

# GARNDE

QUALITY | DESIGN | INNOVATION

## Back-lit LED Panel Light

Standard Flat IP20 Design

UGR<19 Design

IP54 IP65 Waterproof Design



HIGH  
OUTPUT LED



85%  
ENERGY  
SAVING



ZERO MERCURY/  
ZERO LEAD



LONG  
LED LIFE

Garnde Lighting Technology Corp.

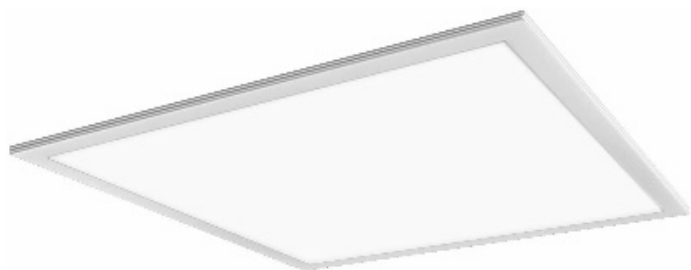
1377 Jianlan Road, Hi-Tech Zone  
Ningbo 315000, Zhejiang, China

Tel: +86 574 8901 9228

Email: [admin@garnde.com](mailto:admin@garnde.com)

[www.garnde-lighting.com](http://www.garnde-lighting.com)

## Back-lit LED Panel Light (for GCC)



Garnde back-lit standard flat LED panel light is designed to provide a simple LED lighting for high lumen demand spaces. It provides easy installation, long lifespan, no maintenance, no strobe, no buzzing and cold temperature operation. It provides energy savings up to 75% compare to fluorescent tube.



**CE CB RoHS IEC**  
EN60598



## Application

- Office
- Residence
- Shopping mall
- Parking lot
- Warehouse
- Hotel
- Bus, train, boat
- Airport, railway station, metro station

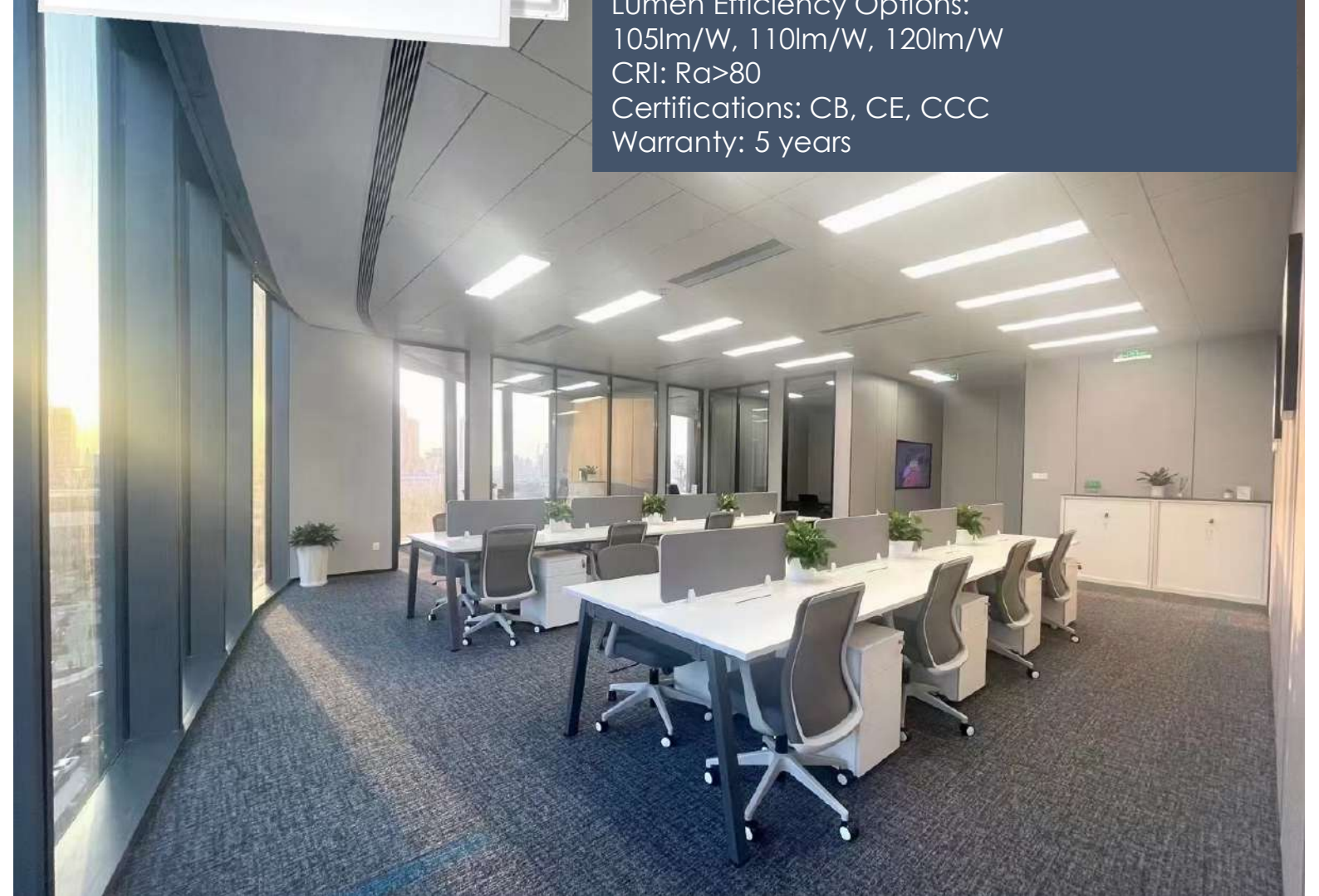


# Office **High-Level-Lux** Lighting Solution



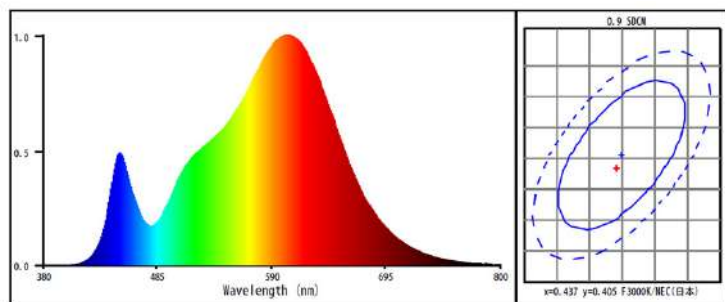
## LED Panel Light

Size Options: 295x1195mm, 300x1200mm  
Mounting Method Options: Recessed, Surfaced  
Standard Wattage: 40W  
CCT Options: 3000K, 4000K, 5000K, 6500K  
Lumen Efficiency Options:  
105lm/W, 110lm/W, 120lm/W  
CRI: Ra>80  
Certifications: CB, CE, CCC  
Warranty: 5 years

