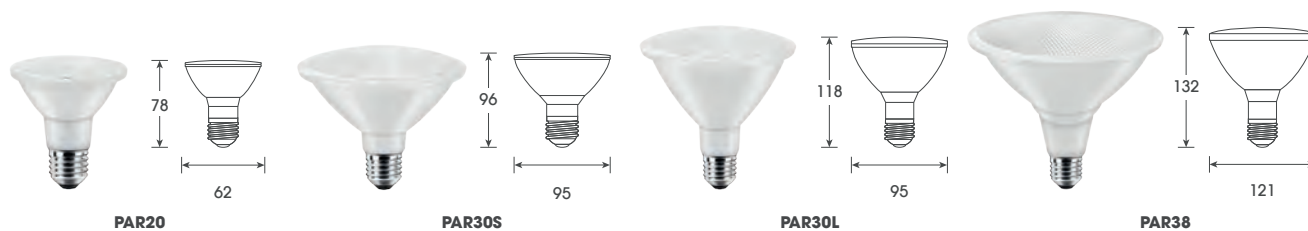
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Ideal retrofit of traditional and halogen lamps
- No mercury and hazardous substances
- Good color rendition, Ra ≥ 80

EUROPE



LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	ENERGY STAR
LED TP PAR20 7W	220 - 240V	7W	E27	40° / 60°	3000K / 4000K / 6500K	560lm / 570lm / 580lm	F
LED TP PAR30S 13W	220 - 240V	13W	E27	40° / 60°	3000K / 4000K / 6500K	1040lm / 1050lm / 1060lm	F
LED TP PAR30L 13W	220 - 240V	13W	E27	40° / 60°	3000K / 4000K / 6500K	1040lm / 1050lm / 1060lm	F
LED TP PAR38 15W	220 - 240V	15W	E27	40° / 60°	3000K / 4000K / 6500K	1200lm / 1250lm / 1300lm	F
LED TP PAR20 7W DIM	220 - 240V	7W	E27	40° / 60°	3000K / 4000K / 6500K	560lm / 570lm / 580lm	F
LED TP PAR30S 13W DIM	220 - 240V	13W	E27	40° / 60°	3000K / 4000K / 6500K	1040lm / 1050lm / 1060lm	F
LED TP PAR30L 13W DIM	220 - 240V	13W	E27	40° / 60°	3000K / 4000K / 6500K	1040lm / 1050lm / 1060lm	F
LED TP PAR38 15W DIM	220 - 240V	15W	E27	40° / 60°	3000K / 4000K / 6500K	1200lm / 1250lm / 1300lm	F

LED	~	LED
7W	~	75W
13W	~	121W
15W	~	152W



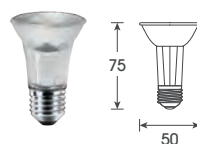
Features

- Extremely energy saving with low power consumption
- Full glass reflector
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Frontal lens in total silicon sealing suitable for outdoor use condition
- Good color rendition, Ra ≥ 80

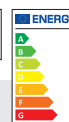
Glass LED PAR16



E14



E27



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G PAR16 5W DIM	220 - 240V	5W	E14 / B15d / E27	30°	3000K / 4000K / 6500K	380lm / 390lm / 400lm	F



5W ~ 57W

Glass LED PAR20/PAR30/PAR38



PAR20



PAR30S



PAR30L



PAR38



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K	
LED G PAR20 6W	90 - 265V	6W	E27	50°	3000K / 4000K / 6500K	440lm / 455lm / 470lm	F
LED G PAR30S 10W	90 - 265V	10W	E27	50°	3000K / 4000K / 6500K	780lm / 800lm / 825lm	F
LED G PAR30L 10W	90 - 265V	10W	E27	50°	3000K / 4000K / 6500K	780lm / 800lm / 825lm	F
LED G PAR38 15W	90 - 265V	15W	E27	50°	3000K / 4000K / 6500K	1100lm / 1125lm / 1150lm	F



6W ~ 63W
10W ~ 95W
15W ~ 134W





Thermal Plastic LED R39/R50/R63/R80

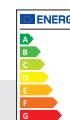
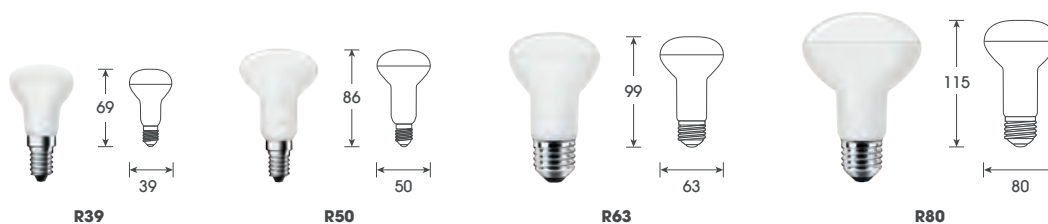
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- No mercury and hazardous substances
- Good color rendition, $R_a \geq 80$

EUROPE



LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K	
LED TP R39 4.5W	220 - 240V	4.5W	E14	3000K / 4000K / 6500K	325lm / 335lm / 345lm	G
LED TP R50 6W	220 - 240V	6W	E14	3000K / 4000K / 6500K	490lm / 495lm / 500lm	G
LED TP R63 8.5W	220 - 240V	8.5W	E27	3000K / 4000K / 6500K	805lm / 815lm / 830lm	F
LED TP R80 11W	220 - 240V	11W	E27	3000K / 4000K / 6500K	1055lm / 1100lm / 1150lm	F



4.5W	~	30W
6W	~	40W
8.5W	~	60W
11W	~	75W

LED R7s

Features

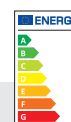
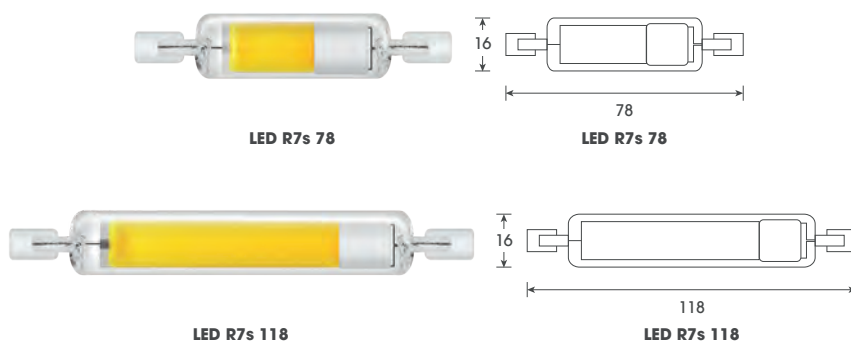
- Extremely energy saving with low power consumption
- Ideal retrofit of linear halogen R7s
- Overall light distribution
- Good color rendition, $R_a \geq 80$



EUROPE



LINE VOLTAGE LAMP



Model	Voltage	Wattage	Base	Color Temp	Lumen 2700K / 3000K / 4000K / 6500K	
LED R7S 78 4W	220 - 240V	4W	R7s	2700K / 3000K / 4000K / 6500K	450lm / 470lm / 480lm / 490lm	E
LED R7S 118 8W	220 - 240V	8W	R7s	2700K / 3000K / 4000K / 6500K	880lm / 900lm / 950lm / 960lm	E

LED (6+4+4+4)

4W ~ 60W
8W ~ 60W



LED Tubular Striplight

Features

- Extremely energy saving with low power consumption
- Ideal retrofit of traditional incandescent striplights
- Direct AC input with integrated driver
- No mercury and hazardous substances
- PC housing
- 120V is available on request
- Good color rendition, Ra ≥ 80

EUROPE



LINE VOLTAGE LAMP



T9 S14s Base



T9 S14d Base



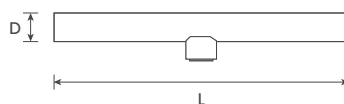
T8 S15 Base



T12 S19 Base



T9 S14s Base



T9 S14d Base



T8 S15 Base

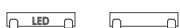


T12 S19 Base



Model	Voltage	Wattage	Base	Beam Angle	Diameter D	Length L	Color Temp	Lumen	
LED TP S14s T9 5W	220 - 240V	5W	S14s	270°	Ø30mm	300mm	2700K	450lm	F
LED TP S14s T9 8W	220 - 240V	8W	S14s	270°	Ø30mm	500mm	2700K	750lm	F
LED TP S14s T9 5W DIM	220 - 240V	5W	S14s	270°	Ø30mm	300mm	2700K	450lm	F
LED TP S14s T9 8W DIM	220 - 240V	8W	S14s	270°	Ø30mm	500mm	2700K	750lm	F
LED TP S14d T9 5W	220 - 240V	5W	S14d	270°	Ø30mm	300mm	2700K	450lm	F
LED TP S14d T9 8W	220 - 240V	8W	S14d	270°	Ø30mm	500mm	2700K	750lm	F
LED TP S14d T9 5W DIM	220 - 240V	5W	S14d	270°	Ø30mm	300mm	2700K	450lm	F
LED TP S14d T9 8W DIM	220 - 240V	8W	S14d	270°	Ø30mm	500mm	2700K	750lm	F
LED TP S15 T8 4W	220 - 240V	4W	S15	300°	Ø26mm	221mm	2700K	350lm	F
LED TP S15 T8 6W	220 - 240V	6W	S15	300°	Ø26mm	284mm	2700K	550lm	F
LED TP S15 T8 4W DIM	220 - 240V	4W	S15	300°	Ø26mm	221mm	2700K	350lm	F
LED TP S15 T8 6W DIM	220 - 240V	6W	S15	300°	Ø26mm	284mm	2700K	550lm	F
LED TP S19 T12 7W	220 - 240V	7W	S19	300°	Ø38mm	310mm	2700K	600lm	F
LED TP S19 T12 7W DIM	220 - 240V	7W	S19	300°	Ø38mm	310mm	2700K	600lm	F

T9 S14s Base



5W ~ 35W
8W ~ 60W

T9 S14d Base



5W ~ 35W
8W ~ 60W

T8 S15 Base /
T12 S19 Base

4W ~ 30W
6W ~ 60W
7W ~ 60W



TUBE



LED T5
P. 64 - 70



LED T8
P. 71 - 76



LED T5 DECOR COLOR
P. 77 - 78



LED T8 SPECIAL COLOR
P. 79 - 84



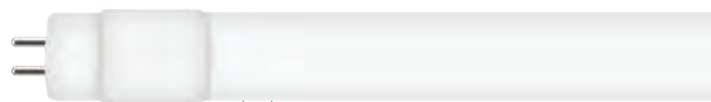
LED T9 CIRCULAR
P. 85



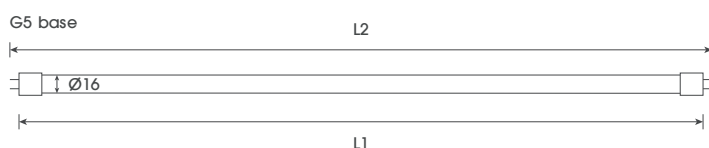
LED T5 SHORT ECG

Features

- Energy saving with low power consumption
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Good color rendition, Ra ≥ 80



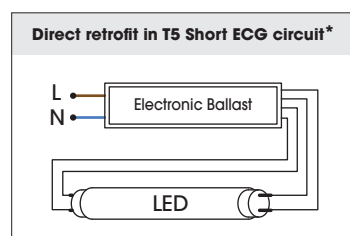
- No Re-wiring*
- Broad compatibility with ballasts



Model	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	ENERGY
LED F2T5/E/830/150	2W	3000K	270°	4W ECG	136mm / 150mm	115lm/W	230lm	F
LED F2T5/E/840/150	2W	4000K	270°	4W ECG	136mm / 150mm	118lm/W	235lm	F
LED F2T5/E/865/150	2W	6500K	270°	4W ECG	136mm / 150mm	120lm/W	240lm	E
LED F3T5/E/830/226	3W	3000K	270°	6W ECG	212mm / 226mm	115lm/W	345lm	F
LED F3T5/E/840/226	3W	4000K	270°	6W ECG	212mm / 226mm	118lm/W	355lm	F
LED F3T5/E/865/226	3W	6500K	270°	6W ECG	212mm / 226mm	120lm/W	360lm	E
LED F4T5/E/830/302	4W	3000K	270°	8W ECG	288mm / 302mm	115lm/W	460lm	F
LED F4T5/E/840/302	4W	4000K	270°	8W ECG	288mm / 302mm	118lm/W	470lm	F
LED F4T5/E/865/302	4W	6500K	270°	8W ECG	288mm / 302mm	120lm/W	480lm	E
LED F7T5/E/830/531	7W	3000K	270°	13W ECG	517mm / 531mm	115lm/W	805lm	F
LED F7T5/E/840/531	7W	4000K	270°	13W ECG	517mm / 531mm	118lm/W	825lm	F
LED F7T5/E/865/531	7W	6500K	270°	13W ECG	517mm / 531mm	120lm/W	840lm	E

Actual performance may vary depending on ballast output

LED	Short
2W ~ 4W	
3W ~ 6W	
4W ~ 8W	
7W ~ 13W	



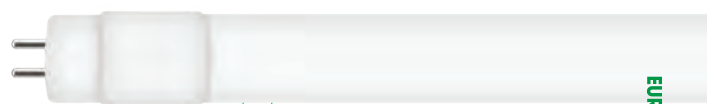
- Suitable for direct retrofit to 1x short electronic ballast
- Compatible with T5 Fluorescent Emergency Kit

* Comply to EN62776

LED T5 HE ECG

Features

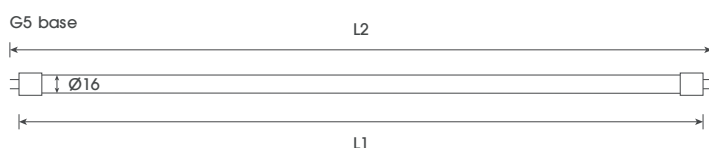
- Energy saving with low power consumption
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Good color rendition, Ra ≥80



- No Re-wiring*
- Broad compatibility with ballasts

EUROPE

TUBE

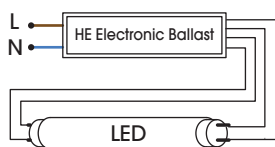


Model	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	ENERGY*
LED F8T5/E/830/600	8W	3000K	270°	14W HE ECG	549mm / 563mm	115lm/W	920lm	F
LED F8T5/E/840/600	8W	4000K	270°	14W HE ECG	549mm / 563mm	118lm/W	940lm	F
LED F8T5/E/865/600	8W	6500K	270°	14W HE ECG	549mm / 563mm	120lm/W	960lm	E
LED F12T5/E/830/900	12W	3000K	270°	21W HE ECG	849mm / 863mm	115lm/W	1380lm	F
LED F12T5/E/840/900	12W	4000K	270°	21W HE ECG	849mm / 863mm	118lm/W	1410lm	F
LED F12T5/E/865/900	12W	6500K	270°	21W HE ECG	849mm / 863mm	120lm/W	1440lm	E
LED F16T5/E/830/1200	16W	3000K	270°	28W HE ECG	1149mm / 1163mm	115lm/W	1840lm	F
LED F16T5/E/840/1200	16W	4000K	270°	28W HE ECG	1149mm / 1163mm	118lm/W	1880lm	F
LED F16T5/E/865/1200	16W	6500K	270°	28W HE ECG	1149mm / 1163mm	120lm/W	1920lm	E
LED F20T5/E/830/1500	20W	3000K	270°	35W HE ECG	1449mm / 1463mm	115lm/W	2300lm	F
LED F20T5/E/840/1500	20W	4000K	270°	35W HE ECG	1449mm / 1463mm	118lm/W	2350lm	F
LED F20T5/E/865/1500	20W	6500K	270°	35W HE ECG	1449mm / 1463mm	120lm/W	2400lm	E

Actual performance may vary depending on ballast output

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

Direct retrofit in T5 HE ECG circuit*



- Suitable for direct retrofit to 1x, 2x HE electronic ballast
- Compatible with T5 Fluorescent Emergency Kit
- Compatibility with 3x, 4x T5 fluo. HE electronic ballast depending on brand / model

* Comply to EN62776



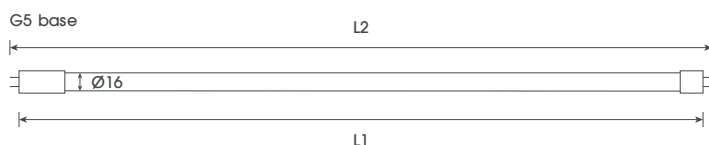
LED T5 HO ECG

Features

- Energy saving with low power consumption
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Good color rendition, Ra ≥ 80

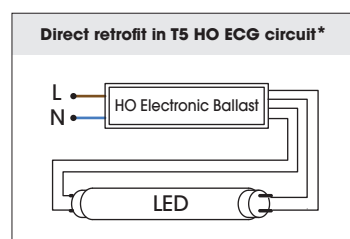


- No Re-wiring*
- Broad compatibility with ballasts



Model	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	ENERGY*
LED F27T5/E/830/1200/HO/L	27W	3000K	270°	54W HO ECG	1149mm / 1163mm	130lm/W	3500lm	E
LED F27T5/E/840/1200/HO/L	27W	4000K	270°	54W HO ECG	1149mm / 1163mm	135lm/W	3650lm	E
LED F27T5/E/865/1200/HO/L	27W	6500K	270°	54W HO ECG	1149mm / 1163mm	139lm/W	3750lm	E
LED F27T5/E/830/1500/HO/L	27W	3000K	270°	49W HO ECG	1449mm / 1463mm	130lm/W	3500lm	E
LED F27T5/E/840/1500/HO/L	27W	4000K	270°	49W HO ECG	1449mm / 1463mm	135lm/W	3650lm	E
LED F27T5/E/865/1500/HO/L	27W	6500K	270°	49W HO ECG	1449mm / 1463mm	139lm/W	3750lm	E

Actual performance may vary depending on ballast output



* Comply to EN62776

- Suitable for direct retrofit to 1x, 2x HO electronic ballast
- Compatible with T5 Fluorescent Emergency Kit
- Compatibility with 3x, 4x T5 fluo. HO electronic ballast depending on brand / model

LED T5 AC

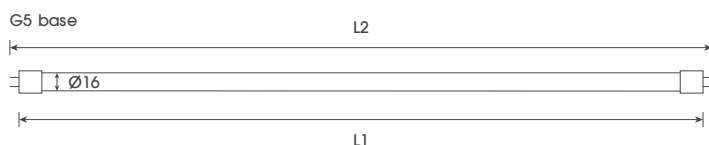


Features

- Energy saving with low power consumption
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, $R_a \geq 80$

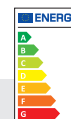


AC Input



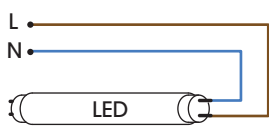
EUROPE

TUBE

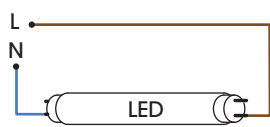


Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	
LED F8T5/AC/830/600	220 - 240V	8W	3000K	270°	AC	549mm / 563mm	115lm/W	920lm	E
LED F8T5/AC/840/600	220 - 240V	8W	4000K	270°	AC	549mm / 563mm	118lm/W	940lm	E
LED F8T5/AC/865/600	220 - 240V	8W	6500K	270°	AC	549mm / 563mm	120lm/W	960lm	E
LED F12T5/AC/830/900	220 - 240V	12W	3000K	270°	AC	849mm / 863mm	115lm/W	1380lm	E
LED F12T5/AC/840/900	220 - 240V	12W	4000K	270°	AC	849mm / 863mm	118lm/W	1410lm	E
LED F12T5/AC/865/900	220 - 240V	12W	6500K	270°	AC	849mm / 863mm	120lm/W	1440lm	E
LED F16T5/AC/830/1200	220 - 240V	16W	3000K	270°	AC	1149mm / 1163mm	115lm/W	1840lm	E
LED F16T5/AC/840/1200	220 - 240V	16W	4000K	270°	AC	1149mm / 1163mm	118lm/W	1880lm	E
LED F16T5/AC/865/1200	220 - 240V	16W	6500K	270°	AC	1149mm / 1163mm	120lm/W	1920lm	E
LED F20T5/AC/830/1500	220 - 240V	20W	3000K	270°	AC	1449mm / 1463mm	115lm/W	2300lm	E
LED F20T5/AC/840/1500	220 - 240V	20W	4000K	270°	AC	1449mm / 1463mm	118lm/W	2350lm	E
LED F20T5/AC/865/1500	220 - 240V	20W	6500K	270°	AC	1449mm / 1463mm	120lm/W	2400lm	E

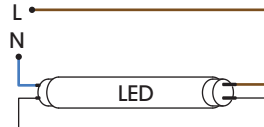
AC Input (Single End Version)



AC Input (Double End Version)



AC Input (Type A)



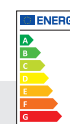
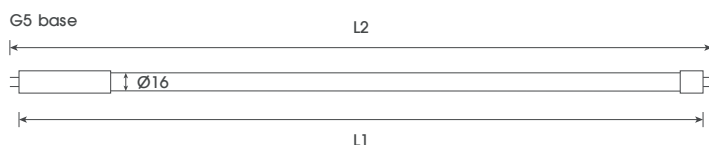
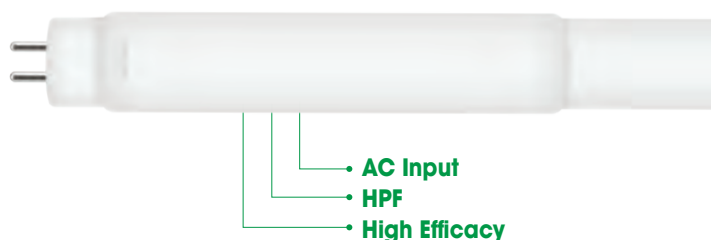
Direct 220 - 240Vac input. Integral LED driver



LED T5 AC HPF

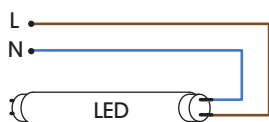
Features

- Energy saving with low power consumption
- High efficacy up to 155lm/W
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 100-277Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥80

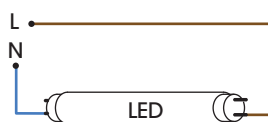


Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	
HE Version									
LED F8T5/AC/830/600/L	100 - 277V	8W	3000K	270°	AC	549mm / 563mm	145lm/W	1160lm	D
LED F8T5/AC/840/600/L	100 - 277V	8W	4000K	270°	AC	549mm / 563mm	148lm/W	1180lm	D
LED F8T5/AC/865/600/L	100 - 277V	8W	6500K	270°	AC	549mm / 563mm	150lm/W	1200lm	D
LED F12T5/AC/830/900/L	100 - 277V	12W	3000K	270°	AC	849mm / 863mm	145lm/W	1740lm	D
LED F12T5/AC/840/900/L	100 - 277V	12W	4000K	270°	AC	849mm / 863mm	148lm/W	1770lm	D
LED F12T5/AC/865/900/L	100 - 277V	12W	6500K	270°	AC	849mm / 863mm	150lm/W	1800lm	D
LED F16T5/AC/830/1200/L	100 - 277V	16W	3000K	270°	AC	1149mm / 1163mm	145lm/W	2320lm	D
LED F16T5/AC/840/1200/L	100 - 277V	16W	4000K	270°	AC	1149mm / 1163mm	148lm/W	2370lm	D
LED F16T5/AC/865/1200/L	100 - 277V	16W	6500K	270°	AC	1149mm / 1163mm	150lm/W	2400lm	D
LED F20T5/AC/830/1500/L	100 - 277V	20W	3000K	270°	AC	1449mm / 1463mm	145lm/W	2900lm	D
LED F20T5/AC/840/1500/L	100 - 277V	20W	4000K	270°	AC	1449mm / 1463mm	148lm/W	2950lm	D
LED F20T5/AC/865/1500/L	100 - 277V	20W	6500K	270°	AC	1449mm / 1463mm	150lm/W	3000lm	D
HO Version									
LED F14T5/AC/830/600/L	100 - 277V	14W	3000K	270°	AC	549mm / 563mm	145lm/W	2030lm	D
LED F14T5/AC/840/600/L	100 - 277V	14W	4000K	270°	AC	549mm / 563mm	148lm/W	2065lm	D
LED F14T5/AC/865/600/L	100 - 277V	14W	6500K	270°	AC	549mm / 563mm	150lm/W	2100lm	D
LED F20T5/AC/830/900/L	100 - 277V	20W	3000K	270°	AC	849mm / 863mm	145lm/W	2900lm	D
LED F20T5/AC/840/900/L	100 - 277V	20W	4000K	270°	AC	849mm / 863mm	148lm/W	2950lm	D
LED F20T5/AC/865/900/L	100 - 277V	20W	6500K	270°	AC	849mm / 863mm	150lm/W	3000lm	D
LED F25T5/AC/830/1200/L	100 - 277V	25W	3000K	270°	AC	1149mm / 1163mm	145lm/W	3630lm	D
LED F25T5/AC/840/1200/L	100 - 277V	25W	4000K	270°	AC	1149mm / 1163mm	148lm/W	3690lm	D
LED F25T5/AC/865/1200/L	100 - 277V	25W	6500K	270°	AC	1149mm / 1163mm	150lm/W	3750lm	D
LED F25T5/AC/830/1500/L	100 - 277V	25W	3000K	270°	AC	1449mm / 1463mm	145lm/W	3630lm	D
LED F25T5/AC/840/1500/L	100 - 277V	25W	4000K	270°	AC	1449mm / 1463mm	148lm/W	3690lm	D
LED F25T5/AC/865/1500/L	100 - 277V	25W	6500K	270°	AC	1449mm / 1463mm	150lm/W	3750lm	D

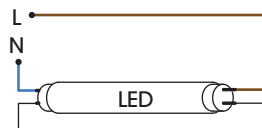
AC Input (Single End Version)



AC Input (Double End Version)



AC Input (Type A)



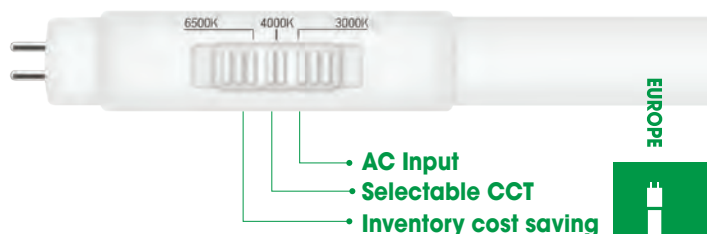
Direct 100 - 277Vac input. Integral LED driver



LED T5 3CCT AC

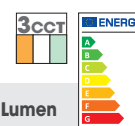
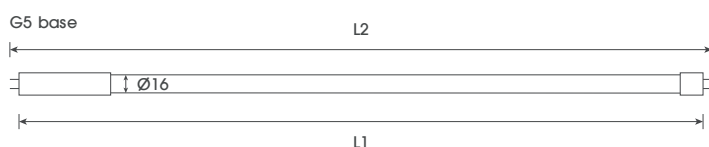
Features

- Energy saving with low power consumption
- Selectable CCT via dip-switch
- Inventory cost saving
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, $R_a \geq 80$

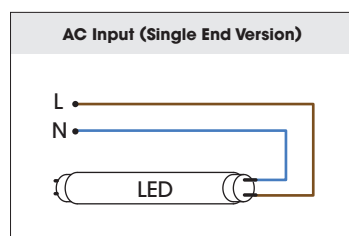


EUROPE

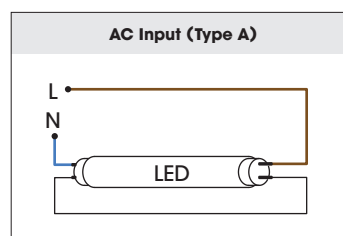
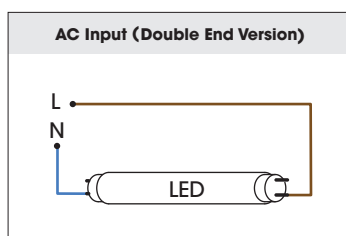
TUBE



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	
LED F8T5/AC/8XX/600/3CCT	220 - 240V	8W	3000K - 4000K - 6500K	270°	AC	549mm / 563mm	130lm/W	1040lm	E
LED F12T5/AC/8XX/900/3CCT	220 - 240V	12W	3000K - 4000K - 6500K	270°	AC	849mm / 863mm	130lm/W	1560lm	E
LED F16T5/AC/8XX/1200/3CCT	220 - 240V	16W	3000K - 4000K - 6500K	270°	AC	1149mm / 1163mm	130lm/W	2080lm	E
LED F20T5/AC/8XX/1500/3CCT	220 - 240V	20W	3000K - 4000K - 6500K	270°	AC	1449mm / 1463mm	130lm/W	2600lm	E



Direct 220 - 240Vac input. Integral LED driver

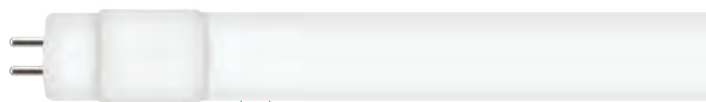




LED T5 Global CC

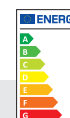
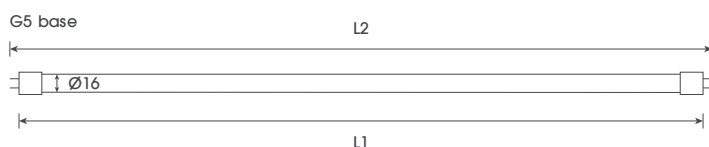
Features

- Two pins connection allows 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 150lm/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
- No mercury and hazardous substances
- Energy saving with low power consumption
- Smooth operation even at low temperatures
- Full glass body
- Good color rendition, Ra ≥ 80



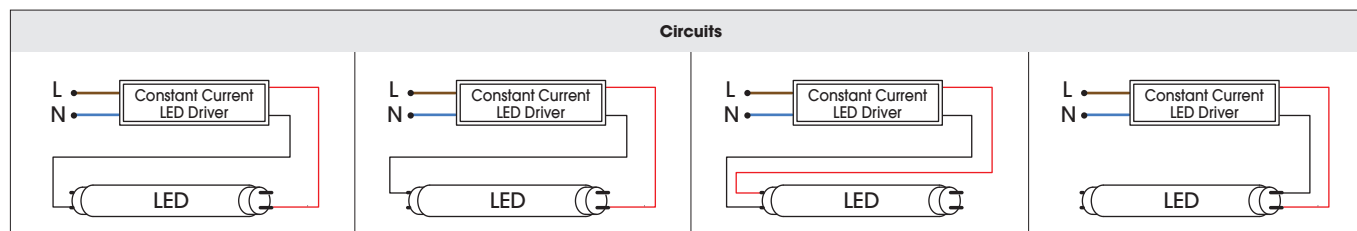
- EM lighting
- Extensive compatibility

Dimming Options



Model	Wattage	Current	Voltage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	
LED F4T5/CC/830/300	4W	C.C.350mA	9 - 13V	3000K	270°	UL Type C	288mm / 302mm	145lm/W	580lm	E
LED F4T5/CC/840/300	4W	C.C.350mA	9 - 13V	4000K	270°	UL Type C	288mm / 302mm	148lm/W	590lm	D
LED F4T5/CC/865/300	4W	C.C.350mA	9 - 13V	6500K	270°	UL Type C	288mm / 302mm	150lm/W	600lm	D
LED F8T5/CC/830/600	8W	C.C.350mA	21 - 25V	3000K	270°	UL Type C	549mm / 563mm	145lm/W	1160lm	E
LED F8T5/CC/840/600	8W	C.C.350mA	21 - 25V	4000K	270°	UL Type C	549mm / 563mm	148lm/W	1180lm	D
LED F8T5/CC/865/600	8W	C.C.350mA	21 - 25V	6500K	270°	UL Type C	549mm / 563mm	150lm/W	1200lm	D
LED F12T5/CC/830/900	12W	C.C.350mA	31 - 37V	3000K	270°	UL Type C	849mm / 863mm	145lm/W	1740lm	E
LED F12T5/CC/840/900	12W	C.C.350mA	31 - 37V	4000K	270°	UL Type C	849mm / 863mm	148lm/W	1770lm	D
LED F12T5/CC/865/900	12W	C.C.350mA	31 - 37V	6500K	270°	UL Type C	849mm / 863mm	150lm/W	1800lm	D
LED F16T5/CC/830/1200	16W	C.C.350mA	42 - 48V	3000K	270°	UL Type C	1149mm / 1163mm	145lm/W	2320lm	E
LED F16T5/CC/840/1200	16W	C.C.350mA	42 - 48V	4000K	270°	UL Type C	1149mm / 1163mm	148lm/W	2360lm	D
LED F16T5/CC/865/1200	16W	C.C.350mA	42 - 48V	6500K	270°	UL Type C	1149mm / 1163mm	150lm/W	2400lm	D
LED F20T5/CC/830/1500	20W	C.C.500mA	36 - 44V	3000K	270°	UL Type C	1449mm / 1463mm	145lm/W	2900lm	E
LED F20T5/CC/840/1500	20W	C.C.500mA	36 - 44V	4000K	270°	UL Type C	1449mm / 1463mm	148lm/W	2950lm	D
LED F20T5/CC/865/1500	20W	C.C.500mA	36 - 44V	6500K	270°	UL Type C	1449mm / 1463mm	150lm/W	3000lm	D
LED F28T5/CC/830/1500	28W	C.C.700mA	38 - 42V	3000K	270°	UL Type C	1449mm / 1463mm	145lm/W	4060lm	E
LED F28T5/CC/840/1500	28W	C.C.700mA	38 - 42V	4000K	270°	UL Type C	1449mm / 1463mm	148lm/W	4130lm	D
LED F28T5/CC/865/1500	28W	C.C.700mA	38 - 42V	6500K	270°	UL Type C	1449mm / 1463mm	150lm/W	4200lm	D

Circuits

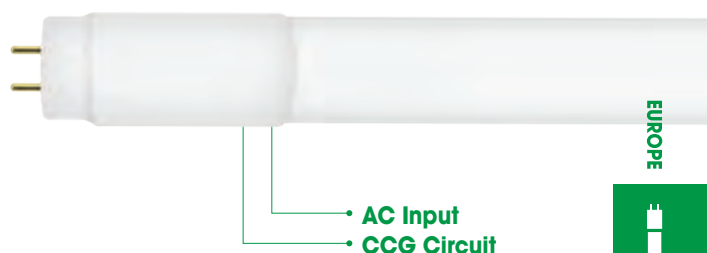




LED T8 Type A/B/SE

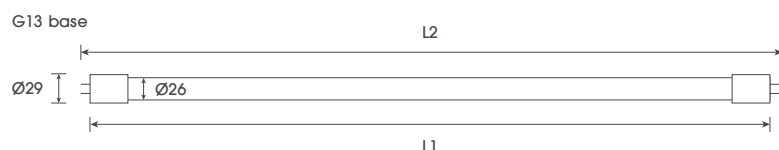
Features

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Type A/B is for direct retrofit of magnetic ballast circuit
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.9
- High efficacy up to 140lm/W
- Good color rendition, Ra $\geq$ 80

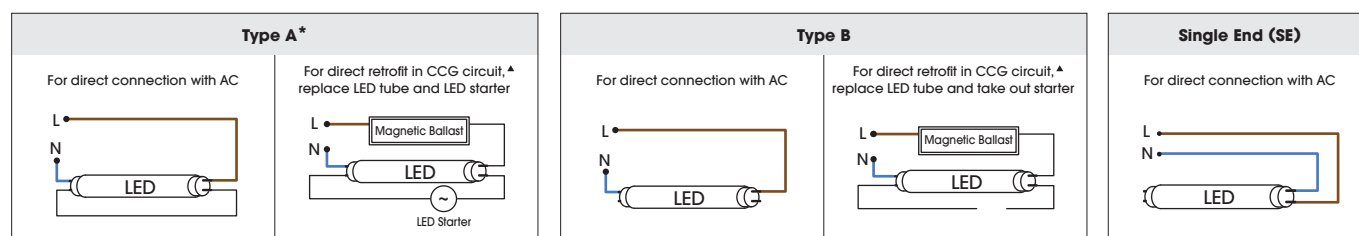
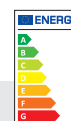


EUROPE

TUBE



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	ENERGY
LED F10T8/830/G/600	220 - 240V	10W	3000K	280°	A / B / SE	588mm / 602mm	95lm/W	950lm	F
LED F10T8/840/G/600	220 - 240V	10W	4000K	280°	A / B / SE	588mm / 602mm	100lm/W	1000lm	F
LED F10T8/865/G/600	220 - 240V	10W	6500K	280°	A / B / SE	588mm / 602mm	100lm/W	1000lm	F
LED F14T8/830/G/900	220 - 240V	14W	3000K	280°	A / B / SE	894mm / 906mm	100lm/W	1400lm	F
LED F14T8/840/G/900	220 - 240V	14W	4000K	280°	A / B / SE	894mm / 906mm	107lm/W	1500lm	F
LED F14T8/865/G/900	220 - 240V	14W	6500K	280°	A / B / SE	894mm / 906mm	107lm/W	1500lm	F
LED F20T8/830/G/1200	220 - 240V	20W	3000K	280°	A / B / SE	1198mm / 1212mm	105lm/W	2100lm	F
LED F20T8/840/G/1200	220 - 240V	20W	4000K	280°	A / B / SE	1198mm / 1212mm	110lm/W	2200lm	E
LED F20T8/865/G/1200	220 - 240V	20W	6500K	280°	A / B / SE	1198mm / 1212mm	110lm/W	2200lm	E
LED F24T8/830/G/1500	220 - 240V	24W	3000K	280°	A / B / SE	1500mm / 1513mm	104lm/W	2500lm	F
LED F24T8/840/G/1500	220 - 240V	24W	4000K	280°	A / B / SE	1500mm / 1513mm	110lm/W	2640lm	E
LED F24T8/865/G/1500	220 - 240V	24W	6500K	280°	A / B / SE	1500mm / 1513mm	110lm/W	2640lm	E
LED F30T8/830/G/1800	220 - 240V	30W	3000K	280°	A / B / SE	1764mm / 1778mm	108lm/W	3240lm	F
LED F30T8/840/G/1800	220 - 240V	30W	4000K	280°	A / B / SE	1764mm / 1778mm	115lm/W	3450lm	E
LED F30T8/865/G/1800	220 - 240V	30W	6500K	280°	A / B / SE	1764mm / 1778mm	115lm/W	3450lm	E



