

EXTRA LED ELECTRIC APPLIANCE

PRODUCT SPECIFICAT

Product Name: LED Gas station light

Product Specification:

Item Code	Features
HB-100W-G	Option : Philips SMD3030+ Mean Well Driver
HB-150W-G	
HB-200W-G	



EXTRA LED ELECTRIC APPLIANCE

CONTENS

Part1. Product features ,characteristics and scope of application	3-4page
Part2.Product configuration	4page
Part3.Product safety and performance	5-7page
Part4. Product structure drawing and specification	8page
Part5.Light distribution curve and illumination diagram	9-10page
Part6.Installation instructions	11-12page
Part7.Packing Information	13page
Part8.Warranty, after-sales service, other requirements	13page

EXTRA LED ELECTRIC APPLIANCE

一、 Product features ,characteristics and scope of application

J) Features:

Patented product, easy and quick installation.By adopting ADC12 eco-friendly die-cast aluminum .The product is much more sturdy and durable .It has excellent heat dissipation which effectively prolongs the product's lifespan.

： Lighting structure features

1.We adopt PC lens with different beam angles to design different optical distribution solutions, which available from 60°, to 90° and 70°+140°.

2.LED driver is fixed on the back of heat sink , it looks firm and exoteric ,which show the texture of product easily

3.Each individual module is connected independent,easy to divide ,combine and expand.it has strong sense of scientific and technological.

4.This heat sink is made of AL6063 stretching aluminum.heat is dissipating under the best ratio of thickness&height of cooling fin conditions. During ambient temp as 25°Cand the maximum led chip junction's temperature is 60°C,The heat will be conducted by fins evenly and automatically when the led chip junction's temperature ups to 40°C.heat sink surface is anodized to prevent rust and corrode.

5. Allcableswithrubbertubes,coppercore.excellentelectricalproperties.thereare waterproof connectors between cables to converting for outdoor user.on the one hand is to present elegant appearance ,on the other hand is to make it more durable .

6.Installation Type:fixed. All material's performance should be accorded with The international standard 's relevant stipulations.

EXTRA LED ELECTRIC APPLIANCE

2)、Application

Ideal for stadiums, gas station, squares, road, parking lots, building exterior wall, etc.

Usage scenarios and project cases:



二、Product parameters

Option:

Quality more reliable, steadier. 5years warranty .It can meet all customer's demands

Watts	Mean Well Driver			Philips SMD3030	
	Qty	Model Number	Parameter	Qty*pcs	Model number
HB-100W	1PCS	ELG-100-36A	The specific parameters are subject to the attachments	48PCS*2	
HB-150W	1PCS	ELG-150-36A		48PCS*3	
HB-200W	1PCS	ELG-200-36A		48PCS*4	

EXTRA LED ELECTRIC APPLIANCE

Taiwan MeanWell Driver is well-known in the led driver industry of world ,It has high product performance , the features of ELG series as following:

Full range of universal voltage input AC100-305V		
Constant voltage +Constant current		
Surge protection 6KV (IEC 61000-4-5)		
Protection devices	excess current	95~108% Constant current limit , Automatic recovery after remove abnormal load
	shortcircuit	Automatic recovery after remove abnormal load
	excess voltage	Off the out put voltage,restart it for recovery
	excess temperature	Off the output voltage, restart it for recovery