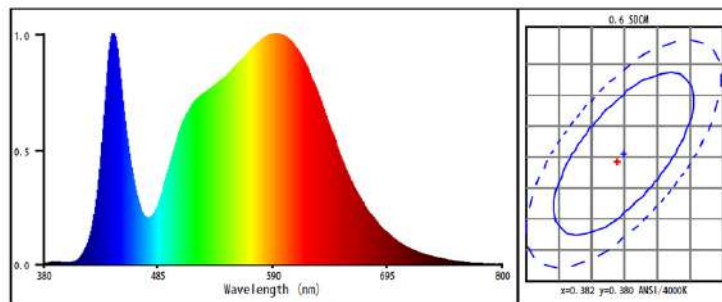


## Spectrogram

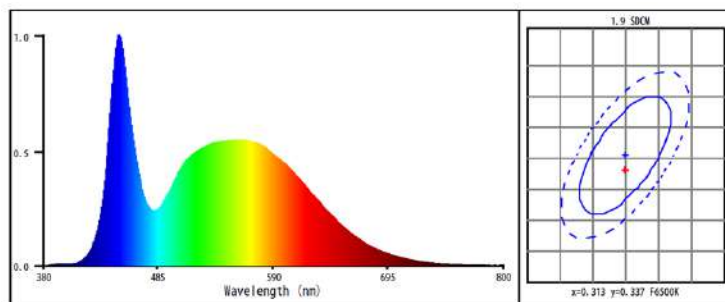
3000K:



4000K:

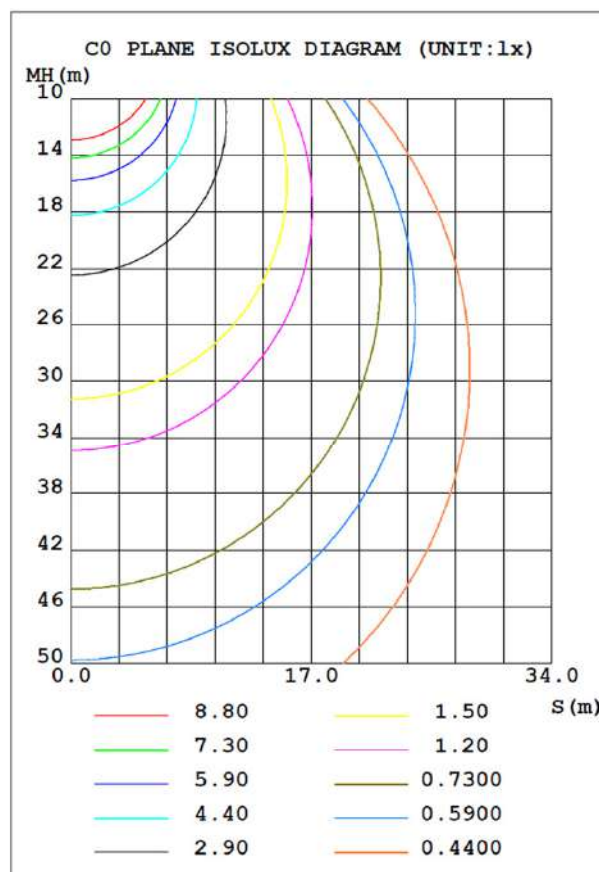
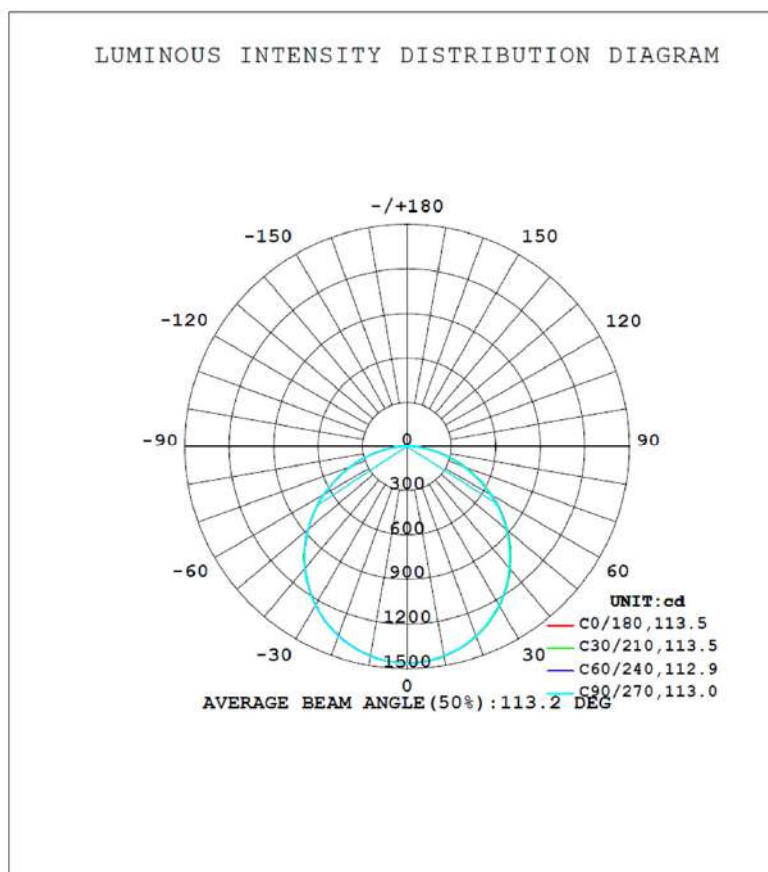


6500K:



## Light Distribution Diagram

(40W, 6500K):



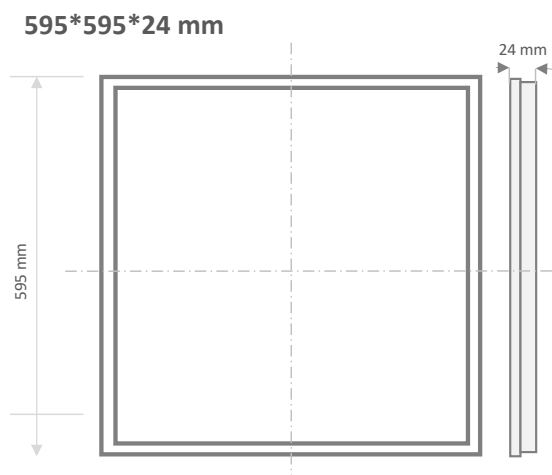
We are an enterprise specializing in the manufacture of LED commercial lighting fixtures especially LED panel lights, committed to providing customers with high-quality, high-performance, energy-saving and environmental protection lighting products.