* Comply to EN62776

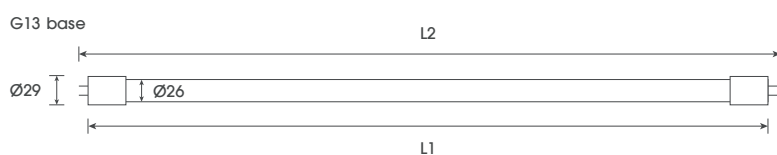
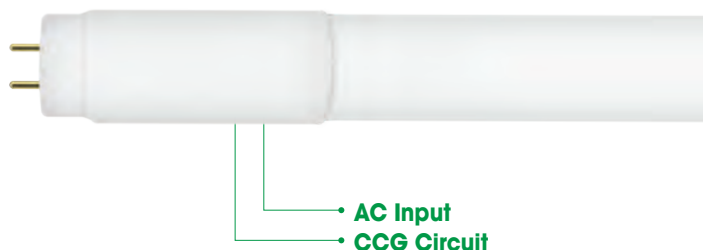
▲ Recommend to remove the parallel capacitor (if any) to achieve HPF



LED T8 HO Type A/B/SE

Features

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Type A/B is for direct retrofit of magnetic ballast circuit
- High efficacy up to 160lm/W
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra $\geq$ 80



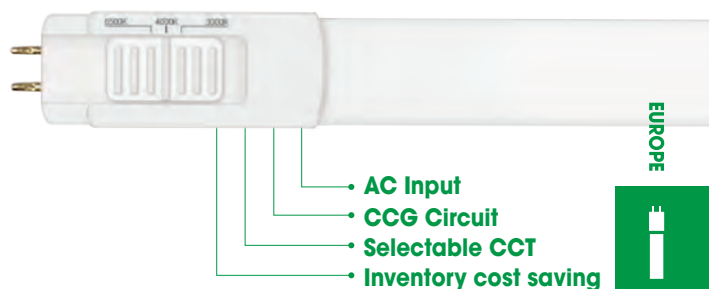
Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	
LED F8T8/830/G/600/HO	220 - 240V	8W	3000K	280°	A / B / SE	588mm / 602mm	150lm/W	1200lm	D
LED F8T8/840/G/600/HO	220 - 240V	8W	4000K	280°	A / B / SE	588mm / 602mm	160lm/W	1280lm	C
LED F8T8/865/G/600/HO	220 - 240V	8W	6500K	280°	A / B / SE	588mm / 602mm	160lm/W	1280lm	C
LED F18T8/830/G/1200/HO	220 - 240V	18W	3000K	280°	A / B / SE	1198mm / 1212mm	154lm/W	2780lm	D
LED F18T8/840/G/1200/HO	220 - 240V	18W	4000K	280°	A / B / SE	1198mm / 1212mm	160lm/W	2880lm	C
LED F18T8/865/G/1200/HO	220 - 240V	18W	6500K	280°	A / B / SE	1198mm / 1212mm	160lm/W	2880lm	C
LED F22T8/830/G/1500/HO	220 - 240V	22W	3000K	280°	A / B / SE	1500mm / 1513mm	155lm/W	3420lm	D
LED F22T8/840/G/1500/HO	220 - 240V	22W	4000K	280°	A / B / SE	1500mm / 1513mm	160lm/W	3520lm	C
LED F22T8/865/G/1500/HO	220 - 240V	22W	6500K	280°	A / B / SE	1500mm / 1513mm	160lm/W	3520lm	C



LED T8 3CCT Type A/B/SE

Features

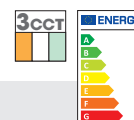
- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Selectable CCT via dip-switch
- Inventory cost saving
- Type A/B is for direct retrofit of magnetic ballast circuit
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.9
- High efficacy up to 120lm/W
- Good color rendition, Ra $\geq$ 80



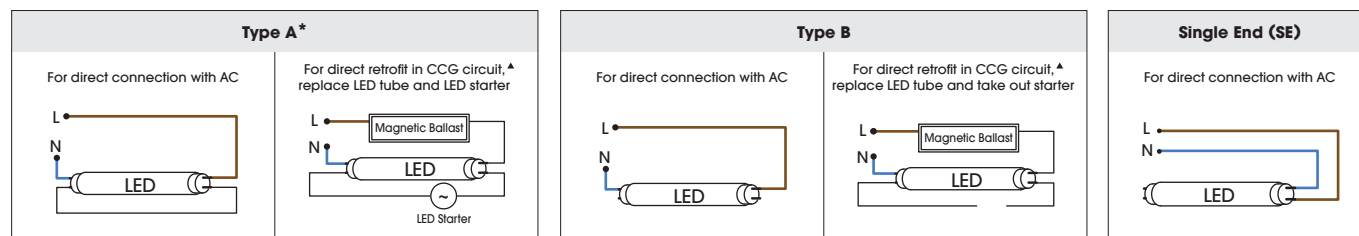
EUROPE

TUBE

G13 base	L2	(Unit : mm)	(L1)	(L2)
$\varnothing 29$	$\varnothing 26$	9W	588	602
		18W	1198	1212
		22W	1500	1513
		30W	1764	1778
	L1			



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Efficacy	Lumen	
LED F9T8/8XX/G/600/3CCT	220 - 240V	9W	3000K - 4000K - 6500K	280°	A / B / SE	100lm/W / 110lm/W	900lm / 990lm / 990lm	E
LED F18T8/8XX/G/1200/3CCT	220 - 240V	18W	3000K - 4000K - 6500K	280°	A / B / SE	105lm/W / 110lm/W	1900lm / 1980lm / 1980lm	E
LED F22T8/8XX/G/1500/3CCT	220 - 240V	22W	3000K - 4000K - 6500K	280°	A / B / SE	105lm/W / 110lm/W	2320lm / 2420lm / 2420lm	E
LED F30T8/8XX/G/1800/3CCT	220 - 240V	30W	3000K - 4000K - 6500K	280°	A / B / SE	110lm/W / 120lm/W	3300lm / 3600lm / 3600lm	E



* Comply to EN62776

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



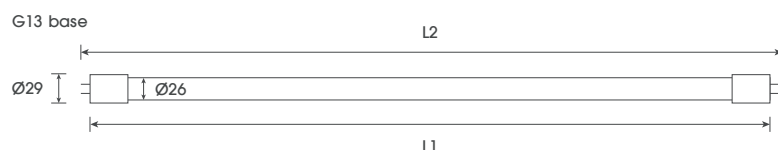
LED T8 Type C

Features

- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no re-wiring
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Compatible with T8 fluorescent emergency kit
- Housing: Aluminium + PC
- Good color rendition, Ra ≥ 80

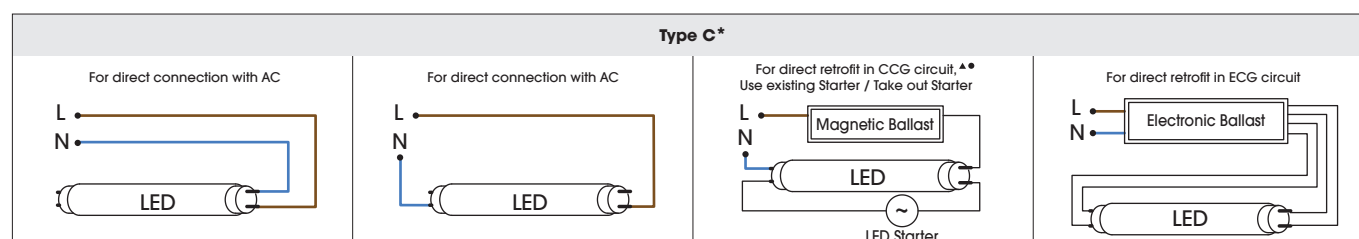


- No Re-wiring*
- AC Input
- CCG & ECG Circuit



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	ENERGY*
LED F10T8/C/830/600	110 - 240V	10W	3000K	160°	Type C	590mm / 604mm	100lm/W	1000lm	F
LED F10T8/C/840/600	110 - 240V	10W	4000K	160°	Type C	590mm / 604mm	105lm/W	1050lm	F
LED F10T8/C/865/600	110 - 240V	10W	6500K	160°	Type C	590mm / 604mm	110lm/W	1100lm	E
LED F18T8/C/830/1200	110 - 240V	18W	3000K	160°	Type C	1200mm / 1213mm	101lm/W	1820lm	F
LED F18T8/C/840/1200	110 - 240V	18W	4000K	160°	Type C	1200mm / 1213mm	105lm/W	1890lm	F
LED F18T8/C/865/1200	110 - 240V	18W	6500K	160°	Type C	1200mm / 1213mm	110lm/W	1980lm	E
LED F24T8/C/830/1500	110 - 240V	24W	3000K	160°	Type C	1500mm / 1513mm	104lm/W	2500lm	F
LED F24T8/C/840/1500	110 - 240V	24W	4000K	160°	Type C	1500mm / 1513mm	106lm/W	2550lm	F
LED F24T8/C/865/1500	110 - 240V	24W	6500K	160°	Type C	1500mm / 1513mm	110lm/W	2640lm	E

Actual performance may vary depending on ballast output



* Comply to EN62776

• Tandem circuit is not applicable

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

LED T8 Global CC



Features

- Two pins connection allows 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 140lm/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
- No mercury and hazardous substances
- Energy saving with low power consumption
- Smooth operation even at low temperatures
- Full glass body
- Good color rendition, $R_a \geq 80$

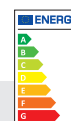
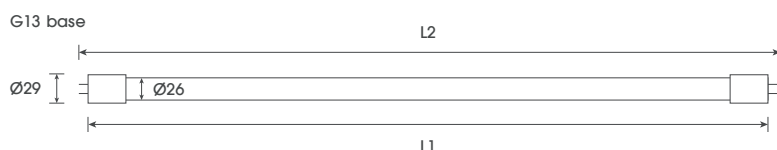


- High efficacy
- EM lighting
- Extensive compatibility

EUROPE

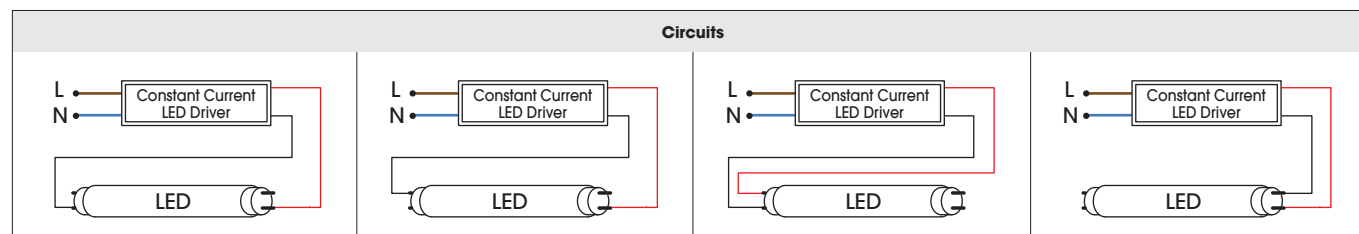
TUBE

Dimming Options



Model	Wattage	Current	Voltage	Color Temp	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen	
LED F13T8/830/G/CC/600	13W	C.C.700mA	17 - 22V	3000K	280°	UL Type C	588mm / 602mm	135lm/W	1755lm	E
LED F13T8/840/G/CC/600	13W	C.C.700mA	17 - 22V	4000K	280°	UL Type C	588mm / 602mm	140lm/W	1820lm	E
LED F13T8/850/G/CC/600	13W	C.C.700mA	17 - 22V	5000K	280°	UL Type C	588mm / 602mm	140lm/W	1820lm	E
LED F13T8/865/G/CC/600	13W	C.C.700mA	17 - 22V	6500K	280°	UL Type C	588mm / 602mm	140lm/W	1820lm	E
LED F19T8/830/G/CC/900	19W	C.C.700mA	25 - 30V	3000K	280°	UL Type C	894mm / 906mm	135lm/W	2565lm	E
LED F19T8/840/G/CC/900	19W	C.C.700mA	25 - 30V	4000K	280°	UL Type C	894mm / 906mm	140lm/W	2660lm	E
LED F19T8/850/G/CC/900	19W	C.C.700mA	25 - 30V	5000K	280°	UL Type C	894mm / 906mm	140lm/W	2660lm	E
LED F19T8/865/G/CC/900	19W	C.C.700mA	25 - 30V	6500K	280°	UL Type C	894mm / 906mm	140lm/W	2660lm	E
LED F31T8/830/G/CC/1200	31W	C.C.1050mA	28 - 33V	3000K	280°	UL Type C	1198mm / 1212mm	135lm/W	4185lm	E
LED F31T8/840/G/CC/1200	31W	C.C.1050mA	28 - 33V	4000K	280°	UL Type C	1198mm / 1212mm	140lm/W	4340lm	E
LED F31T8/850/G/CC/1200	31W	C.C.1050mA	28 - 33V	5000K	280°	UL Type C	1198mm / 1212mm	140lm/W	4340lm	E
LED F31T8/865/G/CC/1200	31W	C.C.1050mA	28 - 33V	6500K	280°	UL Type C	1198mm / 1212mm	140lm/W	4340lm	E
LED F41T8/830/G/CC/1500	41W	C.C.1050mA	36 - 41V	3000K	280°	UL Type C	1500mm / 1513mm	135lm/W	5535lm	E
LED F41T8/840/G/CC/1500	41W	C.C.1050mA	36 - 41V	4000K	280°	UL Type C	1500mm / 1513mm	140lm/W	5740lm	E
LED F41T8/850/G/CC/1500	41W	C.C.1050mA	36 - 41V	5000K	280°	UL Type C	1500mm / 1513mm	140lm/W	5740lm	E
LED F41T8/865/G/CC/1500	41W	C.C.1050mA	36 - 41V	6500K	280°	UL Type C	1500mm / 1513mm	140lm/W	5740lm	E
LED F41T8/830/G/CC/1500/2	41W	C.C.1400mA	27 - 31V	3000K	280°	UL Type C	1500mm / 1513mm	135lm/W	5535lm	E
LED F41T8/840/G/CC/1500/2	41W	C.C.1400mA	27 - 31V	4000K	280°	UL Type C	1500mm / 1513mm	140lm/W	5740lm	E
LED F41T8/850/G/CC/1500/2	41W	C.C.1400mA	27 - 31V	5000K	280°	UL Type C	1500mm / 1513mm	140lm/W	5740lm	E
LED F41T8/865/G/CC/1500/2	41W	C.C.1400mA	27 - 31V	6500K	280°	UL Type C	1500mm / 1513mm	140lm/W	5740lm	E

Circuits

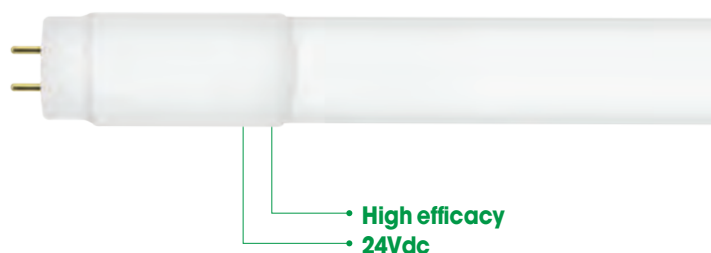




LED T8 24VDC

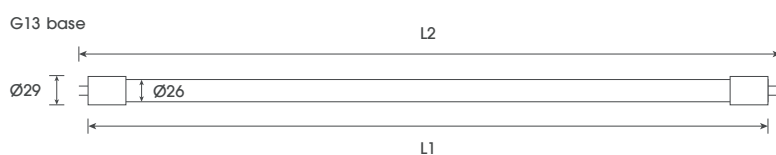
Features

- Energy saving with low power consumption
- Two pins connection allows flexible wiring for light up and bi-directional tube installation
- For 24Vdc input without polarity
- High efficacy up to 140lm/W
- No mercury and hazardous substances
- Smooth operation even at low temperatures
- Full glass body
- Operating voltage: 22-28Vdc
- Good color rendition, Ra ≥80

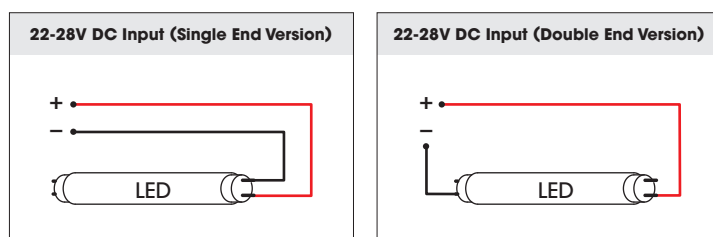
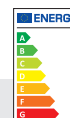


Applications:

- Train, tram, ferry, vessel systems, DC battery power system



Model	Voltage	Wattage	Color Temp	Beam Angle	Length L1 / L2	Efficacy	Lumen	ENERGY
LED F8T8/830/G/24V/600	24Vdc	8W	3000K	280°	588mm / 602mm	135lm/W	1080lm	E
LED F8T8/840/G/24V/600	24Vdc	8W	4000K	280°	588mm / 602mm	140lm/W	1120lm	E
LED F8T8/865/G/24V/600	24Vdc	8W	6500K	280°	588mm / 602mm	140lm/W	1120lm	E
LED F12T8/830/G/24V/900	24Vdc	12W	3000K	280°	894mm / 906mm	135lm/W	1620lm	E
LED F12T8/840/G/24V/900	24Vdc	12W	4000K	280°	894mm / 906mm	140lm/W	1680lm	E
LED F12T8/865/G/24V/900	24Vdc	12W	6500K	280°	894mm / 906mm	140lm/W	1680lm	E
LED F16T8/830/G/24V/1200	24Vdc	16W	3000K	280°	1198mm / 1212mm	135lm/W	2160lm	E
LED F16T8/840/G/24V/1200	24Vdc	16W	4000K	280°	1198mm / 1212mm	140lm/W	2240lm	E
LED F16T8/865/G/24V/1200	24Vdc	16W	6500K	280°	1198mm / 1212mm	140lm/W	2240lm	E
LED F20T8/830/G/24V/1500	24Vdc	20W	3000K	280°	1500mm / 1513mm	135lm/W	2700lm	E
LED F20T8/840/G/24V/1500	24Vdc	20W	4000K	280°	1500mm / 1513mm	140lm/W	2800lm	E
LED F20T8/865/G/24V/1500	24Vdc	20W	6500K	280°	1500mm / 1513mm	140lm/W	2800lm	E



Direct 24Vdc input. Integral LED driver

Working current of 24Vdc LED tube is higher than fluorescent tube

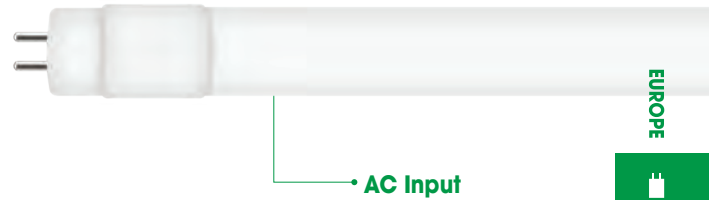
For parallel connection, check the current rating of G13 lamp socket



LED T5 DECOR Color AC

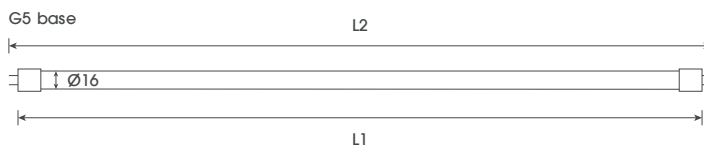
Features

- Energy saving with low power consumption
- Vivid colors in red / green / yellow / blue for decorative purposes
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5

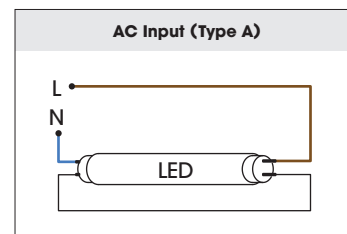
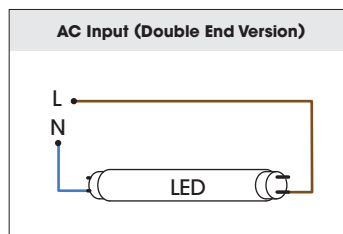
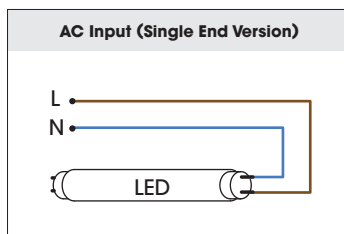


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Model	Voltage	Wattage	Color	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen
LED F8T5/AC/RED/600	220 - 240V	8W	Red	270°	AC	549mm / 563mm	18lm/W	140lm
LED F8T5/AC/GREEN/600	220 - 240V	8W	Green	270°	AC	549mm / 563mm	78lm/W	620lm
LED F8T5/AC/YELLOW/600	220 - 240V	8W	Yellow	270°	AC	549mm / 563mm	20lm/W	160lm
LED F8T5/AC/BLUE/600	220 - 240V	8W	Blue	270°	AC	549mm / 563mm	16lm/W	130lm
LED F12T5/AC/RED/900	220 - 240V	12W	Red	270°	AC	849mm / 863mm	18lm/W	210lm
LED F12T5/AC/GREEN/900	220 - 240V	12W	Green	270°	AC	849mm / 863mm	78lm/W	930lm
LED F12T5/AC/YELLOW/900	220 - 240V	12W	Yellow	270°	AC	849mm / 863mm	20lm/W	240lm
LED F12T5/AC/BLUE/900	220 - 240V	12W	Blue	270°	AC	849mm / 863mm	16lm/W	190lm
LED F16T5/AC/RED/1200	220 - 240V	16W	Red	270°	AC	1149mm / 1163mm	18lm/W	280lm
LED F16T5/AC/GREEN/1200	220 - 240V	16W	Green	270°	AC	1149mm / 1163mm	75lm/W	1200lm
LED F16T5/AC/YELLOW/1200	220 - 240V	16W	Yellow	270°	AC	1149mm / 1163mm	20lm/W	320lm
LED F16T5/AC/BLUE/1200	220 - 240V	16W	Blue	270°	AC	1149mm / 1163mm	16lm/W	260lm
LED F20T5/AC/RED/1500	220 - 240V	20W	Red	270°	AC	1449mm / 1463mm	18lm/W	350lm
LED F20T5/AC/GREEN/1500	220 - 240V	20W	Green	270°	AC	1449mm / 1463mm	78lm/W	1560lm
LED F20T5/AC/YELLOW/1500	220 - 240V	20W	Yellow	270°	AC	1449mm / 1463mm	20lm/W	400lm
LED F20T5/AC/BLUE/1500	220 - 240V	20W	Blue	270°	AC	1449mm / 1463mm	16lm/W	320lm



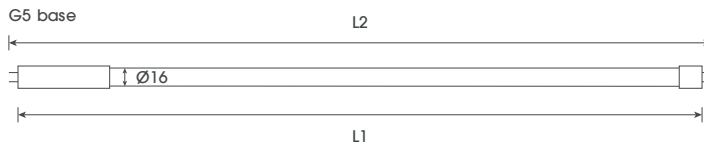
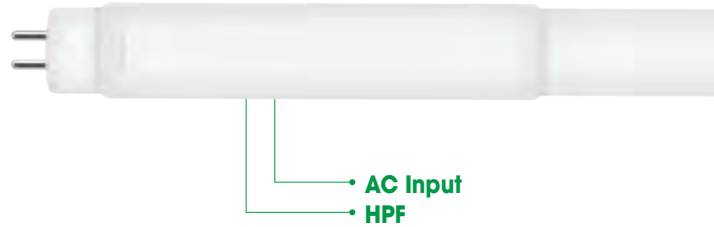
Direct 220 - 240Vac input. Integral LED driver.



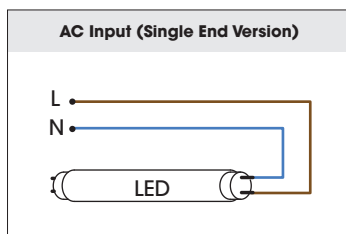
LED T5 DECOR Color AC HPF

Features

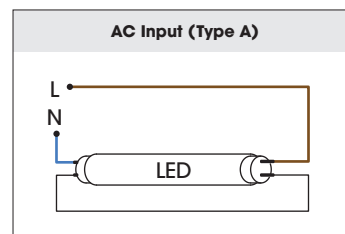
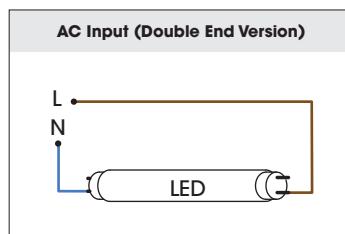
- Energy saving with low power consumption
- Vivid colors in red / green / yellow / blue for decorative purposes
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 100-277Vac, 50/60Hz, Power Factor: 0.9



Model	Voltage	Wattage	Color	Beam Angle	Type	Length L1 / L2	Efficacy	Lumen
LED F14T5/AC/RED/600/L	100 - 277V	14W	Red	270°	AC	549mm / 563mm	18lm/W	250lm
LED F14T5/AC/GREEN/600/L	100 - 277V	14W	Green	270°	AC	549mm / 563mm	79lm/W	1100lm
LED F14T5/AC/YELLOW/600/L	100 - 277V	14W	Yellow	270°	AC	549mm / 563mm	20lm/W	280lm
LED F14T5/AC/BLUE/600/L	100 - 277V	14W	Blue	270°	AC	549mm / 563mm	17lm/W	230lm
LED F20T5/AC/RED/900/L	100 - 277V	20W	Red	270°	AC	849mm / 863mm	18lm/W	360lm
LED F20T5/AC/GREEN/900/L	100 - 277V	20W	Green	270°	AC	849mm / 863mm	80lm/W	1600lm
LED F20T5/AC/YELLOW/900/L	100 - 277V	20W	Yellow	270°	AC	849mm / 863mm	20lm/W	400lm
LED F20T5/AC/BLUE/900/L	100 - 277V	20W	Blue	270°	AC	849mm / 863mm	17lm/W	350lm
LED F25T5/AC/RED/1200/L	100 - 277V	25W	Red	270°	AC	1149mm / 1163mm	18lm/W	450lm
LED F25T5/AC/GREEN/1200/L	100 - 277V	25W	Green	270°	AC	1149mm / 1163mm	80lm/W	2000lm
LED F25T5/AC/YELLOW/1200/L	100 - 277V	25W	Yellow	270°	AC	1149mm / 1163mm	20lm/W	500lm
LED F25T5/AC/BLUE/1200/L	100 - 277V	25W	Blue	270°	AC	1149mm / 1163mm	17lm/W	430lm
LED F25T5/AC/RED/1500/L	100 - 277V	25W	Red	270°	AC	1449mm / 1463mm	18lm/W	450lm
LED F25T5/AC/GREEN/1500/L	100 - 277V	25W	Green	270°	AC	1449mm / 1463mm	80lm/W	2000lm
LED F25T5/AC/YELLOW/1500/L	100 - 277V	25W	Yellow	270°	AC	1449mm / 1463mm	20lm/W	500lm
LED F25T5/AC/BLUE/1500/L	100 - 277V	25W	Blue	270°	AC	1449mm / 1463mm	17lm/W	430lm



Direct 100 - 277Vac input. Integral LED driver.

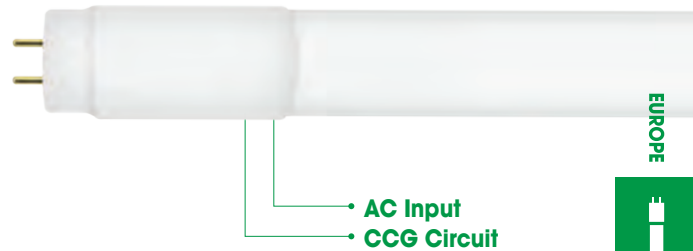
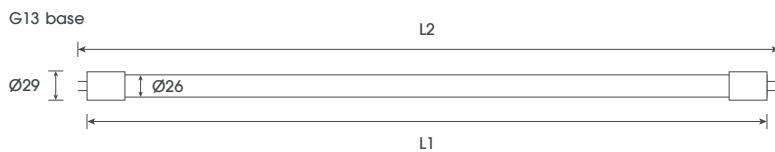




LED T8 Special Color Type A/B/SE

Features

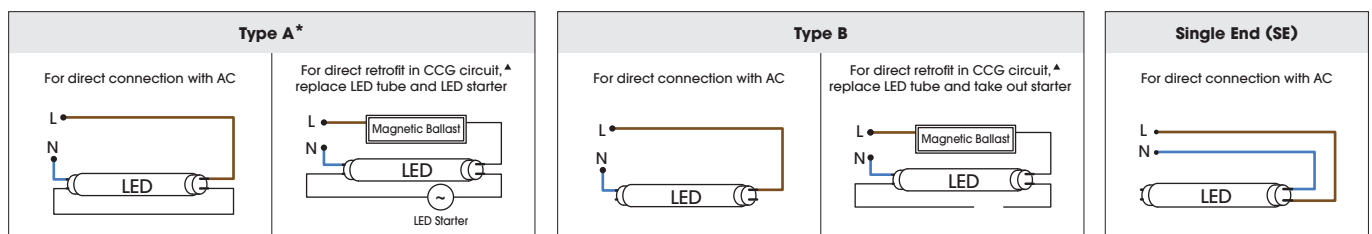
- Energy saving with low power consumption
- Perfect retrofit traditional lamps with no change on dimensions
- Red enhancement for natural color display
- Food tube for better fresh food appearance and discoloration prevention
- Yellow tube for special lighting in lithographic and printing industry
- Agricultural tube emits optimal purple color to speed up photosynthesis
- Aquarium tube in blue and red color spectrum enhances the coral growth
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Type A/B is for direct retrofit of magnetic ballast circuit
- Full glass body
- Voltage: 110-277Vac, 50/60Hz, Power Factor: 0.9



Special Color



Model	Voltage	Wattage	Color	Color Temp	Ra	Beam Angle	Type	Length L1 / L2	Lumen
LED F10T8/827/G/600/YE	110 - 277V	10W	Yellow Enhancement	2700K	>80	280°	A / B / SE	588mm / 602mm	900lm
LED F10T8/836/G/600/RE	110 - 277V	10W	Red Enhancement	3600K	>80	280°	A / B / SE	588mm / 602mm	1000lm
LED F10T8/925/G/600/FM	110 - 277V	10W	Fresh Meat	2500K	>90	280°	A / B / SE	588mm / 602mm	540lm
LED F10T8/880/G/600/WE	110 - 277V	10W	White Enhancement	8000K	>80	280°	A / B / SE	588mm / 602mm	1100lm
LED F10T8/627/G/600/YL	110 - 277V	10W	Yellow	2740K	>60	280°	A / B / SE	588mm / 602mm	1200lm
LED F10T8/213/G/600/AG	110 - 277V	10W	Agricultural (Purple)	1300K	>20	280°	A / B / SE	588mm / 602mm	300lm
LED F10T8/210/G/600/AQ	110 - 277V	10W	Aquarium (Blue + White)	16000-20000K	>20	280°	A / B / SE	588mm / 602mm	330lm
LED F14T8/827/G/900/YE	110 - 277V	14W	Yellow Enhancement	2700K	>80	280°	A / B / SE	894mm / 906mm	1150lm
LED F14T8/836/G/900/RE	110 - 277V	14W	Red Enhancement	3600K	>80	280°	A / B / SE	894mm / 906mm	1250lm
LED F14T8/925/G/900/FM	110 - 277V	14W	Fresh Meat	2500K	>90	280°	A / B / SE	894mm / 906mm	850lm
LED F14T8/880/G/900/WE	110 - 277V	14W	White Enhancement	8000K	>80	280°	A / B / SE	894mm / 906mm	1350lm
LED F14T8/627/G/900/YL	110 - 277V	14W	Yellow	2740K	>60	280°	A / B / SE	894mm / 906mm	1600lm
LED F14T8/213/G/900/AG	110 - 277V	14W	Agricultural (Purple)	1300K	>20	280°	A / B / SE	894mm / 906mm	400lm
LED F14T8/210/G/900/AQ	110 - 277V	14W	Aquarium (Blue + White)	16000-20000K	>20	280°	A / B / SE	894mm / 906mm	470lm
LED F22T8/827/G/1200/YE	110 - 277V	22W	Yellow Enhancement	2700K	>80	280°	A / B / SE	1198mm / 1212mm	1850lm
LED F22T8/836/G/1200/RE	110 - 277V	22W	Red Enhancement	3600K	>80	280°	A / B / SE	1198mm / 1212mm	2050lm
LED F22T8/925/G/1200/FM	110 - 277V	22W	Fresh Meat	2500K	>90	280°	A / B / SE	1198mm / 1212mm	1550lm
LED F22T8/880/G/1200/WE	110 - 277V	22W	White Enhancement	8000K	>80	280°	A / B / SE	1198mm / 1212mm	2250lm
LED F22T8/627/G/1200/YL	110 - 277V	22W	Yellow	2740K	>60	280°	A / B / SE	1198mm / 1212mm	2400lm
LED F22T8/213/G/1200/AG	110 - 277V	22W	Agricultural (Purple)	1300K	>20	280°	A / B / SE	1198mm / 1212mm	600lm
LED F22T8/210/G/1200/AQ	110 - 277V	22W	Aquarium (Blue + White)	16000-20000K	>20	280°	A / B / SE	1198mm / 1212mm	750lm
LED F24T8/827/G/1500/YE	110 - 277V	24W	Yellow Enhancement	2700K	>80	280°	A / B / SE	1500mm / 1513mm	1950lm
LED F24T8/836/G/1500/RE	110 - 277V	24W	Red Enhancement	3600K	>80	280°	A / B / SE	1500mm / 1513mm	2150lm
LED F24T8/925/G/1500/FM	110 - 277V	24W	Fresh Meat	2500K	>90	280°	A / B / SE	1500mm / 1513mm	1700lm
LED F24T8/880/G/1500/WE	110 - 277V	24W	White Enhancement	8000K	>80	280°	A / B / SE	1500mm / 1513mm	2350lm
LED F24T8/627/G/1500/YL	110 - 277V	24W	Yellow	2740K	>60	280°	A / B / SE	1500mm / 1513mm	2600lm
LED F24T8/213/G/1500/AG	110 - 277V	24W	Agricultural (Purple)	1300K	>20	280°	A / B / SE	1500mm / 1513mm	650lm
LED F24T8/210/G/1500/AQ	110 - 277V	24W	Aquarium (Blue + White)	16000-20000K	>20	280°	A / B / SE	1500mm / 1513mm	820lm



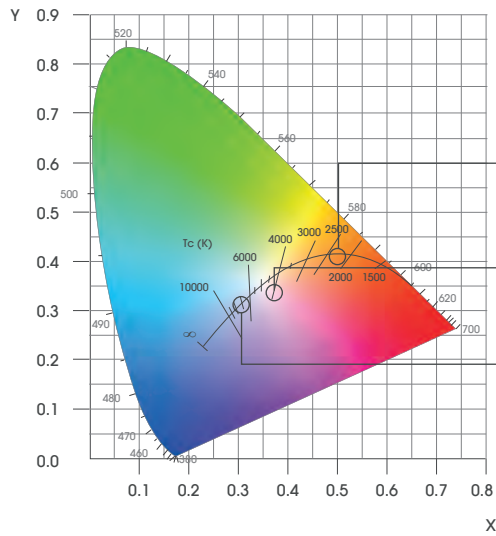
* Comply to EN62776

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



EUROPE

TUBE



Colors of LED Food Display Tube

Yellow Enhancement

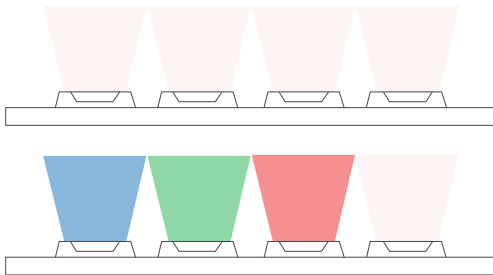
LED F22T8/827/G/1200/YE

Red Enhancement

LED F22T8/836/G/1200/RE

White Enhancement

LED F22T8/880/G/1200/WE



Customization of Special Color Spectrum

We can customize a special color spectrum of LED T8 based on the sample provisions, via the methods below:

1. Special mixed phosphor powder
2. Combination of red, blue, green and white color chips in specific ratio
3. Special color spectra for food display

Yellow Enhancement

Red Enhancement

White Enhancement



Food Display

- To enhance the appearance of fresh food
- Prevent discoloration





Order Code: LED F22T8/827/G/1200/YE

Ref.: Sylvania Food Star Bread

Yellow Enhancement

Bread, Vegetables & Fruits



Order Code: LED F22T8/836/G/1200/RE

Ref.: Osram NATURA 76

Red Enhancement

Meat & Red Fish Meat



Order Code: LED F22T8/880/G/1200/WE

Ref.: Osram LUMILUX SKYWHITE 880

White Enhancement

White Fish Meat



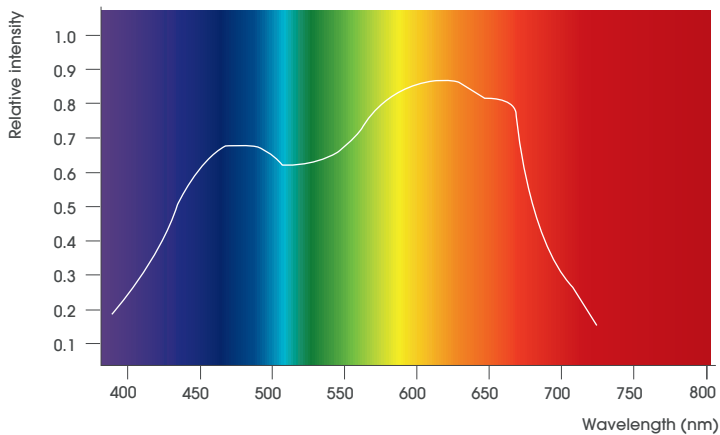
Food	Light Color	LED F22T8/827/G/1200/YE			LED F22T8/836/G/1200/RE			LED F22T8/880/G/1200/WE		
		Yellow Enhancement			Red Enhancement			White Enhancement		
Meat										
Bread										
Vegetables / Fruits										
Fish										



