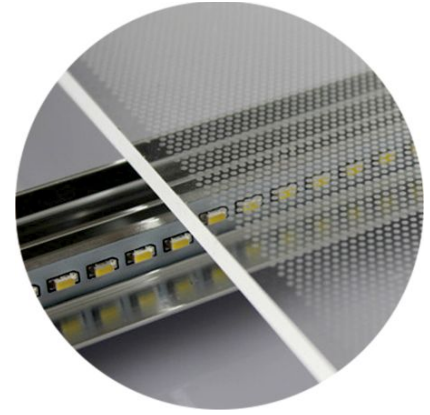
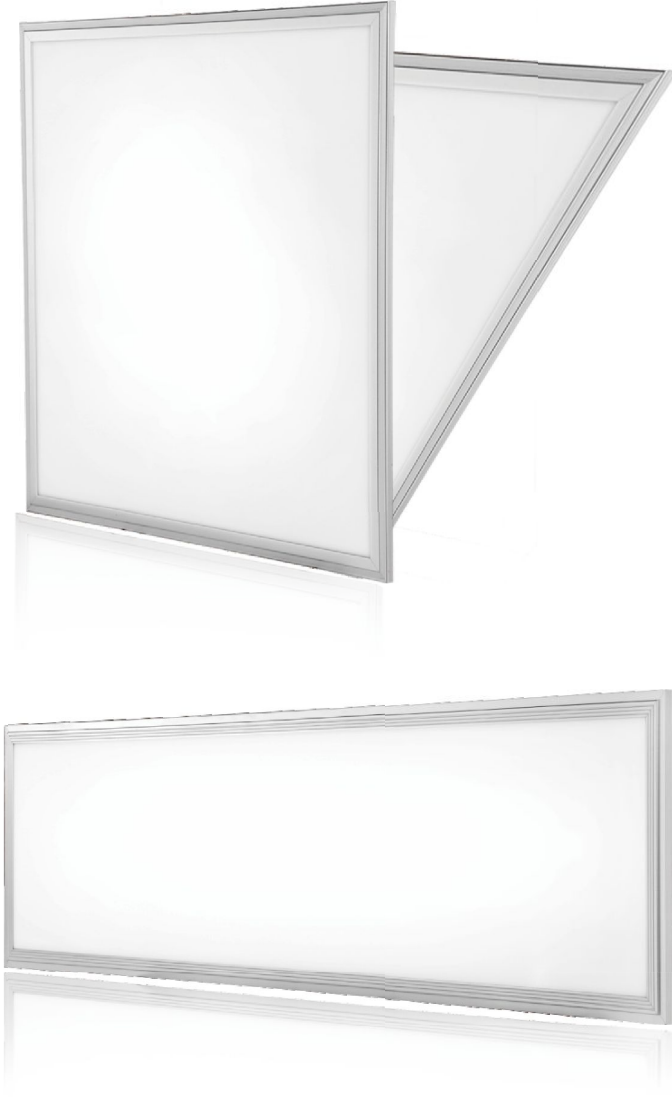


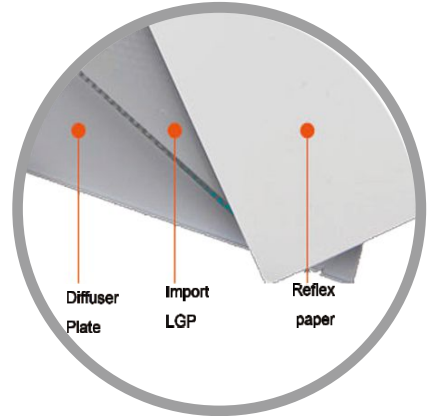
# LED Panel Lighting



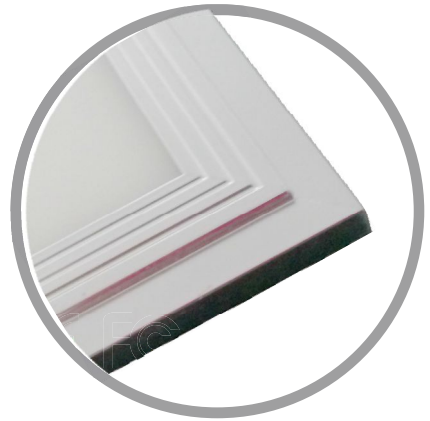
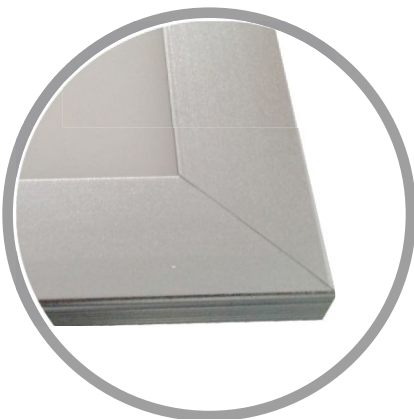
AC LIGHTING TECHNOLOGY LIMITED