With years of experience in the industry, we have developed a deep understanding of the needs and requirements of our customers, and we are committed to delivering the best possible products to meet those needs. We are committed to continuous innovation and improvement of product quality and performance. With passion for excellence, we always design and develop products with new technology and possibilities of LED lighting.

Our LED panel lights are designed and manufactured to ensure that they are energy-efficient, durable, and long-lasting. We offer a wide range of panel lights in different sizes, shapes, and color temperatures, making it easy for you to find the perfect solution for your lighting needs.



## 595x595 series



## Technical Characteristics

<b>Size</b>	595 x 595 x 24 mm
<b>Voltage Input Options</b>	220-240V, 100-240V
<b>IP Grade</b>	IP40
<b>Dimmable Options</b>	No, 0-10V, DALI
<b>Wattage</b>	40W
<b>Number of Switch Cycles before Failure</b>	> 15,000

<b>Color Temperature (CCT) Options</b>	3000K, 4000K, 5000K, 6500K
<b>Color Rendering Index (CRI)</b>	Ra > 80
<b>Beam Angle</b>	114°
<b>Power Factor</b>	> 0.9
<b>Strobe</b>	No
<b>Starting Time</b>	< 0.5 s

## Model List

Model No.	Size	CCT	Power (W)	Lumen Output	CRI	Input Voltage	Order Code
PTB-S595-40	595 x 595 x 24 mm	3000K	40W	3750	≥ 80	AC100-240V 50/60Hz or AC220-240V 50/60Hz	103033
PTB-S595-40		4000K		3940			104033
PTB-S595-40		5000K		4060			105033
PTB-S595-40		6500K		4240			106533

\* Lumen flux and power are subject to an initial tolerance of  $\pm 3\%$ . Tolerance of CCT:  $\pm 3\%$ . Tolerance of CRI:  $\pm 2$ . Values apply to an ambient temperature of 25°C.

## LED Driver Options

Garnde Integrated LED Driver



Input Voltage:  
AC220-240V

LiFud LED Driver



Input Voltage:  
AC220-240V

Philips LED Driver



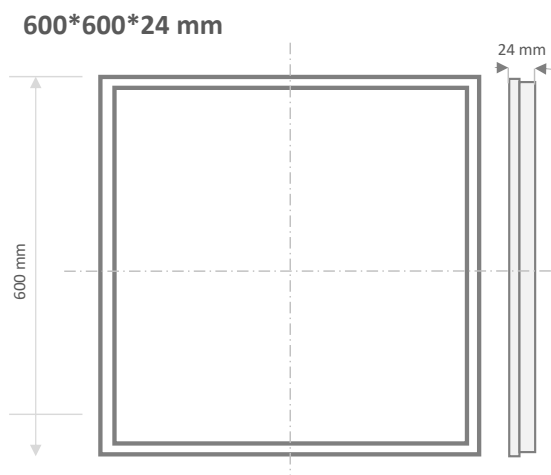
Input Voltage:  
AC220-240V

Torbo LED Driver



Wide Input Voltage:  
AC100-240V

## 600x600 series



## Technical Characteristics

Size	600 x 600 x 24 mm
Voltage Input Options	220-240V, 100-240V
IP Grade	IP40
Dimmable Options	No, 0-10V, DALI
Wattage	40W
Number of Switch Cycles before Failure	> 15,000

Color Temperature (CCT) Options	3000K, 4000K, 5000K, 6500K
Color Rendering Index (CRI)	Ra > 80
Beam Angle	114°
Power Factor	> 0.9
Strobe	No
Starting Time	< 0.5 s

## Model List

Model No.	Size	CCT	Power (W)	Lumen Output	CRI	Input Voltage	Order Code
PTB-S600-40	600 x 600 x 24 mm	3000K	40W	3750	≥ 80	AC100-240V 50/60Hz or AC220-240V 50/60Hz	203033
PTB-S600-40		4000K		3940			204033
PTB-S600-40		5000K		4060			205033
PTB-S600-40		6500K		4240			206533

\* Lumen flux and power are subject to an initial tolerance of  $\pm 3\%$ . Tolerance of CCT:  $\pm 3\%$ . Tolerance of CRI:  $\pm 2$ . Values apply to an ambient temperature of 25°C.

## LED Driver Options

Garnde Integrated LED Driver



Input Voltage:  
AC220-240V

LiFud LED Driver



Input Voltage:  
AC220-240V

Philips LED Driver



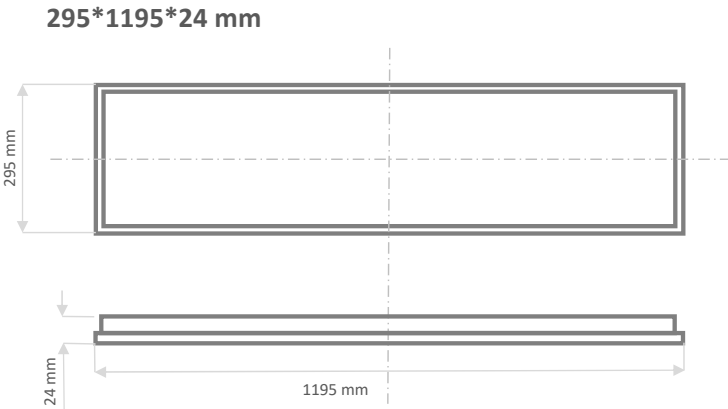
Input Voltage:  
AC220-240V

Torbo LED Driver



Wide Input Voltage:  
AC100-240V

295x1195 series



Technical Characteristics

Size	295 x 1195 x 24 mm
Voltage Input Options	220-240V, 100-240V
IP Grade	IP40
Dimmable Options	No, 0-10V, DALI
Wattage	40W
Number of Switch	
Cycles before Failure	> 15,000