LED T8 Agricultural

- Emits optimal light color to promote plant growth and photosynthesis
- Blue and red light have the greatest impact on plant growth
- Blue light enhances vegetative leaf growth
- Red light enhances flower and fruit growth
- Green light is the least effective

Photosynthetic reaction of plants in different wavelengths of visible light spectrum



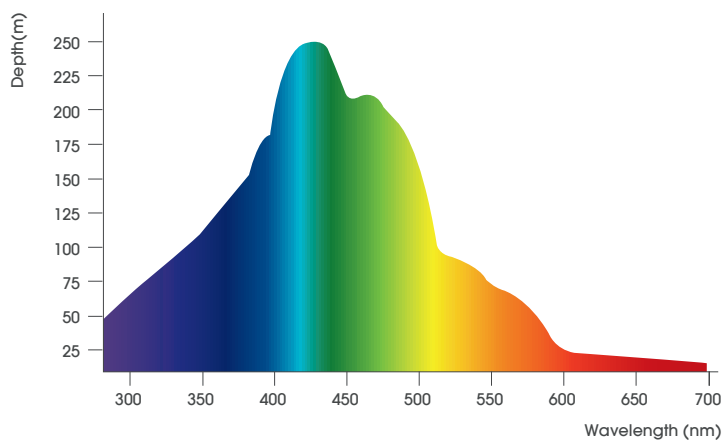
Wavelength	Influence on Plant Growth
Strong UV-C light 200-280nm	Significantly reduces quantum yield and rate of photosynthesis
UV-B light 280-315nm	Results in plant fading
UV-A light 315-380nm	Little effect on plant growth
Start of visible light 380-400nm	Chlorophyll starts absorption
Blue spectrum light 400-520nm	Chlorophyll absorbs strongly in this wavelength, which consists of blue and purple lights. The blue spectrum is effective on photosynthesis, responsible for plant leaf growth
Green spectrum light 520-610nm	Weak light absorption of chlorophyll in this wavelength
Red spectrum light 610-720nm	Optimal light absorption of chlorophyll, increase photosynthesis and encourage flowering and fruit production
Infrared light 720-1000nm	Little light absorption



LED T8 Aquarium

- Positive effects of blue and red color spectra on coral growth
- Blue light keeps coral healthy
- Red light enhances photosynthesis

Light Penetration in Seawater at Different Wavelengths

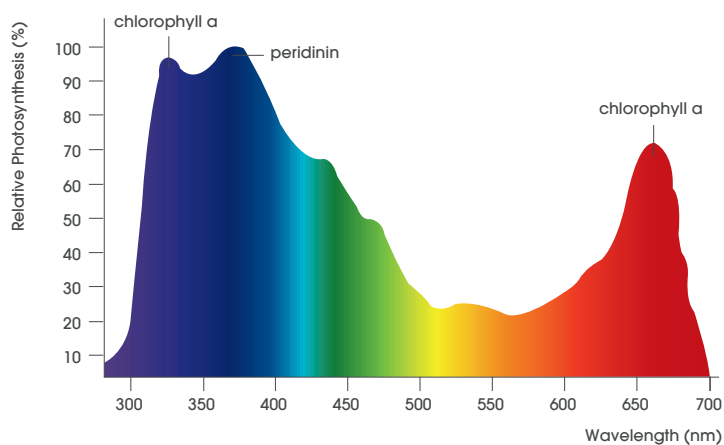


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Coral Photosynthetic Action Spectrum



Wavelength

Influence on Coral Growth

Blue spectrum light
400-500nm

Chlorophyll absorbs strongly in this wavelength. It is the most important spike as blue spectrum light has the best light penetration in water, especially for keeping healthy of the corals which inhabit in relatively deeper aquatic region

Red spectrum light
600-670nm

Strongest light absorption of chlorophyll, helps to enhance the photosynthetic process, but red spectrum light has relatively lower penetration ability in water





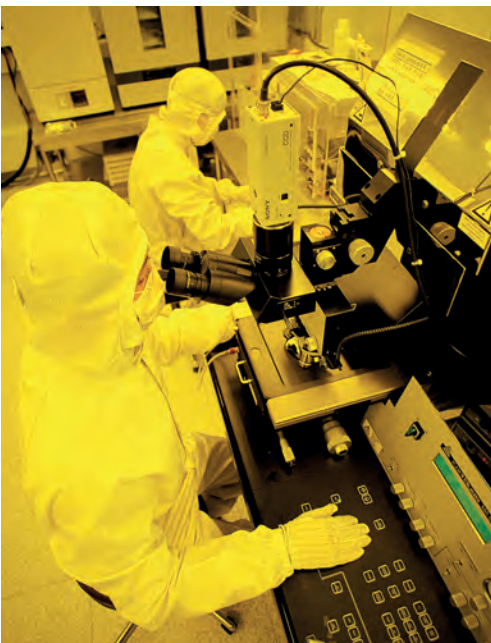
LED T8 Yellow Enhancement

- Protection of blue light sensitive products
- Use in working environment against blue light

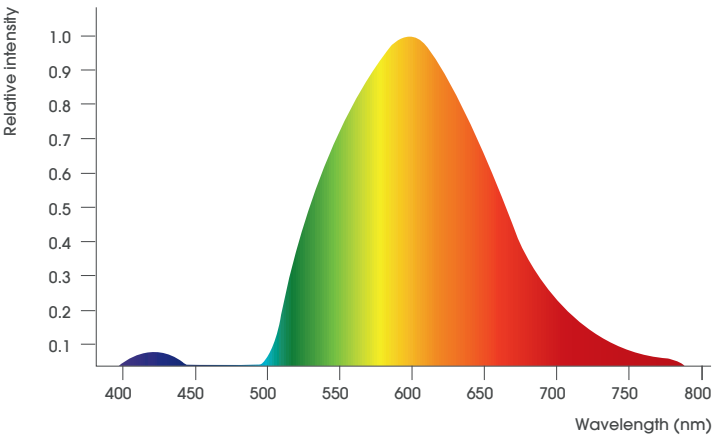
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Light spectrum distribution of Yellow enhancement tube



Wavelength	UV-filter
Yellow spectrum light 550-600nm	Special lighting for lithographic and printing industry Protect products from exposure to blue and UV light

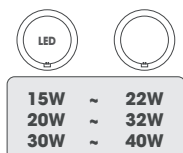




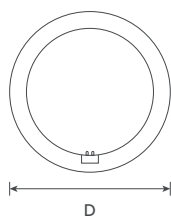
LED T9 Circular AC

Features

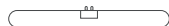
- Energy saving with low power consumption
- For direct connection with AC
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5 / 0.5 / 0.9
- Good color rendition, Ra ≥80



G10q base



D1



(Unit : mm) (D) (D1)

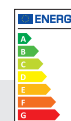
15W	Ø215	x	Ø30
20W	Ø300	x	Ø30
30W	Ø400	x	Ø30



AC Input

EUROPE

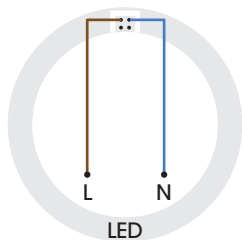
TUBE



Model	Wattage	Color Temp	Beam Angle	Type	Lumen	
LED TP T9C/AC/22-15W/830	15W	3000K	180°	AC	1500lm	F
LED TP T9C/AC/22-15W/840	15W	4000K	180°	AC	1520lm	F
LED TP T9C/AC/22-15W/865	15W	6500K	180°	AC	1540lm	F
LED TP T9C/AC/32-20W/830	20W	3000K	180°	AC	2080lm	F
LED TP T9C/AC/32-20W/840	20W	4000K	180°	AC	2100lm	F
LED TP T9C/AC/32-20W/865	20W	6500K	180°	AC	2120lm	F
LED TP T9C/AC/40-30W/830	30W	3000K	180°	AC	3200lm	F
LED TP T9C/AC/40-30W/840	30W	4000K	180°	AC	3220lm	F
LED TP T9C/AC/40-30W/865	30W	6500K	180°	AC	3240lm	F

AC Input (New Installation)

For direct connection with AC



Direct 220 - 240Vac input. Integral LED driver



CFLni



LED PLS & PLS/E
P. 87 - 88



LED PLD & PLD/E
P. 89 - 90



LED PLT/E
P. 91



LED PLL
P. 92



LED 2D
P. 93 - 94



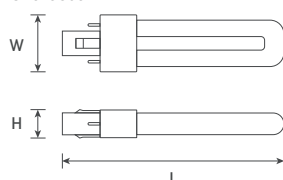
LED PLS AC & CCG

Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent PLS lamps in CCG circuits
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, Ra $\geq$ 80

LED	~	7W
3W	~	9W
4.5W	~	11W
5W	~	

G23 base



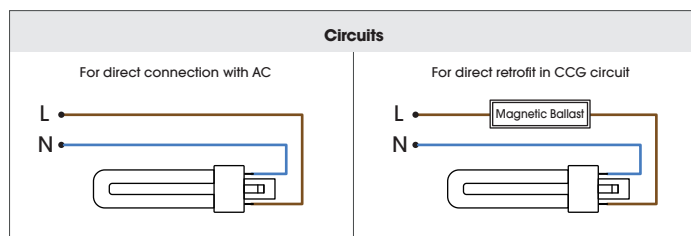
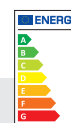
(Unit : mm)	(L)	(W)	(H)
3W	134	x 32	x 21
4.5W	159	x 32	x 21
5W	218	x 32	x 21



EUROPE

CFLni

Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	ENERGY
LED PLS/7-3W/830/G/2P	220 - 240V	3W	G23	3000K	270°	AC / CCG	360lm	E
LED PLS/7-3W/840/G/2P	220 - 240V	3W	G23	4000K	270°	AC / CCG	370lm	E
LED PLS/7-3W/865/G/2P	220 - 240V	3W	G23	6500K	270°	AC / CCG	380lm	E
LED PLS/9-4.5W/830/G/2P	220 - 240V	4.5W	G23	3000K	270°	AC / CCG	560lm	E
LED PLS/9-4.5W/840/G/2P	220 - 240V	4.5W	G23	4000K	270°	AC / CCG	580lm	E
LED PLS/9-4.5W/865/G/2P	220 - 240V	4.5W	G23	6500K	270°	AC / CCG	600lm	E
LED PLS/11-5W/830/G/2P	220 - 240V	5W	G23	3000K	270°	AC / CCG	680lm	D
LED PLS/11-5W/840/G/2P	220 - 240V	5W	G23	4000K	270°	AC / CCG	700lm	D
LED PLS/11-5W/865/G/2P	220 - 240V	5W	G23	6500K	270°	AC / CCG	720lm	D



Direct 220 - 240V AC input. Integral LED driver



LED PLS/E AC

Features

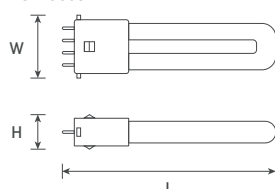
- Energy saving with low power consumption
- LED PLS/E 4PIN is not suitable for ECG Circuit. The ECG should be bypassed for AC connection
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, Ra ≥80

EUROPE

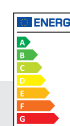
CFLni

LED	~	7W
3W	~	9W
4.5W	~	11W
5W	~	

2G7 base

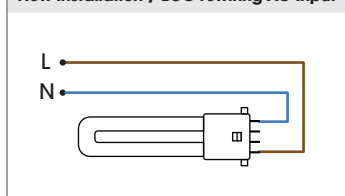


(Unit : mm)	(L)	(W)	(H)
3W	121	x 37	x 21
4.5W	146	x 37	x 21
5W	205	x 37	x 21



Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	
LED PLSE/7-3W/AC/830/G/4P	220 - 240V	3W	2G7	3000K	270°	AC	360lm	E
LED PLSE/7-3W/AC/840/G/4P	220 - 240V	3W	2G7	4000K	270°	AC	370lm	E
LED PLSE/7-3W/AC/865/G/4P	220 - 240V	3W	2G7	6500K	270°	AC	380lm	E
LED PLSE/9-4.5W/AC/830/G/4P	220 - 240V	4.5W	2G7	3000K	270°	AC	560lm	E
LED PLSE/9-4.5W/AC/840/G/4P	220 - 240V	4.5W	2G7	4000K	270°	AC	580lm	E
LED PLSE/9-4.5W/AC/865/G/4P	220 - 240V	4.5W	2G7	6500K	270°	AC	600lm	E
LED PLSE/11-5W/AC/830/G/4P	220 - 240V	5W	2G7	3000K	270°	AC	680lm	D
LED PLSE/11-5W/AC/840/G/4P	220 - 240V	5W	2G7	4000K	270°	AC	700lm	D
LED PLSE/11-5W/AC/865/G/4P	220 - 240V	5W	2G7	6500K	270°	AC	720lm	D

New installation / ECG rewiring AC Input



Direct 220 - 240V AC input. Integral LED driver
This LED PLS/E is not suitable for ECG Circuit. Please bypass the ECG for AC connection



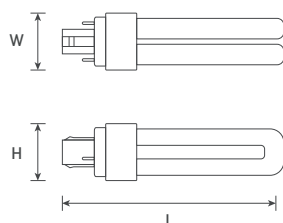
LED PLD AC & CCG

Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent PLD lamps in CCG circuits
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, $R_a \geq 80$

LED		
4.5W	~	10W
5W	~	13W
6W	~	18W
9W	~	26W

G24d base



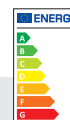
(Unit : mm)	(L)	(W)	(H)
4.5W	109	x 35	x 35
5W	143	x 35	x 35
6W	143	x 35	x 35
9W	168	x 35	x 35



- AC Input
- CCG Circuit

EUROPE

CFLni



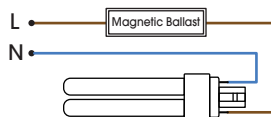
Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	ENERGY STAR
LED PLD/10-4.5W/830/G/2P	220 - 240V	4.5W	G24d	3000K	360°	AC / CCG	580lm	E
LED PLD/10-4.5W/840/G/2P	220 - 240V	4.5W	G24d	4000K	360°	AC / CCG	605lm	E
LED PLD/10-4.5W/865/G/2P	220 - 240V	4.5W	G24d	6500K	360°	AC / CCG	630lm	D
LED PLD/13-5W/830/G/2P	220 - 240V	5W	G24d	3000K	360°	AC / CCG	680lm	D
LED PLD/13-5W/840/G/2P	220 - 240V	5W	G24d	4000K	360°	AC / CCG	705lm	D
LED PLD/13-5W/865/G/2P	220 - 240V	5W	G24d	6500K	360°	AC / CCG	730lm	D
LED PLD/18-6W/830/G/2P	220 - 240V	6W	G24d	3000K	360°	AC / CCG	800lm	E
LED PLD/18-6W/840/G/2P	220 - 240V	6W	G24d	4000K	360°	AC / CCG	835lm	D
LED PLD/18-6W/865/G/2P	220 - 240V	6W	G24d	6500K	360°	AC / CCG	870lm	D
LED PLD/26-9W/830/G/2P	220 - 240V	9W	G24d	3000K	360°	AC / CCG	1250lm	D
LED PLD/26-9W/840/G/2P	220 - 240V	9W	G24d	4000K	360°	AC / CCG	1300lm	D
LED PLD/26-9W/865/G/2P	220 - 240V	9W	G24d	6500K	360°	AC / CCG	1350lm	D

Circuits

For direct connection with AC



For direct retrofit in CCG circuit



Direct 220 - 240V AC input. Integral LED driver



LED PLD/E AC

Features

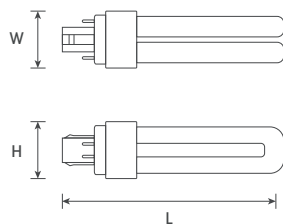
- Energy saving with low power consumption
- LED PLD/E 4PIN is not suitable for ECG Circuit. The ECG should be bypassed for AC connection
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, Ra ≥80

EUROPE

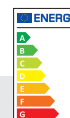
CFLni

LED	~	10W
4.5W	~	13W
5W	~	18W
6W	~	26W
9W	~	

G24q base

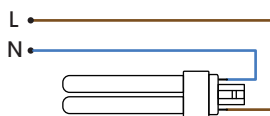


(Unit : mm)	(L)	(W)	(H)
4.5W	109	x 35	x 35
5W	143	x 35	x 35
6W	143	x 35	x 35
9W	168	x 35	x 35



Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	ENERGY STAR
LED PLDE/10-4.5W/830/G/4P	220 - 240V	4.5W	G24q	3000K	360°	AC	580lm	E
LED PLDE/10-4.5W/840/G/4P	220 - 240V	4.5W	G24q	4000K	360°	AC	605lm	E
LED PLDE/10-4.5W/865/G/4P	220 - 240V	4.5W	G24q	6500K	360°	AC	630lm	D
LED PLDE/13-5W/830/G/4P	220 - 240V	5W	G24q	3000K	360°	AC	680lm	D
LED PLDE/13-5W/840/G/4P	220 - 240V	5W	G24q	4000K	360°	AC	705lm	D
LED PLDE/13-5W/865/G/4P	220 - 240V	5W	G24q	6500K	360°	AC	730lm	D
LED PLDE/18-6W/AC/830/G/4P	220 - 240V	6W	G24q	3000K	360°	AC	800lm	E
LED PLDE/18-6W/AC/840/G/4P	220 - 240V	6W	G24q	4000K	360°	AC	835lm	D
LED PLDE/18-6W/AC/865/G/4P	220 - 240V	6W	G24q	6500K	360°	AC	870lm	D
LED PLDE/26-9W/AC/830/G/4P	220 - 240V	9W	G24q	3000K	360°	AC	1250lm	D
LED PLDE/26-9W/AC/840/G/4P	220 - 240V	9W	G24q	4000K	360°	AC	1300lm	D
LED PLDE/26-9W/AC/865/G/4P	220 - 240V	9W	G24q	6500K	360°	AC	1350lm	D

New installation / ECG rewiring AC Input



Direct 220 - 240V AC input. Integral LED driver
This LED PLD/E is not suitable for ECG Circuit. Please bypass the ECG for AC connection

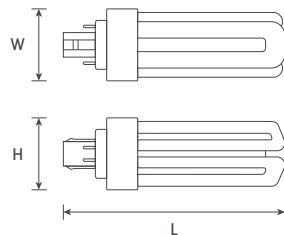
LED PLT/E AC

Features

- Energy saving with low power consumption
- LED PLT/E 4PIN is not suitable for ECG Circuit. The ECG should be bypassed for AC connection
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, Ra ≥80

	
10W	~ 32W
13W	~ 42W

GX24q base



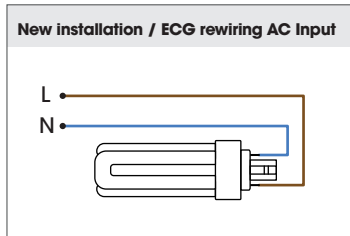
(Unit : mm)	(L)	(W)	(H)
10W	140	x 49	x 45
13W	165	x 49	x 45



AC Input

EUROPE
CFLni

Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	ENERGY STAR
LED PLTE/32-10W/AC/830/G/4P	220 - 240V	10W	GX24q	3000K	360°	AC	1300lm	E
LED PLTE/32-10W/AC/840/G/4P	220 - 240V	10W	GX24q	4000K	360°	AC	1350lm	D
LED PLTE/32-10W/AC/865/G/4P	220 - 240V	10W	GX24q	6500K	360°	AC	1400lm	D
LED PLTE/42-13W/AC/830/G/4P	220 - 240V	13W	GX24q	3000K	360°	AC	1760lm	D
LED PLTE/42-13W/AC/840/G/4P	220 - 240V	13W	GX24q	4000K	360°	AC	1805lm	D
LED PLTE/42-13W/AC/865/G/4P	220 - 240V	13W	GX24q	6500K	360°	AC	1850lm	D



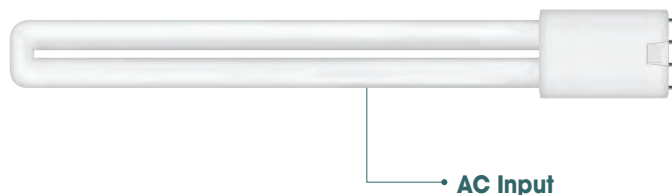
Direct 220 - 240V AC input. Integral LED driver
This LED PLT/E is not suitable for ECG Circuit. Please bypass the ECG for AC connection



LED PLL AC

Features

- Energy saving with low power consumption
- LED PLL is not suitable for ECG Circuit. The ECG should be bypassed for AC connection
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.5
- Good color rendition, Ra ≥80



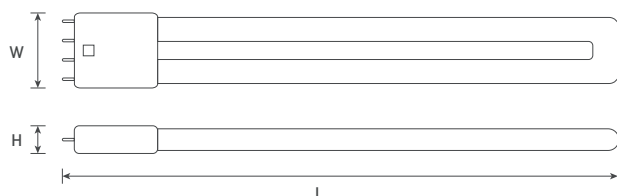
EUROPE



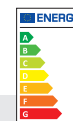
CFLni

8W	~	18W
12W	~	24W
18W	~	36W
20W	~	40W
24W	~	55W

2G11 base



(Unit : mm)	(L)	(W)	(H)
8W	230	x 44	x 24
12W	320	x 44	x 24
18W	410	x 44	x 24
20W	530	x 44	x 24
24W	530	x 44	x 24



Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	
LED PLL/18-8W/AC/830/G	220 - 240V	8W	2G11	3000K	270°	AC	950lm	E
LED PLL/18-8W/AC/840/G	220 - 240V	8W	2G11	4000K	270°	AC	975lm	E
LED PLL/18-8W/AC/865/G	220 - 240V	8W	2G11	6500K	270°	AC	1000lm	E
LED PLL/24-12W/AC/830/G	220 - 240V	12W	2G11	3000K	270°	AC	1450lm	E
LED PLL/24-12W/AC/840/G	220 - 240V	12W	2G11	4000K	270°	AC	1475lm	E
LED PLL/24-12W/AC/865/G	220 - 240V	12W	2G11	6500K	270°	AC	1500lm	E
LED PLL/36-18W/AC/830/G	220 - 240V	18W	2G11	3000K	270°	AC	2200lm	E
LED PLL/36-18W/AC/840/G	220 - 240V	18W	2G11	4000K	270°	AC	2250lm	E
LED PLL/36-18W/AC/865/G	220 - 240V	18W	2G11	6500K	270°	AC	2300lm	E
LED PLL/40-20W/AC/830/G	220 - 240V	20W	2G11	3000K	270°	AC	2450lm	E
LED PLL/40-20W/AC/840/G	220 - 240V	20W	2G11	4000K	270°	AC	2500lm	E
LED PLL/40-20W/AC/865/G	220 - 240V	20W	2G11	6500K	270°	AC	2550lm	E
LED PLL/55-24W/AC/830/G	220 - 240V	24W	2G11	3000K	270°	AC	3100lm	E
LED PLL/55-24W/AC/840/G	220 - 240V	24W	2G11	4000K	270°	AC	3200lm	E
LED PLL/55-24W/AC/865/G	220 - 240V	24W	2G11	6500K	270°	AC	3300lm	D

New installation / ECG rewiring AC Input



Direct 220 - 240V AC input. Integral LED driver

This LED PLL is not suitable for ECG Circuit. Please bypass the ECG for AC connection

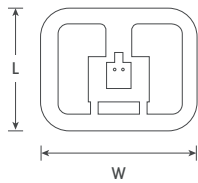
LED 2D 2PIN

Features

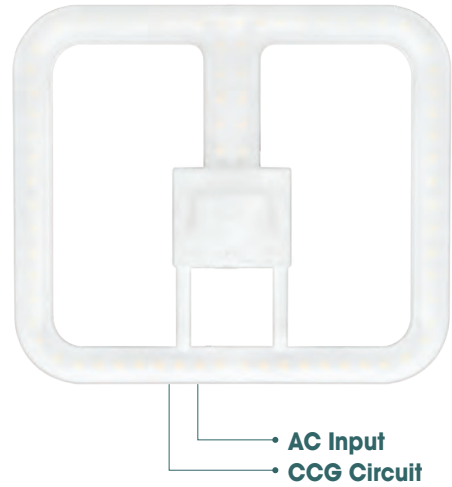
- Energy saving with low power consumption
- Perfect retrofit fluorescent 2D lamps in CCG circuits
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥80

8W	~	16W
12W	~	28W
16W	~	38W

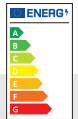
GR8 base



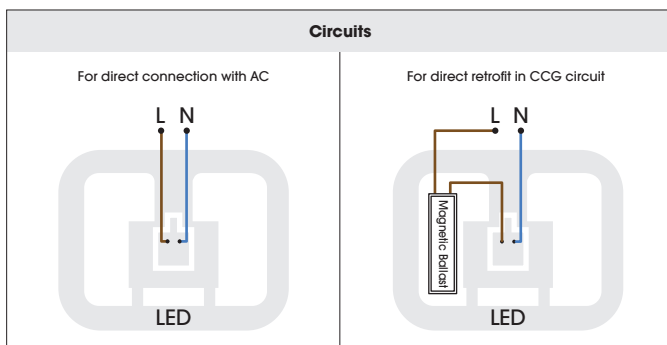
(Unit : mm)	(L)	(W)	(H)
8W	128 x	150 x	24
12W	182 x	211 x	24
16W	182 x	211 x	24



EUROPE
CFLni



Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	ENERGY STAR
LED TP 2D/16-8W/827/2P	220 - 240V	8W	GR8	2700K	140°	AC / CCG	825lm	F
LED TP 2D/16-8W/830/2P	220 - 240V	8W	GR8	3000K	140°	AC / CCG	840lm	F
LED TP 2D/16-8W/835/2P	220 - 240V	8W	GR8	3500K	140°	AC / CCG	840lm	F
LED TP 2D/16-8W/840/2P	220 - 240V	8W	GR8	4000K	140°	AC / CCG	860lm	F
LED TP 2D/16-8W/865/2P	220 - 240V	8W	GR8	6500K	140°	AC / CCG	880lm	E
LED TP 2D/28-12W/827/2P	220 - 240V	12W	GR8	2700K	140°	AC / CCG	1235lm	F
LED TP 2D/28-12W/830/2P	220 - 240V	12W	GR8	3000K	140°	AC / CCG	1260lm	F
LED TP 2D/28-12W/835/2P	220 - 240V	12W	GR8	3500K	140°	AC / CCG	1260lm	F
LED TP 2D/28-12W/840/2P	220 - 240V	12W	GR8	4000K	140°	AC / CCG	1300lm	F
LED TP 2D/28-12W/865/2P	220 - 240V	12W	GR8	6500K	140°	AC / CCG	1320lm	E
LED TP 2D/38-16W/827/2P	220 - 240V	16W	GR8	2700K	140°	AC / CCG	1650lm	F
LED TP 2D/38-16W/830/2P	220 - 240V	16W	GR8	3000K	140°	AC / CCG	1680lm	F
LED TP 2D/38-16W/835/2P	220 - 240V	16W	GR8	3500K	140°	AC / CCG	1680lm	F
LED TP 2D/38-16W/840/2P	220 - 240V	16W	GR8	4000K	140°	AC / CCG	1730lm	F
LED TP 2D/38-16W/865/2P	220 - 240V	16W	GR8	6500K	140°	AC / CCG	1800lm	E



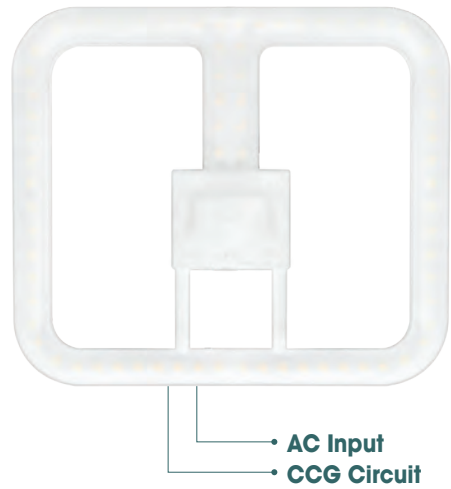
Direct 220 - 240Vac input. Integral LED driver

LED 2D 4PIN

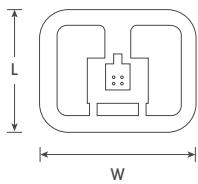
Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent 2D lamps in CCG circuits
- LED 2D 4PIN is not suitable for ECG Circuit. The ECG should be bypassed for AC connection
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥80

	~	
8W	~	16W
12W	~	28W
16W	~	38W

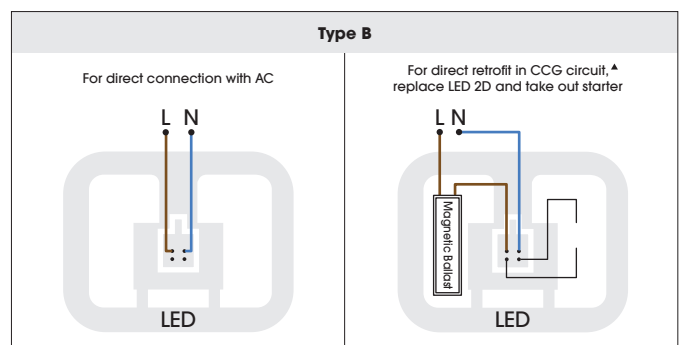
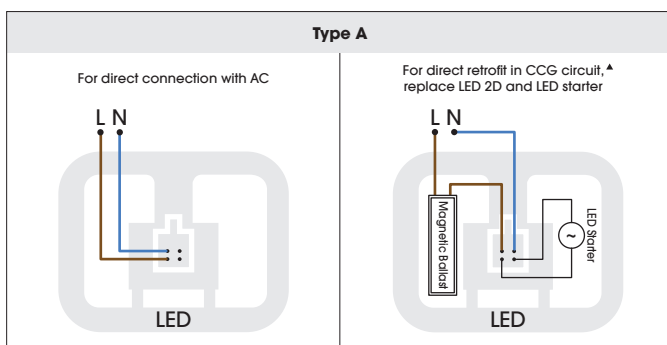


GR10q base



(Unit : mm)	(L)	(W)	(H)
8W	128	x 150	x 24
12W	182	x 211	x 24
16W	182	x 211	x 24

Model	Voltage	Wattage	Base	Color Temp	Beam Angle	Type	Lumen	ENERGY
LED TP 2D/16-8W/827/4P	220 - 240V	8W	GR10q	2700K	140°	A / B	825lm	F
LED TP 2D/16-8W/830/4P	220 - 240V	8W	GR10q	3000K	140°	A / B	840lm	F
LED TP 2D/16-8W/835/4P	220 - 240V	8W	GR10q	3500K	140°	A / B	840lm	F
LED TP 2D/16-8W/840/4P	220 - 240V	8W	GR10q	4000K	140°	A / B	860lm	F
LED TP 2D/16-8W/865/4P	220 - 240V	8W	GR10q	6500K	140°	A / B	880lm	E
LED TP 2D/28-12W/827/4P	220 - 240V	12W	GR10q	2700K	140°	A / B	1235lm	F
LED TP 2D/28-12W/830/4P	220 - 240V	12W	GR10q	3000K	140°	A / B	1260lm	F
LED TP 2D/28-12W/835/4P	220 - 240V	12W	GR10q	3500K	140°	A / B	1260lm	F
LED TP 2D/28-12W/840/4P	220 - 240V	12W	GR10q	4000K	140°	A / B	1300lm	F
LED TP 2D/28-12W/865/4P	220 - 240V	12W	GR10q	6500K	140°	A / B	1320lm	E
LED TP 2D/38-16W/827/4P	220 - 240V	16W	GR10q	2700K	140°	A / B	1650lm	F
LED TP 2D/38-16W/830/4P	220 - 240V	16W	GR10q	3000K	140°	A / B	1680lm	F
LED TP 2D/38-16W/835/4P	220 - 240V	16W	GR10q	3500K	140°	A / B	1680lm	F
LED TP 2D/38-16W/840/4P	220 - 240V	16W	GR10q	4000K	140°	A / B	1730lm	F
LED TP 2D/38-16W/865/4P	220 - 240V	16W	GR10q	6500K	140°	A / B	1800lm	E



Direct 220 - 240Vac input. Integral LED driver

▲ This LED 2D 4PIN is not suitable for ECG Circuit. Please bypass the ECG for AC connection



INDOOR LUMINAIRE



LED BATTEN
P. 96



LED SPOTLIGHT
P. 97 - 98



LED DOWNLIGHT
P. 99 - 115



LED CEILING LIGHT
P. 116 - 120



LED PANEL
P. 121 - 122



LED TRACKLIGHT
P. 123 - 124



LED HIGHBAY
P. 125 - 128



LED Seamless T5 Batten

Features

- Energy saving with low power consumption
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Seamless design
- Good color rendition, Ra ≥80

Materials / Finish

- Body: White PC
- Diffuser: Opal
- End Cap: Plastic

Installation / Mounting

- Quick installation with two mounting clips
- Linear plug and play connection at both ends

Standards

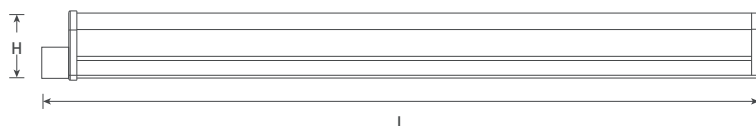
- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20



Seamless design

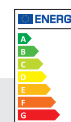
Optional Switch

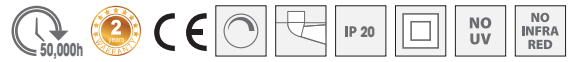
Accessories



(Unit : mm)	(L)	(W)	(H)	Max. no. of luminaires interconnected
NL191A	308 x	22.5 x	36	30
NL192A	582 x	22.5 x	36	15
NL193A	882 x	22.5 x	36	10
NL194A	1182 x	22.5 x	36	8

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NL191A-5W/830	220 - 240V	5W	3000K	130°	430lm	F
NL191A-5W/840	220 - 240V	5W	4000K	130°	460lm	F
NL191A-5W/865	220 - 240V	5W	6500K	130°	500lm	F
NL192A-9W/830	220 - 240V	9W	3000K	130°	800lm	F
NL192A-9W/840	220 - 240V	9W	4000K	130°	850lm	F
NL192A-9W/865	220 - 240V	9W	6500K	130°	900lm	F
NL193A-14W/830	220 - 240V	14W	3000K	130°	1400lm	F
NL193A-14W/840	220 - 240V	14W	4000K	130°	1450lm	F
NL193A-14W/865	220 - 240V	14W	6500K	130°	1500lm	F
NL194A-18W/830	220 - 240V	18W	3000K	130°	1800lm	F
NL194A-18W/840	220 - 240V	18W	4000K	130°	1850lm	F
NL194A-18W/865	220 - 240V	18W	6500K	130°	1900lm	F





LED Spotlight NS161E - NS162E

Features

- 30W / 40W LED Spotlight
- Adjustable tilting angle of 0°-60° vertically and 350° horizontally
- Ideal replacement for HID lighting fixtures up to 70W
- Dimmable as option
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium
- Reflector: Anodised faceted aluminium
- Diffuser: Toughened glass

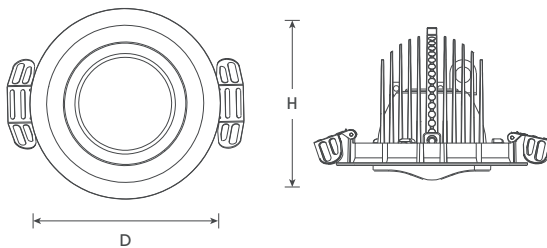
Installation / Mounting

- Quick recessed installation with two spring clips
- Suitable for ceiling thickness between 5 and 15mm
- Remote gear unit allows flexible and easy installation
- Cut out dimensions Ø142mm / Ø175mm

Standards

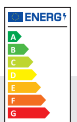
- Designed and manufactured to comply international standard EN60598
- Class II Electrical
- IP 20

Dimming Options



(Unit : mm)	(D)	(H)	Cut Out Dimensions
NS161E	Ø152 x	122	Ø142
NS162E	Ø186 x	151	Ø175

Model	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
NS161E-30W/830	30W	C.C. 700mA	3000K	24° / 40° / 60°	2520lm	F
NS161E-30W/840	30W	C.C. 700mA	4000K	24° / 40° / 60°	2620lm	F
NS161E-30W/865	30W	C.C. 700mA	6500K	24° / 40° / 60°	2715lm	F
NS162E-40W/830	40W	C.C. 900mA	3000K	24° / 40° / 60°	3400lm	F
NS162E-40W/840	40W	C.C. 900mA	4000K	24° / 40° / 60°	3500lm	F
NS162E-40W/865	40W	C.C. 900mA	6500K	24° / 40° / 60°	3600lm	F



EUROPE



INDOOR LUMINAIRE



LED Spotlight NS171E - NS172E

Features

- 40W / 55W LED Spotlight
- Adjustable tilting angle of 0°-80° vertically and 350° horizontally
- Ideal replacement for HID lighting fixtures up to 70W
- Dimmable as option
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium
- Reflector: Anodised faceted aluminium
- Diffuser: Toughened glass

Installation / Mounting

- Quick recessed installation with two spring clips
- Suitable for ceiling thickness between 5 and 15mm
- Remote gear unit allows flexible and easy installation
- Cut out dimensions 225x135mm

Standards

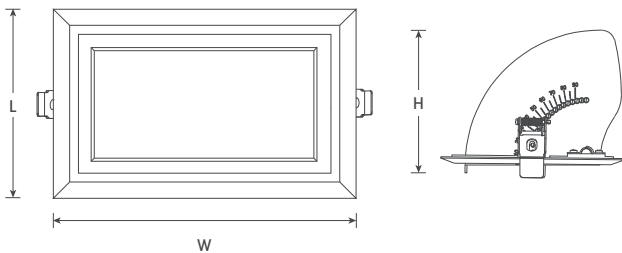
- Designed and manufactured to comply international standard EN60598
- Class II Electrical
- IP 20



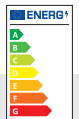
NS171E



NS172E



(Unit : mm)	(L)	(W)	(H)	Cut Out Dimensions
NS171E	150	x 240	x 107	225 x 135
NS172E	150	x 240	x 107	225 x 135



Model	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	
NS171E-40W/830	40W	C.C. 900mA	3000K	60°	3685lm	F
NS171E-40W/840	40W	C.C. 900mA	4000K	60°	3785lm	F
NS171E-40W/865	40W	C.C. 900mA	6500K	60°	3880lm	F
NS172E-55W/830	55W	C.C. 1300mA	3000K	60°	5725lm	E
NS172E-55W/840	55W	C.C. 1300mA	4000K	60°	5820lm	E
NS172E-55W/865	55W	C.C. 1300mA	6500K	60°	5920lm	E