High Quality Material



Difference Frame



# Data Sheet



**AC LIGHTING TECHNOLOGY LIMITED**

**Model NO.**

Model NO.	Size	LED Chip	LED Qty	CR/PF	Input/Output Vol	Power	Lumens	Beam Angle	Color
AC-SPL2020-12WA	200*200*12.5mm 195*195*12.5mm	Edison SMD2835	55pcs	>80Ra/>0.9	AC85-265V 30-40VDC	12W	900-1000lm	120°	2700-7000K
AC-SPL3030-18WA	300*300*12.5mm 295*295*12.5mm	Edison SMD2835	88pcs	>80Ra/>0.9	AC85-265V 30-40VDC	18W	1600-1800lm	120°	2700-7000K
AC-SPL3060-18WA	300*600*12.5mm 295*595*12.5mm	Edison SMD2835	88pcs	>80Ra/>0.9	AC85-265V 30-40VDC	18W	1600-1800lm	120°	2700-7000K
AC-SPL3060-25WA	300*600*12.5mm 295*595*12.5mm	Edison SMD2835	154pcs	>80Ra/>0.9	AC85-265V 30-40VDC	25W	2200-2400lm	120°	2700-7000K
AC-SPL3060-30WA	300*600*12.5mm 295*595*12.5mm	Edison SMD2835	176pcs	>80Ra/>0.9	AC85-265V 30-40VDC	30W	2800-3000lm	120°	2700-7000K
AC-SPL6060-40WA	600*600*12.5mm 595*595*12.5mm	Edison SMD2835	242pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	3600-3800lm	120°	2700-7000K
AC-SPL6060-48WA	600*600*12.5mm 595*595*12.5mm	Edison SMD2835	286pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	4300-4600lm	120°	2700-7000K
AC-SPL6060-60WA	600*600*12.5mm 595*595*12.5mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5500-5700lm	120°	2700-7000K
AC-SPL6262-40WA	620*620*12.5mm	Edison SMD2835	242pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	3600-3800lm	120°	2700-7000K
AC-SPL6262-48WA	620*620*12.5mm	Edison SMD2835	286pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	4300-4600lm	120°	2700-7000K
AC-SPL6262-60WA	620*620*12.5mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5500-5700lm	120°	2700-7000K
AC-SPL15120-20WA	150*1200*12.5mm	Edison SMD2835	180pcs	>80Ra/>0.9	AC85-265V 30-40VDC	20W	1400-1600lm	120°	2700-7000K
AC-SPL30150-48WA	300*1500*12.5mm 295*1495*12.5mm	Edison SMD2835	440pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	3800-4200lm	120°	2700-7000K
AC-SPL30120-40WA	300*1200*12.5mm 295*1195*12.5mm	Edison SMD2835	242pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	4000-4500lm	120°	2700-7000K
AC-SPL30120-48WA	300*1200*12.5mm 295*1195*12.5mm	Edison SMD2835	286pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	4200-4500lm	120°	2700-7000K
AC-SPL30120-60WA	300*1200*12.5mm 295*1195*12.5mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5400-5600lm	120°	2700-7000K
AC-SPL60120-60WA	600*1200*12.5mm 595*1195*12.5mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5400-5600lm	120°	2700-7000K
AC-SPL60120-70WA	600*1200*12.5mm 595*1195*12.5mm	Edison SMD2835	398pcs	>80Ra/>0.9	AC85-265V 30-40VDC	70W	6200-6500lm	120°	2700-7000K

# Data Sheet

Model NO.