Color Temperature (CCT) Options	3000K, 4000K, 5000K, 6500K
Color Rendering Index (CRI)	Ra > 80
Beam Angle	114°
Power Factor	> 0.9
Strobe	No
Starting Time	< 0.5 s

Model List

Model No.	Size	CCT	Power (W)	Lumen Output	CRI	Input Voltage	Order Code
PTB-2951195-40	295 x 1195 x 24 mm	3000K	40W	3750	≥ 80	AC100-240V 50/60Hz or AC220-240V 50/60Hz	303033
PTB-2951195-40		4000K		3940			304033
PTB-2951195-40		5000K		4060			305033
PTB-2951195-40		6500K		4240			306533

\* Lumen flux and power are subject to an initial tolerance of ±3%. Tolerance of CCT: ±3%. Tolerance of CRI: ±2. Values apply to an ambient temperature of 25°C.

LED Driver Options

Garnde Integrated LED Driver

Input Voltage:  
AC220-240V

LiFud LED Driver

Input Voltage:  
AC220-240V

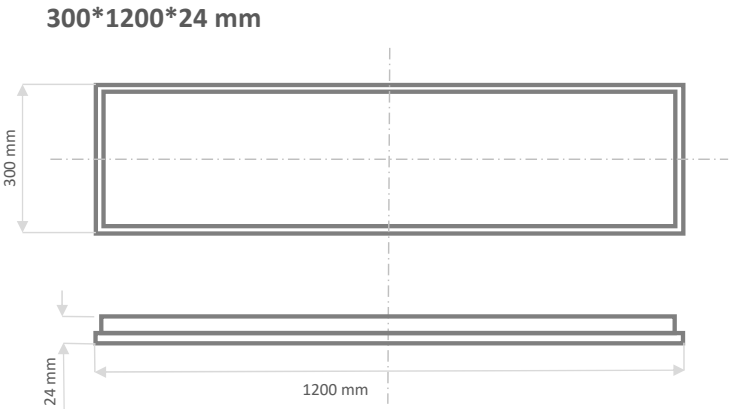
Philips LED Driver

Input Voltage:  
AC220-240V

Torbo LED Driver

Wide Input Voltage:  
AC100-240V

300x1200 series



Technical Characteristics

Size	300 x 1200 x 24 mm
Voltage Input Options	220-240V, 100-240V
IP Grade	IP40
Dimmable Options	No, 0-10V, DALI
Wattage	40W
Number of Switch Cycles before Failure	> 15,000

Color Temperature (CCT) Options	3000K, 4000K, 5000K, 6500K
Color Rendering Index (CRI)	Ra > 80
Beam Angle	114°
Power Factor	> 0.9
Strobe	No
Starting Time	< 0.5 s

Model List

Model No.	Size	CCT	Power (W)	Lumen Output	CRI	Input Voltage	Order Code
PTB-3001200-40	300 x 1200 x 24 mm	3000K	40W	3750	≥ 80	AC100-240V 50/60Hz or AC220-240V 50/60Hz	403033
PTB-3001200-40		4000K		3940			404033
PTB-3001200-40		5000K		4060			405033
PTB-3001200-40		6500K		4240			406533

\* Lumen flux and power are subject to an initial tolerance of ±3%. Tolerance of CCT: ±3%. Tolerance of CRI: ±2. Values apply to an ambient temperature of 25°C.

LED Driver Options

Garnde Integrated LED Driver

Input Voltage:  
AC220-240V

LiFud LED Driver

Input Voltage:  
AC220-240V

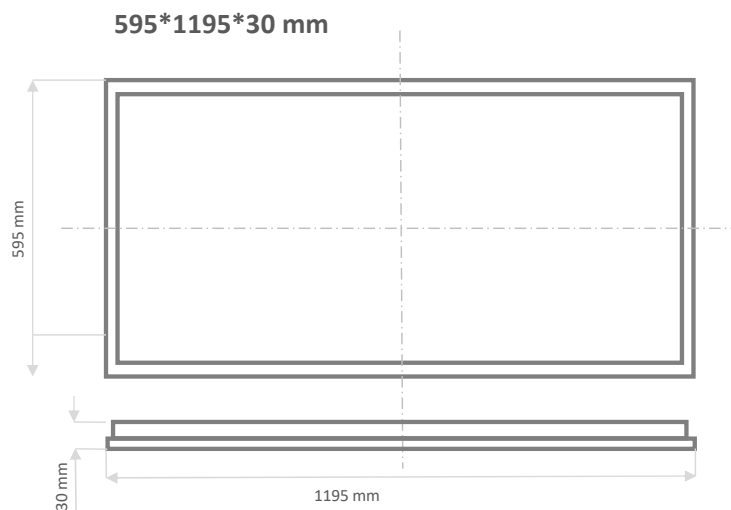
Philips LED Driver

Input Voltage:  
AC220-240V

Torbo LED Driver

Wide Input Voltage:  
AC100-240V

## 595x1195 series



## Technical Characteristics

<b>Size</b>	595 x 1195 x 30 mm
<b>Voltage Input Options</b>	220-240V, 100-240V
<b>IP Grade</b>	IP40
<b>Dimmable Options</b>	No, 0-10V, DALI
<b>Wattage</b>	60W
<b>Number of Switch Cycles before Failure</b>	> 15,000

<b>Color Temperature (CCT) Options</b>	3000K, 4000K, 5000K, 6500K
<b>Color Rendering Index (CRI)</b>	Ra > 80
<b>Beam Angle</b>	114°
<b>Power Factor</b>	> 0.9
<b>Strobe</b>	Yes
<b>Starting Time</b>	< 0.5 s

## Model List

Model No.	Size	CCT	Power (W)	Lumen Output	CRI	Input Voltage	Order Code
PTB-5951195-60	595 x 1195 x 30 mm	3000K	60W	5350	≥ 80	AC100-240V 50/60Hz	503011
PTB-5951195-60		4000K		5940			504011
PTB-5951195-60		5000K		6120			505011
PTB-5951195-60		6500K		6380			506511

\* Lumen flux and power are subject to an initial tolerance of  $\pm 3\%$ . Tolerance of CCT:  $\pm 3\%$ . Tolerance of CRI:  $\pm 2$ . Values apply to an ambient temperature of 25°C.