LED Downlight ND381E - ND386E

Features

- 3W / 6W / 9W / 12W / 18W / 24W LED Downlight
- Recessed square, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Low profile and slim (only 21-28mm deep), suitable for shallow ceiling void
- Integral driver
- Good color rendition, Ra ≥80

Materials / Finish

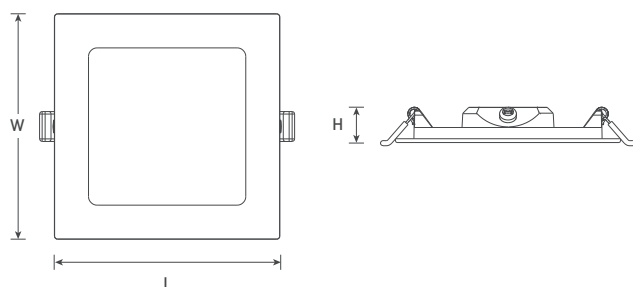
- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected

Installation / Mounting

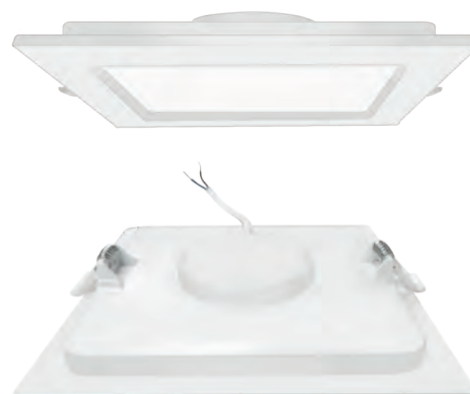
- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions 75x75mm / 115x115mm / 130x130mm / 155x155mm / 185x185mm / 250x250mm

Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20



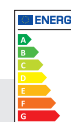
(Unit : mm)	(L)		(W)		(H)	Cut Out Dimensions
ND381E	90	x	90	x	21	75 x 75
ND382E	128	x	128	x	23	115 x 115
ND383E	147	x	147	x	23	130 x 130
ND384E	170	x	170	x	23	155 x 155
ND385E	202	x	202	x	23	185 x 185
ND386E	270	x	270	x	28	250 x 250



EUROPE



INDOOR LUMINAIRE



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND381E-3W/830	220 - 240V	3W	3000K	120°	150lm	G
ND381E-3W/840	220 - 240V	3W	4000K	120°	160lm	G
ND381E-3W/865	220 - 240V	3W	6500K	120°	170lm	G
ND382E-6W/830	220 - 240V	6W	3000K	120°	430lm	G
ND382E-6W/840	220 - 240V	6W	4000K	120°	450lm	F
ND382E-6W/865	220 - 240V	6W	6500K	120°	475lm	F
ND383E-9W/830	220 - 240V	9W	3000K	120°	760lm	F
ND383E-9W/840	220 - 240V	9W	4000K	120°	780lm	F
ND383E-9W/865	220 - 240V	9W	6500K	120°	810lm	F
ND384E-12W/830	220 - 240V	12W	3000K	120°	950lm	F
ND384E-12W/840	220 - 240V	12W	4000K	120°	1045lm	F
ND384E-12W/865	220 - 240V	12W	6500K	120°	1140lm	E
ND385E-18W/830	220 - 240V	18W	3000K	120°	1660lm	F
ND385E-18W/840	220 - 240V	18W	4000K	120°	1710lm	E
ND385E-18W/865	220 - 240V	18W	6500K	120°	1760lm	E
ND386E-24W/830	220 - 240V	24W	3000K	120°	2185lm	F
ND386E-24W/840	220 - 240V	24W	4000K	120°	2280lm	E
ND386E-24W/865	220 - 240V	24W	6500K	120°	2375lm	E



LED Downlight ND391E - ND397E

Features

- 3W / 6W / 9W / 12W / 16W / 18W / 24W LED Downlight
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Low profile and slim (only 23-24mm deep), suitable for shallow ceiling void
- Integral driver
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected

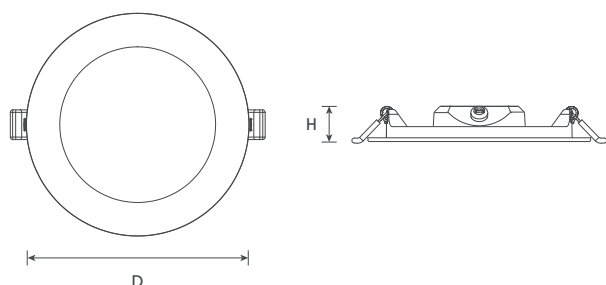
Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions Ø75mm / Ø115mm / Ø130mm / Ø155mm / Ø185mm / Ø210mm / Ø280mm

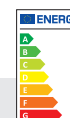


Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND391E	Ø85	x 23	Ø75
ND392E	Ø128	x 23	Ø115
ND393E	Ø146	x 23	Ø130
ND394E	Ø170	x 23	Ø155
ND395E	Ø198	x 23	Ø185
ND396E	Ø229	x 23	Ø210
ND397E	Ø298	x 24	Ø280



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	Energy Class
ND391E-3W/830	220 - 240V	3W	3000K	120°	150lm	G
ND391E-3W/840	220 - 240V	3W	4000K	120°	160lm	G
ND391E-3W/865	220 - 240V	3W	6500K	120°	170lm	G
ND392E-6W/830	220 - 240V	6W	3000K	120°	430lm	G
ND392E-6W/840	220 - 240V	6W	4000K	120°	450lm	F
ND392E-6W/865	220 - 240V	6W	6500K	120°	475lm	F
ND393E-9W/830	220 - 240V	9W	3000K	120°	760lm	F
ND393E-9W/840	220 - 240V	9W	4000K	120°	780lm	F
ND393E-9W/865	220 - 240V	9W	6500K	120°	810lm	F
ND394E-12W/830	220 - 240V	12W	3000K	120°	950lm	F
ND394E-12W/840	220 - 240V	12W	4000K	120°	1045lm	F
ND394E-12W/865	220 - 240V	12W	6500K	120°	1140lm	E
ND395E-16W/830	220 - 240V	16W	3000K	120°	1330lm	F
ND395E-16W/840	220 - 240V	16W	4000K	120°	1425lm	F
ND395E-16W/865	220 - 240V	16W	6500K	120°	1520lm	E
ND396E-18W/830	220 - 240V	18W	3000K	120°	1660lm	F
ND396E-18W/840	220 - 240V	18W	4000K	120°	1710lm	E
ND396E-18W/865	220 - 240V	18W	6500K	120°	1760lm	E
ND397E-24W/830	220 - 240V	24W	3000K	120°	2185lm	F
ND397E-24W/840	220 - 240V	24W	4000K	120°	2280lm	E
ND397E-24W/865	220 - 240V	24W	6500K	120°	2375lm	E





LED Downlight ND421E - ND426E

Features

- 6W / 9W / 12W / 15W / 18W / 24W LED Downlight
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Low profile and slim (only 17mm deep), suitable for shallow ceiling void
- Good color rendition, Ra ≥80

Materials / Finish

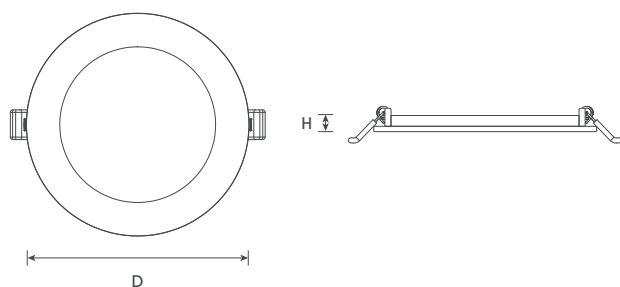
- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PS, UV protected

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mounting
- Remote gear unit allows flexible and easy installation
- Cut out dimensions Ø115mm / Ø135mm / Ø165mm / Ø185mm / Ø215mm / Ø290mm

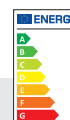
Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND421E	Ø120	x 17	Ø115
ND422E	Ø145	x 17	Ø135
ND423E	Ø170	x 17	Ø165
ND424E	Ø190	x 17	Ø185
ND425E	Ø225	x 17	Ø215
ND426E	Ø300	x 17	Ø290

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND421E-6W/830	220 - 240V	6W	3000K	110°	435lm	F
ND421E-6W/840	220 - 240V	6W	4000K	110°	455lm	F
ND421E-6W/865	220 - 240V	6W	6500K	110°	465lm	F
ND422E-9W/830	220 - 240V	9W	3000K	110°	710lm	F
ND422E-9W/840	220 - 240V	9W	4000K	110°	770lm	F
ND422E-9W/865	220 - 240V	9W	6500K	110°	825lm	F
ND423E-12W/830	220 - 240V	12W	3000K	110°	1045lm	F
ND423E-12W/840	220 - 240V	12W	4000K	110°	1140lm	E
ND423E-12W/865	220 - 240V	12W	6500K	110°	1235lm	E
ND424E-15W/830	220 - 240V	15W	3000K	110°	1330lm	F
ND424E-15W/840	220 - 240V	15W	4000K	110°	1425lm	E
ND424E-15W/865	220 - 240V	15W	6500K	110°	1520lm	E
ND425E-18W/830	220 - 240V	18W	3000K	110°	1615lm	F
ND425E-18W/840	220 - 240V	18W	4000K	110°	1710lm	E
ND425E-18W/865	220 - 240V	18W	6500K	110°	1805lm	E
ND426E-24W/830	220 - 240V	24W	3000K	110°	2185lm	F
ND426E-24W/840	220 - 240V	24W	4000K	110°	2280lm	E
ND426E-24W/865	220 - 240V	24W	6500K	110°	2375lm	E





LED Downlight ND401E - ND406E

Features

- 4W / 6W / 9W / 12W / 18W / 24W LED Downlight
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Low profile and slim (only 26-30mm deep), suitable for shallow ceiling void
- Integral driver
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Thermoplastic polypropylene (PP)
- Trim: Thermoplastic polypropylene (PP)
- Diffuser: Frosted PS, UV protected

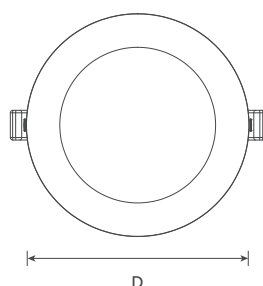
Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions Ø78mm / Ø100mm / Ø125mm / Ø155mm / Ø190mm / Ø270mm



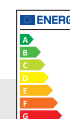
Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND401E	Ø98	x 26	Ø78
ND402E	Ø118	x 26	Ø100
ND403E	Ø144	x 26	Ø125
ND404E	Ø177	x 26	Ø155
ND405E	Ø219	x 30	Ø190
ND406E	Ø299	x 30	Ø270

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND401E-4W/830	220 - 240V	4W	3000K	120°	305lm	F
ND401E-4W/840	220 - 240V	4W	4000K	120°	310lm	F
ND401E-4W/865	220 - 240V	4W	6500K	120°	315lm	F
ND402E-6W/830	220 - 240V	6W	3000K	120°	455lm	F
ND402E-6W/840	220 - 240V	6W	4000K	120°	465lm	F
ND402E-6W/865	220 - 240V	6W	6500K	120°	475lm	F
ND403E-9W/830	220 - 240V	9W	3000K	120°	685lm	F
ND403E-9W/840	220 - 240V	9W	4000K	120°	695lm	F
ND403E-9W/865	220 - 240V	9W	6500K	120°	705lm	F
ND404E-12W/830	220 - 240V	12W	3000K	120°	915lm	F
ND404E-12W/840	220 - 240V	12W	4000K	120°	980lm	F
ND404E-12W/865	220 - 240V	12W	6500K	120°	1045lm	F
ND405E-18W/830	220 - 240V	18W	3000K	120°	1370lm	F
ND405E-18W/840	220 - 240V	18W	4000K	120°	1420lm	F
ND405E-18W/865	220 - 240V	18W	6500K	120°	1465lm	F
ND406E-24W/830	220 - 240V	24W	3000K	120°	1825lm	F
ND406E-24W/840	220 - 240V	24W	4000K	120°	1865lm	F
ND406E-24W/865	220 - 240V	24W	6500K	120°	1900lm	F





LED Downlight ND412E - ND416E

Features

- 6W / 9W / 12W / 18W / 24W LED Downlight
- Recessed square, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Low profile and slim (only 26-30mm deep), suitable for shallow ceiling void
- Integral driver
- Good color rendition, Ra ≥80

Materials / Finish

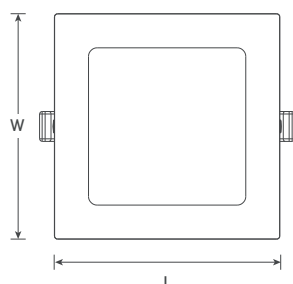
- Body: Thermoplastic polypropylene (PP)
- Trim: Thermoplastic polypropylene (PP)
- Diffuser: Frosted PS, UV protected

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions 100x100mm / 115x115mm / 145x145mm / 195x195mm / 265x265mm

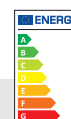
Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20



(Unit : mm)	(L)	(W)	(H)	Cut Out Dimensions
ND412E	118	x 118	x 26	100 x 100
ND413E	144	x 144	x 26	115 x 115
ND414E	177	x 177	x 26	145 x 145
ND415E	219	x 219	x 30	195 x 195
ND416E	299	x 299	x 30	265 x 265

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND412E-6W/830	220 - 240V	6W	3000K	120°	455lm	F
ND412E-6W/840	220 - 240V	6W	4000K	120°	465lm	F
ND412E-6W/865	220 - 240V	6W	6500K	120°	475lm	F
ND413E-9W/830	220 - 240V	9W	3000K	120°	685lm	F
ND413E-9W/840	220 - 240V	9W	4000K	120°	695lm	F
ND413E-9W/865	220 - 240V	9W	6500K	120°	705lm	F
ND414E-12W/830	220 - 240V	12W	3000K	120°	915lm	F
ND414E-12W/840	220 - 240V	12W	4000K	120°	980lm	F
ND414E-12W/865	220 - 240V	12W	6500K	120°	1045lm	F
ND415E-18W/830	220 - 240V	18W	3000K	120°	1370lm	F
ND415E-18W/840	220 - 240V	18W	4000K	120°	1420lm	F
ND415E-18W/865	220 - 240V	18W	6500K	120°	1465lm	F
ND416E-24W/830	220 - 240V	24W	3000K	120°	1825lm	F
ND416E-24W/840	220 - 240V	24W	4000K	120°	1865lm	F
ND416E-24W/865	220 - 240V	24W	6500K	120°	1900lm	F





LED Downlight ND204E - ND207E

Features

- 9W / 11W / 15W / 20W / 22W LED Downlight
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight*
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PC, UV protected

Installation / Mounting

- Metal box with Ø20mm knockout facilitates conduit mounting
- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions Ø110mm / Ø140mm / Ø190mm

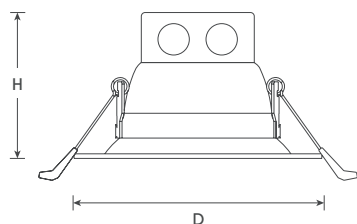
Standards

- Designed and manufactured to comply with international standard EN60598
- Class I Electrical
- IP 20

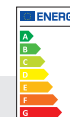


*

	Light source					Luminaire	
	Wattage (W)	Number of Lamp(s)	System Wattage (W)	Lumen Output (lm)	Efficacy (lm/W)	Lumen Output (lm)	Efficacy (lm/W)
LED	18	1	20	2010	100	1555	77.8
CFL	18	2	40	2400	60	1200	30



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND204E	Ø140 x	83	Ø110
ND205E	Ø180 x	85	Ø140
ND207E	Ø220 x	85	Ø190



Model	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
ND204E-9W/830	9W	3000K	90°	740lm	F
ND204E-9W/840	9W	4000K	90°	740lm	F
ND204E-9W/865	9W	6500K	90°	740lm	F
ND204E-11W/830	11W	3000K	90°	875lm	F
ND204E-11W/840	11W	4000K	90°	875lm	F
ND204E-11W/865	11W	6500K	90°	875lm	F
ND205E-15W/830	15W	3000K	90°	1165lm	F
ND205E-15W/840	15W	4000K	90°	1165lm	F
ND205E-15W/865	15W	6500K	90°	1165lm	F
ND205E-20W/830	20W	3000K	90°	1510lm	F
ND205E-20W/840	20W	4000K	90°	1510lm	F
ND205E-20W/865	20W	6500K	90°	1510lm	F
ND207E-22W/830	22W	3000K	90°	1680lm	F
ND207E-22W/840	22W	4000K	90°	1680lm	F
ND207E-22W/865	22W	6500K	90°	1680lm	F





LED Downlight ND204X - ND207X

Features

- 9W / 13W / 15W / 21W / 24W LED Downlight
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Wattage and lumen can be adjusted by a driver with lower output current
- Suitable for LED emergency lighting
- Feasible to integrate with dimming and control system
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PC, UV protected

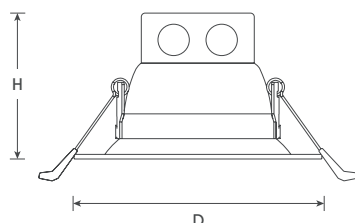
Installation / Mounting

- Metal box with Ø20mm knockout facilitates conduit mounting
- Quick installation with mounting bracket
- Suitable for recessed mounting
- Remote gear unit allows flexible and easy installation
- Cut out dimensions Ø110mm / Ø140mm / Ø190mm

Standards

- Designed and manufactured to comply with international standard EN60598
- Class III Electrical
- IP 20

Dimming Options



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND204X	Ø140	x 83	Ø110
ND205X	Ø180	x 85	Ø140
ND207X	Ø220	x 85	Ø190



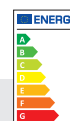
- EM lighting
- Dimming and control system integration

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Model	Light Source Wattage	Current	Voltage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND204X-9W/830	9W	C.C. 350mA	22 - 29V	3000K	90°	700lm	G
ND204X-9W/840	9W	C.C. 350mA	22 - 29V	4000K	90°	700lm	G
ND204X-9W/865	9W	C.C. 350mA	22 - 29V	6500K	90°	700lm	G
ND204X-13W/830	13W	C.C. 350mA	33 - 40V	3000K	90°	1010lm	G
ND204X-13W/840	13W	C.C. 350mA	33 - 40V	4000K	90°	1010lm	G
ND204X-13W/865	13W	C.C. 350mA	33 - 40V	6500K	90°	1010lm	G
ND205X-15W/830	15W	C.C. 350mA	39 - 47V	3000K	90°	1180lm	F
ND205X-15W/840	15W	C.C. 350mA	39 - 47V	4000K	90°	1180lm	F
ND205X-15W/865	15W	C.C. 350mA	39 - 47V	6500K	90°	1180lm	F
ND205X-21W/830	21W	C.C. 500mA	40 - 46V	3000K	90°	1710lm	F
ND205X-21W/840	21W	C.C. 500mA	40 - 46V	4000K	90°	1710lm	F
ND205X-21W/865	21W	C.C. 500mA	40 - 46V	6500K	90°	1710lm	F
ND207X-24W/830	24W	C.C. 700mA	32 - 38V	3000K	90°	1980lm	F
ND207X-24W/840	24W	C.C. 700mA	32 - 38V	4000K	90°	1980lm	F
ND207X-24W/865	24W	C.C. 700mA	32 - 38V	6500K	90°	1980lm	F





LED Downlight ND204S - ND207S 3CCT

Features

- 9W / 11W / 15W / 20W / 22W LED Downlight
- Selectable CCT via dip-switch
- Inventory cost saving
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Good color rendition, Ra ≥ 80

Materials / Finish

- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PC, UV protected

Installation / Mounting

- Metal box with Ø20mm knockout facilitates conduit mounting
- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions Ø110mm / Ø140mm / Ø190mm

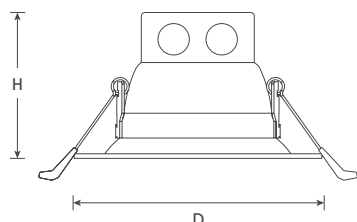
Standards

- Designed and manufactured to comply with international standard EN60598
- Class I Electrical
- IP 20

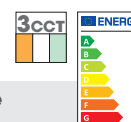


- Selectable CCT
- Inventory cost saving

Dip-switch



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND204S	Ø140 x	83	Ø110
ND205S	Ø180 x	85	Ø140
ND207S	Ø220 x	85	Ø190



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
ND204S-9W/8XX/3CCT	220 - 240V	9W	3000K - 4000K - 6500K	90°	740lm	F
ND204S-11W/8XX/3CCT	220 - 240V	11W	3000K - 4000K - 6500K	90°	875lm	F
ND205S-15W/8XX/3CCT	220 - 240V	15W	3000K - 4000K - 6500K	90°	1165lm	F
ND205S-20W/8XX/3CCT	220 - 240V	20W	3000K - 4000K - 6500K	90°	1510lm	F
ND207S-22W/8XX/3CCT	220 - 240V	22W	3000K - 4000K - 6500K	90°	1680lm	F





LED Downlight ND204S - ND207S

Features

- 9W / 11W / 15W / 20W / 22W LED Downlight
- Selectable wattage via dip-switch
- Inventory cost saving
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium with white finish
- Trim: Die cast aluminium, UV protected
- Diffuser: Frosted PC, UV protected

Installation / Mounting

- Metal box with Ø20mm knockout facilitates conduit mounting
- Quick installation with mounting bracket
- Suitable for recessed mounting
- Integral gear unit allows quick and easy installation
- Cut out dimensions Ø110mm / Ø140mm / Ø190mm

Standards

- Designed and manufactured to comply with international standard EN60598
- Class I Electrical
- IP 20



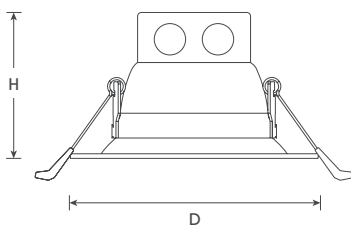
- Selectable Watt
- Inventory cost saving

Dip-switch



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(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND204S	Ø140	x 83	Ø110
ND205S	Ø180	x 85	Ø140
ND207S	Ø220	x 85	Ø190

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND204S-9W/830	220 - 240V	5W - 7W - 9W	3000K	90°	410lm - 575lm - 740lm	F
ND204S-9W/840	220 - 240V	5W - 7W - 9W	4000K	90°	410lm - 575lm - 740lm	F
ND204S-9W/865	220 - 240V	5W - 7W - 9W	6500K	90°	410lm - 575lm - 740lm	F
ND204S-11W/830	220 - 240V	5W - 8W - 11W	3000K	90°	410lm - 640lm - 875lm	F
ND204S-11W/840	220 - 240V	5W - 8W - 11W	4000K	90°	410lm - 640lm - 875lm	F
ND204S-11W/865	220 - 240V	5W - 8W - 11W	6500K	90°	410lm - 640lm - 875lm	F
ND205S-15W/830	220 - 240V	9W - 12W - 15W	3000K	90°	740lm - 935lm - 1165lm	F
ND205S-15W/840	220 - 240V	9W - 12W - 15W	4000K	90°	740lm - 935lm - 1165lm	F
ND205S-15W/865	220 - 240V	9W - 12W - 15W	6500K	90°	740lm - 935lm - 1165lm	F
ND205S-20W/830	220 - 240V	10W - 15W - 20W	3000K	90°	800lm - 1165lm - 1510lm	F
ND205S-20W/840	220 - 240V	10W - 15W - 20W	4000K	90°	800lm - 1165lm - 1510lm	F
ND205S-20W/865	220 - 240V	10W - 15W - 20W	6500K	90°	800lm - 1165lm - 1510lm	F
ND207S-22W/830	220 - 240V	10W - 15W - 22W	3000K	90°	800lm - 1165lm - 1680lm	F
ND207S-22W/840	220 - 240V	10W - 15W - 22W	4000K	90°	800lm - 1165lm - 1680lm	F
ND207S-22W/865	220 - 240V	10W - 15W - 22W	6500K	90°	800lm - 1165lm - 1680lm	F





LED Downlight ND271E - ND273E

Features

- 9W LED Downlight
- Adjustable tilting angle of $\pm 30^\circ$ vertically
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Good color rendition, $R_a \geq 80$ / 90

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions $\varnothing 75\text{mm}$ / $\varnothing 95\text{mm}$

Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20

Dimming Options



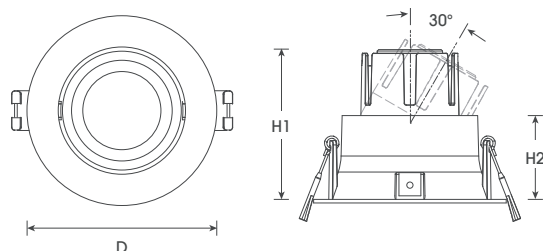
ND271E (Adjustable)



ND272E (Adjustable)

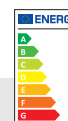


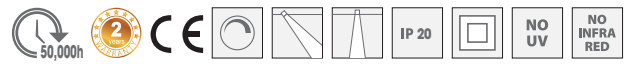
ND273E (Adjustable)



(Unit : mm)	(D)	(H1)	(H2)	Cut Out Dimensions
ND271E	$\varnothing 85$	x 54	x 17	$\varnothing 75$
ND272E	$\varnothing 104$	x 72	x 35	$\varnothing 95$
ND273E	$\varnothing 108$	x 86	x 49	$\varnothing 95$

Model	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	ENERGY STAR
ND271E-9W/830	9W	C.C. 200mA	3000K	20° / 30° / 38° / 50°	740lm	F
ND271E-9W/840	9W	C.C. 200mA	4000K	20° / 30° / 38° / 50°	805lm	F
ND271E-9W/865	9W	C.C. 200mA	6500K	20° / 30° / 38° / 50°	890lm	E
ND272E-9W/830	9W	C.C. 200mA	3000K	20° / 30° / 38° / 50°	740lm	F
ND272E-9W/840	9W	C.C. 200mA	4000K	20° / 30° / 38° / 50°	805lm	F
ND272E-9W/865	9W	C.C. 200mA	6500K	20° / 30° / 38° / 50°	890lm	E
ND273E-9W/830	9W	C.C. 200mA	3000K	20° / 30° / 38° / 50°	740lm	F
ND273E-9W/840	9W	C.C. 200mA	4000K	20° / 30° / 38° / 50°	805lm	F
ND273E-9W/865	9W	C.C. 200mA	6500K	20° / 30° / 38° / 50°	890lm	E





LED Downlight ND281E - ND283E

Features

- 15W LED Downlight
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of $\pm 30^\circ$ vertically
- Good color rendition, $Ra \geq 80 / 90$

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions $\varnothing 75\text{mm} / \varnothing 95\text{mm}$

Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20

Dimming Options



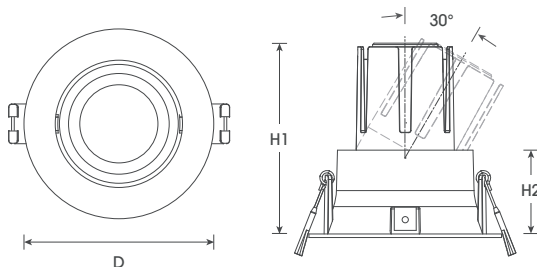
ND281E (Adjustable)



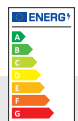
ND282E (Adjustable)



ND283E (Adjustable)



(Unit : mm)	(D)	(H1)	(H2)	Cut Out Dimensions
ND281E	$\varnothing 85$	x 77	x 17	$\varnothing 75$
ND282E	$\varnothing 104$	x 95	x 35	$\varnothing 95$
ND283E	$\varnothing 108$	x 109	x 49	$\varnothing 95$



Model	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND281E-15W/830	15W	C.C. 350mA	3000K	20° / 30° / 38° / 50°	1180lm	F
ND281E-15W/840	15W	C.C. 350mA	4000K	20° / 30° / 38° / 50°	1230lm	F
ND281E-15W/865	15W	C.C. 350mA	6500K	20° / 30° / 38° / 50°	1280lm	F
ND282E-15W/830	15W	C.C. 350mA	3000K	20° / 30° / 38° / 50°	1180lm	F
ND282E-15W/840	15W	C.C. 350mA	4000K	20° / 30° / 38° / 50°	1230lm	F
ND282E-15W/865	15W	C.C. 350mA	6500K	20° / 30° / 38° / 50°	1280lm	F
ND283E-15W/830	15W	C.C. 350mA	3000K	20° / 30° / 38° / 50°	1180lm	F
ND283E-15W/840	15W	C.C. 350mA	4000K	20° / 30° / 38° / 50°	1230lm	F
ND283E-15W/865	15W	C.C. 350mA	6500K	20° / 30° / 38° / 50°	1280lm	F

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LED Downlight ND291E - ND299E

Features

- 9W LED Downlight
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of $\pm 23^\circ$ vertically (ND293E, ND294E, ND296E, ND297E, ND298E)
- Good color rendition, $R_a \geq 80 / 90$

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium

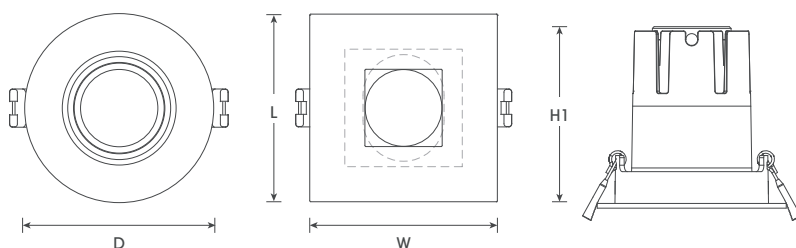
Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions $\varnothing 75\text{mm}$, $75 \times 75\text{mm}$

Standards

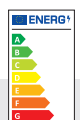
- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20, IP 54

Dimming Options



(Unit : mm)	(D)	(H1)	(H2)	Cut Out Dimensions
ND291E	$\varnothing 88$ x	85 x	48	$\varnothing 75$
ND292E	$\varnothing 88$ x	85 x	48	$\varnothing 75$
ND293E	$\varnothing 88$ x	85 x	48	$\varnothing 75$
ND294E	$\varnothing 88$ x	85 x	48	$\varnothing 75$
ND297E	$\varnothing 88$ x	101 x	64	$\varnothing 75$
ND298E	$\varnothing 88$ x	105 x	68	$\varnothing 75$

(Unit : mm)	(L)	(W)	(H1)	(H2)	Cut Out Dimensions
ND295E	88 x	88 x	85 x	48	$\varnothing 75$
ND296E	88 x	88 x	85 x	48	$\varnothing 75$
ND299E	88 x	88 x	85 x	48	75×75



Model	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	
ND291E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	F
ND292E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	F
ND293E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	E
ND294E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	F
ND295E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	F
ND296E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	E
ND297E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	F
ND298E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	F
ND299E-9W/8XX	9W	C.C. 200mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	740lm / 805lm / 890lm	E



LED Downlight ND301E - ND309E

Features

- 15W LED Downlight
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of $\pm 23^\circ$ vertically (ND303E, ND304E, ND306E, ND307E, ND308E)
- Good color rendition, $R_a \geq 80$ / 90

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium

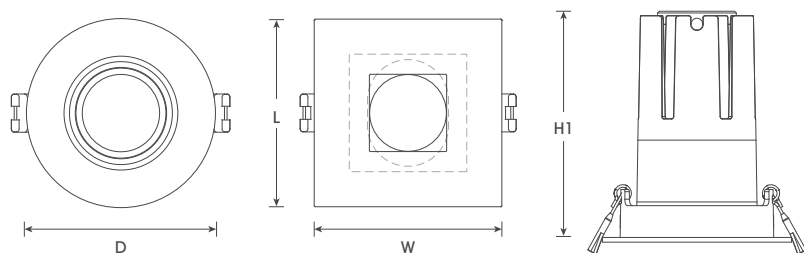
Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions $\varnothing 75\text{mm}$, $75 \times 75\text{mm}$

Standards

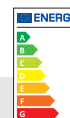
- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20, IP 54

Dimming Options



(Unit : mm)	(D)	(H1)	(H2)	Cut Out Dimensions
ND301E	$\varnothing 88$ x 108	x 48		$\varnothing 75$
ND302E	$\varnothing 88$ x 108	x 48		$\varnothing 75$
ND303E	$\varnothing 88$ x 108	x 48		$\varnothing 75$
ND304E	$\varnothing 88$ x 108	x 48		$\varnothing 75$
ND307E	$\varnothing 88$ x 124	x 64		$\varnothing 75$
ND308E	$\varnothing 88$ x 124	x 68		$\varnothing 75$

(Unit : mm)	(L)	(W)	(H1)	(H2)	Cut Out Dimensions
ND305E	88 x 88	x 108 x 48			$\varnothing 75$
ND306E	88 x 88	x 108 x 48			$\varnothing 75$
ND309E	88 x 88	x 108 x 48			75×75



Model	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	
ND301E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND302E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND303E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND304E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND305E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND306E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND307E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND308E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F
ND309E-15W/8XX	15W	C.C. 350mA	3000K / 4000K / 6500K	20° / 30° / 38° / 50°	1180lm / 1230lm / 1280lm	F





LED Downlight ND361E - ND364E

Features

- 15W / 24W / 32W / 41W LED Downlight
- Recessed round, uniform distribution
- Ideal replacement up to 70W HID downlight
- Special color spectrum for aquarium, agriculture and food display available on request
- Good color rendition, $R_a \geq 80$
- Dimmable as option

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium

Installation / Mounting

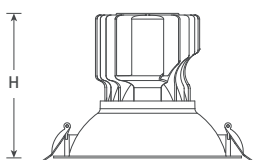
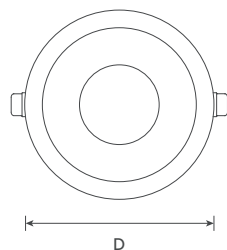
- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions Ø90mm / Ø125mm / Ø170mm / Ø200mm



Standards

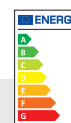
- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20

Dimming Options



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND361E	Ø105 x	90	Ø90
ND362E	Ø138 x	127	Ø125
ND363E	Ø190 x	148	Ø170
ND364E	Ø230 x	172	Ø200

Model	Voltage	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND361E-15W/830	220 - 240V	15W	DC 36±2V C.C. 350mA	3000K	15° / 24° / 38°	1180lm	F
ND361E-15W/840	220 - 240V	15W	DC 36±2V C.C. 350mA	4000K	15° / 24° / 38°	1215lm	F
ND361E-15W/850	220 - 240V	15W	DC 36±2V C.C. 350mA	5000K	15° / 24° / 38°	1260lm	F
ND362E-24W/830	220 - 240V	24W	DC 36±2V C.C. 600mA	3000K	15° / 24° / 38°	2085lm	F
ND362E-24W/840	220 - 240V	24W	DC 36±2V C.C. 600mA	4000K	15° / 24° / 38°	2135lm	F
ND362E-24W/850	220 - 240V	24W	DC 36±2V C.C. 600mA	5000K	15° / 24° / 38°	2185lm	F
ND363E-32W/830	220 - 240V	32W	DC 36±2V C.C. 800mA	3000K	15° / 24° / 38°	2860lm	F
ND363E-32W/840	220 - 240V	32W	DC 36±2V C.C. 800mA	4000K	15° / 24° / 38°	2910lm	F
ND363E-32W/850	220 - 240V	32W	DC 36±2V C.C. 800mA	5000K	15° / 24° / 38°	2960lm	F
ND364E-41W/830	220 - 240V	41W	DC 36±2V C.C. 1050mA	3000K	15° / 24° / 38°	3735lm	F
ND364E-41W/840	220 - 240V	41W	DC 36±2V C.C. 1050mA	4000K	15° / 24° / 38°	3785lm	F
ND364E-41W/850	220 - 240V	41W	DC 36±2V C.C. 1050mA	5000K	15° / 24° / 38°	3830lm	F





LED Downlight ND371E - ND374E

Features

- 15W / 24W / 32W / 41W LED Downlight
- Recessed round, uniform distribution
- Ideal replacement up to 70W HID downlight
- Special color spectrum for aquarium, agriculture and food display available on request
- Adjustable tilting angle of 0°-30° vertically
- Good color rendition, Ra ≥80
- Dimmable as option

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium

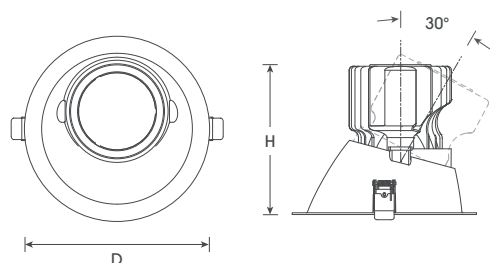
Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions Ø100mm / Ø125mm / Ø170mm / Ø210mm

Standards

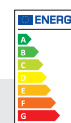
- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20

Dimming Options



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND371E	Ø115	x 96	Ø100
ND372E	Ø138	x 124	Ø125
ND373E	Ø190	x 152	Ø170
ND374E	Ø230	x 187	Ø210

Model	Voltage	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
ND371E-15W/830	220 - 240V	15W	DC 36±2V C.C. 350mA	3000K	15° / 24° / 38°	1180lm	F
ND371E-15W/840	220 - 240V	15W	DC 36±2V C.C. 350mA	4000K	15° / 24° / 38°	1215lm	F
ND371E-15W/850	220 - 240V	15W	DC 36±2V C.C. 350mA	5000K	15° / 24° / 38°	1260lm	F
ND372E-24W/830	220 - 240V	24W	DC 36±2V C.C. 600mA	3000K	15° / 24° / 38°	2085lm	F
ND372E-24W/840	220 - 240V	24W	DC 36±2V C.C. 600mA	4000K	15° / 24° / 38°	2135lm	F
ND372E-24W/850	220 - 240V	24W	DC 36±2V C.C. 600mA	5000K	15° / 24° / 38°	2185lm	F
ND373E-32W/830	220 - 240V	32W	DC 36±2V C.C. 800mA	3000K	15° / 24° / 38°	2860lm	F
ND373E-32W/840	220 - 240V	32W	DC 36±2V C.C. 800mA	4000K	15° / 24° / 38°	2910lm	F
ND373E-32W/850	220 - 240V	32W	DC 36±2V C.C. 800mA	5000K	15° / 24° / 38°	2960lm	F
ND374E-41W/830	220 - 240V	41W	DC 36±2V C.C. 1050mA	3000K	15° / 24° / 38°	3735lm	F
ND374E-41W/840	220 - 240V	41W	DC 36±2V C.C. 1050mA	4000K	15° / 24° / 38°	3785lm	F
ND374E-41W/850	220 - 240V	41W	DC 36±2V C.C. 1050mA	5000K	15° / 24° / 38°	3830lm	F