AC LIGHTING TECHNOLOGY LIMITED

Model NO.	Size	LED Chip	LED Qty	CR/PF	Input/Output Vol	Power	Lumens	Beam Angle	Color
AC-SPL6060-40WB	600*600*12.5mm 595*595*12.5mm	Edison SMD2835	396pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	4800-5000lm	120°	2700-7000K
AC-SPL6060-48WB	600*600*12.5mm 595*595*12.5mm	Edison SMD2835	480pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	5800-6000lm	120°	2700-7000K
AC-SPL6060-60WB	600*600*12.5mm 595*595*12.5mm	Edison SMD2835	572pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	7200-7500lm	120°	2700-7000K
AC-SPL6262-40WB	620*620*12.5mm	Edison SMD2835	396pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	4800-5000lm	120°	2700-7000K
AC-SPL6262-48WB	620*620*12.5mm	Edison SMD2835	480pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	5800-6000lm	120°	2700-7000K
AC-SPL6262-60WB	620*620*12.5mm	Edison SMD2835	572pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	7200-7500lm	120°	2700-7000K

Model NO.	Size	LED Chip	LED Qty	CR/PF	Input/Output Vol	Power	Lumens	Beam Angle	Color
AC-SPL30120-40WB	300*1200*12.5mm 295*1195*12.5mm	Edison SMD2835	396pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	4000-4500lm	120°	2700-7000K
AC-SPL30120-48WB	300*1200*12.5mm 295*1195*12.5mm	Edison SMD2835	480pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	4200-4500lm	120°	2700-7000K
AC-SPL30120-60WB	300*1200*12.5mm 295*1195*12.5mm	Edison SMD2835	572pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5400-5600lm	120°	2700-7000K
AC-SPL60120-60WB	600*1200*12.5mm 595*1195*12.5mm	Edison SMD2835	572pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5400-5600lm	120°	2700-7000K
AC-SPL60120-70WB	600*1200*12.5mm 595*1195*12.5mm	Edison SMD2835	662pcs	>80Ra/>0.9	AC85-265V 30-40VDC	70W	6200-6500lm	120°	2700-7000K

Model NO.	Size	LED Chip	LED Qty	CR/PF	Input/Output Vol	Power	Lumens	Beam Angle	Color
AC-SPL6060-36WC	600*600*9mm 595*595*9mm	Edison SMD2835	198pcs	>80Ra/>0.9	AC85-265V 30-40VDC	36W	3100-3300lm	120°	2700-7000K
AC-SPL6060-40WC	600*600*9mm 595*595*9mm	Edison SMD2835	216pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	3400-3600lm	120°	2700-7000K
AC-SPL6060-48WC	600*600*9mm 595*595*9mm	Edison SMD2835	240pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	3800-4200lm	120°	2700-7000K
AC-SPL6060-60WC	600*600*9mm 595*595*9mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	4800-5000lm	120°	2700-7000K
AC-SPL6262-40WC	620*620*9mm	Edison SMD2835	216pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	3400-3600lm	120°	2700-7000K
AC-SPL6262-48WC	620*620*9mm	Edison SMD2835	288pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	3800-4200lm	120°	2700-7000K
AC-SPL6262-60WC	620*620*9mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	4800-5000lm	120°	2700-7000K

Model NO.	Size	LED Chip	LED Qty	CR/PF	Input/Output Vol	Power	Lumens	Beam Angle	Color
AC-SPL30120-40WC	300*1200*9mm 295*1195*9mm	Edison SMD2835	216pcs	>80Ra/>0.9	AC85-265V 30-40VDC	40W	3300-3500lm	120°	2700-7000K
AC-SPL30120-48WC	300*1200*9mm 295*1195*9mm	Edison SMD2835	240pcs	>80Ra/>0.9	AC85-265V 30-40VDC	48W	3700-4000lm	120°	2700-7000K
AC-SPL30120-60WC	300*1200*9mm 295*1195*9mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	4700-4900lm	120°	2700-7000K
AC-SPL60120-60WC	600*1200*9mm 595*1195*9mm	Edison SMD2835	336pcs	>80Ra/>0.9	AC85-265V 30-40VDC	60W	5000-5300lm	120°	2700-7000K
AC-SPL60120-72WC	600*1200*9mm 595*1195*9mm	Edison SMD2835	396pcs	>80Ra/>0.9	AC85-265V 30-40VDC	72W	6400-6600lm	120°	2700-7000K