## LED Driver

Torbo LED Driver



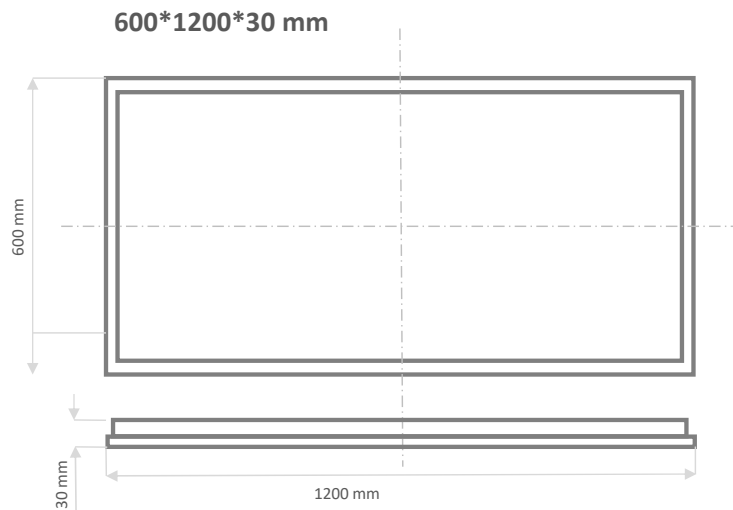
Wide Input Voltage:  
**AC100-240V**

LiFud LED Driver



Input Voltage:  
**AC220-240V**

## 600x1200 series



## Technical Characteristics

<b>Size</b>	595 x 1195 x 30 mm
<b>Voltage Input Options</b>	220-240V, 100-240V
<b>IP Grade</b>	IP40
<b>Dimmable Options</b>	No, 0-10V, DALI
<b>Wattage</b>	60W
<b>Number of Switch Cycles before Failure</b>	> 15,000

<b>Color Temperature (CCT) Options</b>	3000K, 4000K, 5000K, 6500K
<b>Color Rendering Index (CRI)</b>	Ra > 80
<b>Beam Angle</b>	114°
<b>Power Factor</b>	> 0.9
<b>Strobe</b>	Yes
<b>Starting Time</b>	< 0.5 s

## Model List

Model No.	Size	CCT	Power (W)	Lumen Output	CRI	Input Voltage	Order Code
PTB-6001200-60	600 x 1200 x 30 mm	3000K	60W	5350	≥ 80	AC100-240V 50/60Hz	603011
PTB-6001200-60		4000K		5940			604011
PTB-6001200-60		5000K		6120			605011
PTB-6001200-60		6500K		6380			606511

\* Lumen flux and power are subject to an initial tolerance of  $\pm 3\%$ . Tolerance of CCT:  $\pm 3\%$ . Tolerance of CRI:  $\pm 2$ . Values apply to an ambient temperature of 25°C.

## LED Driver

Torbo LED Driver



LiFud LED Driver



## UGR<19

## Back-lit LED Panel Light (for GCC)



Microprism Diffuser

In addition to providing the function of standard LED panel light, Garnde UGR<19 LED Panel Light can also eliminate glare, alleviate people's visual fatigue and improve visual comfort.



- PET coated steel back housing
- SMD 2835 LED or SMD 4014 LED chips
- PMMA optical lens
- PC diffuser
- Microprism Diffuser
- Powder coated Aluminum frame

CE CB RoHS IEC  
EN60598

595x595 series  
600x600 series

295x1195 series  
300x1200 series

595x1195 series  
600x1200 series

## Technical Characteristics

Voltage Input Options	220-240V, 100-240V
IP Grade	IP40
Dimmable Options	No, 0-10V, DALI
UGR	< 19
Number of Switch Cycles before Failure	> 15,000

Color Temperature (CCT) Options	3000K, 4000K, 5000K, 6500K
Color Rendering Index (CRI)	Ra > 80
Beam Angle	114°
Power Factor	> 0.9
Strobe	No
Starting Time	< 0.5 s

## IP54 IP65 Waterproof Back-lit LED Panel Light (for GCC)



Waterproof

Garnde IP54 IP65 Waterproof LED Panel Light is designed to be used in humid environment or in dusty environment. It can extend the service life time of panel light compare with IP20 LED panel light.



- PET coated steel back housing
- SMD 2835 LED or SMD 4014 LED chips
- PMMA optical lens
- PC diffuser
- (Microprism Diffuser)
- Powder coated Aluminum frame

CE CB RoHS IEC  
EN60598

595x595 series

600x600 series

295x1195 series

300x1200 series

595x1195 series

600x1200 series

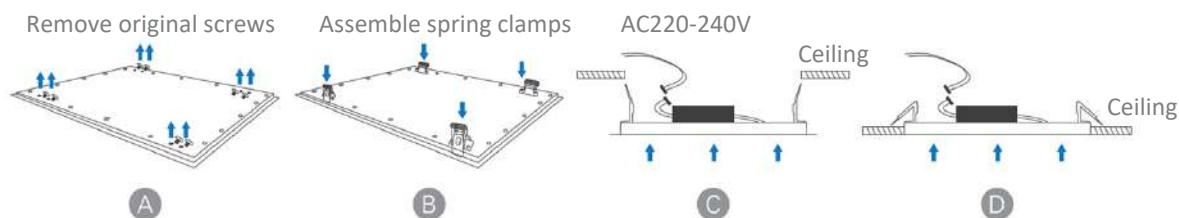
### Technical Characteristics

<b>Voltage Input Options</b>	220-240V, 100-240V
<b>IP Grade Options</b>	IP54, IP65
<b>Dimmable Options</b>	No, 0-10V, DALI
<b>Number of Switch Cycles before Failure</b>	> 15,000

<b>Color Temperature (CCT) Options</b>	3000K, 4000K, 5000K, 6500K
<b>Color Rendering Index (CRI)</b>	Ra > 80
<b>Beam Angle</b>	114°
<b>Power Factor</b>	> 0.9
<b>Strobe</b>	No
<b>Starting Time</b>	< 0.5 s