EUROPE



INDOOR LUMINAIRE



LED Downlight ND341E - ND345E

Features

- 9W / 15W / 20W / 28W / 32W LED Downlight
- Recessed round, uniform distribution
- Ideal replacement up to 70W HID downlight
- Good color rendition, $R_a \geq 80$
- Dimmable as option

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium
- Diffuser: Clear Glass

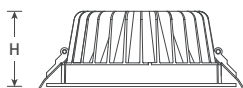
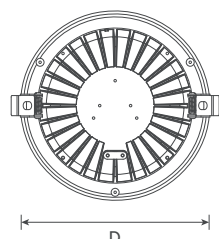
Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions Ø90mm / Ø125mm / Ø145mm / Ø165mm / Ø200mm

Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20

Dimming Options



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND341E	Ø110	x 42	Ø90
ND342E	Ø140	x 53	Ø125
ND343E	Ø162	x 64	Ø145
ND344E	Ø190	x 76	Ø165
ND345E	Ø230	x 88	Ø200



Model	Voltage	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	
ND341E-9W/830	220 - 240V	9W	DC 36±2V C.C. 200mA	3000K	40° / 60°	785lm	F
ND341E-9W/840	220 - 240V	9W	DC 36±2V C.C. 200mA	4000K	40° / 60°	835lm	F
ND341E-9W/850	220 - 240V	9W	DC 36±2V C.C. 200mA	5000K	40° / 60°	885lm	F
ND342E-15W/830	220 - 240V	15W	DC 36±2V C.C. 350mA	3000K	40° / 60°	1310lm	F
ND342E-15W/840	220 - 240V	15W	DC 36±2V C.C. 350mA	4000K	40° / 60°	1360lm	F
ND342E-15W/850	220 - 240V	15W	DC 36±2V C.C. 350mA	5000K	40° / 60°	1410lm	F
ND343E-20W/830	220 - 240V	20W	DC 36±2V C.C. 500mA	3000K	40° / 60°	1745lm	F
ND343E-20W/840	220 - 240V	20W	DC 36±2V C.C. 500mA	4000K	40° / 60°	1795lm	F
ND343E-20W/850	220 - 240V	20W	DC 36±2V C.C. 500mA	5000K	40° / 60°	1845lm	F
ND344E-28W/830	220 - 240V	28W	DC 36±2V C.C. 700mA	3000K	40° / 60°	2445lm	F
ND344E-28W/840	220 - 240V	28W	DC 36±2V C.C. 700mA	4000K	40° / 60°	2495lm	F
ND344E-28W/850	220 - 240V	28W	DC 36±2V C.C. 700mA	5000K	40° / 60°	2540lm	F
ND345E-32W/830	220 - 240V	32W	DC 36±2V C.C. 800mA	3000K	40° / 60°	2795lm	F
ND345E-32W/840	220 - 240V	32W	DC 36±2V C.C. 800mA	4000K	40° / 60°	2840lm	F
ND345E-32W/850	220 - 240V	32W	DC 36±2V C.C. 800mA	5000K	40° / 60°	2890lm	F





LED Downlight ND351E - ND355E

Features

- 9W / 15W / 18W / 23W / 29W LED Downlight
- Recessed round, uniform distribution
- Ideal replacement up to 70W HID downlight
- Good color rendition, $Ra \geq 80$
- Dimmable as option

Materials / Finish

- Body: Die cast aluminium
- Trim: Die cast aluminium
- Reflector: High purity, anodized aluminium
- Diffuser: Frosted PC, UV protected

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Remote gear unit allows flexible and easy installation
- Cut out dimensions $\varnothing 90\text{mm}$ / $\varnothing 125\text{mm}$ / $\varnothing 145\text{mm}$ / $\varnothing 165\text{mm}$ / $\varnothing 200\text{mm}$

Standards

- Designed and manufactured to comply with international standard EN60598
- Class II Electrical
- IP 20

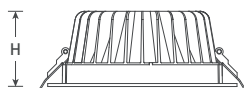
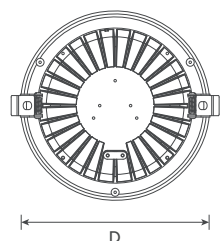
Dimming Options



EUROPE



INDOOR LUMINAIRE



(Unit : mm)	(D)	(H)	Cut Out Dimensions
ND351E	$\varnothing 110$ x	42	$\varnothing 90$
ND352E	$\varnothing 140$ x	53	$\varnothing 125$
ND353E	$\varnothing 162$ x	64	$\varnothing 145$
ND354E	$\varnothing 190$ x	76	$\varnothing 165$
ND355E	$\varnothing 230$ x	88	$\varnothing 200$



Model	Voltage	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	Energy Class
ND351E-9W/830	220 - 240V	9W	DC 24 $\pm$ 2V C.C. 350mA	3000K	90°	740lm	F
ND351E-9W/840	220 - 240V	9W	DC 24 $\pm$ 2V C.C. 350mA	4000K	90°	790lm	F
ND351E-9W/850	220 - 240V	9W	DC 24 $\pm$ 2V C.C. 350mA	5000K	90°	830lm	F
ND352E-15W/830	220 - 240V	15W	DC 38 $\pm$ 2V C.C. 350mA	3000K	90°	1240lm	F
ND352E-15W/840	220 - 240V	15W	DC 38 $\pm$ 2V C.C. 350mA	4000K	90°	1310lm	F
ND352E-15W/850	220 - 240V	15W	DC 38 $\pm$ 2V C.C. 350mA	5000K	90°	1410lm	F
ND353E-18W/830	220 - 240V	18W	DC 46 $\pm$ 2V C.C. 350mA	3000K	90°	1485lm	F
ND353E-18W/840	220 - 240V	18W	DC 46 $\pm$ 2V C.C. 350mA	4000K	90°	1570lm	F
ND353E-18W/850	220 - 240V	18W	DC 46 $\pm$ 2V C.C. 350mA	5000K	90°	1660lm	F
ND354E-23W/830	220 - 240V	23W	DC 60 $\pm$ 2V C.C. 350mA	3000K	90°	1895lm	F
ND354E-23W/840	220 - 240V	23W	DC 60 $\pm$ 2V C.C. 350mA	4000K	90°	2010lm	F
ND354E-23W/850	220 - 240V	23W	DC 60 $\pm$ 2V C.C. 350mA	5000K	90°	2120lm	F
ND355E-29W/830	220 - 240V	29W	DC 36 $\pm$ 2V C.C. 700mA	3000K	90°	2390lm	F
ND355E-29W/840	220 - 240V	29W	DC 36 $\pm$ 2V C.C. 700mA	4000K	90°	2530lm	F
ND355E-29W/850	220 - 240V	29W	DC 36 $\pm$ 2V C.C. 700mA	5000K	90°	2670lm	F



LED Ceiling Light NC211E - NC214E

Features

- 14W / 20W / 24W / 32W LED Ceiling Light
- Uniform distribution with opal diffuser
- Comfort glare-free light
- Good color rendition, Ra ≥ 80

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

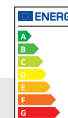
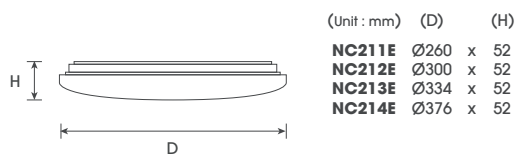
- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20, IP44



EUROPE



INDOOR LUMINAIRE



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NC211E-14W/830	220 - 240V	14W	3000K	120°	1105lm	F
NC211E-14W/840	220 - 240V	14W	4000K	120°	1130lm	F
NC211E-14W/865	220 - 240V	14W	6500K	120°	1170lm	F
NC212E-20W/830	220 - 240V	20W	3000K	120°	1580lm	F
NC212E-20W/840	220 - 240V	20W	4000K	120°	1615lm	F
NC212E-20W/865	220 - 240V	20W	6500K	120°	1670lm	F
NC213E-24W/830	220 - 240V	24W	3000K	120°	1890lm	F
NC213E-24W/840	220 - 240V	24W	4000K	120°	1940lm	F
NC213E-24W/865	220 - 240V	24W	6500K	120°	2000lm	F
NC214E-32W/830	220 - 240V	32W	3000K	120°	2520lm	F
NC214E-32W/840	220 - 240V	32W	4000K	120°	2585lm	F
NC214E-32W/865	220 - 240V	32W	6500K	120°	2675lm	F



LED Ceiling Light NC211E-NC214E 3CCT

Features

- 14W / 20W / 24W / 32W LED Ceiling Light
- Selectable CCT via dip-switch
- Inventory cost saving
- Uniform distribution with opal diffuser
- Comfort glare-free light
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

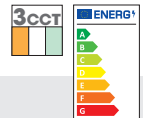
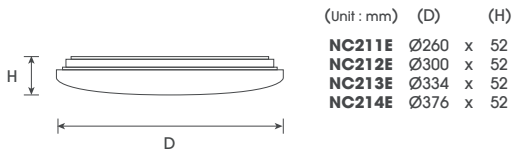
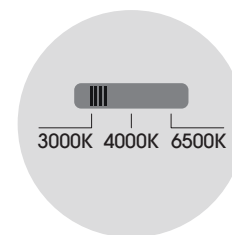
Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20



- Selectable CCT
- Inventory cost saving

Dip-switch



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NC211E-14W/8XX/3CCT	220 - 240V	14W	3000K - 4000K - 6500K	120°	1375lm	F
NC212E-20W/8XX/3CCT	220 - 240V	20W	3000K - 4000K - 6500K	120°	2045lm	F
NC213E-24W/8XX/3CCT	220 - 240V	24W	3000K - 4000K - 6500K	120°	2490lm	F
NC214E-32W/8XX/3CCT	220 - 240V	32W	3000K - 4000K - 6500K	120°	3375lm	F

EUROPE

INDOOR LUMINAIRE



LED Ceiling Light NC221E - NC224E

Features

- 14W / 20W / 24W / 32W LED Ceiling Light
- Uniform distribution with opal diffuser
- Switch dimming with 100%, 50% and 20% adjustable lumen output
- Comfort glare-free light
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

Installation / Mounting

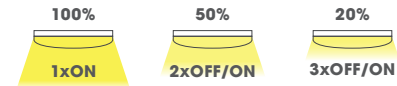
- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20

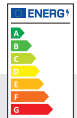
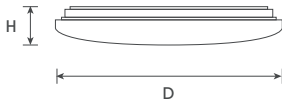


Switch Dimming



(Unit : mm) (D) (H)

NC221E	Ø260	x	52
NC222E	Ø300	x	52
NC223E	Ø334	x	52
NC224E	Ø376	x	52



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NC221E-14W/830	220 - 240V	14W	3000K	120°	1105lm	F
NC221E-14W/840	220 - 240V	14W	4000K	120°	1130lm	F
NC221E-14W/865	220 - 240V	14W	6500K	120°	1170lm	F
NC222E-20W/830	220 - 240V	20W	3000K	120°	1580lm	F
NC222E-20W/840	220 - 240V	20W	4000K	120°	1615lm	F
NC222E-20W/865	220 - 240V	20W	6500K	120°	1670lm	F
NC223E-24W/830	220 - 240V	24W	3000K	120°	1890lm	F
NC223E-24W/840	220 - 240V	24W	4000K	120°	1940lm	F
NC223E-24W/865	220 - 240V	24W	6500K	120°	2000lm	F
NC224E-32W/830	220 - 240V	32W	3000K	120°	2520lm	F
NC224E-32W/840	220 - 240V	32W	4000K	120°	2585lm	F
NC224E-32W/865	220 - 240V	32W	6500K	120°	2675lm	F



LED Ceiling Light NC181E - NC183E

Features

- 20W / 32W / 42W LED Ceiling Light
- Uniform distribution with opal diffuser
- Comfort glare-free light
- Good color rendition, Ra ≥80

Materials / Finish

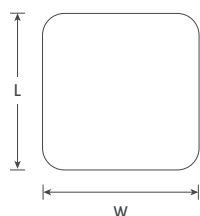
- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

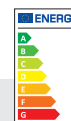
Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20



(Unit : mm)	(L)	(W)	(H)
NC181E	280 x	280 x	65
NC182E	330 x	330 x	65
NC183E	430 x	430 x	65

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
NC181E-20W/830	220 - 240V	20W	3000K	170°	2050lm	F
NC181E-20W/840	220 - 240V	20W	4000K	170°	2100lm	F
NC181E-20W/865	220 - 240V	20W	6500K	170°	2150lm	F
NC182E-32W/830	220 - 240V	32W	3000K	170°	3380lm	F
NC182E-32W/840	220 - 240V	32W	4000K	170°	3450lm	F
NC182E-32W/865	220 - 240V	32W	6500K	170°	3500lm	F
NC183E-42W/830	220 - 240V	42W	3000K	170°	4490lm	F
NC183E-42W/840	220 - 240V	42W	4000K	170°	4550lm	F
NC183E-42W/865	220 - 240V	42W	6500K	170°	4600lm	F



EUROPE



INDOOR LUMINAIRE



LED Ceiling Light NC231E - NC232E

Features

- 24W / 36W LED Ceiling Light
- Uniform distribution with opal diffuser
- Comfort glare-free light
- Tunable white from 2700K to 6500K
- Dimming by remote control
- Good color rendition, Ra ≥ 80

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Opaque acrylic

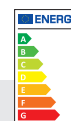
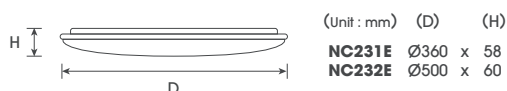
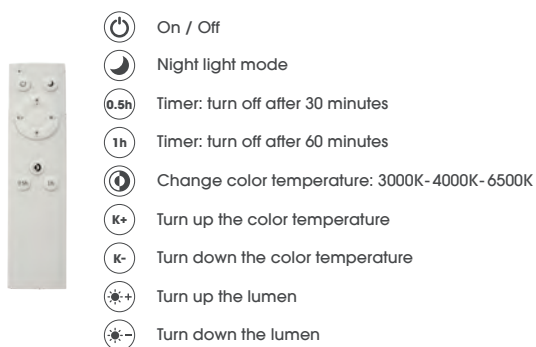
Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20

Remote Control



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	Energy Efficiency Class
NC231E-24W/TW	220 - 240V	24W	2700K - 6500K	170°	2500lm	F
NC232E-36W/TW	220 - 240V	36W	2700K - 6500K	170°	3850lm	F





LED Panel NP161E - NP164E

Features

- 20W / 40W / 75W LED Panel
- Frosted PC diffuser provide uniform distribution
- Comfort glare-free light
- Good color rendition, Ra ≥ 80

Materials / Finish

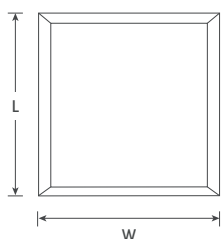
- Body: Aluminium frame with white finish
- Diffuser: Frosted PC
- White color

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Integral gear unit allows quick and easy installation

Standards

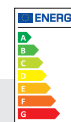
- Designed and manufactured to comply international standard EN60598
- Class II Electrical
- IP 20



(Unit : mm)	(L)	(W)
NP161E	295 x	295
NP162E	595 x	595



(Unit : mm)	(L)	(W)
NP163E	295 x	1195
NP164E	595 x	1195



Model	Voltage	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	
NP161E-20W/830	220 - 240V	20W	480mA	3000K	150°	1710lm	F
NP161E-20W/840	220 - 240V	20W	480mA	4000K	150°	1805lm	F
NP161E-20W/865	220 - 240V	20W	480mA	6500K	150°	1900lm	F
NP162E-40W/830	220 - 240V	40W	960mA	3000K	150°	3610lm	F
NP162E-40W/840	220 - 240V	40W	960mA	4000K	150°	3705lm	F
NP162E-40W/865	220 - 240V	40W	960mA	6500K	150°	3800lm	F
NP163E-40W/830	220 - 240V	40W	960mA	3000K	150°	3610lm	F
NP163E-40W/840	220 - 240V	40W	960mA	4000K	150°	3705lm	F
NP163E-40W/865	220 - 240V	40W	960mA	6500K	150°	3800lm	F
NP164E-75W/830	220 - 240V	75W	1700mA	3000K	150°	6650lm	F
NP164E-75W/840	220 - 240V	75W	1700mA	4000K	150°	6745lm	F
NP164E-75W/865	220 - 240V	75W	1700mA	6500K	150°	6840lm	F

EUROPE



INDOOR LUMINAIRE



LED Panel NP141E - NP147E

Features

- 20W / 40W / 45W / 50W / 55W / 60W / 90W LED Panel
- Frosted PC diffuser provide uniform distribution
- Comfort glare-free light
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Sheet steel housing with white finish
- Diffuser: Frosted PC
- White color

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Integral gear unit allows quick and easy installation

Standards

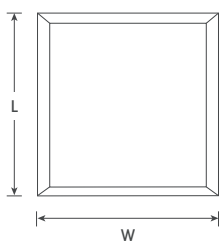
- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20



EUROPE



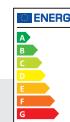
INDOOR LUMINAIRE



	(Unit : mm)	(L)	(W)	Thickness of LED panel
NP141E	300 x 300 x	33		
NP142E	600 x 600 x	35		
NP144E	600 x 600 x	35		
NP146E	600 x 600 x	35		



	(Unit : mm)	(L)	(W)	Thickness of LED panel
NP143E	300 x 1200 x	35		
NP145E	300 x 1200 x	35		
NP147E	300 x 1200 x	35		



Model	Voltage	Luminaire Wattage	Driver	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
NP141E-20W/830	220 - 240V	20W	174mA	3000K	115°	1510lm	F
NP141E-20W/840	220 - 240V	20W	174mA	4000K	115°	1560lm	F
NP141E-20W/865	220 - 240V	20W	174mA	6500K	115°	1600lm	F
NP142E-40W/830	220 - 240V	40W	193mA	3000K	115°	3420lm	F
NP142E-40W/840	220 - 240V	40W	193mA	4000K	115°	3515lm	F
NP142E-40W/865	220 - 240V	40W	193mA	6500K	115°	3610lm	F
NP143E-45W/830	220 - 240V	45W	217mA	3000K	115°	3580lm	F
NP143E-45W/840	220 - 240V	45W	217mA	4000K	115°	3620lm	F
NP143E-45W/865	220 - 240V	45W	217mA	6500K	115°	3660lm	F
NP144E-50W/830	220 - 240V	50W	242mA	3000K	115°	4000lm	F
NP144E-50W/840	220 - 240V	50W	242mA	4000K	115°	4100lm	F
NP144E-50W/865	220 - 240V	50W	242mA	6500K	115°	4200lm	F
NP145E-55W/830	220 - 240V	55W	266mA	3000K	115°	4410lm	F
NP145E-55W/840	220 - 240V	55W	266mA	4000K	115°	4445lm	F
NP145E-55W/865	220 - 240V	55W	266mA	6500K	115°	4560lm	F
NP146E-60W/830	220 - 240V	60W	290mA	3000K	115°	4850lm	F
NP146E-60W/840	220 - 240V	60W	290mA	4000K	115°	4950lm	F
NP146E-60W/865	220 - 240V	60W	290mA	6500K	115°	5050lm	F
NP147E-90W/830	220 - 240V	90W	435mA	3000K	115°	7310lm	F
NP147E-90W/840	220 - 240V	90W	435mA	4000K	115°	7430lm	F
NP147E-90W/865	220 - 240V	90W	435mA	6500K	115°	7550lm	F



LED Tracklight NK111E - NK114E

Features

- 10W / 20W / 30W / 40W LED Tracklight
- Precise beam control by aluminium reflector
- Adjustable head spot lighting
- Comfort glare-free light
- High color rendition, Ra ≥ 90

Materials / Finish

- Body: Die cast aluminium
- Reflector: Anodised faceted aluminium
- Diffuser: Toughened glass
- Choice of White and Black color

Installation / Mounting

- Suitable for 2-wire, 3-wire track, 4-wire three phase track
- Flexible and easy installation

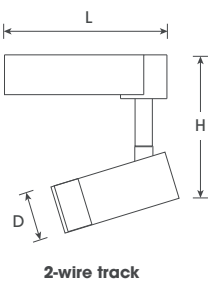
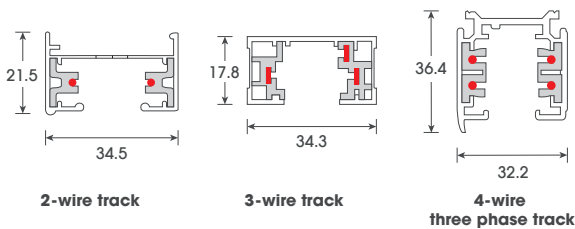
Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20

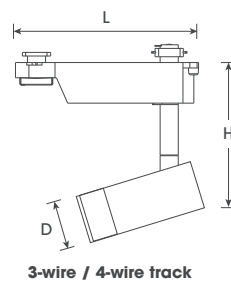


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INDOOR LUMINAIRE



(Unit : mm)	(D)	(L)	(H)
NK111E	Ø67 x	106 x	230
NK112E	Ø88 x	106 x	243
NK113E	Ø101 x	106 x	270
NK114E	Ø101 x	106 x	270



(Unit : mm)	(D)	(L)	(H) 3wire / 4wire
NK111E	Ø67 x	106 x	230 / 255
NK112E	Ø88 x	106 x	243 / 268
NK113E	Ø101 x	106 x	270 / 295
NK114E	Ø101 x	106 x	270 / 295



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NK111E-10W/930	220 - 240V	10W	3000K	20° / 40° / 60°	680lm	G
NK111E-10W/940	220 - 240V	10W	4000K	20° / 40° / 60°	730lm	F
NK111E-10W/965	220 - 240V	10W	6500K	20° / 40° / 60°	775lm	F
NK112E-20W/930	220 - 240V	20W	3000K	20° / 40° / 60°	1550lm	F
NK112E-20W/940	220 - 240V	20W	4000K	20° / 40° / 60°	1650lm	F
NK112E-20W/965	220 - 240V	20W	6500K	20° / 40° / 60°	1745lm	F
NK113E-30W/930	220 - 240V	30W	3000K	20° / 40° / 60°	2330lm	F
NK113E-30W/940	220 - 240V	30W	4000K	20° / 40° / 60°	2425lm	F
NK113E-30W/965	220 - 240V	30W	6500K	20° / 40° / 60°	2520lm	F
NK114E-40W/930	220 - 240V	40W	3000K	20° / 40° / 60°	3105lm	F
NK114E-40W/940	220 - 240V	40W	4000K	20° / 40° / 60°	3200lm	F
NK114E-40W/965	220 - 240V	40W	6500K	20° / 40° / 60°	3300lm	F



LED Tracklight NK121E - NK123E

Features

- 10W / 20W / 30W LED Tracklight
- Precise beam control by aluminium reflector
- Adjustable head spot lighting
- Comfort glare-free light
- High color rendition, Ra ≥90

Materials / Finish

- Body: Die cast aluminium
- Reflector: Anodised faceted aluminium
- Diffuser: Toughened glass
- Choice of White and Black color

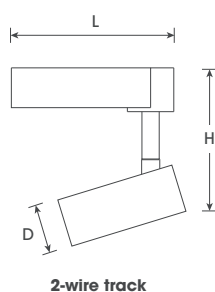
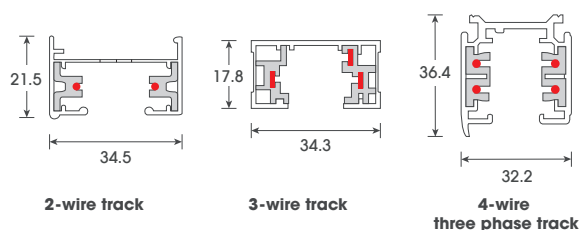
Installation / Mounting

- Suitable for 2-wire, 3-wire track, 4-wire three phase track
- Flexible and easy installation



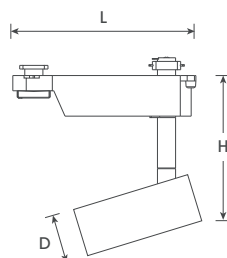
Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 20



2-wire track

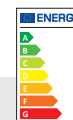
(Unit : mm)	(D)	(L)	(H)
NK121E	Ø55	x 83	x 215
NK122E	Ø74	x 83	x 235
NK123E	Ø90	x 83	x 266



3-wire / 4-wire track

(Unit : mm)	(D)	(L)	(H) 3wire / 4wire
NK121E	Ø55	x 83	x 215 / 240
NK122E	Ø74	x 83	x 235 / 260
NK123E	Ø90	x 83	x 266 / 291

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERG+
NK121E-10W/930	220 - 240V	10W	3000K	12° / 24°	775lm	F
NK121E-10W/940	220 - 240V	10W	4000K	12° / 24°	825lm	F
NK121E-10W/965	220 - 240V	10W	6500K	12° / 24°	875lm	F
NK122E-20W/930	220 - 240V	20W	3000K	12° / 24°	1550lm	F
NK122E-20W/940	220 - 240V	20W	4000K	12° / 24°	1650lm	F
NK122E-20W/965	220 - 240V	20W	6500K	12° / 24°	1750lm	F
NK123E-30W/930	220 - 240V	30W	3000K	12° / 24° / 38° / 45°	2425lm	F
NK123E-30W/940	220 - 240V	30W	4000K	12° / 24° / 38° / 45°	2520lm	F
NK123E-30W/965	220 - 240V	30W	6500K	12° / 24° / 38° / 45°	2620lm	F



LED Highbay NH161E - NH163E



Features

- 100W / 150W / 200W / 240W LED Highbay
- Uniformity distribution in high ceiling application
- 60° / 90° / 120° beam angle for different open area coverage
- Selectable wattage and CCT options available
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Chips: SMD 2835
- Driver: UVL
- Choice of Black, Bronze, Silver Grey and Texture White color

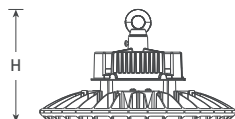
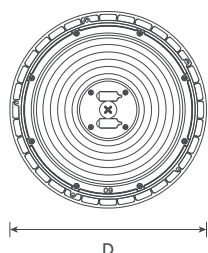
Installation / Mounting

- Pendant mount by chain

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IK 08, IP 65

Dimming Options



(Unit : mm)	(D)	(H)
NH161E	Ø240	x 154
NH162E	Ø270	x 154
NH163E	Ø320	x 154



Sensor Options



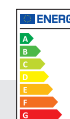
Emergency Options



Emergency Driver

Test Remote

Input Voltage	Emergency Power	Working Time	Luminous
100-240Vac	30W	90 mins	5100lm
Max. Load 300W			
0-50°C Ambient Temperature			



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NH161E-100W/830	120 - 277V	100W	3000K	60° / 90° / 120°	16500lm	B
NH161E-100W/840	120 - 277V	100W	4000K	60° / 90° / 120°	16500lm	B
NH161E-100W/865	120 - 277V	100W	6500K	60° / 90° / 120°	16500lm	B
NH162E-150W/830	120 - 277V	150W	3000K	60° / 90° / 120°	24735lm	B
NH162E-150W/840	120 - 277V	150W	4000K	60° / 90° / 120°	24735lm	B
NH162E-150W/865	120 - 277V	150W	6500K	60° / 90° / 120°	24735lm	B
NH163E-200W/830	120 - 277V	200W	3000K	60° / 90° / 120°	32980lm	B
NH163E-200W/840	120 - 277V	200W	4000K	60° / 90° / 120°	32980lm	B
NH163E-200W/865	120 - 277V	200W	6500K	60° / 90° / 120°	32980lm	B
NH163E-240W/830	120 - 277V	240W	3000K	60° / 90° / 120°	39575lm	B
NH163E-240W/840	120 - 277V	240W	4000K	60° / 90° / 120°	39575lm	B
NH163E-240W/865	120 - 277V	240W	6500K	60° / 90° / 120°	39575lm	B

EUROPE



INDOOR LUMINAIRE

LED Highbay NH1020 - NH1024



Features

- 60W / 80W / 100W / 150W / 200W LED Highbay
- Uniformity distribution in high ceiling application
- Separately packed reflectors for cost saving logistics
- 120° beam angle for large open area coverage
- Good color rendition, Ra ≥70

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Reflector (optional): PC / Aluminium
- Chips: Lumileds 3030
- Driver: Meanwell / Sosen

Installation / Mounting

- Pendant mount by chain
- Easy assembly of reflector by screw fixation

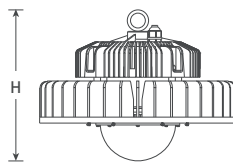
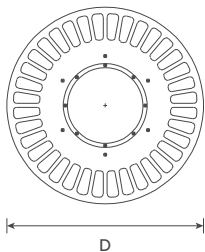
Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IK 09, IP 65

Dimming Options



Reflector Options



(Unit : mm)	(D)	(H)
NH1020	Ø180 x	157
NH1021	Ø230 x	224
NH1022	Ø230 x	224
NH1023	Ø260 x	234
NH1024	Ø300 x	250



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY STAR
NH1020-3-ALB060-02	90 - 305V	60W	3000K	120°	6460lm	E
NH1020-3-ALD060-02	90 - 305V	60W	4000K	120°	6840lm	E
NH1020-3-ALG060-02	90 - 305V	60W	6500K	120°	7125lm	D
NH1021-3-ALB080-02	90 - 305V	80W	3000K	120°	8550lm	E
NH1021-3-ALD080-02	90 - 305V	80W	4000K	120°	9310lm	D
NH1021-3-ALG080-02	90 - 305V	80W	6500K	120°	9880lm	D
NH1022-3-ALB100-02	90 - 305V	100W	3000K	120°	10830lm	E
NH1022-3-ALD100-02	90 - 305V	100W	4000K	120°	11600lm	D
NH1022-3-ALG100-02	90 - 305V	100W	6500K	120°	12350lm	D
NH1023-3-ALB150-02	90 - 305V	150W	3000K	120°	16630lm	E
NH1023-3-ALD150-02	90 - 305V	150W	4000K	120°	17575lm	D
NH1023-3-ALG150-02	90 - 305V	150W	6500K	120°	18525lm	D
NH1024-3-ALB200-02	90 - 305V	200W	3000K	120°	22800lm	E
NH1024-3-ALD200-02	90 - 305V	200W	4000K	120°	23750lm	D
NH1024-3-ALG200-02	90 - 305V	200W	6500K	120°	24700lm	D





LED Highbay NH151E - NH154E

Features

- 100W / 150W / 200W / 240W LED Highbay
- Uniformity distribution in high ceiling application
- 120° beam angles for large open area coverage
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Reflector (optional): PC / Aluminium
- Black color

Installation / Mounting

- Pendant mount by chain
- Easy assembly of reflector by screw fixation

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 65



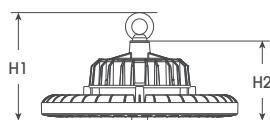
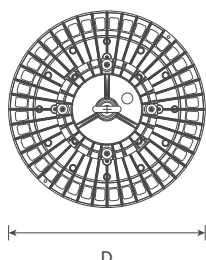
Reflector Options



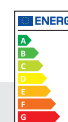
PC 60°
 100W: Ø311 x 166.5mm
 150W: Ø308 x 120mm
 200W: Ø410 x 210.5mm
 240W: Ø410 x 210.5mm



ALU 90°
 100W: Ø340 x 115mm
 150W: Ø370 x 130mm
 200W: Ø430 x 135mm
 240W: Ø430 x 135mm



(Unit : mm)	(D)	(H1)	(H2)
NH151E	Ø250 x	139 x	103
NH152E	Ø250 x	139 x	103
NH153E	Ø250 x	151 x	115
NH154E	Ø300 x	161 x	125



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NH151E-100W/830	100 - 277V	100W	3000K	120°	13300lm	D
NH151E-100W/840	100 - 277V	100W	4000K	120°	13775lm	C
NH151E-100W/865	100 - 277V	100W	6500K	120°	14250lm	C
NH152E-150W/830	100 - 277V	150W	3000K	120°	19950lm	D
NH152E-150W/840	100 - 277V	150W	4000K	120°	20665lm	C
NH152E-150W/865	100 - 277V	150W	6500K	120°	21375lm	C
NH153E-200W/830	100 - 277V	200W	3000K	120°	26600lm	D
NH153E-200W/840	100 - 277V	200W	4000K	120°	27550lm	C
NH153E-200W/865	100 - 277V	200W	6500K	120°	28500lm	C
NH154E-240W/830	100 - 277V	240W	3000K	120°	31920lm	D
NH154E-240W/840	100 - 277V	240W	4000K	120°	33060lm	C
NH154E-240W/865	100 - 277V	240W	6500K	120°	34200lm	C

EUROPE



INDOOR LUMINAIRE



LED Highbay NH141E - NH144E

Features

- 50W / 100W / 150W / 200W LED Linear Highbay
- Uniformity distribution in high ceiling application
- Good color rendition, $Ra \geq 80$

Materials / Finish

- Body: Die cast aluminium and external aluminium profile
- Lens: PC
- Chips: Philips Lumileds 3030
- Driver: Meanwell / Sosen
- End cap: Choice of black and red color

Installation / Mounting

- Pendant mount by stainless steel wire $\varnothing 1.2 \times 300\text{mm L} / 1000\text{mm L} / 2000\text{mm L}$ or fixed installation by bracket 120mm height
- Easy assembly by screw fixation

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 65



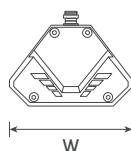
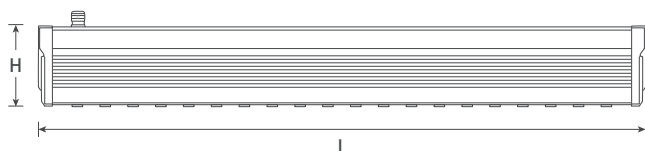
Accessories



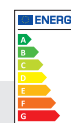
Bracket



Chain



(Unit : mm)	(L)	(W)	(H)
NH141E	278	x 135	x 90
NH142E	529	x 135	x 90
NH143E	780	x 135	x 90
NH144E	1131	x 135	x 90



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
NH141E-50W/830	100 - 277V	50W	3000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	5465lm	E
NH141E-50W/840	100 - 277V	50W	4000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	5700lm	E
NH141E-50W/865	100 - 277V	50W	6500K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	5940lm	D
NH142E-100W/830	100 - 277V	100W	3000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	10925lm	E
NH142E-100W/840	100 - 277V	100W	4000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	11400lm	E
NH142E-100W/865	100 - 277V	100W	6500K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	11875lm	D
NH143E-150W/830	100 - 277V	150W	3000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	16390lm	E
NH143E-150W/840	100 - 277V	150W	4000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	17100lm	E
NH143E-150W/865	100 - 277V	150W	6500K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	17815lm	D
NH144E-200W/830	100 - 277V	200W	3000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	21850lm	E
NH144E-200W/840	100 - 277V	200W	4000K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	22800lm	E
NH144E-200W/865	100 - 277V	200W	6500K	30° / 60° / 90° / 80° x 150° / 30° x 70° / 60° x 90°	23750lm	D



OUTDOOR LUMINAIRE



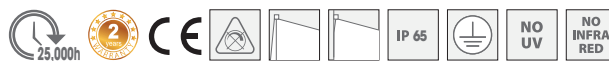
LED FLOODLIGHT
P. 130 - 134



LED WALLWASHER
P. 135



LED ROADLIGHT
P. 136 - 138



LED Floodlight UF241E - UF245E

Features

- 20W / 30W / 50W / 100W / 150W / 200W LED Floodlight
- Polyester powder finish for excellent corrosion and UV resistance
- Designed for excellent thermal transfer to extend component life
- Uniform design with five construction sizes
- Good heat dissipation performance
- Good color rendition, Ra ≥ 80

Materials / Finish

- Body: Sturdy die cast aluminium housing with anodised steel bracket and extruded silicone rubber gasket
- Diffuser: Toughened glass
- Black color

Installation / Mounting

- Suitable for mast mounting and wall mounting

Standards

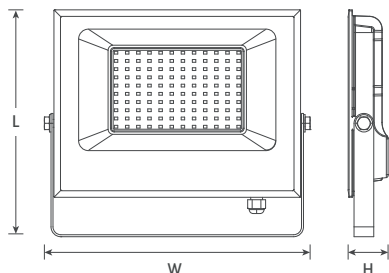
- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 65



EUROPE



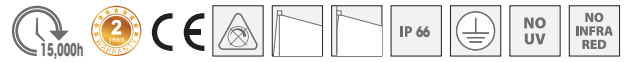
OUTDOOR LUMINAIRE



(Unit : mm)	(L)	(W)	(H)
UF241E	140 x	145 x	35
UF242E	173 x	196 x	40
UF243E	230 x	269.5 x	40
UF244E	292 x	339.5 x	42
UF245E	331 x	404 x	43.5



Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	
UF241E-20W/830	220 - 240V	20W	3000K	115°	1520lm	F
UF241E-20W/840	220 - 240V	20W	4000K	115°	1570lm	F
UF241E-20W/865	220 - 240V	20W	6500K	115°	1615lm	F
UF241E-30W/830	220 - 240V	30W	3000K	115°	2470lm	F
UF241E-30W/840	220 - 240V	30W	4000K	115°	2520lm	F
UF241E-30W/865	220 - 240V	30W	6500K	115°	2565lm	F
UF242E-50W/830	220 - 240V	50W	3000K	115°	4130lm	F
UF242E-50W/840	220 - 240V	50W	4000K	115°	4200lm	F
UF242E-50W/865	220 - 240V	50W	6500K	115°	4275lm	F
UF243E-100W/830	220 - 240V	100W	3000K	115°	8265lm	F
UF243E-100W/840	220 - 240V	100W	4000K	115°	8410lm	F
UF243E-100W/865	220 - 240V	100W	6500K	115°	8550lm	F
UF244E-150W/830	220 - 240V	150W	3000K	115°	12400lm	F
UF244E-150W/840	220 - 240V	150W	4000K	115°	12610lm	F
UF244E-150W/865	220 - 240V	150W	6500K	115°	12825lm	F
UF245E-200W/830	220 - 240V	200W	3000K	115°	16530lm	F
UF245E-200W/840	220 - 240V	200W	4000K	115°	16815lm	F
UF245E-200W/865	220 - 240V	200W	6500K	115°	17100lm	F