# Features Application



**AC LIGHTING TECHNOLOGY LIMITED**

## Features:

1. Adopt imported high quality light source SMD2835, single lumen 22 lumen above. high brightness , excellent heat dissipation.
2. Imported guide plate from Japan Mitsubishi, the light guide light rate is 85% above. No dark, no bright side, lighting soft and uniformity.
3. High quality Isolation constant current driver, stable performance, output voltage is DC30-40V, low power consumption, high power efficiency.
4. High energy saving, high brightness, the best newest efficiency constant-current driver.
5. Environment-friendly, no UV or IR radiation, no heating effect and no poison.
6. Uniform lighting surface, wide lighting angle.
7. Ultra and gently, professional structure and feature design, more artistic.
8. Stable and durable: the lifetime is more than 50.000 hours , is more 50 times than incandescent light , is more 10 times than energy light , saving much maintain and replace charge .
9. LED panel light is a kind of high quality indoor lighting lamp, its external border formed by the aluminum anodizing, improved the corrosion resistance, the sheet hardness and good decorative feature of aluminum alloy.
10. LED panel light have the unique optical design, the light through the LGP, can production uniform surface lighting effect.
11. Warranty can be 3-5years

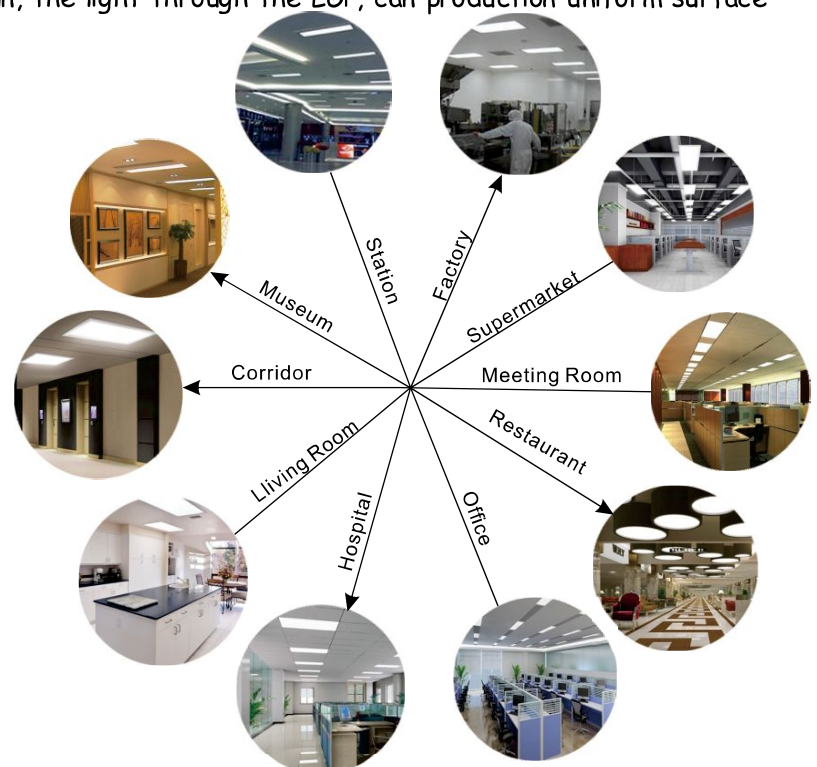
LED Panel Lighting is widely using at all kinds of commercial lighting application.

Office, Meeting Room, Restaurant, Supermarket, Factory, Station, Museum, Corridor, Living Room

Hospital etc.....