Option :Parameters

Input	Voltage	AC100~305V 142-431VDC
	Alternating Current	1.8A/115VAC[1.2A/230VAC 1.0A/277VAC
	Frequency	47~63Hz
	PowerFactor	PF \geq 0.97/115VAC, PF \geq 0.95/230VAC, PF \geq 0.92/277VAC
	Totalhamornical distortion	THD<20% (@load \geq 50%/115VC, 230VAC; @load \geq 75%/277VAC)
Electrical Performance	compression resistance	O/P-FG:1.5KVAC
	SurgeImmunity	Linetoground:6KV, Linetoline: 4KVI/P-O/P,I/P-FG,O/P-FG
	LeakageCurrent	277VAC, <2.5mA/277VAC
	Insulation Resistance	ACL+N, G, \geq 100m Ω /500V, I/P-FG,O/P-FG: \geq 100MOhms/500VDC/25°C/70%RH
	GroundResistance	\leq 75m Ω
optical parameters	Luminous flux	RA2700-6500K: 120-130 lm/W, Red light 620-625nm: 40-50 lm/W, Green light515-525nm: 80-90 lm/W Blu-ray460-470nm: 18-25 lm/W
	Color rendering indexRA	2700K-6500K: \geq 70 \geq 80
	BeamAngle	60°90°70°+140°
	Colortemperature	5500-6500K, 4000-5000K, 2700-3500K
	Wavelength	Redlight620-625nm, Greenlight515-525nm, Blu-ray460-470nm,

EXTRA LED ELECTRIC APPLIANCE

三、Product safety and performance

1、Cable

Rubber cable : DC copper core is 0.75mm²,AC copper core is 1.0mm².The insulation resistance of core can be as high as 50MΩKM when the cable working at temperature of 20°C.with good flexibility, fire-resistant ,cold-resistant,heat-resistant

and UV-resistant.able to bear large external mechanical forces .

Wiring regulations

Brown wire Blue wire	wire	Green and Yellow
AC170-250V (L)	AC170-250V (N)	(G)

2、PCB board

PCB thickness 1.5MM , thermal conductivity:2.0 W/(mK).clearance of creepage distance is 5MM. insulation voltage;3000V

3、Thermal Silicone Grease

Famous brand: Henkel loctite . Model number: TG100 thermal conductivity:3.4 W/(mK) .It has good resistance to weather and chemical, also high insulation, without solidification, no corrosion to substrates. besides it can be used in temperature between -40°C~150°C for long term .

Test Item	Test Condition :	Qualification Evaluation :
Cable tension		
Heating test	The light is applied to be pressured one hour with 20N by a 5mm steel ball and soak in cold water 10s when it is horizontal;	Diameter of indentation ≤2mm
Hanging Strength	Putting permanent load of fourfold light's weight on the loading direction of lamp for 1hour.	No deformation
Endurance Test	Ambient temperature: (35 ± 2) °C, Test time: 240h, continuous cycle 10 times, each cycle is 24h.	light cannot be deformed ,cracked and scorched.It must be safe ,the marking should be clear
Temperature Test	Ambient temperature: 25°C ± 1°C It should be measured when the ratio of temperature changing less than or equal to 1°C/h. Testing voltage is 1.06U (U=rate voltage);	The temperature of each test point meets the relevant requirements. For details, see the lab report or test report.
Vibration Test	10~500HZ, 5G 12 Minute/Cycle, Each axis 72 minutes, X,Y,Z	no parts are loose or undeformed

EXTRA LED ELECTRIC APPLIANCE

IP65	Sand&Dusttest IPinitialcharacteristicdigitalis (6)	No dust no sediment as qualified
	1.50-75µm talc powder dosage:2.1kg turn on the light for 30minutes before test . then put it into testing box for 3hours under floating dust state after finished blowing dust for 3 minutes 。	
	Sand&Dust test (IP The second characteristic digital is 5)	No water no hydrops as qualified
	light is subjected to a water jet of 6.3m from all practicable directions by means of a hose having a nozzle .the nozzle shall be held 2.5-3m away the sample . the water pressure at the nozzle shall be adjusted to achieve a water delivery rate of 12.5L/min.spraying time 1minute per square at least for 10minutes.all parts should be tested which requests to be sprayed.	