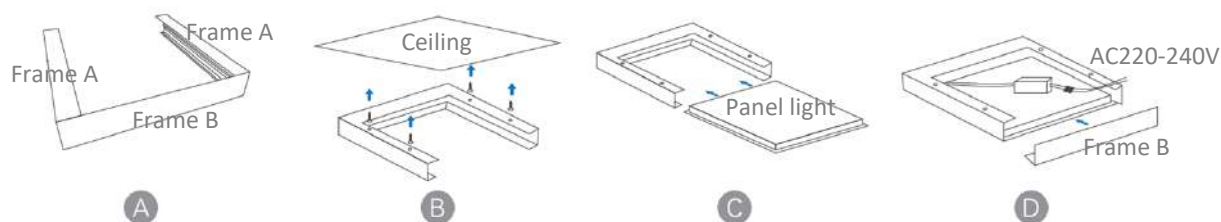
## Mounting Method Options

### Recessed



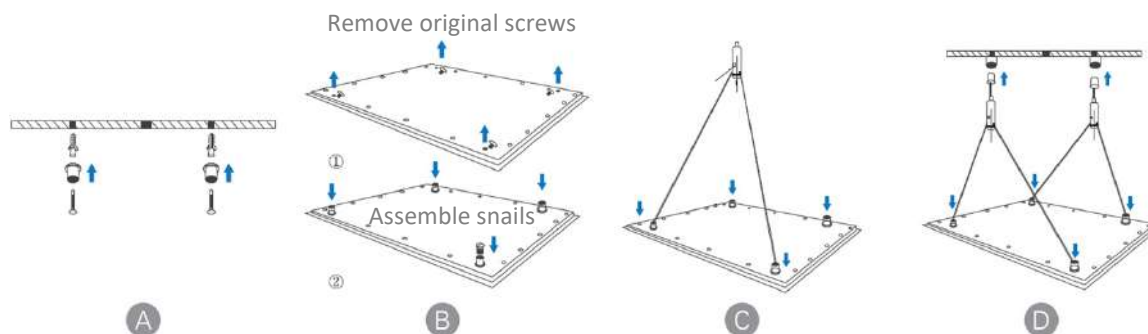
Accessories

### Surfaced



Accessories

### Suspended



Accessories

# Office **LED Panel Emergency Lighting** Solution



LED Emergency Power Supply  
Model EPS2000-0403

LED Panel Light

**4W, 300lm / panel**  
**3 hours duration**

**in Mains AC power failure Accident**

18W, 1500lm / downlight

## LED Downlight Emergency Lighting Solution



LED Down Light



LED Emergency Power Supply  
Model EPS2000-0403

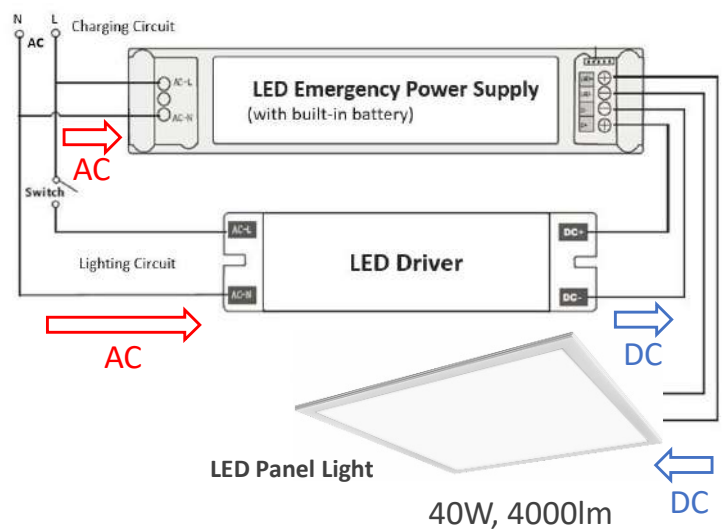
4W, 300lm / downlight  
3 hours duration

in Mains Power Failure Accident

# Mains AC Input Lighting State



40W, 4000lm / panel



- Mains AC input, LED driver drives LED panel light or similar LED lighting fixture for normal lighting: 40W, 4000lm / panel.
- At same time, mains AC charges the Built-in Battery of *LED Emergency Power Supply*.

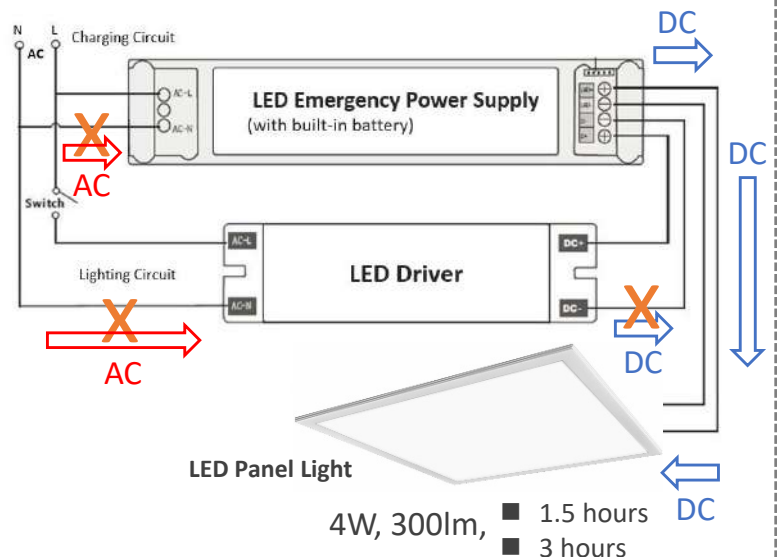
in Mains AC power  
**Failure Accident**



## Emergency Lighting State



4W, 300lm / panel  
3 hours duration



- When the power is cut off, LED driver will no longer work.
- The *LED Emergency Power Supply* will start to work immediately to supply power to LED panel light.
- LED panel light in emergency lighting state: 4W, 300lm / panel, 3 hours duration.