LED Floodlight UF251E - UF254E

Features

- 10W / 20W / 30W / 50W / 100W LED Floodlight
- Polyester powder finish for excellent corrosion and UV resistance
- Designed for excellent thermal transfer to extend component life
- Uniform design with four construction sizes
- Good heat dissipation performance
- Good color rendition, Ra ≥ 80

Materials / Finish

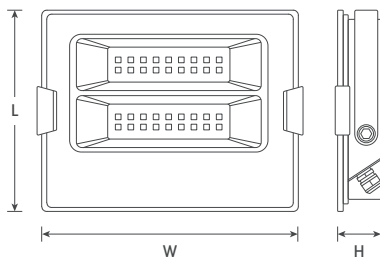
- Body: Sturdy die cast aluminium housing with anodised steel bracket and extruded silicone rubber gasket
- Diffuser: Toughened glass
- Black color

Installation / Mounting

- Suitable for mast mounting and wall mounting

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 66



(Unit : mm)	(L)	(W)	(H)
UF251E	142 x	118 x	31
UF252E	172 x	143 x	31
UF253E	208 x	161 x	31
UF254E	293 x	213 x	33

Model	Voltage	Luminaire Wattage	Color Temp	Beam Angle	Luminaire Lumen	ENERGY
UF251E-10W/830	220 - 240V	10W	3000K	105° x 73°	685lm	G
UF251E-10W/840	220 - 240V	10W	4000K	105° x 73°	720lm	G
UF251E-10W/865	220 - 240V	10W	6500K	105° x 73°	760lm	F
UF252E-20W/830	220 - 240V	20W	3000K	105° x 73°	1520lm	F
UF252E-20W/840	220 - 240V	20W	4000K	105° x 73°	1570lm	F
UF252E-20W/865	220 - 240V	20W	6500K	105° x 73°	1615lm	F
UF252E-30W/830	220 - 240V	30W	3000K	105° x 73°	2350lm	F
UF252E-30W/840	220 - 240V	30W	4000K	105° x 73°	2420lm	F
UF252E-30W/865	220 - 240V	30W	6500K	105° x 73°	2500lm	F
UF253E-50W/830	220 - 240V	50W	3000K	105° x 73°	4000lm	F
UF253E-50W/840	220 - 240V	50W	4000K	105° x 73°	4250lm	F
UF253E-50W/865	220 - 240V	50W	6500K	105° x 73°	4500lm	F
UF254E-100W/830	220 - 240V	100W	3000K	105° x 73°	8200lm	F
UF254E-100W/840	220 - 240V	100W	4000K	105° x 73°	8350lm	F
UF254E-100W/865	220 - 240V	100W	6500K	105° x 73°	8500lm	F





LED Professional Floodlight FLS FLM FLL

Features

- Maximum 105W / 250W / 450W LED Floodlight Pro
- Maximum 140W / 420W / 730W LED Floodlight Plus
- Ultra-thin streamline housing design to minimize wind exposure surface
- Excellent thermal management by NTC overheat protection, available in Pro version
- Auto cut off mains by knife switch for safety maintenance, available in Pro version
- 3 dimming options: AstroDIM/ StepDIM/ MainsDIM
- 16 types of advance optical solutions in different applications
- Good color rendition, $Ra \geq 70$ / 80

Materials / Finish

- Body: Sturdy die cast aluminium housing with anodised steel bracket and extruded silicone rubber gasket
- Diffuser: Tempered glass
- Black color

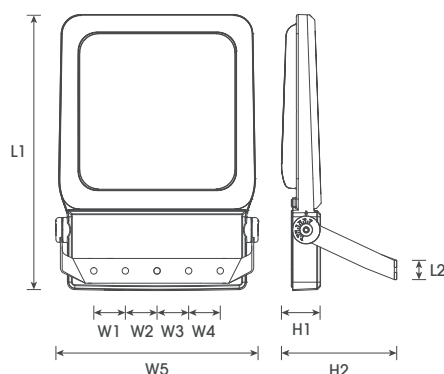
Installation / Mounting

- Suitable for mast mounting and wall mounting
- Field replaceable for LED driver

Standards

- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IK 08, IP 66

Dimming Options



(Unit : mm)	(L1)	(L2)	(W1)	(W2)	(W3)	(W4)	(W5)	(H1)	(H2)
FLS Pro	446	x 40	x -	x 51	x 51	x -	x 325	x 67	x 228
FLM Pro	622	x 50	x 64	x 51	x 51	x 64	x 453	x 74	x 293
FLL Pro	759	x 50	x -	x 80	x 80	x -	x 679	x 91	x 350
FLS Plus	446	x 40	x -	x 51	x 51	x -	x 325	x 67	x 228
FLM Plus	622	x 50	x 64	x 51	x 51	x 64	x 453	x 74	x 293
FLL Plus	759	x 50	x -	x 80	x 80	x -	x 679	x 91	x 350

Model Number Reference

FLSSE-105W-740-01-3

Fixture Type	Housing Size	Surge Protection	Driver	Wattage	CRI	CCT	Optics	Receptacle
FL = Floodlight	S = Small	S = 10kV	E = Non DIM	105W = 105W	7 = Ra 70	30 = 3000K	01 = 01	3 = 3 pins
	M = Medium	X = 3kV	A = AstroDIM	250W = 250W	8 = Ra 80	40 = 4000K	02 = 02	5 = 5 pins
	L = Large		S = StepDIM	450W = 450W		50 = 5000K	03 = 03	7 = 7 pins
			M = MainsDIM				04 = 04	X = No receptacle
			D = DALI				05 = 05	
							06 = 06	
							07 = 07	
							08 = 08	
							09 = 09	
							10 = 10	
							11 = 11	
							12 = 12	
							13 = 13	
							14 = 14	
							15 = 15	
							16 = 16	
								XX = No lens





LED Professional Floodlight FLS FLM FLL



FLS



FLM



FLL

Specifications

	FLS Pro	FLM Pro	FLL Pro
System W	Max 105W	Max 250W	Max 450W
Voltage		100 - 277V~ / 220 - 240V~	
Lumen @3000K, ta=30°C Ra 80	11600lm	27500lm	49500lm
Lumen @4000K, ta=30°C Ra 80	12100lm	28800lm	51800lm
Lumen @5000K, ta=30°C Ra 80	12600lm	30000lm	54000lm
Energy Efficiency Class @ 830/840/850	E / E / D	E / E / D	E / E / D
CRI		70 / 80	
Optics		01-16 / Flood	
Dimming Option		Non DIM / AstroDIM / StepDim / Mains Dim / DALI	
Receptacle		3 pins / 5 pins / 7 pins / No receptacle	
Surge Protection		3kV / 10kV	
Thermal Protection		NTC	
Auto Cut Off Mains		Yes	
Temperature Range		-25°C ~ +45°C	
Service Life 100,000h, L80/B10	ta ≤31°C	ta ≤32°C	ta ≤30°C
Service Life 85,000h, L80/B10	ta ≤34°C	ta ≤35°C	ta ≤33°C
Service Life 50,000h, L80/B10	ta ≤44°C	ta ≤45°C	ta ≤43°C
Inclination		±160°	
HID Floodlight Equivalent	Up to 250W HID	Up to 400W HID	Up to 1000W HID
Weight	8.39kg	15.58kg	31.16kg
Windage Area	0.145m²	0.282m²	0.515m²
Standard		IEC 60598-1, IEC 60598-2-5	

	FLS Plus	FLM Plus	FLL Plus
System W	Max 140W	Max 420W	Max 730W
Voltage		100 - 277V~ / 220 - 240V~	
Lumen @3000K, ta=30°C Ra 80	16800lm	50400lm	87600lm
Lumen @4000K, ta=30°C Ra 80	17500lm	52500lm	91250lm
Lumen @5000K, ta=30°C Ra 80	18200lm	54600lm	94900lm
Energy Efficiency Class @ 830/840/850	D	D	D
CRI		70 / 80	
Optics		IESNA Type I, II, III, IV, V	
Dimming Option		Non DIM / 1-10V	
Receptacle		3 pins / 5 pins / 7 pins / No receptacle	
Surge Protection		3kV / 6kV	
Temperature Range		-25°C ~ +39°C	
Service Life 50,000h, L80/B10	ta ≤34°C	ta ≤39°C	ta ≤35°C
Inclination		±160°	
HID Floodlight Equivalent	Up to 250W HID	Up to 600W HID	Up to 1000W HID
Weight	8.33kg	16.94kg	32.36kg
Windage Area	0.145m²	0.282m²	0.515m²
Standard		IEC 60598-1, IEC 60598-2-5	

EUROPE



OUTDOOR LUMINAIRE



LED Solar Floodlight UF171S-UF175S

Features

- Solar-powered and Eco-friendly with ZERO electricity cost
- Tempered glass solar panel and die-cast aluminium housing withstanding severe weather conditions
- Remote control to adjust operation time and brightness level
- Embedded with Daylight Sensor
- Plug and play power cord, easy installation
- Built-in Lithium iron phosphate battery, discharge time from 5 - 6 hours
- Good color rendition, $Ra \geq 80$

Materials / Finish

- Body: Sturdy die cast aluminium housing with anodised steel bracket and extruded silicone rubber gasket
- Diffuser: Toughened glass
- Grey color

Installation / Mounting

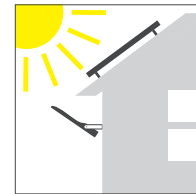
- Suitable for mast mounting and wall mounting

Standards

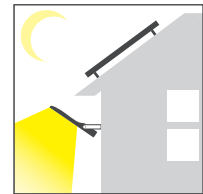
- Designed and manufactured to comply international standard EN60598
- Class I Electrical
- IP 65



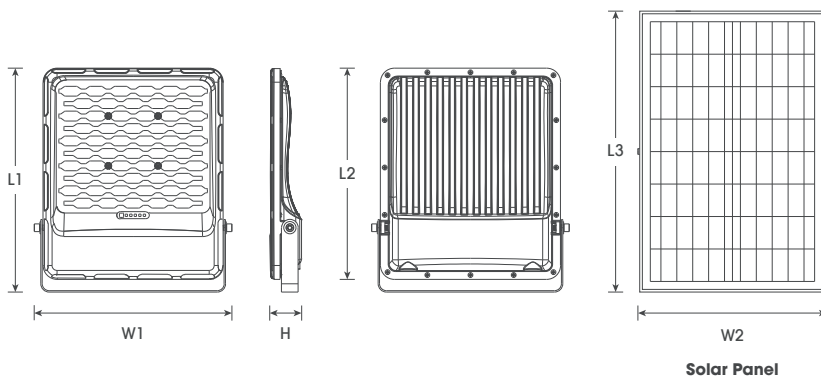
Daylight Harvesting Control



Solar recharge during daytime



Light up at night



(Unit : mm)	(L1)	(L2)	(W1)	(H)	Solar Panel Size (L3) (W2)	
UF171S	228 x	190 x	207 x	43	235 x	350
UF172S	274 x	231 x	251 x	43	290 x	350
UF173S	324 x	281 x	286 x	46	450 x	350
UF174S	369 x	326 x	326 x	51	600 x	350
UF175S	415 x	371 x	396 x	51	670 x	445



Model	Color Temp	Beam Angle	Lumen	Battery Capacity
UF171S-830	3000K	90°	300lm	5AH 3.2V
UF171S-840	4000K	90°	300lm	5AH 3.2V
UF171S-865	6500K	90°	300lm	5AH 3.2V
UF172S-830	3000K	90°	600lm	10AH 3.2V
UF172S-840	4000K	90°	600lm	10AH 3.2V
UF172S-865	6500K	90°	600lm	10AH 3.2V
UF173S-830	3000K	90°	890lm	15AH 3.2V
UF173S-840	4000K	90°	890lm	15AH 3.2V
UF173S-865	6500K	90°	890lm	15AH 3.2V
UF174S-830	3000K	90°	1440lm	25AH 3.2V
UF174S-840	4000K	90°	1440lm	25AH 3.2V
UF174S-865	6500K	90°	1440lm	25AH 3.2V
UF175S-830	3000K	90°	1700lm	30AH 3.2V
UF175S-840	4000K	90°	1700lm	30AH 3.2V
UF175S-865	6500K	90°	1700lm	30AH 3.2V



LED Wallwasher WW1 - WW4

Features

- 14W / 27W / 39W / 51W LED Linear Wallwasher
- 11 types advance optical solutions are available
- Individual SPD in series connection with L-L 10kV and L-Peak 20kV protection except 300mm length model with L-L 2kV
- Integral driver
- Optional glare shield
- Guarantees functionality in dusty and humid environment
- Good color rendition, $R_a \geq 80$

Materials / Finish

- Housing: Extruded aluminium, anodized in metallic grey
- End cap: Die cast aluminium, powder coated in grey
- Glass: Tempered glass

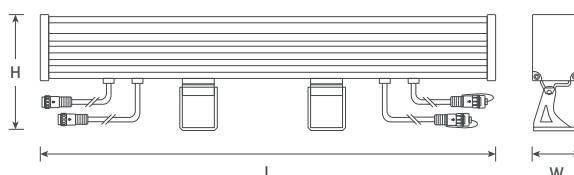
Installation / Mounting

- Quick installation with $\pm 90^\circ$ adjustable mounting bracket
- Integral gear unit allows quick and easy installation

Standards

- Designed and manufactured to comply with international standard EN60598
- Class I Electrical
- IP 66, IP 67

Dimming Options



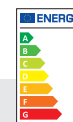
	(Unit : mm)	(L)	(W)	(H)	Max no. of fixture on 10A circuit breaker
WW1E	300 x 59 x 148				60
WW2E	600 x 59 x 148				40
WW3E	900 x 59 x 148				30
WW4E	1200 x 59 x 148				20

Model Number Reference

WW1E-14W/830-0010-G

Model	Length	Driver	Wattage	CRI	Color Temp	Optics	Glare Shield
WW	1 = 300mm	E = Non DIM	14W = 14W	8	30 = 3000K	0010 = 10	G = Glare shield
	2 = 600mm	V = 1-10V DIM	27W = 27W		40 = 4000K	0015 = 15	X = No shield
	3 = 900mm		39W = 39W		65 = 6500K	0025 = 25	
	4 = 1200mm		51W = 51W			0030 = 30	
						0040 = 40	
						0060 = 60	
						1030 = 10 x 30	
						1045 = 10 x 45	
						1065 = 10 x 65	
						1070 = 10 x 70	
						2065 = 20 x 65	

Model	Voltage	Luminaire Wattage	Color Temp	Luminaire Lumen	ENERGY STAR
WW1E-14W/830-XXXX-G	100 - 240V	14W	3000K	1155lm	F
WW1E-14W/840-XXXX-G	100 - 240V	14W	4000K	1220lm	F
WW1E-14W/865-XXXX-G	100 - 240V	14W	6500K	1290lm	F
WW2E-27W/830-XXXX-G	100 - 240V	27W	3000K	2230lm	F
WW2E-27W/840-XXXX-G	100 - 240V	27W	4000K	2360lm	F
WW2E-27W/865-XXXX-G	100 - 240V	27W	6500K	2495lm	F
WW3E-39W/830-XXXX-G	100 - 240V	39W	3000K	3320lm	F
WW3E-39W/840-XXXX-G	100 - 240V	39W	4000K	3405lm	F
WW3E-39W/865-XXXX-G	100 - 240V	39W	6500K	3600lm	F
WW4E-51W/830-XXXX-G	100 - 240V	51W	3000K	4210lm	F
WW4E-51W/840-XXXX-G	100 - 240V	51W	4000K	4450lm	F
WW4E-51W/865-XXXX-G	100 - 240V	51W	6500K	4705lm	F





LED Roadlight UR121E - UR124E

Features

- 40W / 50W / 60W / 80W / 100W / 120W / 150W / 200W LED Roadlight
- Wide beam angles for large open area coverage
- Asymmetric optic design with uniform distribution
- Integral driver
- Excellent heat dissipation and long life span for low maintenance cost

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Diffuser: Tempered glass
- Grey color

Installation / Mounting

- Mounting bracket for side entry or post top installation
- +/-15° adjustable for side entry installation
- +/-15° adjustable for post top installation
- Suitable for Ø60mm spigot

Standards

- Designed and manufactured to comply with international standard EN60598
- Class I Electrical
- IK 09, IP 66

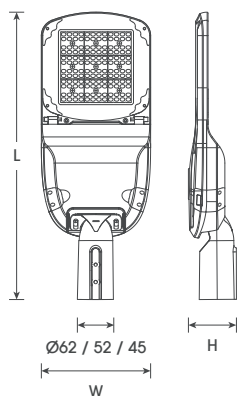
Optional receptacle and photocell



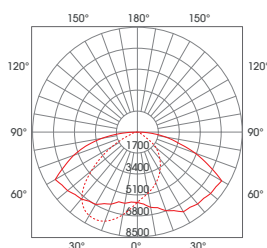
+/-15° adjustable for side entry installation



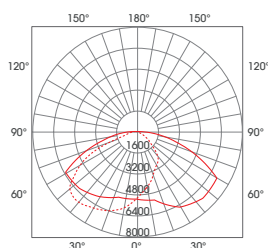
+/-15° adjustable for post top installation



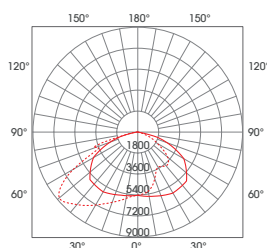
	(Unit : mm)	(L)	(W)	(H)	Weight
UR121E	555 x 200 x 105	555	200	105	3.35 kg
UR122E	615 x 233 x 100	615	233	100	3.77 kg
UR123E	672 x 260 x 100	672	260	100	4.75 kg
UR124E	725 x 310 x 113	725	310	113	5.52 kg



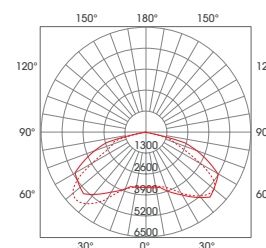
Lamp: LED 150W 3000K
TYPE II PC lens



Lamp: LED 150W 3000K
TYPE III PC lens



Lamp: LED 150W 3000K
TYPE IV PC lens



Lamp: LED 150W 3000K
TYPE V PC lens





LED Roadlight UR121E - UR124E



UR121E
40W/50W/60W

UR122E
80W/100W

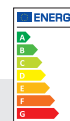
UR123E
120W/150W

UR124E
200W

EUROPE



OUTDOOR LUMINAIRE



Model	Voltage	Luminaire Wattage	Color Temp	Luminaire Lumen	
UR121E-40W/730	100 - 277V	40W	3000K	5320lm	D
UR121E-40W/740	100 - 277V	40W	4000K	5510lm	C
UR121E-40W/765	100 - 277V	40W	6500K	5700lm	C
UR121E-50W/730	100 - 277V	50W	3000K	6650lm	D
UR121E-50W/740	100 - 277V	50W	4000K	6890lm	C
UR121E-50W/765	100 - 277V	50W	6500K	7125lm	C
UR121E-60W/730	100 - 277V	60W	3000K	7980lm	D
UR121E-60W/740	100 - 277V	60W	4000K	8265lm	C
UR121E-60W/765	100 - 277V	60W	6500K	8550lm	C
UR122E-80W/730	100 - 277V	80W	3000K	10640lm	D
UR122E-80W/740	100 - 277V	80W	4000K	11020lm	C
UR122E-80W/765	100 - 277V	80W	6500K	11400lm	C
UR122E-100W/730	100 - 277V	100W	3000K	13300lm	D
UR122E-100W/740	100 - 277V	100W	4000K	13775lm	C
UR122E-100W/765	100 - 277V	100W	6500K	14250lm	C
UR123E-120W/730	100 - 277V	120W	3000K	15960lm	D
UR123E-120W/740	100 - 277V	120W	4000K	16530lm	C
UR123E-120W/765	100 - 277V	120W	6500K	17100lm	C
UR123E-150W/730	100 - 277V	150W	3000K	19950lm	D
UR123E-150W/740	100 - 277V	150W	4000K	20660lm	C
UR123E-150W/765	100 - 277V	150W	6500K	21375lm	C
UR124E-200W/730	100 - 277V	200W	3000K	26600lm	D
UR124E-200W/740	100 - 277V	200W	4000K	27550lm	C
UR124E-200W/765	100 - 277V	200W	6500K	28500lm	C



LED Roadlight UR131E - UR134E

Features

- 60W / 80W / 100W / 120W / 150W / 220W / 250W / 300W LED Roadlight
- Wide beam angles for large open area coverage
- Asymmetric optic design with uniform distribution
- 10kA/20kV surge protection
- Integral driver
- Excellent heat dissipation and long life span for low maintenance cost
- Good color rendition, Ra ≥ 70

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Diffuser: Tempered glass
- Grey color

Installation / Mounting

- Mounting bracket for side entry or post top installation
- +/-15° adjustable for side entry installation
- +/-15° adjustable for post top installation
- Suitable for Ø60mm spigot

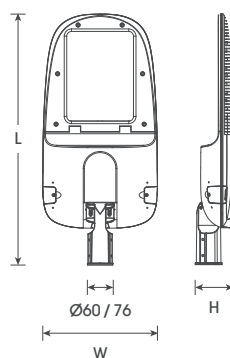
Standards

- Designed and manufactured to comply with international standard EN60598
- Class I Electrical
- IK 09, IP 66

Optional receptacle and photocell



+/-15° adjustable for
side entry installation



(Unit : mm)	(L)	(W)	(H)	Weight
UR131E	607	x 236	x 112	4 kg
UR132E	693	x 316	x 112	7 kg
UR133E	797	x 364	x 121	9.4 kg
UR134E	912	x 380	x 127	11.4 kg



Model	Voltage	Luminaire Wattage	Color Temp	Luminaire Lumen	
UR131E-60W/730	100 - 277V	60W	3000K	7410lm	D
UR131E-60W/740	100 - 277V	60W	4000K	7580lm	D
UR131E-60W/765	100 - 277V	60W	6500K	7695lm	D
UR132E-80W/730	100 - 277V	80W	3000K	9880lm	D
UR132E-80W/740	100 - 277V	80W	4000K	10110lm	D
UR132E-80W/765	100 - 277V	80W	6500K	10260lm	D
UR132E-100W/730	100 - 277V	100W	3000K	12350lm	D
UR132E-100W/740	100 - 277V	100W	4000K	12635lm	D
UR132E-100W/765	100 - 277V	100W	6500K	12825lm	D
UR132E-120W/730	100 - 277V	120W	3000K	14820lm	D
UR132E-120W/740	100 - 277V	120W	4000K	15160lm	D
UR132E-120W/765	100 - 277V	120W	6500K	15390lm	D
UR133E-150W/730	100 - 277V	150W	3000K	18525lm	D
UR133E-150W/740	100 - 277V	150W	4000K	18950lm	D
UR133E-150W/765	100 - 277V	150W	6500K	19240lm	D
UR133E-220W/730	100 - 277V	220W	3000K	27170lm	D
UR133E-220W/740	100 - 277V	220W	4000K	27800lm	D
UR133E-220W/765	100 - 277V	220W	6500K	28215lm	D
UR134E-250W/730	100 - 277V	250W	3000K	30875lm	D
UR134E-250W/740	100 - 277V	250W	4000K	31590lm	D
UR134E-250W/765	100 - 277V	250W	6500K	32060lm	D
UR134E-300W/730	100 - 277V	300W	3000K	37050lm	D
UR134E-300W/740	100 - 277V	300W	4000K	37905lm	D
UR134E-300W/765	100 - 277V	300W	6500K	38475lm	D





STRIPLIGHT



LED STRIPLIGHT 2016
P. 140



LED STRIPLIGHT 2016 SUPER SLIM
P. 141



LED STRIPLIGHT 2835
P. 142



LED STRIPLIGHT TUNABLE WHITE
P. 143



LED STRIPLIGHT RGB
P. 144



LED Striplight 2016

Features

- Extremely energy saving with low power consumption
- High brightness, multi-functional for linear decoration
- Long average life 30000 hours
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Dimmable as option
- High color rendition, $R_a \geq 90$

Materials / Finish

- Chips: SMD 2016

Installation / Mounting

- Easy to install with 3M adhesive tape, mounting brackets and profile

Standards

- EMC, RoHS
- Class III Electrical
- IP 20, IP 65, IP 67

Connectors



4 Pin
Quick Connector



Strip-to-Wire



Strip-to-Strip



'I' Type
Fast Plug



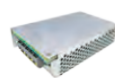
'T' Type
Fast Plug



Wire-to-Wire
Fast Plug



LED Driver Controllers



LED Driver



LED Dimmer
(With Remote
Control Device)

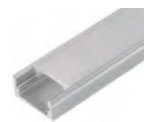


LED Manual
Controller

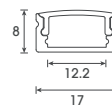


LED Remote
Controller

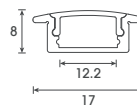
Profiles



Surface
Mounted

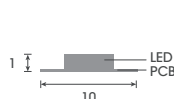


Recessed

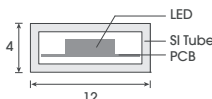


* Extra profiles and accessories need to order separately.

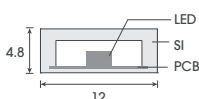
IP Structures



IP20



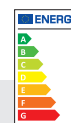
IP65



IP67-R

Model	Voltage	Wattage	Color Temp	PCB Width	Cutting Unit	No. of LEDs	Lumen	ENERGY STAR
LED 2016 9.36W 5-140 930	24V DC	9.36W/m	3000K	5mm	50mm/7LEDs	140 pcs/m	895lm/m	F
LED 2016 9.36W 5-140 940	24V DC	9.36W/m	4000K	5mm	50mm/7LEDs	140 pcs/m	950lm/m	F
LED 2016 9.36W 5-140 965	24V DC	9.36W/m	6500K	5mm	50mm/7LEDs	140 pcs/m	980lm/m	F
LED 2016 14.3W 5-210 930	24V DC	14.3W/m	3000K	5mm	33.3mm/7LEDs	210 pcs/m	1290lm/m	G
LED 2016 14.3W 5-210 940	24V DC	14.3W/m	4000K	5mm	33.3mm/7LEDs	210 pcs/m	1425lm/m	F
LED 2016 14.3W 5-210 965	24V DC	14.3W/m	6500K	5mm	33.3mm/7LEDs	210 pcs/m	1450lm/m	F

Package Content : 5m per reel





LED Striplight 2016 Super Slim

Features

- Extremely energy saving with low power consumption
- High brightness, multi-functional for linear decoration
- Long average life 30000 hours
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Dimmable as option
- High color rendition, Ra ≥ 90

Materials / Finish

- Chips: SMD 2016

Installation / Mounting

- Easy to install with 3M adhesive tape, mounting brackets and profile

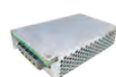
Standards

- EMC, RoHS
- Class III Electrical
- IP 20, IP 65, IP 67

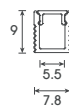
Connectors



LED Driver Controllers



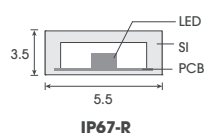
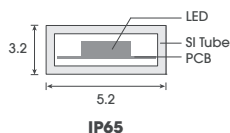
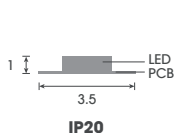
Profiles



Surface Mounted

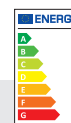
* Extra profiles and accessories need to order separately.

IP Structures



Model	Voltage	Wattage	Color Temp	PCB Width	Cutting Unit	No. of LEDs	Lumen	ENERGY STAR
LED 2016 9.36W 3.5-140 930	24V DC	9.36W/m	3000K	3.5mm	50mm/7LEDs	140 pcs/m	865lm/m	F
LED 2016 9.36W 3.5-140 940	24V DC	9.36W/m	4000K	3.5mm	50mm/7LEDs	140 pcs/m	940lm/m	F
LED 2016 9.36W 3.5-140 965	24V DC	9.36W/m	6500K	3.5mm	50mm/7LEDs	140 pcs/m	950lm/m	F

Package Content : 5m per reel





LED Striplight 2835

Features

- Extremely energy saving with low power consumption
- High brightness, multi-functional for linear decoration
- Long average life 30000 hours
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Dimmable as option
- Good color rendition, Ra ≥ 80

Materials / Finish

- Chips: SMD 2835

Installation / Mounting

- Easy to install with 3M adhesive tape, mounting brackets and profile

Standards

- EMC, RoHS
- Class III Electrical
- IP 20, IP 65, IP 67

Connectors



2 Pin Quick Connector



Strip-to-Wire



Strip-to-Strip

* 33.6W exclusive of 2 Pin Quick Connector, Strip-to-wire and Strip-to-Strip Connectors



'I' Type Fast Plug



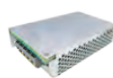
'T' Type Fast Plug



Wire-to-Wire Fast Plug



LED Driver Controllers



LED Driver



LED Dimmer (With Remote Control Device)

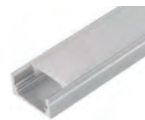


LED Manual Controller

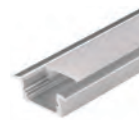
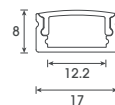


LED Remote Controller

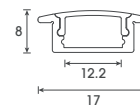
Profiles



Surface Mounted

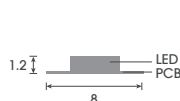


Recessed

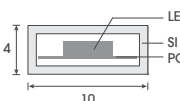


* Extra profiles and accessories need to order separately.

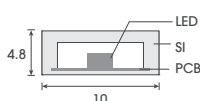
IP Structures



IP20



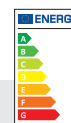
IP65



IP67-R

Model	Voltage	Wattage	Color Temp	PCB Width	Cutting Unit	No. of LEDs	Lumen	ENERGY
LED 2835 4.6W 8-70 830	24V DC	4.6W/m	3000K	8mm	100mm/7LEDs	70 pcs/m	555lm/m	E
LED 2835 4.6W 8-70 840	24V DC	4.6W/m	4000K	8mm	100mm/7LEDs	70 pcs/m	570lm/m	E
LED 2835 4.6W 8-70 865	24V DC	4.6W/m	6500K	8mm	100mm/7LEDs	70 pcs/m	580lm/m	E
LED 2835 7.2W 8-70 830	24V DC	7.2W/m	3000K	8mm	100mm/7LEDs	70 pcs/m	810lm/m	F
LED 2835 7.2W 8-70 840	24V DC	7.2W/m	4000K	8mm	100mm/7LEDs	70 pcs/m	830lm/m	F
LED 2835 7.2W 8-70 865	24V DC	7.2W/m	6500K	8mm	100mm/7LEDs	70 pcs/m	850lm/m	F
LED 2835 14.2W 8-210 830	24V DC	14.2W/m	3000K	8mm	33.3mm/7LEDs	210 pcs/m	1670lm/m	F
LED 2835 14.2W 8-210 840	24V DC	14.2W/m	4000K	8mm	33.3mm/7LEDs	210 pcs/m	1700lm/m	E
LED 2835 14.2W 8-210 865	24V DC	14.2W/m	6500K	8mm	33.3mm/7LEDs	210 pcs/m	1730lm/m	E

Package Content : 5m per reel





LED Striplight Tunable White

Features

- Extremely energy saving with low power consumption
- High brightness, multi-functional for linear decoration
- Long average life 30000 hours
- Tunable White from 2500K to 6000K
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Dimmable as option
- High color rendition, $R_a \geq 90$

Materials / Finish

- Chips: SMD 2016

Installation / Mounting

- Easy to install with 3M adhesive tape, mounting brackets and profile

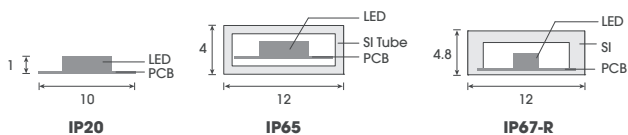
Standards

- EMC, RoHS
- Class III Electrical
- IP 20, IP 65, IP 67

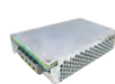
Connectors



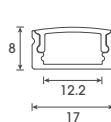
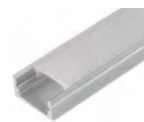
IP Structures



LED Driver Controllers



Profiles



Recessed

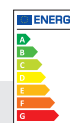
* Extra profiles and accessories need to order separately.

EUROPE

STRIPLIGHT

Model	Voltage	Wattage	Color Temp	PCB Width	Cutting Unit	No. of LEDs	Lumen	ENERGY
LED 2016 9.16W 10-120 TW	24V DC	9.16W/m	2500 - 6000K	10mm	100mm/12LEDs	120 pcs/m	720lm/m	G

Package Content : 5m per reel





LED Striplight RGB

Features

- Extremely energy saving with low power consumption
- High brightness, multi-functional for linear decoration
- Long average life 30000 hours
- Vivid and multiple color effects
- Low thermal output with no IR and harmful UV
- No mercury and hazardous substances
- Dimmable as option
- Good color rendition, $R_a \geq 80$

Materials / Finish

- Chips: SMD 5050

Installation / Mounting

- Easy to install with 3M adhesive tape, mounting brackets and profile

Standards

- EMC, RoHS
- Class III Electrical
- IP 20, IP 54, IP 65, IP 67, IP 68

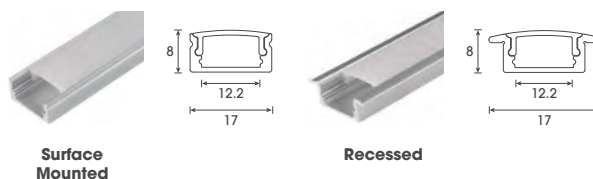
Connectors



LED Driver Controllers

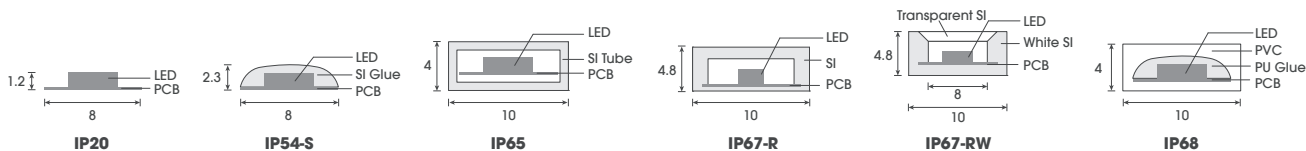


Profiles



* Extra profiles and accessories need to order separately.

IP Structures



Model	Voltage	Wattage	Color	PCB Width	Cutting Unit (12V / 24V)	No. of LEDs	Lumen
LED 5050 7.2W 10-30 RGB	12V DC	7.2W/m	RGB	10mm	100mm/3LEDs	30 pcs/m	300lm/m
LED 5050 14.4W 10-60 RGB	12V / 24V DC	14.4W/m	RGB	10mm	50mm/3LEDs / 100mm/6LEDs	60 pcs/m	600lm/m

Package Content : 5m per reel

Once the strip light is cut, IP68 is no longer guaranteed.