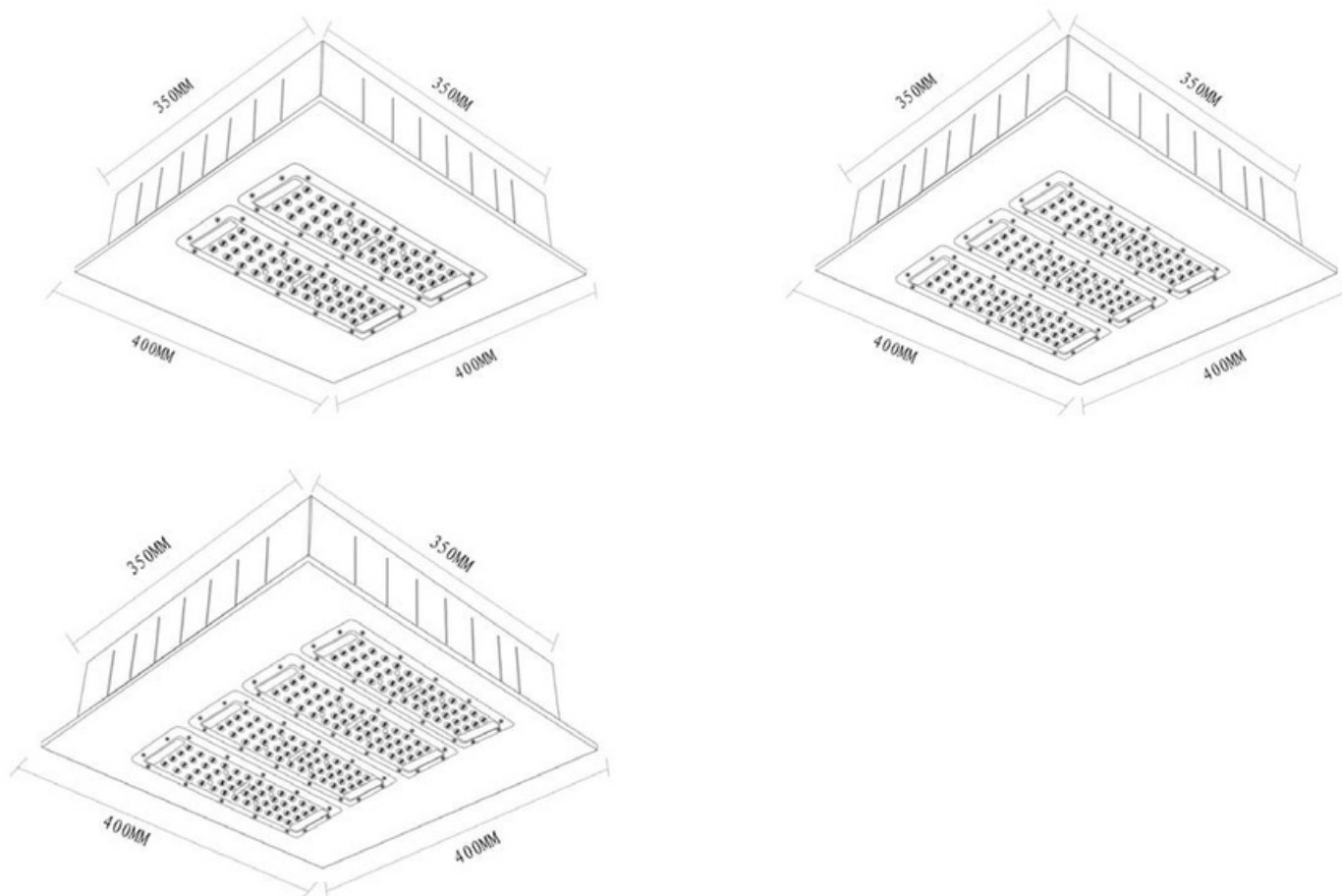
Test Item	Test Condition:	Qualification Evaluation:
Ground Resistance	10A,	≤75mΩ
Hi-potTest	AC line L plus N, and ground line G I/P-O/P,I/P-FG,O/P-FG, Through 1500 high pressure,	No ARC and phenomenon of leakage of electricity
Leakage Current	under AC 277V normal condition lighting	≤2.5mA/277VAC
Insulation Resistance	AC line L+N, Between G and the ground, By the 500V I/P-O/P,I/P-FG,O/P-FG:	100M Ohms/500VDC/25°C/70%RH