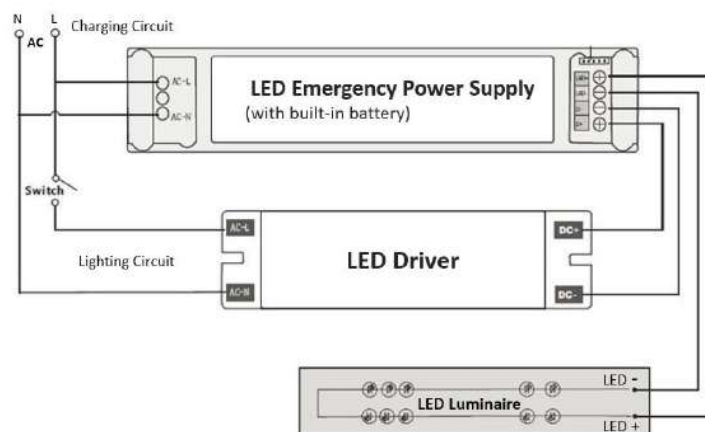
## LED Panel Emergency Lighting Solution



LED Emergency Power Supply  
(LED Emergency Driver)

- Only for LED load
- Suitable for a wide range LED load power 0 - 60W
- To power a LED luminaire at a reduced lumen flux
- Automatically activated in the event of power cuts
- Low power consumption
- Over-charge protection and over-discharge protection

### Connection Diagram



Model No.	EPS2000-0401	EPS2000-0403
LED Luminaire Power Range	Indoor LED light 0 - 60W	
Max. LED Driver Current Connected	2000mA	
Input Voltage	AC100-277V 50-60Hz	
Output Emergency Power	4W	
Output Voltage	DC10V - 80V	
Rated Duration	1.5 hours	3 hours
Built-in Battery	Lithium 7.4V 1.1Ah	Lithium 7.4V 2.2Ah
Charging Time	24 hours	
Protection	Over-charge Protection, Over-discharge Protection	
Indication LED	Red, Green	
Test Facility	Momentary Test Switch	
Operating Temperature	-10℃ ~ +50℃	
IP Grade	IP40	
Dimensions	215 x 40 x 28 mm	
Standards/Compliance	IEC 61347-2-7, SS 563	

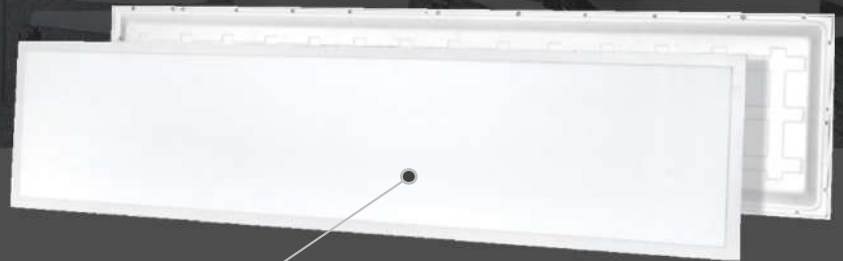
40W, 4000lm / panel

## LED Panel Emergency Lighting Solution

**IP67 Moisture Proof**



LED Emergency Power Supply  
Model WEPS2500-12-03



LED Panel Light

**12W, 1200lm / panel**  
**3 hours duration**

**in Mains Power Failure Accident**

## LED Emergency Power Supply

Outdoor Usage

For Wet or Tough Environment

### WEPS series

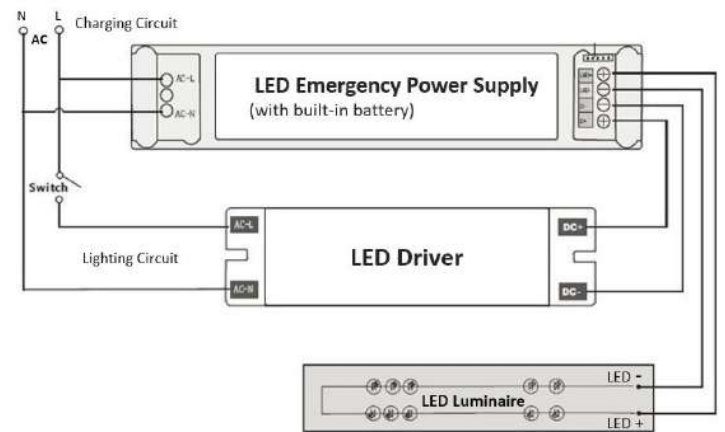
IP67 Waterproof, Built-in LFP batteries



IP67 CE

- Only for LED load
- To power a LED luminaire at a reduced lumen flux
- Automatically activated in the event of power cuts
- Constant current output
- Over voltage protection, overload protection, short-circuit protection, open circuit protection
- Over-charge protection, over-discharge protection, over-temperature protection of built-in battery
- Quarterly self-inspection function
- Indication: green \* mains supply, red \* charging, red blinking \* fault

#### Connection Diagram



	WEPS2500-12-01	WEPS2500-12-03	WEPS5500-30-01	WEPS5500-30-03
LED Load Power Range	0 - 100W		100 - 200W	
Max. LED Driver Current	2500mA		5500mA	
Input Voltage	AC100-277V 50/60Hz			
Output Voltage	DC10V-80V			
Output Emergency Power	12W		30W	
Rated Duration Time	1.5 hours	3 hours	1.5 hours	3 hours
Built-in LFP Lithium Battery	6.4V 4Ah	6.4V 8Ah	6.4V 8Ah	6.4V 16Ah
Charging Time	24 hours			
Protection	Over voltage protection, overload protection, short-circuit protection, open circuit protection			
Indication LED	Red, Green			
Test Facility	Momentary Test Switch			
IP Grade	IP67			
Operating Temperature	-10°C ~ + 50°C			
Dimensions	225 x 85 x 45 mm		255 x 85 x 45 mm	
Standards/Compliance	IEC 61347-2-7, SS 563			