LOW VOLTAGE LAMP



LED CAPSULE
P. 146



LED A19
P. 147



LED FILAMENT
P. 148



LED MR8
P. 149



LED MR11
P. 150



LED MR16
P. 151



LED GU7
P. 152



LED PAR
P. 152



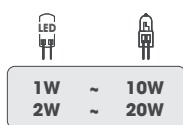
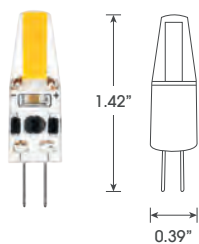


Features

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

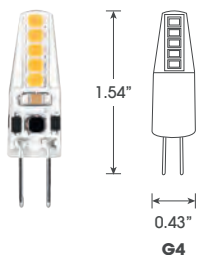
LED COB G4

Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA G4 COB-1W	12 - 24V AC / DC	1W	G4	3000K / 4000K / 6500K	100lm / 103lm / 105lm
LED NA G4 COB-2W	12 - 24V AC / DC	2W	G4	3000K / 4000K / 6500K	160lm / 165lm / 170lm

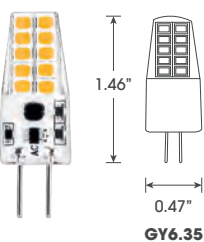
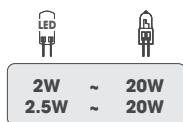


LED G4/GY6.35

Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA G4 2W	12 - 24V AC / DC	2W	G4	3000K / 4000K / 6500K	220lm / 230lm / 235lm
LED NA G4 2.5W	12 - 24V AC / DC	2.5W	G4	3000K / 4000K / 6500K	260lm / 270lm / 280lm
LED NA GY6.35 2.5W	12 - 24V AC / DC	2.5W	GY6.35	3000K / 4000K / 6500K	260lm / 270lm / 280lm



G4



GY6.35

NORTH AMERICA

LOW VOLTAGE LAMP



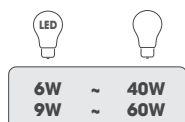
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional incandescent light source in traffic signals, EM lighting and outdoor lighting with 25 times longer life
- Extra low voltage (ELV) safe against electric shock, especially in damp locations

Thermal Plastic LED A19 12V/24V



Model	Voltage	Wattage	Base	Color Temp	Lumen		
					3000K	4000K	6500K
LED NA TP A19 6W	12V AC / DC	6W	E26	3000K / 4000K / 6500K	470lm	480lm	490lm
LED NA TP A19 9W	12V AC / DC	9W	E26	3000K / 4000K / 6500K	800lm	825lm	850lm
LED NA TP A19 6W	24V AC / DC	6W	E26	3000K / 4000K / 6500K	470lm	480lm	490lm
LED NA TP A19 9W	24V AC / DC	9W	E26	3000K / 4000K / 6500K	800lm	825lm	850lm

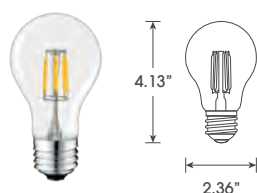




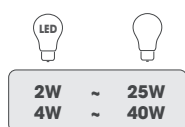
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional incandescent light source in traffic signals, EM lighting and outdoor lighting with 25 times longer life
- Extra low voltage (ELV) safe against electric shock, especially in damp locations

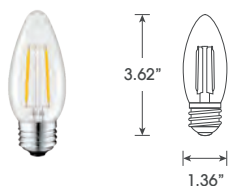
Filament-LED A19 12V/24V



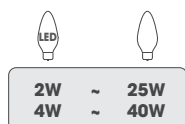
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA A19 FIL-2W-G CL	12V AC / DC	2W	E26	2700K	200lm
LED NA A19 FIL-4W-G CL	24V AC / DC	4W	E26	2700K	400lm



Filament-LED B10 12V/24V



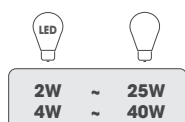
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA B10 FIL-2W-G CL	12V AC / DC	2W	E12	2700K	200lm
LED NA B10 FIL-4W-G CL	12V AC / DC	4W	E26	2700K	400lm
LED NA B10 FIL-2W-G CL	24V AC / DC	2W	E12	2700K	200lm
LED NA B10 FIL-4W-G CL	24V AC / DC	4W	E26	2700K	400lm



Filament-LED S14 12V/24V



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA S14 FIL-2W-G CL	12V AC / DC	2W	E26	2700K	200lm
LED NA S14 FIL-4W-G CL	12V AC / DC	4W	E26	2700K	400lm
LED NA S14 FIL-2W-G CL	24V AC / DC	2W	E26	2700K	200lm
LED NA S14 FIL-4W-G CL	24V AC / DC	4W	E26	2700K	400lm

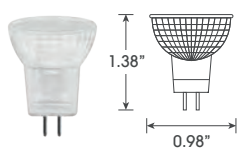




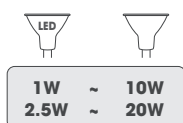
Features

- Extremely energy saving with low power consumption
- Aesthetic reflector optics
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional MR8 with identical size
- Broad compatibility with magnetic and 6V / 12V AC electronic transformers
- At least 20% loading of power rating is required for 6V / 12V AC electronic transformers

Glass LED MR8



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA G MR8 1W	6V AC / DC	1W	GZ4	40°	3000K / 4000K / 6500K	85lm / 90lm / 95lm
LED NA G MR8 2.5W	12V AC / DC	2.5W	GZ4	40°	3000K / 4000K / 6500K	205lm / 210lm / 215lm

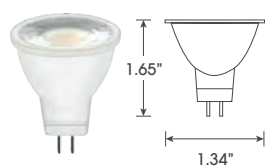




Features

- Extremely energy saving with low power consumption
- Aesthetic reflector optics
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional MR11 with identical size
- Broad compatibility with magnetic and 12V AC electronic transformers
- At least 20% loading of power rating is required for 12V AC electronic transformers

Thermal Plastic LED MR11

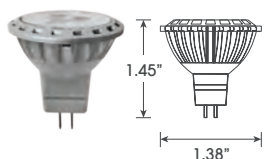


Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA TP MR11 4W	12V AC / DC	4W	GU4	38° / 60°	3000K / 4000K / 6500K	280lm / 290lm / 300lm

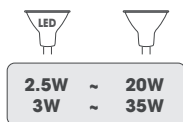


4W ~ 35W

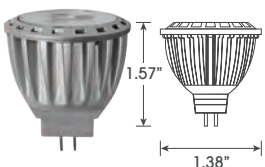
LED MR11



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA MR11 2.5W	12V AC / DC	2.5W	GU4	30°	3000K / 4000K / 6500K	220lm / 235lm / 250lm
LED NA MR11 3W	12V AC / DC	3W	GU4	30°	3000K / 4000K / 6500K	320lm / 335lm / 350lm



2.5W ~ 20W
3W ~ 35W



NORTH AMERICA



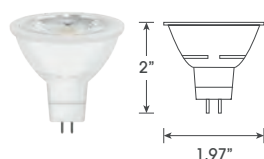
LOW VOLTAGE LAMP



Features

- Extremely energy saving with low power consumption
- Aesthetic reflector optics
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional MR16 with identical size
- Broad compatibility with magnetic and 12V AC electronic transformers

Thermal Plastic LED MR16

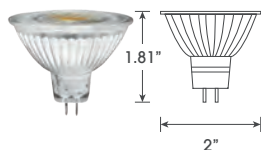


Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA TP MR16 5W	12V AC / DC	5W	GU5.3	38°	3000K / 4000K / 6500K	380lm / 390lm / 400lm
LED NA TP MR16 6W	12V AC / DC	6W	GU5.3	38°	3000K / 4000K / 6500K	500lm / 510lm / 520lm



5W	~	35W
6W	~	50W

Glass LED MR16



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen 3000K / 4000K / 6500K
LED NA G MR16 3W	12V AC / DC	3W	GU5.3	30° / 60°	3000K / 4000K / 6500K	240lm / 245lm / 250lm
LED NA G MR16 5W	12V AC / DC	5W	GU5.3	30° / 60°	3000K / 4000K / 6500K	420lm / 435lm / 450lm



3W	~	20W
5W	~	35W

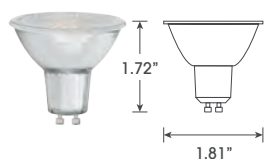




Features

- Extremely energy saving with low power consumption
- Broad compatibility with magnetic and 12V electronic transformers
- Good color rendition, $R_a \geq 80$
- Ideal retrofit solution for GU7 halogen lighting
- Same glass body finishing and identical size
- No mercury and hazardous substances

Glass LED GU7



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA G GU7 4W	12V AC / DC	4W	GU7	36°	3000K	300lm



LED PAR

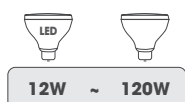


Features

- Extremely energy saving with low power consumption
- Full glass reflector
- Good color rendition, $R_a \geq 80$
- Frontal lens in total silicon sealing
- Suitable for pool / fountain and outdoor lighting with waterproof fixtures

Glass LED PAR38 12-24V

Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA G PAR38 12W	12 - 24V AC / DC	12W	E26	60°	3000K / 4000K / 6500K	3000K / 4000K / 6500K 980lm / 1005lm / 1030lm





LINE VOLTAGE LAMP



LED FILAMENT
P. 154 - 157



LED DECOR FILAMENT
P. 158 - 161



LED DECOR COLOR
P. 162



LED THERMAL PLASTIC BULB
P. 163 - 164



LED G9
P. 165



LED GU10
P. 166



LED BR30
P. 167



LED PAR
P. 168

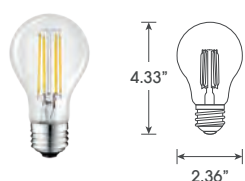




Features

- Extremely energy saving with low power consumption
- Overall light distribution
- High color rendition, Ra ≥ 90
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- CCT 4000K is also available

Filament-LED A19



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA A19 FIL-5W-G CL DIM	120V	5W	E26	2700K	450lm
LED NA A19 FIL-8W-G CL DIM	120V	8W	E26	2700K	800lm
LED NA A19 FIL-11W-G CL DIM	120V	11W	E26	2700K	1100lm

LED	~	40W
5W	~	60W
8W	~	75W
11W	~	

Filament-LED A19 Opal



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA A19 FIL-5W-G OP DIM	120V	5W	E26	2700K	430lm
LED NA A19 FIL-8W-G OP DIM	120V	8W	E26	2700K	750lm
LED NA A19 FIL-11W-G OP DIM	120V	11W	E26	2700K	1050lm

LED	~	40W
5W	~	60W
8W	~	75W
11W	~	



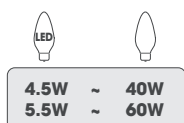
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- High color rendition, $Ra \geq 90$
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- CCT 4000K is also available

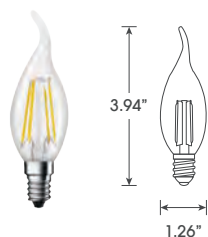
Filament-LED B11



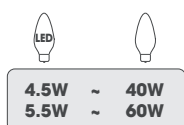
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA B11 FIL-4.5W-G CL DIM	120V	4.5W	E12 / E26	2700K	360lm
LED NA B11 FIL-5.5W-G CL DIM	120V	5.5W	E12 / E26	2700K	500lm



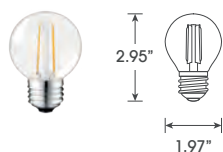
Filament-LED CA10



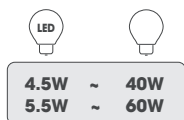
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA CA10 FIL-4.5W-G CL DIM	120V	4.5W	E12 / E26	2700K	360lm
LED NA CA10 FIL-5.5W-G CL DIM	120V	5.5W	E12 / E26	2700K	500lm



Filament-LED G16.5



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA G16.5 FIL-4.5W-G CL DIM	120V	4.5W	E26	2700K	360lm
LED NA G16.5 FIL-5.5W-G CL DIM	120V	5.5W	E26	2700K	500lm





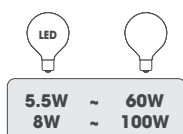
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- CCT 4000K is also available

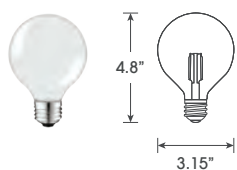
Filament-LED G25



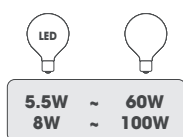
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA G25 L-FIL-5.5W-G CL DIM	120V	5.5W	E26	2700K	500lm
LED NA G25 L-FIL-8W-G CL DIM	120V	8W	E26	2700K	800lm



Filament-LED G25 Opal



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA G25 L-FIL-5.5W-G OP DIM	120V	5.5W	E26	2700K	470lm
LED NA G25 L-FIL-8W-G OP DIM	120V	8W	E26	2700K	750lm

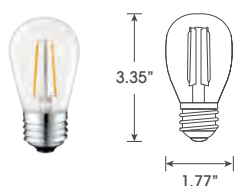




Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- CCT 4000K is also available

Filament-LED S14



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA S14 FIL-2W-G CL DIM	120V	2W	E26	2700K	170lm
LED NA S14 FIL-4W-G CL DIM	120V	4W	E26	2700K	350lm

LED	~	15W
2W	~	25W
4W	~	

Filament-LED ST18/ST20



ST18

Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA ST18 L-FIL-4W-G CL DIM	120V	4W	E26	2100K	300lm
LED NA ST18 L-FIL-7W-G CL DIM	120V	7W	E26	2100K	600lm
LED NA ST20 L-FIL-4W-G CL DIM	120V	4W	E26	2100K	300lm
LED NA ST20 L-FIL-7W-G CL DIM	120V	7W	E26	2100K	600lm

LED	~	40W
4W	~	60W
7W	~	



ST20

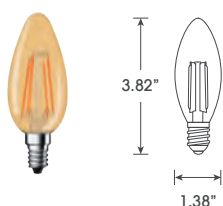




Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, $R_a \geq 80$
- Filament-like LED gives perfect light effect in all directions
- Special Warm Tone for decorative purposes

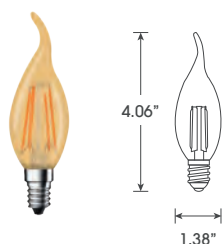
Filament-LED B11 Amber



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA B11 FIL-4W-G WT DIM	120V	4W	E12	2400K	400lm
LED NA B11 FIL-5.5W-G WT DIM	120V	5.5W	E12	2400K	550lm

LED	~	40W
4W	~	60W
5.5W	~	

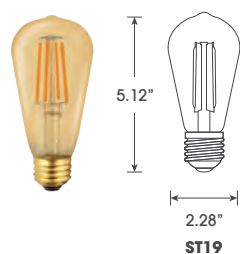
Filament-LED CA11 Amber



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA CA11 FIL-4W-G WT DIM	120V	4W	E12	2400K	400lm
LED NA CA11 FIL-5.5W-G WT DIM	120V	5.5W	E12	2400K	550lm

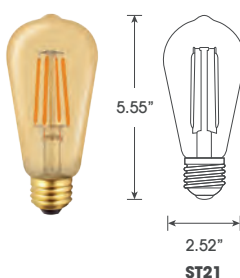
LED	~	40W
4W	~	60W
5.5W	~	

Filament-LED ST19/ST21 Amber



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA ST19 L-FIL-4W-G WT DIM	120V	4W	E26	2400K	450lm
LED NA ST19 L-FIL-7W-G WT DIM	120V	7W	E26	2400K	800lm
LED NA ST21 L-FIL-4W-G WT DIM	120V	4W	E26	2400K	450lm
LED NA ST21 L-FIL-7W-G WT DIM	120V	7W	E26	2400K	800lm

LED	~	40W
4W	~	60W
7W	~	

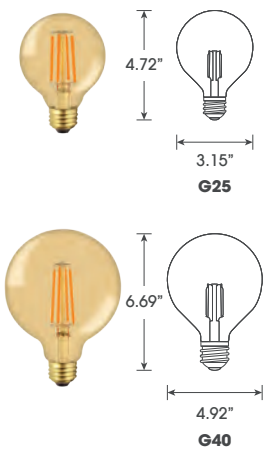




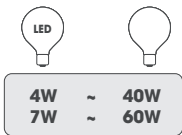
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, Ra ≥80
- Filament-like LED gives perfect light effect in all directions
- Special Warm Tone for decorative purposes

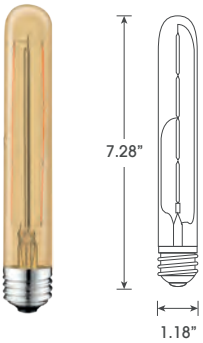
Filament-LED Globe Amber



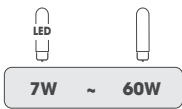
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA G25 FIL-4W-G WT DIM	120V	4W	E26	2400K	400lm
LED NA G25 FIL-7W-G WT DIM	120V	7W	E26	2400K	750lm
LED NA G40 FIL-4W-G WT DIM	120V	4W	E26	2400K	400lm
LED NA G40 FIL-7W-G WT DIM	120V	7W	E26	2400K	750lm



Filament-LED T10L Amber



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA T10L FIL-7W-G WT DIM	120V	7W	E26	2400K	780lm





Spiral Filament-LED B11/CA11/A19/ST19/G25 Clear

Features

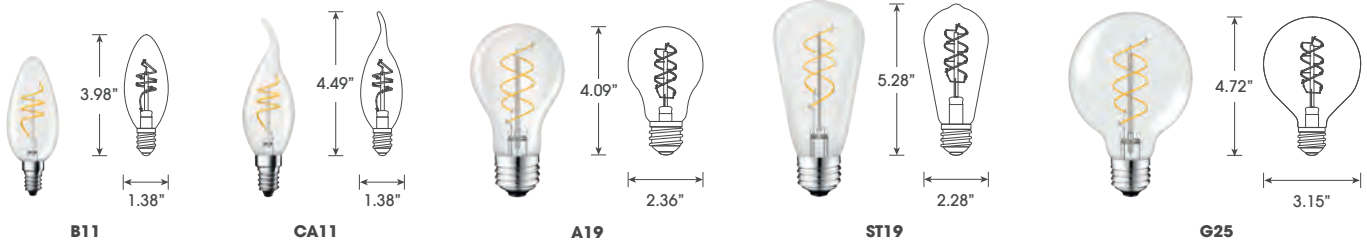
- Extremely energy saving with low power consumption
- Spiral filament-like LED gives aesthetic and attractive light effect
- High CRI R9 >50 renders vivid colors of objects for true color viewing
- Quality grade spiral filament LED with high efficacy up to 104lm/W
- Dimmable with most wall/in-line TRIAC dimming switches
- Flicker free
- Overall light distribution
- CCT 2200K also available
- High color rendition, Ra ≥ 90

Ra ≥ 90

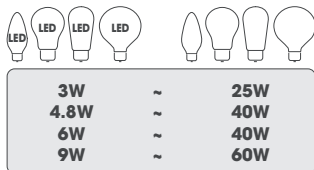
104lm/W

PATENT

FLICKER FREE



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA B11 S-FIL-3W-G CL DIM	120V	3W	E12	2700K	250lm
LED NA B11 S-FIL-4.8W-G CL DIM	120V	4.8W	E12	2700K	500lm
LED NA CA11 S-FIL-3W-G CL DIM	120V	3W	E12	2700K	250lm
LED NA CA11 S-FIL-4.8W-G CL DIM	120V	4.8W	E12	2700K	500lm
LED NA A19 S-FIL-6W-G CL DIM	120V	6W	E26	2700K	500lm
LED NA A19 S-FIL-9W-G CL DIM	120V	9W	E26	2700K	800lm
LED NA ST19 S-FIL-6W-G CL DIM	120V	6W	E26	2700K	500lm
LED NA ST19 S-FIL-9W-G CL DIM	120V	9W	E26	2700K	800lm
LED NA G25 S-FIL-6W-G CL DIM	120V	6W	E26	2700K	500lm
LED NA G25 S-FIL-9W-G CL DIM	120V	9W	E26	2700K	800lm





Spiral Filament-LED B11/CA11/A19/ST19/G25 Amber

Features

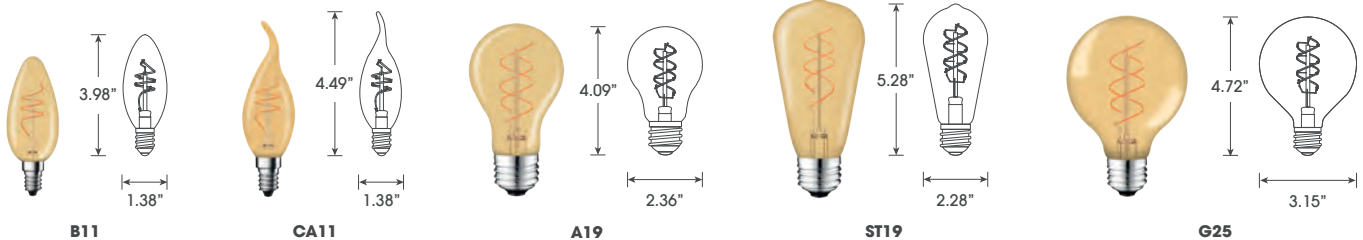
- Extremely energy saving with low power consumption
- Spiral filament-like LED gives aesthetic and attractive light effect
- High CRI R9 >50 renders vivid colors of objects for true color viewing
- Quality grade spiral filament LED with high efficacy up to 104lm/W
- Dimmable with most wall/in-line TRIAC dimming switches
- Special Warm Tone for decorative purposes
- Flicker free
- Overall light distribution
- High color rendition, Ra ≥ 90

Ra ≥ 90

104lm/W

PATENT

FLICKER FREE



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA B11 S-FIL-3W-G WT DIM	120V	3W	E12	2200K	250lm
LED NA B11 S-FIL-4.8W-G WT DIM	120V	4.8W	E12	2200K	500lm
LED NA CA11 S-FIL-3W-G WT DIM	120V	3W	E12	2200K	250lm
LED NA CA11 S-FIL-4.8W-G WT DIM	120V	4.8W	E12	2200K	500lm
LED NA A19 S-FIL-6W-G WT DIM	120V	6W	E26	2200K	500lm
LED NA A19 S-FIL-9W-G WT DIM	120V	9W	E26	2200K	800lm
LED NA ST19 S-FIL-6W-G WT DIM	120V	6W	E26	2200K	500lm
LED NA ST19 S-FIL-9W-G WT DIM	120V	9W	E26	2200K	800lm
LED NA G25 S-FIL-6W-G WT DIM	120V	6W	E26	2200K	500lm
LED NA G25 S-FIL-9W-G WT DIM	120V	9W	E26	2200K	800lm

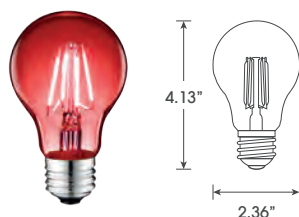
3W	~	25W
4.8W	~	40W
6W	~	40W
9W	~	60W



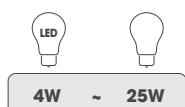
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Full glass version ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Color filament gives vivid light for decorative purposes

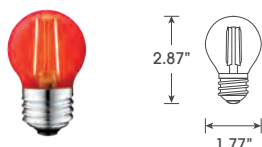
Color Filament-LED A19



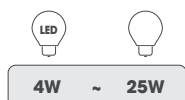
Model	Voltage	Wattage	Base	Color
LED NA A19 RD-FIL-4W-G CL	120V	4W	E26	Red
LED NA A19 OG-FIL-4W-G CL	120V	4W	E26	Orange
LED NA A19 YL-FIL-4W-G CL	120V	4W	E26	Yellow
LED NA A19 GR-FIL-4W-G CL	120V	4W	E26	Green
LED NA A19 BL-FIL-4W-G CL	120V	4W	E26	Blue
LED NA A19 PP-FIL-4W-G CL	120V	4W	E26	Purple
LED NA A19 PK-FIL-4W-G CL	120V	4W	E26	Pink



Color Filament-LED G14



Model	Voltage	Wattage	Base	Color
LED NA G14 RD-FIL-4W-G CL	120V	4W	E26	Red
LED NA G14 OG-FIL-4W-G CL	120V	4W	E26	Orange
LED NA G14 YL-FIL-4W-G CL	120V	4W	E26	Yellow
LED NA G14 GR-FIL-4W-G CL	120V	4W	E26	Green
LED NA G14 BL-FIL-4W-G CL	120V	4W	E26	Blue
LED NA G14 PP-FIL-4W-G CL	120V	4W	E26	Purple
LED NA G14 PK-FIL-4W-G CL	120V	4W	E26	Pink

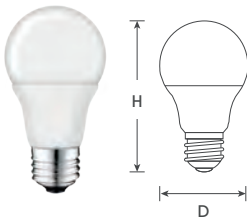




Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Energy star for dimmable version only

Thermal Plastic LED A19



(Unit : inch)	(D)	(H)
5.5W	Ø2.36" x	4.29"
6W	Ø2.36" x	4.29"
9W	Ø2.36" x	4.41"
9.5W	Ø2.36" x	4.41"
12W	Ø2.36" x	4.41"
14W	Ø2.36" x	4.57"

Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA TP A19 6W	120V	6W	E26	3000K	450lm
LED NA TP A19 9W	120V	9W	E26	3000K	800lm
LED NA TP A19 12W	120V	12W	E26	3000K	1050lm
LED NA TP A19 14W	120V	14W	E26	3000K	1500lm

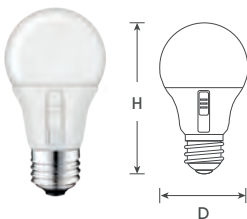


Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA TP A19 5.5W DIM	120V	5.5W	E26	3000K	450lm
LED NA TP A19 9.5W DIM	120V	9.5W	E26	3000K	800lm
LED NA TP A19 12W DIM	120V	12W	E26	3000K	1100lm
LED NA TP A19 14W DIM	120V	14W	E26	3000K	1600lm

LED	5.5W ~ 40W
	6W ~ 40W
	9W ~ 60W
	9.5W ~ 60W

12W ~ 75W
14W ~ 100W

Thermal Plastic LED A19 3CCT



(Unit : inch)	(D)	(H)
6W	Ø2.36" x	4.29"
9W	Ø2.36" x	4.41"
12W	Ø2.36" x	4.41"
14W	Ø2.36" x	4.57"

Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA TP A19 6W 3CCT	120V	6W	E26	3000K - 4000K - 5000K	470lm
LED NA TP A19 9W 3CCT	120V	9W	E26	3000K - 4000K - 5000K	800lm
LED NA TP A19 12W 3CCT	120V	12W	E26	3000K - 4000K - 5000K	1100lm
LED NA TP A19 14W 3CCT	120V	14W	E26	3000K - 4000K - 5000K	1500lm

LED	6W ~ 40W
	9W ~ 60W
	12W ~ 75W
	14W ~ 100W

Selectable CCT via dip-switch
Inventory cost saving
Ra 90

NORTH AMERICA

LINE VOLTAGE LAMP



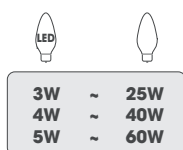
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, Ra ≥ 80
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions

Thermal Plastic LED B11



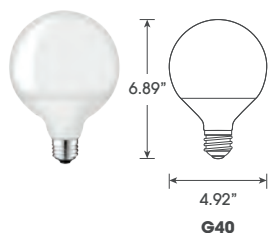
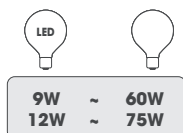
Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA TP B11 3W	120V	3W	E12 / E26	3000K	250lm
LED NA TP B11 4W	120V	4W	E12 / E26	3000K	350lm
LED NA TP B11 5W	120V	5W	E12 / E26	3000K	470lm



Thermal Plastic LED Globe



Model	Voltage	Wattage	Base	Color Temp	Lumen
LED NA TP G30 9W	120V	9W	E26	3000K	800lm
LED NA TP G40 12W	120V	12W	E26	3000K	1100lm

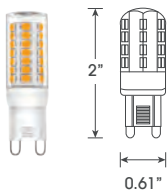




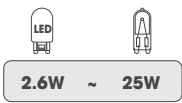
Features

- Extremely energy saving with low power consumption
- Overall light distribution
- Good color rendition, Ra ≥80
- Ideal retrofit of traditional G9 with same appearance / performance / dimensions
- Lamp weight <12g comply with IEC G9 requirement
- Universal burning position

LED G9



Model	Voltage	Wattage	Base	Color Temp	Lumen 3000K / 6000K
LED NA G9 2.6W DIM	120V	2.6W	G9	3000K / 6000K	260lm / 275lm

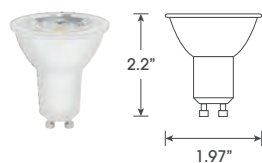




Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Aesthetic reflector optics

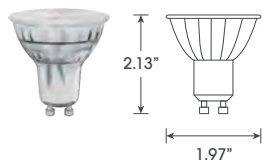
Thermal Plastic LED GU10



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA TP GU10 4W DIM	120V	4W	GU10	38°	3000K	280lm
LED NA TP GU10 5.5W DIM	120V	5.5W	GU10	38°	3000K	400lm
LED NA TP GU10 6.5W DIM	120V	6.5W	GU10	38°	3000K	500lm

LED	LED
4W ~ 35W	
5.5W ~ 50W	
6.5W ~ 60W	

Glass LED GU10



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA G GU10 4.5W DIM	120V	4.5W	GU10	38°	3000K	400lm

LED	LED
4.5W ~ 35W	



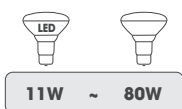
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Aesthetic reflector optics

Thermal Plastic LED BR30



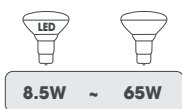
Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA TP BR30 11W DIM	120V	11W	E26	40°	3000K	1000lm



Thermal Plastic LED BR30 5CCT



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA TP BR30 8.5W 5CCT DIM	120V	8.5W	E26	40°	2700K - 3000K - 3500K - 4000K - 5000K	700lm



Selectable CCT via dip-switch
Inventory cost saving
Ra 90

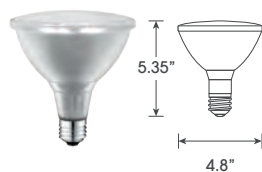




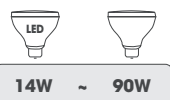
Features

- Extremely energy saving with low power consumption
- Excellent thermal conductivity
- Good color rendition, $R_a \geq 80$
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- Aesthetic reflector optics

Glass LED PAR38



Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA G PAR38 14W DIM	120V	14W	E26	60°	3000K	1100lm



Frontal lens in total silicon sealing, suitable for outdoor use condition

Thermal Plastic LED PAR20/PAR30/PAR38



PAR20



PAR30S

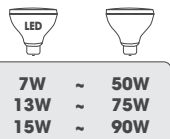


PAR30L



PAR38

Model	Voltage	Wattage	Base	Beam Angle	Color Temp	Lumen
LED NA TP PAR20 7W DIM	120V	7W	E26	40°	3000K	550lm
LED NA TP PAR30S 13W DIM	120V	13W	E26	40°	3000K	1100lm
LED NA TP PAR30L 13W DIM	120V	13W	E26	40°	3000K	1100lm
LED NA TP PAR38 15W DIM	120V	15W	E26	40°	3000K	1500lm





TUBE



LED T8 UL Type A
P. 170



LED T8 3CCT UL Type A
P. 171



LED T8 UL Type B
P. 172



LED T8 3CCT UL Type B
P. 173



LED T8 UL Type A + B
P. 174



LED T8 3CCT UL Type A + B
P. 175



LED T8 UL Type A

Features

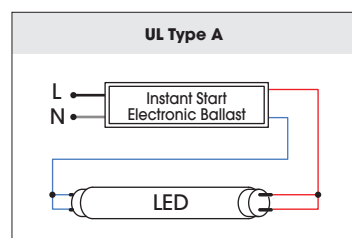
- Energy saving with low power consumption
- Perfect retrofit fluorescent T8 in Instant Start circuit
- Compatible with most common Instant Start electronic ballasts
(Refer to the ballast compatibility list)
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 120Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥ 80



G13 base



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length MOL	Efficacy	Lumen
LED F9T8/830/G/NA/IS/24	120V	9W	3000K	220°	UL Type A	23.7"	111lm/W	1000lm
LED F9T8/835/G/NA/IS/24	120V	9W	3500K	220°	UL Type A	23.7"	111lm/W	1000lm
LED F9T8/840/G/NA/IS/24	120V	9W	4000K	220°	UL Type A	23.7"	122lm/W	1100lm
LED F9T8/850/G/NA/IS/24	120V	9W	5000K	220°	UL Type A	23.7"	122lm/W	1100lm
LED F13T8/830/G/NA/IS/36	120V	13W	3000K	220°	UL Type A	35.4"	85lm/W	1100lm
LED F13T8/835/G/NA/IS/36	120V	13W	3500K	220°	UL Type A	35.4"	85lm/W	1100lm
LED F13T8/840/G/NA/IS/36	120V	13W	4000K	220°	UL Type A	35.4"	92lm/W	1200lm
LED F13T8/850/G/NA/IS/36	120V	13W	5000K	220°	UL Type A	35.4"	92lm/W	1200lm
LED F18T8/830/G/NA/IS/48	120V	18W	3000K	220°	UL Type A	47.7"	111lm/W	2000lm
LED F18T8/835/G/NA/IS/48	120V	18W	3500K	220°	UL Type A	47.7"	111lm/W	2000lm
LED F18T8/840/G/NA/IS/48	120V	18W	4000K	220°	UL Type A	47.7"	122lm/W	2200lm
LED F18T8/850/G/NA/IS/48	120V	18W	5000K	220°	UL Type A	47.7"	122lm/W	2000lm

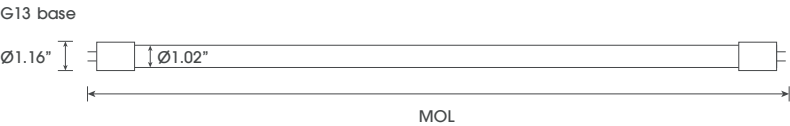




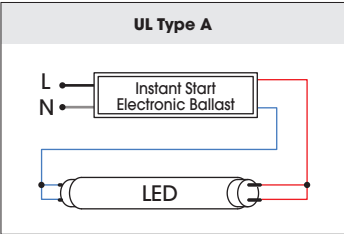
LED T8 3CCT UL Type A

Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent T8 in Instant Start circuit
- Compatible with most common Instant Start electronic ballasts (Refer to the ballast compatibility list)
- Selectable CCT via dip-switch
- Inventory cost saving
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 120Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥80



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length MOL	Efficacy	Lumen
LED F15T8/8XX/G/NA/IS/48/3CCT	120V	15W	3000K - 4000K - 5000K	220°	UL Type A	47.7"	120lm/W	1800lm

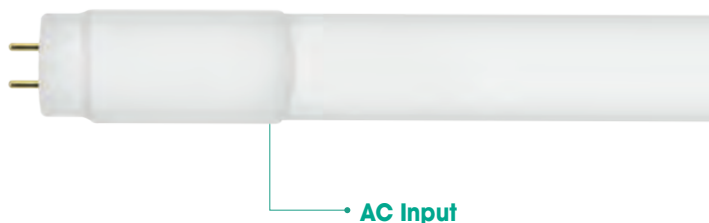




LED T8 UL Type B

Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent T8 with AC connection
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 120Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥ 80



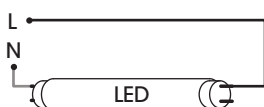
AC Input

G13 base



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length MOL	Efficacy	Lumen
LED F9T8/830/G/NA/AC/24	120 - 277V	9W	3000K	220°	UL Type B	23.7"	111lm/W	1000lm
LED F9T8/835/G/NA/AC/24	120 - 277V	9W	3500K	220°	UL Type B	23.7"	111lm/W	1000lm
LED F9T8/840/G/NA/AC/24	120 - 277V	9W	4000K	220°	UL Type B	23.7"	122lm/W	1100lm
LED F9T8/850/G/NA/AC/24	120 - 277V	9W	5000K	220°	UL Type B	23.7"	122lm/W	1100lm
LED F14T8/830/G/NA/AC/48	120 - 277V	14W	3000K	220°	UL Type B	47.7"	114lm/W	1600lm
LED F14T8/835/G/NA/AC/48	120 - 277V	14W	3500K	220°	UL Type B	47.7"	114lm/W	1600lm
LED F14T8/840/G/NA/AC/48	120 - 277V	14W	4000K	220°	UL Type B	47.7"	125lm/W	1750lm
LED F14T8/850/G/NA/AC/48	120 - 277V	14W	5000K	220°	UL Type B	47.7"	125lm/W	1750lm
LED F17T8/830/G/NA/AC/48	120 - 277V	17W	3000K	220°	UL Type B	47.7"	112lm/W	1900lm
LED F17T8/835/G/NA/AC/48	120 - 277V	17W	3500K	220°	UL Type B	47.7"	112lm/W	1900lm
LED F17T8/840/G/NA/AC/48	120 - 277V	17W	4000K	220°	UL Type B	47.7"	124lm/W	2100lm
LED F17T8/850/G/NA/AC/48	120 - 277V	17W	5000K	220°	UL Type B	47.7"	124lm/W	2100lm

UL Type B

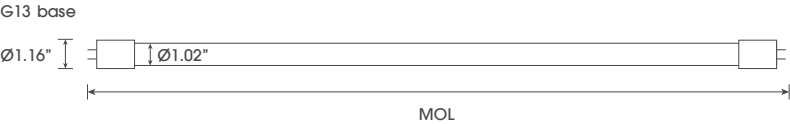
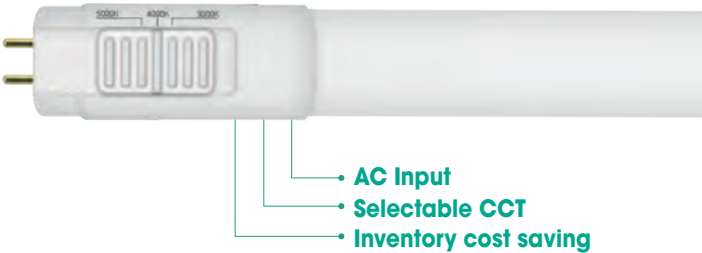




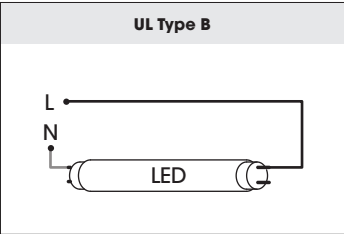
LED T8 3CCT UL Type B

Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent T8 with AC connection
- Selectable CCT via dip-switch
- Inventory cost saving
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 120Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥80



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length MOL	Efficacy	Lumen
LED F14T8/8XX/G/NA/AC/48/3CCT	120 - 277V	14W	3000K - 4000K - 5000K	220°	UL Type B	47.7"	129lm/W	1800lm

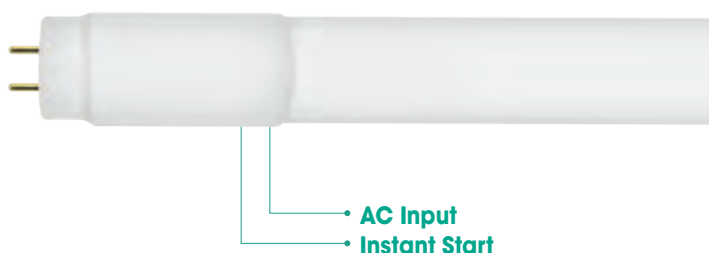




LED T8 UL Type A + B

Features

- Energy saving with low power consumption
- Perfect retrofit fluorescent T8 in Instant Start circuit
- For direct connection with AC
- Compatible with most common Instant Start electronic ballasts (Refer to the ballast compatibility list)
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 120Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥ 80

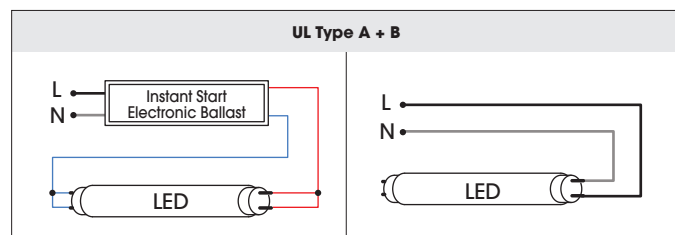


G13 base



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length MOL	Efficacy	Lumen
LED F9T8/830/G/NA/ISAC/24	120 - 277V	9W	3000K	220°	UL Type A+B	23.7"	111lm/W	1000lm
LED F9T8/835/G/NA/ISAC/24	120 - 277V	9W	3500K	220°	UL Type A+B	23.7"	111lm/W	1000lm
LED F9T8/840/G/NA/ISAC/24	120 - 277V	9W	4000K	220°	UL Type A+B	23.7"	122lm/W	1170lm
LED F9T8/850/G/NA/ISAC/24	120 - 277V	9W	5000K	220°	UL Type A+B	23.7"	122lm/W	1170lm
LED F14T8/830/G/NA/ISAC/48	120 - 277V	14W	3000K	220°	UL Type A+B	47.7"	114lm/W	1600lm
LED F14T8/835/G/NA/ISAC/48	120 - 277V	14W	3500K	220°	UL Type A+B	47.7"	114lm/W	1600lm
LED F14T8/840/G/NA/ISAC/48	120 - 277V	14W	4000K	220°	UL Type A+B	47.7"	125lm/W	1800lm
LED F14T8/850/G/NA/ISAC/48	120 - 277V	14W	5000K	220°	UL Type A+B	47.7"	125lm/W	1800lm
LED F17T8/830/G/NA/ISAC/48	120 - 277V	17W	3000K	220°	UL Type A+B	47.7"	112lm/W	1900lm
LED F17T8/835/G/NA/ISAC/48	120 - 277V	17W	3500K	220°	UL Type A+B	47.7"	112lm/W	1900lm
LED F17T8/840/G/NA/ISAC/48	120 - 277V	17W	4000K	220°	UL Type A+B	47.7"	124lm/W	2200lm
LED F17T8/850/G/NA/ISAC/48	120 - 277V	17W	5000K	220°	UL Type A+B	47.7"	124lm/W	2200lm
LED F18T8/830/G/NA/ISAC/48	120 - 277V	18W	3000K	220°	UL Type A+B	47.7"	111lm/W	2000lm
LED F18T8/835/G/NA/ISAC/48	120 - 277V	18W	3500K	220°	UL Type A+B	47.7"	111lm/W	2000lm
LED F18T8/840/G/NA/ISAC/48	120 - 277V	18W	4000K	220°	UL Type A+B	47.7"	122lm/W	2300lm
LED F18T8/850/G/NA/ISAC/48	120 - 277V	18W	5000K	220°	UL Type A+B	47.7"	122lm/W	2300lm