Replace of Tradition fluorescent tube, Ceiling lamps

It will be more and more popular in all kinds of commercial and home lighting

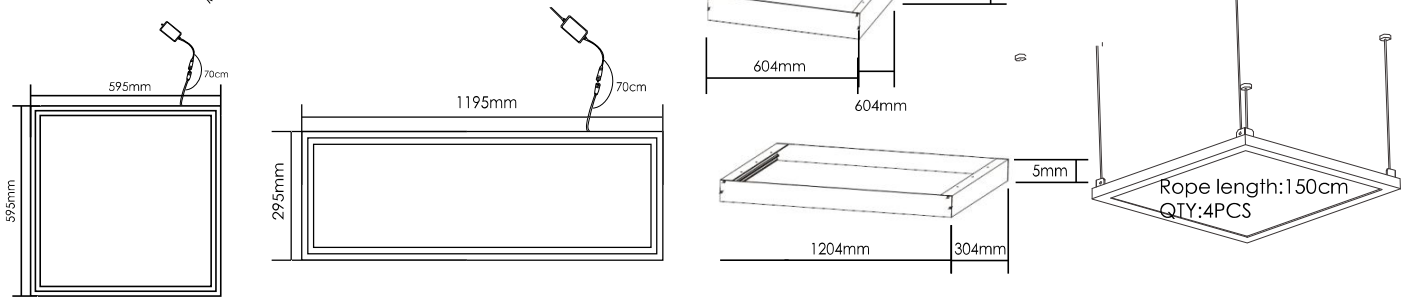


# Installation Instruction



**AC LIGHTING TECHNOLOGY LIMITED**

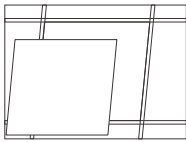
## Product Size and Fittings:



## Installation Step as Follows:

### A. Embedded

1. Take off Ceiling plaster tablet (as picture 1)
2. Connect the Wire (as picture 2)
3. Fix the panel Light on into the ceiling screens (as picture 3)
4. After steady the panel light, you can connect the electric current to use (as picture 4)



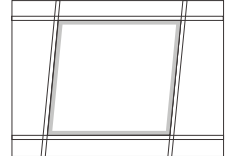
(Picture 1)



(Picture 2)



(Picture 3)



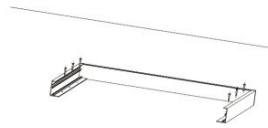
(picture 4)

### B. Surface mounted

1. Fix the ceiling frame into the ceiling or wall (as picture 1)
2. Connect the wire (AC/DC Wire) and put the location well (as picture 2)
3. Fix the panel light on the ceiling frame (as picture 3)
4. After steady the panel light, you can connect the electric current to use (as picture 4)



(Picture 1)



(Picture 2)



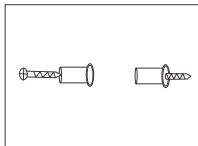
(Picture 3)



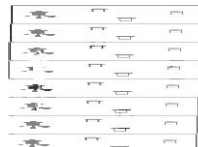
(Picture 4)

### C. Suspending Type

1. Take off the cassette and install the screw cassette (as picture 1)
2. Fix the cassette onto the ceiling (as picture 2)



(Picture 1)



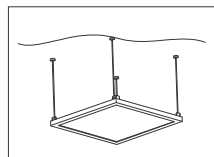
(Picture 2)

3. Lock the Line controller into the cassette (as picture 3)



(Picture 3)

4. Adjust the length of the iron line well and then connect the power supply, then you can power (as picture 4)



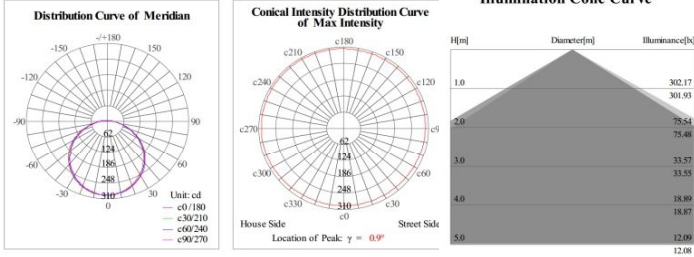
(Picture 4)