200W, 28000lm / light

## LED High Bay Light Emergency Lighting Solution

**IP67 Moisture Proof**



LED Emergency Power Supply  
Model WEPS8000-60-03



LED High Bay Light



**60W, 8000lm / light**  
**3 hours duration**

**in Mains Power Failure Accident**

## LED Emergency Power Supply

Outdoor Usage

For Wet or Tough Environment

### WEPS series

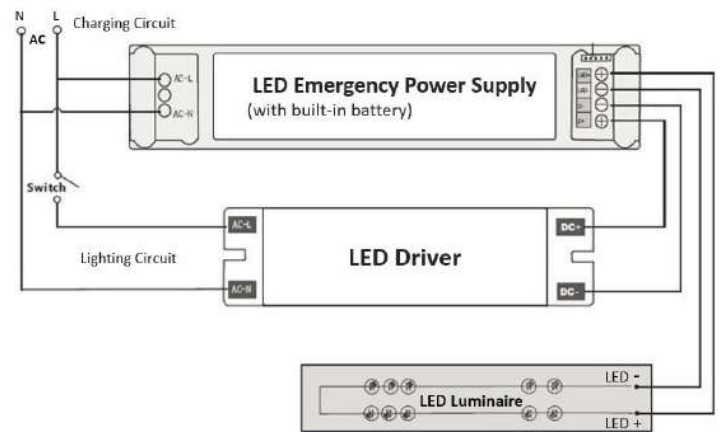
IP67 Waterproof, Built-in LFP batteries



IP67 CE

- Only for LED load
- To power a LED luminaire at a reduced lumen flux
- Automatically activated in the event of power cuts
- Constant current output
- Over voltage protection, overload protection, short-circuit protection, open circuit protection
- Over-charge protection, over-discharge protection, over-temperature protection of built-in battery
- Quarterly self-inspection function
- Indication: green \* mains supply, red \* charging, red blinking \* fault

#### Connection Diagram



	WEPS8000-60-01	WEPS8000-60-03	WEPS12000-100-01	WEPS12000-100-03
LED Load Power Range	200 - 300W		300 - 500W	
Max. LED Driver Current	8000mA		12000mA	
Input Voltage	AC100-277V 50/60Hz			
Output Voltage	DC25V-85V			
Output Emergency Power	60W		100W	
Rated Duration Time	1.5 hours	3 hours	1.5 hours	3 hours
Built-in LFP Lithium Battery	6.4V 16Ah	6.4V 32Ah	12.8V 15Ah	12.8V 30Ah
Charging Time	24 hours			
Protection	Over voltage protection, overload protection, short-circuit protection, open circuit protection			
Indication LED	Red, Green			
Test Facility	Momentary Test Switch			
IP Grade	IP67			
Operating Temperature	-10°C ~ + 50°C			
Dimensions	255 x 120 x 55 mm			340 x 120 x 55 mm
Standards/Compliance	IEC 61347-2-7, SS 563			

# CB Certificate



Ref. Certif. No.

**FI-48373**

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEME

## CB TEST CERTIFICATE

Product

LED Recessed Luminaires (LED PANEL LIGHT)

Name and address of the applicant

Ningbo Hi-Tech Garnde Lighting Technology Corp.  
506, 1377 Jianlan Road, Hi-Tech Zone, Ningbo,  
Zhejiang, China

Name and address of the manufacturer

Ningbo Hi-Tech Garnde Lighting Technology Corp.  
506, 1377 Jianlan Road, Hi-Tech Zone, Ningbo,  
Zhejiang, China

Name and address of the factory

Ningbo Hi-Tech Garnde Lighting Technology Corp.  
506, 1377 Jianlan Road, Hi-Tech Zone, Ningbo,  
Zhejiang, China

*Note: When more than one factory, please report on page 2*

☐ Additional Information on page 2

Ratings and principal characteristics

100 V - 240 V ~; 50 Hz / 60 Hz; Class II; IP20;  
ta 45 °C; Other details see model list on page 2

Trademark / Brand (if any)

GARNDE

Customer's Testing Facility (CTF) Stage used

-

Model / Type Ref.

Details see model list on page 2

Additional information (if necessary may also be reported on page 2)

RG0, Non-user replaceable LED light source

☒ Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60598-2-2:2011  
IEC 60598-1:2014, IEC 60598-1:2014/AMD1:2017  
National Differences:  
SA

As shown in the Test Report Ref. No. which forms part of this Certificate

GZES210301369401

This CB Test Certificate is issued by the National Certification Body

SGS Fimko Ltd  
Takomotie 8  
FI-00380 Helsinki, Finland

**SGS**

Date: 2021-03-25

Signature:

Ralf Klingberg  
Certification Manager



Ref. Certif. No.

FI-48373

## Additional information:

## Model list

Model name	Wattage	Used LED Driver	Size (L*W*H)	CCT.
PTB-S595-40-W-WW	40 W	TB-JTV2442F-1000GQ	595*595*30 mm	3000 K
PTB-S595-40-W-NW	40 W	TB-JTV2442F-1000GQ	595*595*30 mm	4000 K
PTB-S595-40-W-CW	40 W	TB-JTV2442F-1000GQ	595*595*30 mm	6500 K
PTB-S600-40-W-WW	40 W	TB-JTV2442F-1000GQ	600*600*30 mm	3000 K
PTB-S600-40-W-NW	40 W	TB-JTV2442F-1000GQ	600*600*30 mm	4000 K
PTB-S600-40-W-CW	40 W	TB-JTV2442F-1000GQ	600*600*30 mm	6500 K
PTB-2951195-40-W-WW	40 W	TB-JTV2442F-1000GQ	295*1195*30 mm	3000 K
PTB-2951195-40-W-NW	40 W	TB-JTV2442F-1000GQ	295*1195*30 mm	4000 K
PTB-2951195-40-W-CW	40 W	TB-JTV2442F-1000GQ	295*1195*30 mm	6500 K
PTB-3001200-40-W-WW	40 W	TB-JTV2442F-1000GQ	300*1200*30 mm	3000 K
PTB-3001200-40-W-NW	40 W	TB-JTV2442F-1000GQ	300*1200*30 mm	4000 K
PTB-3001200-40-W-CW	40 W	TB-JTV2442F-1000GQ	300*1200*30 mm	6500 K
PTB-5951195-60-W-WW	60 W	TB-JTV2438F-1300GQ	595*1195*30 mm	3000 K
PTB-5951195-60-W-NW	60 W	TB-JTV2438F-1300GQ	595*1195*30 mm	4000 K
PTB-5951195-60-W-CW	60 W	TB-JTV2438F-1300GQ	595*1195*30 mm	6500 K
PTB-6001200-60-W-WW	60 W	TB-JTV2438F-1300GQ	600*1200*30 mm	3000 K
PTB-6001200-60-W-NW	60 W	TB-JTV2438F-1300GQ	600*1200*30 mm	4000 K
PTB-6001200-60-W-CW	60 W	TB-JTV2438F-1300GQ	600*1200*30 mm	6500 K

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Date: 2021-03-25

Signature:

Ralf Klingberg  
Certification Manager

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