UL Type A + B

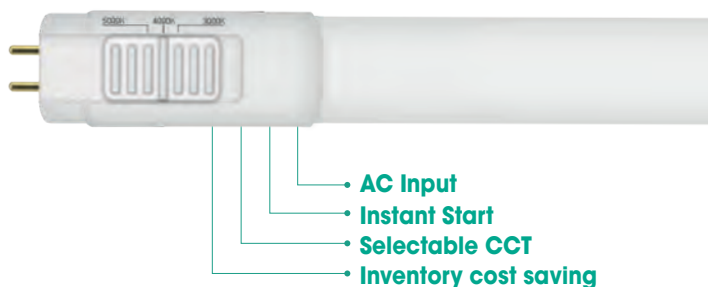




LED T8 3CCT UL Type A + B

Features

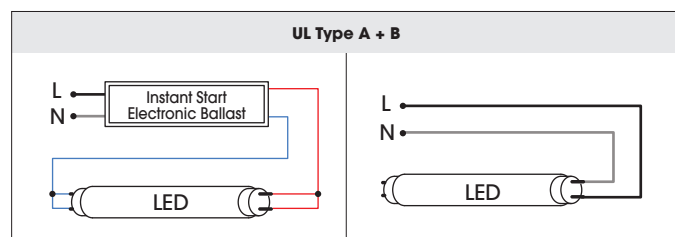
- Energy saving with low power consumption
- Perfect retrofit fluorescent T8 in Instant Start circuit
- For direct connection with AC
- Compatible with most common Instant Start electronic ballasts
(Refer to the ballast compatibility list)
- Selectable CCT via dip-switch
- Inventory cost saving
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Voltage: 120Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥ 80



G13 base



Model	Voltage	Wattage	Color Temp	Beam Angle	Type	Length MOL	Efficacy	Lumen
LED F15T8/8XX/G/NA/ISAC/48/3CCT	120 - 277V	15W	3000K - 4000K - 5000K	220°	UL Type A+B	47.7"	120lm/W	1800lm





INDOOR LUMINAIRE



LED SHOP LIGHT
P. 177 - 178



LED BATTEN
P. 179 - 182



LED WRAP
P. 183



LED DOWNLIGHT
P. 184 - 185



LED CEILING LIGHT
P. 186 - 188



LED PANEL
P. 189



LED Highbay
P. 190 - 191



LED Shop Light NL271E

Features

- 42W LED Shop Light
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- On and off by pull chain
- Applicable in damp location
- Long average life 50000 hours
- Good color rendition, Ra ≥80

Materials / Finish

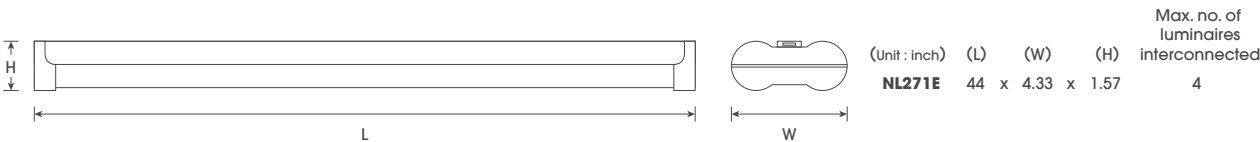
- Body: Steel and PC

Installation / Mounting

- Suitable for suspended
- Integral gear unit allows quick and easy installation

Standards

- ETL, FCC



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL271E-42W/8XX	120V	42W	3000K / 3500K / 4000K / 5000K	120°	4000lm





LED Shop Light NL291S

Features

- 115W LED Shop Light
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- Selectable wattage via dip-switch
- Inventory cost saving
- Motion sensing
- On and off by pull chain
- Applicable in damp location
- Long average life 50000 hours
- Good color rendition, $Ra \geq 80$

Materials / Finish

- Body: Steel and PC

Installation / Mounting

- Suitable for suspended
- Integral gear unit allows quick and easy installation

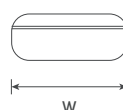
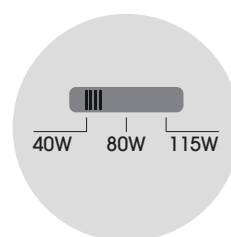
Standards

- ETL, FCC



- Selectable Watt
- Inventory cost saving
- Motion Sensor

Dip-switch



(Unit : inch) (L) (W) (H)
NL291S 48 x 4.8 x 2.13
 Max. no. of
 luminaire
 interconnected 4

Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL291S-115W/8XX	120V	40W - 80W - 115W	3000K / 3500K / 4000K / 5000K	120°	4000lm - 7200lm - 10000lm



LED Batten NL181A - NL183A

Features

- 12W / 24W / 36W LED Batten Light
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- Applicable in damp location
- Long average life 50000 hours
- High color rendition, Ra ≥90

Materials / Finish

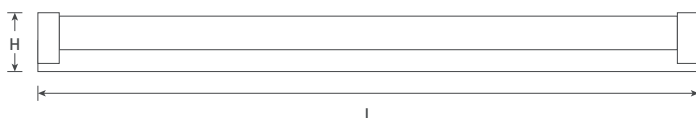
- Body: Steel and PC

Installation / Mounting

- Suitable for surface mounted
- Integral gear unit allows quick and easy installation

Standards

- ETL



(Unit : inch)	(L)	(W)	(H)	Max. no. of luminaires interconnected
NL181A	12.13 x	1.57 x	1.73	4
NL182A	22.76 x	1.57 x	1.73	4
NL183A	46.3 x	1.57 x	1.73	4

Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL181A-12W/9XX	120V	12W	3000K / 3500K / 4000K / 5000K	110°	800lm
NL182A-24W/9XX	120V	24W	3000K / 3500K / 4000K / 5000K	110°	1500lm
NL183A-36W/9XX	120V	36W	3000K / 3500K / 4000K / 5000K	110°	2600lm





LED Batten NL184A

Features

- 24W LED Batten Light
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- Applicable in damp location
- Long average life 50000 hours
- High color rendition, $Ra \geq 90$

Materials / Finish

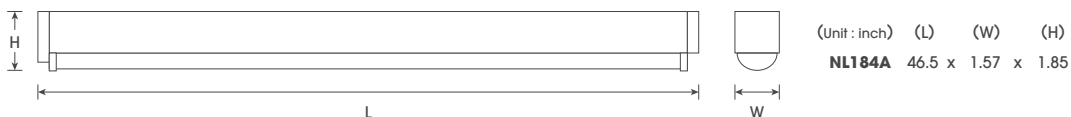
- Body: Steel and PC

Installation / Mounting

- Suitable for surface mounted
- Integral gear unit allows quick and easy installation

Standards

- ETL



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL184A-24W/9XX	100 - 277V	24W	3000K / 3500K / 4000K / 5000K	120°	1800lm





LED Batten NL300S 3CCT

Features

- 26W LED Batten Light
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- Selectable CCT via dip-switch
- Inventory cost saving
- Motion sensing
- Applicable in damp location
- Long average life 50000 hours
- Good color rendition, $Ra \geq 80$

Materials / Finish

- Body: Steel and PC

Installation / Mounting

- Suitable for surface mounted
- Integral gear unit allows quick and easy installation

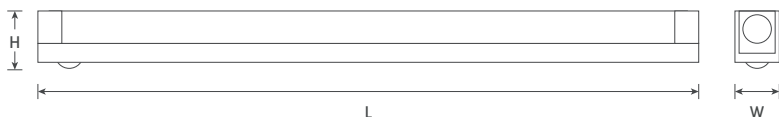
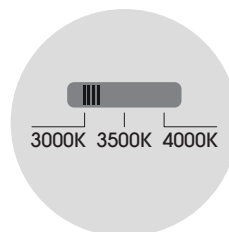
Standards

- ETL



- Selectable CCT
- Inventory cost saving
- Motion Sensor

Dip-switch



(Unit : inch) (L) (W) (H)
NL300S 46.5 x 1.57 x 2



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL300S-26W/8XX/3CCT	100 - 277V	26W	3000K - 3500K - 4000K	110°	2625lm





LED Batten NL310S 3CCT

Features

- 45W LED Wide Batten Light
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- Selectable wattage & CCT via dip-switch
- Inventory cost saving
- Applicable in damp location
- Long average life 50000 hours
- Good color rendition, $Ra \geq 80$

Materials / Finish

- Body: Steel and PC

Installation / Mounting

- Suitable for surface mounted
- Integral gear unit allows quick and easy installation

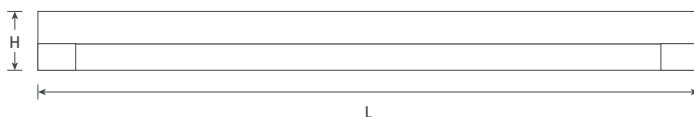
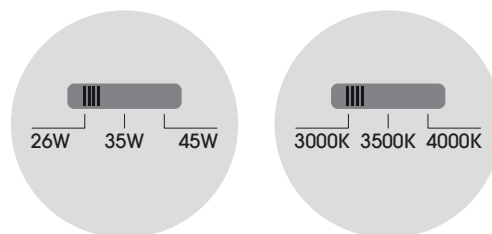
Standards

- ETL, DLC



- Selectable Watt & CCT
- Inventory cost saving

Dip-switch



(Unit : inch) (L) (W) (H)
NL310S 46 x 2.68 x 2.28



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL310S-45W/8XX/3CCT	100 - 277V	26W - 35W - 45W	3000K - 3500K - 4000K	110°	3000lm - 4200lm - 5175lm



LED Wrap NL201S - NL202S 3CCT

Features

- 20W / 40W LED Wrap
- Suitable to use in factories, offices, banks, shopping centers, subways, schools and other places
- Selectable CCT via dip-switch
- Inventory cost saving
- Applicable in damp location
- Long average life 50000 hours
- High color rendition, Ra ≥ 90

Materials / Finish

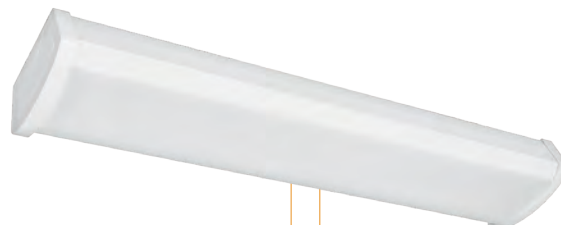
- Body: Steel and PC

Installation / Mounting

- Suitable for surface mounted
- Integral gear unit allows quick and easy installation

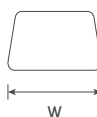
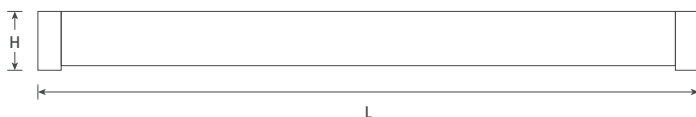
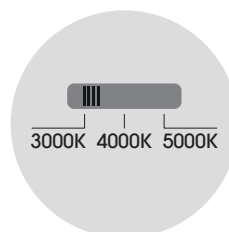
Standards

- ETL



- Selectable CCT
- Inventory cost saving

Dip-switch



(Unit : inch)	(L)	(W)	(H)
NL201S	24.5 x	5.4 x	2.56
NL202S	47.4 x	5.4 x	2.56



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NL201S-20W/9XX/3CCT	120V	20W	3000K - 4000K - 5000K	110°	1700lm
NL202S-40W/9XX/3CCT	120V	40W	3000K - 4000K - 5000K	110°	3400lm





LED Downlight ND311T - ND312T

Features

- 8.7W / 12.5W LED Dimmable Downlight
- Recessed round, uniform distribution
- Comfort glare-free diffuser
- TRIAC dimmable
- High color rendition, Ra ≥90

Materials / Finish

- Body: Sheet steel with white finish
- Trim: Sheet steel with white finish
- Diffuser: Opal PC, UV protected

Installation / Mounting

- Quick installation with mounting bracket and E26 base
- Suitable for 4 in / 5 in / 6 in recessed can
- Integral gear unit allows quick and easy installation

Standards

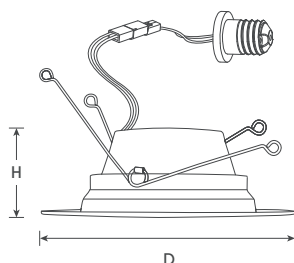
- CEC Title 24
- UL



ND311T



ND312T



	(Unit : inch)	(D)	(H)
8.7W	Ø5.12/7.36	x	1.89/1.97
12.5W	Ø7.36	x	1.97

Model	Voltage	Wattage	Color Temp	Beam Angle	Recessed Can	Lumen
ND311T-8.7W/930	120V	8.7W	3000K	100°	4"	700lm
ND311T-8.7W/940	120V	8.7W	4000K	100°	4"	700lm
ND311T-8.7W/950	120V	8.7W	5000K	100°	4"	700lm
ND312T-8.7W/930	120V	8.7W	3000K	100°	5" / 6"	700lm
ND312T-8.7W/940	120V	8.7W	4000K	100°	5" / 6"	700lm
ND312T-8.7W/950	120V	8.7W	5000K	100°	5" / 6"	700lm
ND312T-12.5W/930	120V	12.5W	3000K	100°	5" / 6"	1000lm
ND312T-12.5W/940	120V	12.5W	4000K	100°	5" / 6"	1000lm
ND312T-12.5W/950	120V	12.5W	5000K	100°	5" / 6"	1000lm



LED Downlight ND321S - ND322S 5CCT

Features

- 8.7W / 12.5W LED Dimmable Downlight
- Recessed round, uniform distribution
- Selectable CCT via dip-switch
- Inventory cost saving
- Comfort glare-free diffuser
- TRIAC dimmable
- High color rendition, Ra ≥ 90

Materials / Finish

- Body: Sheet steel with white finish
- Trim: Sheet steel with white finish
- Diffuser: Opal PC, UV protected

Installation / Mounting

- Quick installation with mounting bracket and E26 base
- Suitable for 4 in / 5 in / 6 in recessed can
- Integral gear unit allows quick and easy installation

Standards

- CEC Title 24
- UL

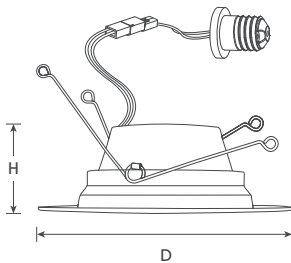


ND321S



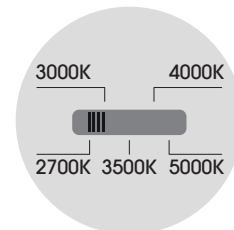
ND322S

- Selectable CCT
- Inventory cost saving



(Unit : inch)	(D)	(H)
8.7W	Ø5.12/7.36	x 1.89/1.97
12.5W	Ø7.36	x 1.97

Dip-switch



Model	Voltage	Wattage	Color Temp	Beam Angle	Recessed Can	Lumen
ND321S-8.7W/9XX/5CCT	120V	8.7W	2700K - 3000K - 3500K - 4000K - 5000K	100°	4"	700lm
ND322S-8.7W/9XX/5CCT	120V	8.7W	2700K - 3000K - 3500K - 4000K - 5000K	100°	5" / 6"	700lm
ND322S-12.5W/9XX/5CCT	120V	12.5W	2700K - 3000K - 3500K - 4000K - 5000K	100°	5" / 6"	1100lm



LED Ceiling Light NC251S - NC253S 5CCT

Features

- 20W / 24W / 28W LED Dimmable Ceiling Light
- Classic and modern style
- Ultra slim design
- Selectable CCT via dip-switch
- Inventory cost saving
- Uniform distribution with frosted diffuser
- Comfort glare-free light
- Applicable in damp location
- High color rendition, Ra ≥90

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Frosted PC

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

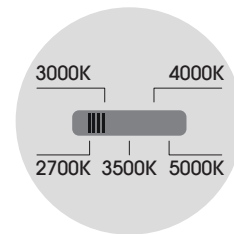
Standards

- ETL



- Selectable CCT
- Inventory cost saving

Dip-switch



	(Unit : inch)	(D)	(H)
NC251S	Ø7	x	0.94
NC252S	Ø9	x	0.94
NC253S	Ø12	x	0.94



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NC251S-20W/9XX/5CCT	120V	20W	2700K - 3000K - 3500K - 4000K - 5000K	120°	2000lm
NC252S-24W/9XX/5CCT	120V	24W	2700K - 3000K - 3500K - 4000K - 5000K	120°	2400lm
NC253S-28W/9XX/5CCT	120V	28W	2700K - 3000K - 3500K - 4000K - 5000K	120°	2800lm



LED Ceiling Light NC261S 5CCT

Features

- 25W LED Dimmable Ceiling Light
- Modern contemporary design
- Selectable CCT via dip-switch
- Inventory cost saving
- Uniform distribution with frosted diffuser
- Comfort glare-free light
- Applicable in damp location
- High color rendition, Ra ≥ 90

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Frosted PMMA
- Choice of White and Black color

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

- CEC Title 24
- ETL

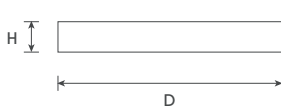
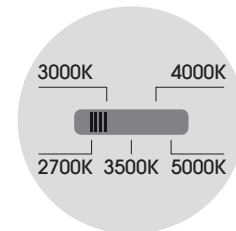


- Selectable CCT
- Inventory cost saving



Black

Dip-switch



(Unit : inch) (D) (H)
NC261S Ø15 x 3.74

Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NC261S-25W/9XX/5CCT	120V	25W	2700K - 3000K - 3500K - 4000K - 5000K	120°	1300lm



LED Ceiling Light NC271S 3CCT

Features

- 20W LED Dimmable Ceiling Light
- Flush-mount puff design fit for any decor
- Selectable CCT via dip-switch
- Inventory cost saving
- Uniform distribution with frosted diffuser
- Comfort glare-free light
- Applicable in damp location
- High color rendition, Ra ≥ 90

Materials / Finish

- Body: Sheet steel with white finish
- Diffuser: Frosted PMMA
- Choice of White and Black color

Installation / Mounting

- Suitable for surface mounting
- Integral gear unit allows quick and easy installation

Standards

- ETL

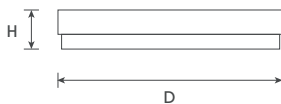
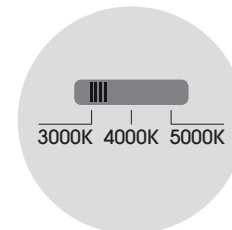


- Selectable CCT
- Inventory cost saving



Black

Dip-switch



(Unit : inch) (D) (H)
NC271S Ø12 x 3.15



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NC271S-20W/9XX/3CCT	120V	20W	3000K - 4000K - 5000K	120°	1200lm



LED Panel NP171S - NP172S 3CCT

Features

- 30W / 40W LED Dimmable Panel
- Selectable wattage & CCT via dip-switch
- Inventory cost saving
- Frosted PS diffuser provide uniform distribution
- Applicable in damp location
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Aluminium frame with white finish
- Diffuser: Frosted PS
- White color

Installation / Mounting

- Quick installation with mounting bracket
- Suitable for recessed mount
- Integral gear unit allows quick and easy installation

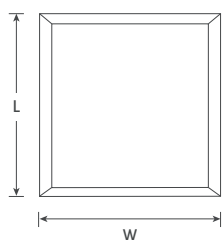
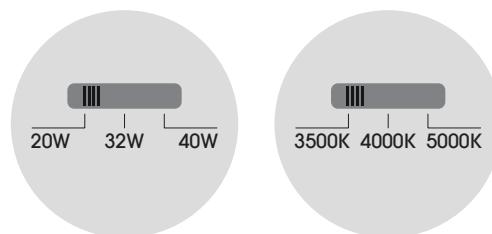
Standards

- FCC, ETL, DLC



- Selectable Watt & CCT
- Inventory cost saving

Dip-switch



(Unit : inch) (L) (W) (H)
NP171S 23.7 x 23.7 x 1.46



(Unit : inch) (L) (W) (H)
NP172S 23.7 x 47.8 x 1.46



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NP171S-30W/8XX/3CCT	100 - 277V	20W - 25W - 30W	3500K - 4000K - 5000K	110°	2500lm - 3125lm - 3750lm
NP172S-40W/8XX/3CCT	100 - 277V	20W - 32W - 40W	3500K - 4000K - 5000K	110°	2500lm - 4000lm - 5000lm





LED Highbay NH1020 - NH1024

Features

- 60W / 80W / 100W / 150W / 200W LED Highbay
- Uniformity distribution in high ceiling application
- Separately packed reflectors for cost saving logistics
- 120° beam angle for large open area coverage
- Good color rendition, Ra ≥70

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Reflector (optional): PC / Aluminium
- Chips: Lumileds 3030
- Driver: Meanwell / Sosen

Installation / Mounting

- Pendant mount by chain
- Easy assembly of reflector by screw fixation

Standards

- UL, FCC, DLC

Dimming Options



Reflector Options



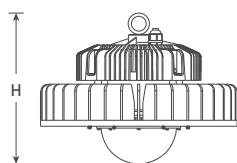
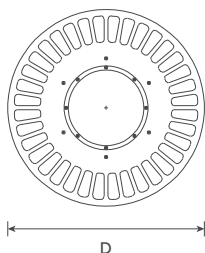
ALU 90°
Ø17.91" x 5.12"



ALU 120°
Ø19.88" x 4.92"



PC 60°
Ø16.34" x 10.63"



(Unit : inch)	(D)	(H)
NH1020	Ø7.09 x	6.18
NH1021	Ø9.06 x	8.82
NH1022	Ø9.06 x	8.82
NH1023	Ø10.24 x	9.21
NH1024	Ø11.80 x	9.84

Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NH1020-3-ALB060-02	90 - 305V	60W	3000K	120°	6800lm
NH1020-3-ALD060-02	90 - 305V	60W	4000K	120°	7200lm
NH1020-3-ALG060-02	90 - 305V	60W	6500K	120°	7500lm
NH1021-3-ALB080-02	90 - 305V	80W	3000K	120°	9000lm
NH1021-3-ALD080-02	90 - 305V	80W	4000K	120°	9800lm
NH1021-3-ALG080-02	90 - 305V	80W	6500K	120°	10400lm
NH1022-3-ALB100-02	90 - 305V	100W	3000K	120°	11400lm
NH1022-3-ALD100-02	90 - 305V	100W	4000K	120°	12200lm
NH1022-3-ALG100-02	90 - 305V	100W	6500K	120°	13000lm
NH1023-3-ALB150-02	90 - 305V	150W	3000K	120°	17500lm
NH1023-3-ALD150-02	90 - 305V	150W	4000K	120°	18500lm
NH1023-3-ALG150-02	90 - 305V	150W	6500K	120°	19500lm
NH1024-3-ALB200-02	90 - 305V	200W	3000K	120°	24000lm
NH1024-3-ALD200-02	90 - 305V	200W	4000K	120°	25000lm
NH1024-3-ALG200-02	90 - 305V	200W	6500K	120°	26000lm



LED Highbay NH151E - NH154E

Features

- 100W / 150W / 200W / 240W LED Highbay
- Uniformity distribution in high ceiling application
- 120° beam angles for large open area coverage
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium
- Lens: PC
- Reflector (optional): PC / Aluminium
- Black color

Installation / Mounting

- Pendant mount by chain
- Easy assembly of reflector by screw fixation

Standards

- ETL



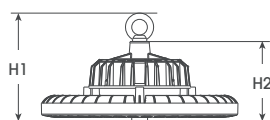
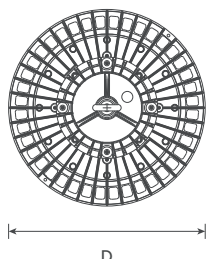
Reflector Options



PC 60°
 100W: Ø12.20" x 6.56"
 150W: Ø12.13" x 4.72"
 200W: Ø16.14" x 8.29"
 240W: Ø16.14" x 8.29"



ALU 90°
 100W: Ø13.39" x 4.53"
 150W: Ø14.57" x 5.12"
 200W: Ø16.93" x 5.31"
 240W: Ø16.93" x 5.31"



(Unit : inch)	(D)	(H1)	(H2)
NH151E	Ø9.84	x 5.47	x 4.06
NH152E	Ø9.84	x 5.47	x 4.06
NH153E	Ø9.84	x 5.94	x 4.53
NH154E	Ø11.81	x 6.34	x 4.92

Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
NH151E-100W/830	100 - 277V	100W	3000K	120°	14000lm
NH151E-100W/840	100 - 277V	100W	4000K	120°	14500lm
NH151E-100W/865	100 - 277V	100W	6500K	120°	15000lm
NH152E-150W/830	100 - 277V	150W	3000K	120°	21000lm
NH152E-150W/840	100 - 277V	150W	4000K	120°	21750lm
NH152E-150W/865	100 - 277V	150W	6500K	120°	22500lm
NH153E-200W/830	100 - 277V	200W	3000K	120°	28000lm
NH153E-200W/840	100 - 277V	200W	4000K	120°	29000lm
NH153E-200W/865	100 - 277V	200W	6500K	120°	30000lm
NH154E-240W/830	100 - 277V	240W	3000K	120°	33600lm
NH154E-240W/840	100 - 277V	240W	4000K	120°	34800lm
NH154E-240W/865	100 - 277V	240W	6500K	120°	36000lm





OUTDOOR LUMINAIRE



LED CANOPY
P. 193



LED WALL PACK
P. 194



LED SHOEBOX
P. 195



LED Canopy UC101E - UC102E

Features

- 35W / 70W LED Canopy
- High efficacy >115lm/W
- Uniform light output
- Trapezoid radiating fin structure
- Good color rendition, Ra ≥70

Materials / Finish

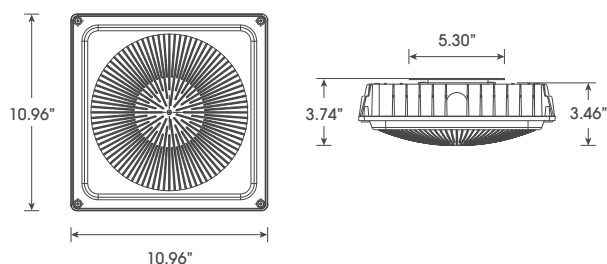
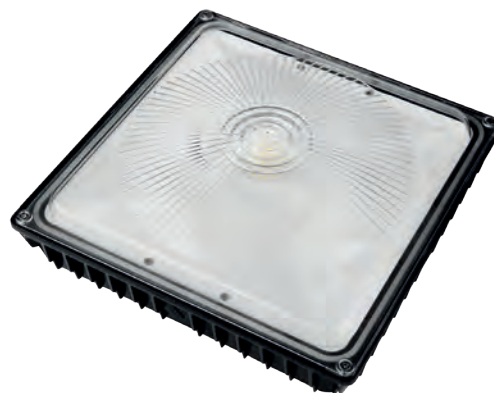
- Body: Die cast aluminium housing with anti-corrosive and thermostable finish
- Diffuser: PC
- Chips: Lumileds 3030
- Black color

Installation / Mounting

- Quick Installation with user friendly mounting bracket
- Stainless steel safety cable for double security

Standards

- UL, FCC, DLC



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
UC101E-35W/730	120V	35W	3000K	145°	3800lm
UC101E-35W/740	120V	35W	4000K	145°	4000lm
UC101E-35W/750	120V	35W	5000K	145°	4200lm
UC102E-70W/730	120V	70W	3000K	145°	7800lm
UC102E-70W/740	120V	70W	4000K	145°	8000lm
UC102E-70W/750	120V	70W	5000K	145°	8200lm



LED Wall Pack UF101E - UF104E

Features

- 30W / 60W / 90W / 120W LED full or half cut-off Wall Pack
- Fixture surface especially treated with antisatic, thermostable and anti-corrosive paint
- High efficacy >110lm/W
- Uniform light output
- Good color rendition, Ra ≥80

Materials / Finish

- Body: Die cast aluminium housing with anti-corrosive and thermostable finish
- Chips: Lumileds / Samsung
- Black color

Installation / Mounting

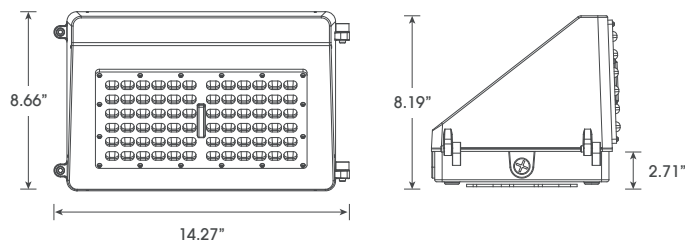
- Quick Installation with user friendly mounting bracket

Full cut off version is available on request

Standards

- UL, FCC, DLC

Accessories (Optional)



Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
UF101E-30W/830	100 - 277V	30W	3000K	125 x 46°	3150lm
UF101E-30W/840	100 - 277V	30W	4000K	125 x 46°	3200lm
UF101E-30W/850	100 - 277V	30W	5000K	125 x 46°	3300lm
UF102E-60W/830	100 - 277V	60W	3000K	125 x 46°	6450lm
UF102E-60W/840	100 - 277V	60W	4000K	125 x 46°	6500lm
UF102E-60W/850	100 - 277V	60W	5000K	125 x 46°	6600lm
UF103E-90W/830	100 - 277V	90W	3000K	125 x 46°	9700lm
UF103E-90W/840	100 - 277V	90W	4000K	125 x 46°	9800lm
UF103E-90W/850	100 - 277V	90W	5000K	125 x 46°	9900lm
UF104E-120W/830	100 - 277V	120W	3000K	125 x 46°	12500lm
UF104E-120W/840	100 - 277V	120W	4000K	125 x 46°	13000lm
UF104E-120W/850	100 - 277V	120W	5000K	125 x 46°	13200lm





LED Shoebox UF111E - UF113E

Features

- 50W / 80W / 100W / 150W / 200W / 300W LED Shoebox
- Customized lens from Type I to Type V
- Support different mounting demands
- High efficacy >160lm/W
- Uniform light output
- Support multi-applications such as parking lot light, street light, tunnel light, wall pack and floodlight
- Photocell optional
- Good color rendition, Ra ≥70

Materials / Finish

- Body: Die cast aluminium housing with PC lens
- Chips: Lumileds
- Black color

Installation / Mounting

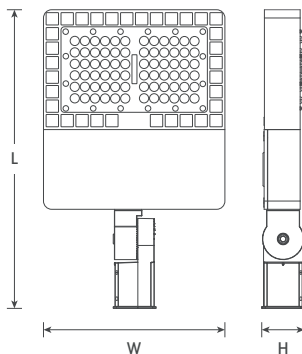
- Flexible installation wall mounted with various accessories available

Standards

- ETL, FCC, DLC



Accessories



(Unit : inch)	(L)	(W)	(H)
UF111E	18.5 x	10.7 x	1.97
UF112E	23.5 x	13 x	3.46
UF113E	31 x	13 x	3.46

Model	Voltage	Wattage	Color Temp	Beam Angle	Lumen
UF111E-50W/730	100 - 277V	50W	3000K	125 x 46°	7500lm
UF111E-50W/740	100 - 277V	50W	4000K	125 x 46°	7750lm
UF111E-50W/750	100 - 277V	50W	5000K	125 x 46°	8000lm
UF111E-80W/730	100 - 277V	80W	3000K	125 x 46°	12000lm
UF111E-80W/740	100 - 277V	80W	4000K	125 x 46°	12400lm
UF111E-80W/750	100 - 277V	80W	5000K	125 x 46°	12800lm
UF112E-100W/730	100 - 277V	100W	3000K	125 x 46°	15000lm
UF112E-100W/740	100 - 277V	100W	4000K	125 x 46°	15500lm
UF112E-100W/750	100 - 277V	100W	5000K	125 x 46°	16000lm
UF112E-150W/730	100 - 277V	150W	3000K	125 x 46°	22500lm
UF112E-150W/740	100 - 277V	150W	4000K	125 x 46°	23250lm
UF112E-150W/750	100 - 277V	150W	5000K	125 x 46°	24000lm
UF113E-200W/730	100 - 277V	200W	3000K	125 x 46°	30000lm
UF113E-200W/740	100 - 277V	200W	4000K	125 x 46°	31000lm
UF113E-200W/750	100 - 277V	200W	5000K	125 x 46°	32000lm
UF113E-300W/730	100 - 277V	300W	3000K	125 x 46°	45000lm
UF113E-300W/740	100 - 277V	300W	4000K	125 x 46°	46500lm
UF113E-300W/750	100 - 277V	300W	5000K	125 x 46°	48000lm

Average Life mentioned in this catalogue in hours is the time between the start of their use and the moment when for 50% of a population of light sources the light output has gradually degraded to a value below 70% of the initial luminous flux. This is also referred to as the L70B50 lifetime. (*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.

Lumen in Europe section of this catalogue refers to useful luminous flux (Φ_{use}). It means the part of the luminous flux of a light source that is considered when determining its energy efficiency:

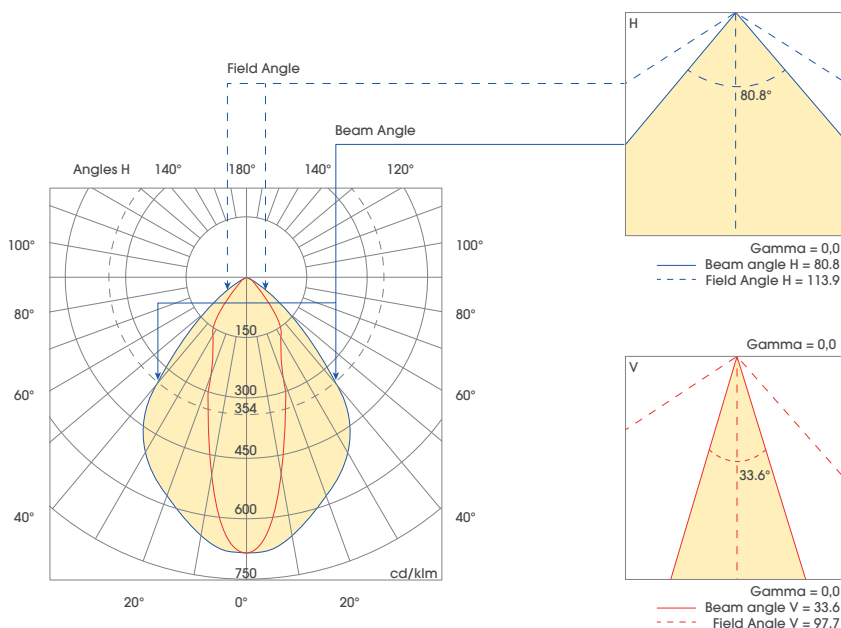
- For non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere);
- For directional light sources with beam angle $\geq 90^\circ$ it is the flux emitted in a solid angle of π sr (corresponding to a cone with angle of 120°);

- For directional light sources with beam angle $< 90^\circ$ it is the flux emitted in a solid angle of $0,586\pi$ sr (corresponding to a cone with angle of 90°)

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 ($cd \cdot sr \cdot m^{-2}$).

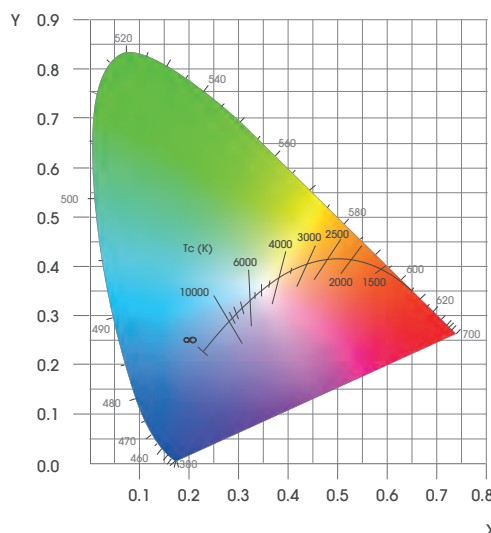
Diagram of Beam Angle and Field Angle



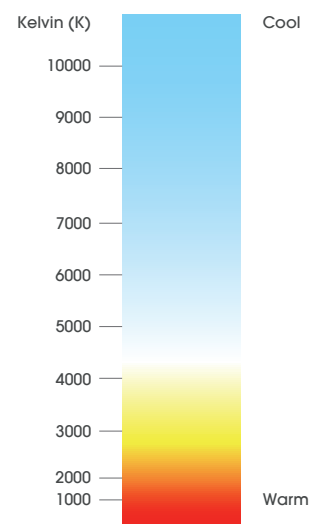
Beam Angle is a technical definition of the precise width of the amount of light being emitted by a specific light source. There are several types of beam angle definitions: very narrow spot, narrow spot, spot, narrow flood, flood, wide flood and very wide flood.

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.

CIE CHROMATICITY Diagram



Temperature of Light Diagram



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 5000K are called cool colors (blueish white), while color temperatures between 2700 and 3000K are called warm colors (yellowish white through red).

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.

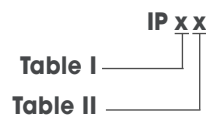


Table I (1st characteristic numeral)

Degree of Protection against solid objects

Digit

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.
Prevents ingress of dust sufficient to cause harm.

6

Dust tight.
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.
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.

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