# IES Test Report

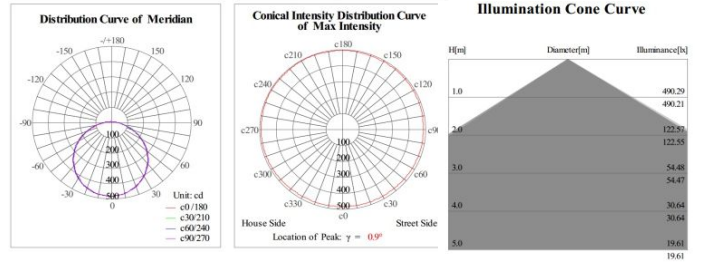


**AC LIGHTING TECHNOLOGY LIMITED**

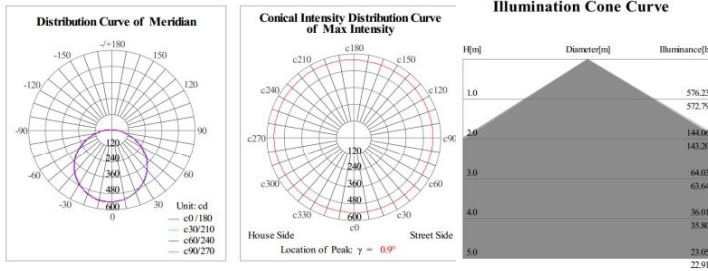
## 12W



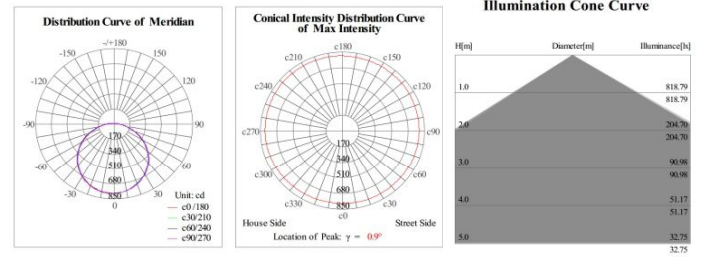
## 18W



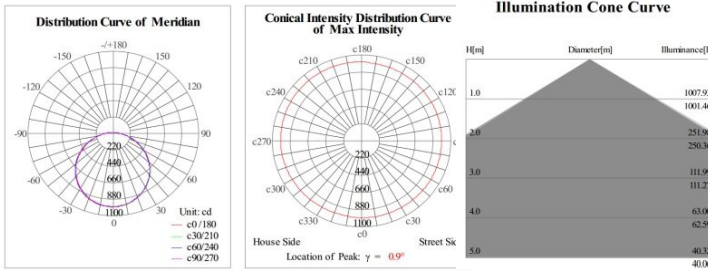
## 25W



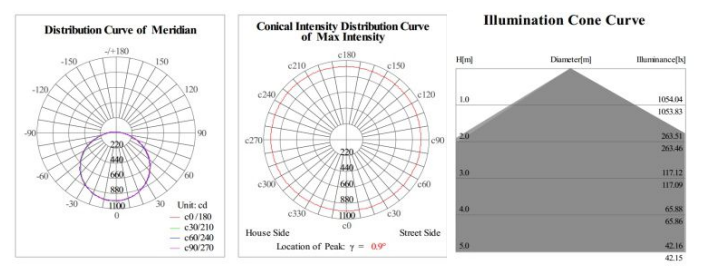
## 30W



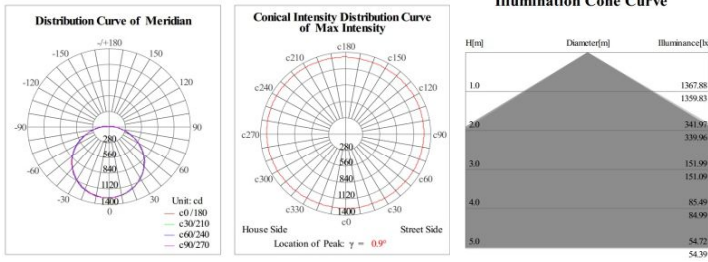
## 36W



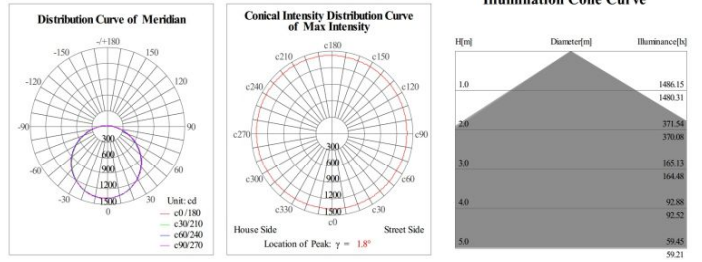
## 40W



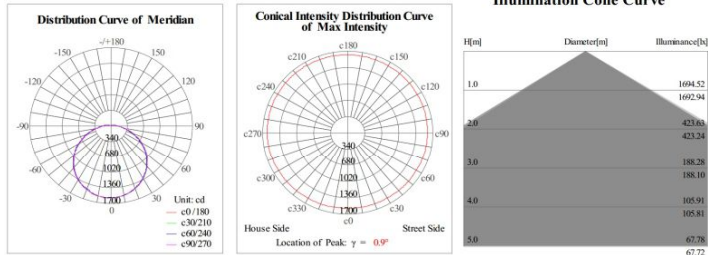
## 40W



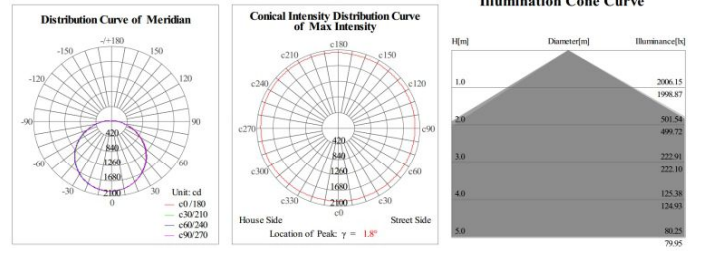
## 48W



## 60W



## 75W



# Certificate



AC LIGHTING TECHNOLOGY LIMITED

# Certificate:



# Certificate(Driver):

**SAA APPROVALS**

**Certificate of Approval**

Certificate No.: SAA-140155-EA  
Date of Issue: 12 March 2014

**Class Description:** Power Supply or Charger  
**Product Designation:** LED Driver  
**Brand Name:** LF-GDE0912200(A)  
**Model No.:** LF-GDE0912200(A)  
**Markings:** Input: 100-240V~50/60Hz, Max 0.8A  
Output: 12VDC/2000mA, Max 20W/24W  
to IEC 61347-2-13 Ed. 1.0  
to IEC 61347-2-13 Ed. 1.0  
to IEC 61347-2-13 Ed. 1.0

**Standard:** IEC 61347-2-13 Ed. 1.0  
**Conforms to:** IEC 61347-2-13 Ed. 1.0  
**Approved Mark:** SAA-140155-EA or RDN  
**Date First Registered:** 10 February 2014  
**Date of Expiry:** 10 February 2019

Shenzhen Ledfriend Optoelectronics Co., Ltd.  
Floor 3, Building B, Lianchen Industrial Area,  
Xixun Industrial Area, Guangming Street,  
Guangming New District, Shenzhen,  
Guangdong 518107  
P.R. CHINA

Power Supply or Charger  
LED Driver  
LF-GDE0912200(A)  
Input: 100-240V~50/60Hz, Max 0.8A  
Output: 12VDC/2000mA, Max 20W/24W  
to IEC 61347-2-13 Ed. 1.0  
to IEC 61347-2-13 Ed. 1.0  
to IEC 61347-2-13 Ed. 1.0

SAA-140155-EA or RDN  
10 February 2014  
10 February 2019

Shenzhen Ledfriend Optoelectronics Co., Ltd.  
Floor 3, Building B, Lianchen Industrial Area,  
Xixun Industrial Area, Guangming Street,  
Guangming New District, Shenzhen,  
Guangdong 518107  
PEOPLE'S REPUBLIC OF CHINA

7450

Product: Electronic controller for LED modules (LED Driver)  
Model(s): LF-GDE Series; LF-GIR Series (See attachment 1)  
Parameters: Rated Input Voltage: 100-240 VAC  
Rated Input Current: 800/910 mA  
Rated Output Current: Refer to attachment 1  
Degree of Protection: IP20  
Protection Class: II  
Method of Installation: Independent  
Type of Output: Constant current type  
Refer to appendix for details

Tested according to: EN 61347-2-13 Ed. 1.0  
EN 61347-2-13 Ed. 1.0  
EN 61347-2-13 Ed. 1.0  
EN 61347-2-13 Ed. 1.0

The product was voluntarily tested according to the listed standards. The product can be marked with this certification mark wherever above. The certification mark must not be affixed in any way which is not in accordance with the above.

Test report no.: 029-71304000-000

Date: 2014-04-30 (Helmuth Ludwig)

TUV SUD Product Service GmbH - Zertifizierungsstelle - Riefenbrunn 65 - 85339 München - Germany

**Attestation of Conformity**  
No. NB 13 12 74050 008

Holder of Certificate: Shenzhen Ledfriend Optoelectronics Co., Ltd.  
Floor 3, Building B, Lianchen Industrial Area,  
Xixun Industrial Area, Guangming Street,  
Guangming New District, Shenzhen,  
Guangdong 518107  
PEOPLE'S REPUBLIC OF CHINA

Product: Power supplies (LED Driver)

The Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2006/95/EC relating to electrical equipment designed for use with certain voltage limits. It confirms that the listed equipment complies with the essential requirements of the Directive. It refers only to the particular sample submitted for testing and approval. See also notes overleaf.

Test report no.: 681401320001

Date: 2013-12-30 (Jany Tang)

After preparation of the necessary technical documentation as well as the IEC conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

TUV SUD Product Service GmbH - Zertifizierungsstelle - Riefenbrunn 65 - 85339 München - Germany

**Attestation of Compliance**  
No. EBN 13 12 74050 008

Holder of Certificate: Shenzhen Ledfriend Optoelectronics Co., Ltd.  
Floor 3, Building B, Lianchen Industrial Area,  
Xixun Industrial Area, Guangming Street,  
Guangming New District, Shenzhen,  
Guangdong 518107  
PEOPLE'S REPUBLIC OF CHINA

Name of Object: Power supplies (LED Driver)

The Attestation of Compliance is issued according to the Directive 2004/108/EC relating to electromagnetic compatibility on a voluntary basis. It confirms that the listed equipment complies with all essential requirements of the EMC Directive and applies only to the sample and its technical documentation submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Test report no.: 681401320002

Date: 2013-12-30 (Gouy Gouy)

After preparation of the necessary technical documentation as well as the IEC conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

TUV SUD Product Service GmbH - Zertifizierungsstelle - Riefenbrunn 65 - 85339 München - Germany

**CERTIFICATE**  
No. U6 14 04 74050 013

Holder of Certificate: Shenzhen Ledfriend Optoelectronics Co., Ltd.  
Floor 3, Building B, Lianchen Industrial Area,  
Xixun Industrial Area, Guangming Street,  
Guangming New District, Shenzhen,  
Guangdong 518107  
PEOPLE'S REPUBLIC OF CHINA

Production Facility(ies): 7450

Certification Mark:

Product: Electronic controller for LED modules (LED Driver)  
Model(s): LF-GDE Series; LF-GIR Series (See attachment 1)  
Parameters: Rated Input Voltage: 100-240 VAC  
Rated Input Current: 800/910 mA  
Rated Output Current: Refer to attachment 1  
Degree of Protection: IP20  
Protection Class: II  
Method of Installation: Independent  
Type of Output: Constant current type  
Refer to appendix for details

Tested according to: EN 61347-2-13 Ed. 1.0  
EN 61347-2-13 Ed. 1.0  
EN 61347-2-13 Ed. 1.0  
EN 61347-2-13 Ed. 1.0

The product was voluntarily tested according to the listed standards. The product can be marked with this certification mark wherever above. The certification mark must not be affixed in any way which is not in accordance with the above.

Test report no.: 029-71304000-000

Date: 2014-04-30 (Helmuth Ludwig)

TUV SUD Product Service GmbH - Zertifizierungsstelle - Riefenbrunn 65 - 85339 München - Germany

**Subject: FCC Statement**

Enlightenment please that the FCC test report is optional no. 68-740-13-022-01. We suggest you to put following statement in the label to the product, when the device is so small or for such use that it is not practicable to place this statement on it, it shall be placed in prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The instruction manual shall include the following statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: To comply with the limits of the Class B digital device, pursuant to Part 15 of the FCC Rules, this device is to comply with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables may result in interference to radio or television reception. Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Best regards,  
Date: 2014-02-18

TUV SUD Product Service GmbH - Zertifizierungsstelle - Riefenbrunn 65 - 85339 München - Germany

**IEC CB SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (BCEE) OR SCHEMES**

**IEC CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC**

Product: Power supplies (LED Driver)  
Manufacturer: Shenzhen Ledfriend Optoelectronics Co., Ltd.  
Address: Floor 3, Building B, Lianchen Industrial Area, Xixun Industrial Area, Guangming Street, Guangming New District, Shenzhen, Guangdong 518107, PEOPLE'S REPUBLIC OF CHINA

Rated Input Voltage: 100-240VAC  
Rated Input Current: 800/910mA  
Rated Output Current: Refer to appendix for details  
Degree of Protection: IP20  
Method of Installation: Independent  
Type of Output: Constant current type  
See test report for details

LF-GDE Series; LF-GIR Series  
See Test Report for details of model designation and Group Differences

EN 61347-2-13 Ed. 1.0  
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TUV SUD P88 Pte Ltd  
211-1141288-000

Date: 2013-12-30  
CBS 13 12 74050 007

TUV SUD P88 Pte Ltd - 1 Science Park Drive - Singapore 118221