I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25°C /70%RH

OperatingTemperatureRange (Ambient temp25°C, Humidity30%RH)	Tcase=-40~+90°C
Max. rated temperature of housing (Ambient temp25°C, Humidity30%RH)	Tcase=+70°C
Working Humidity	20~95%RH, non-condensing
Storage Temperature and Humidity	-40~+90°C, 10~95%RH

EXTRA LED ELECTRIC APPLIANCE

四、Product structure drawing and specification



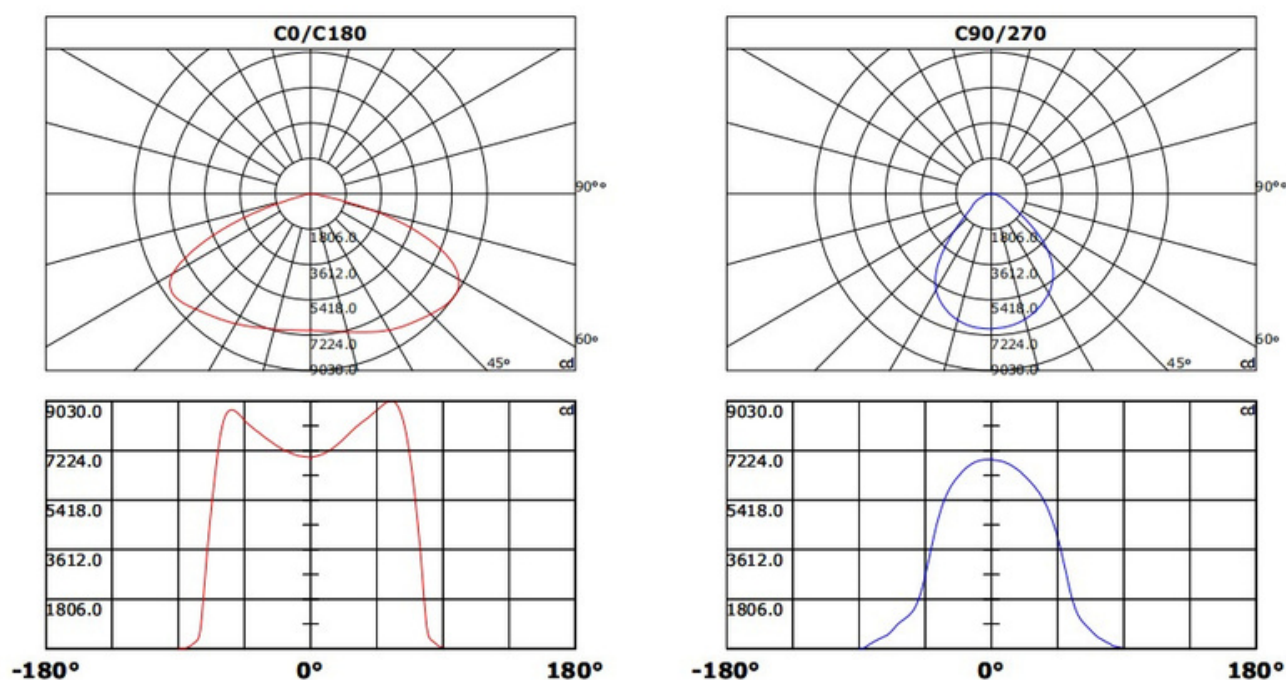
#	Product Name	Watts (W)	Item Code	Body Size (mm)	Carton Size (mm) & Weight	Remark
1	LED HIGHBAY	100W	HB-100W	400*400*130	48*48*17 (5KG) 1 PCS/CTN	2 Module
2	LED HIGHBAY	150W	HB-150W	400*400*130	48*48*17 (7.9KG) 1PCS/CTN	3 Module
3	LED HIGHBAY	200W	HB-200W	400*400*130	48*48*17 (8.4KG) 1PCS/CTN	4 Module

EXTRA LED ELECTRIC APPLIANCE

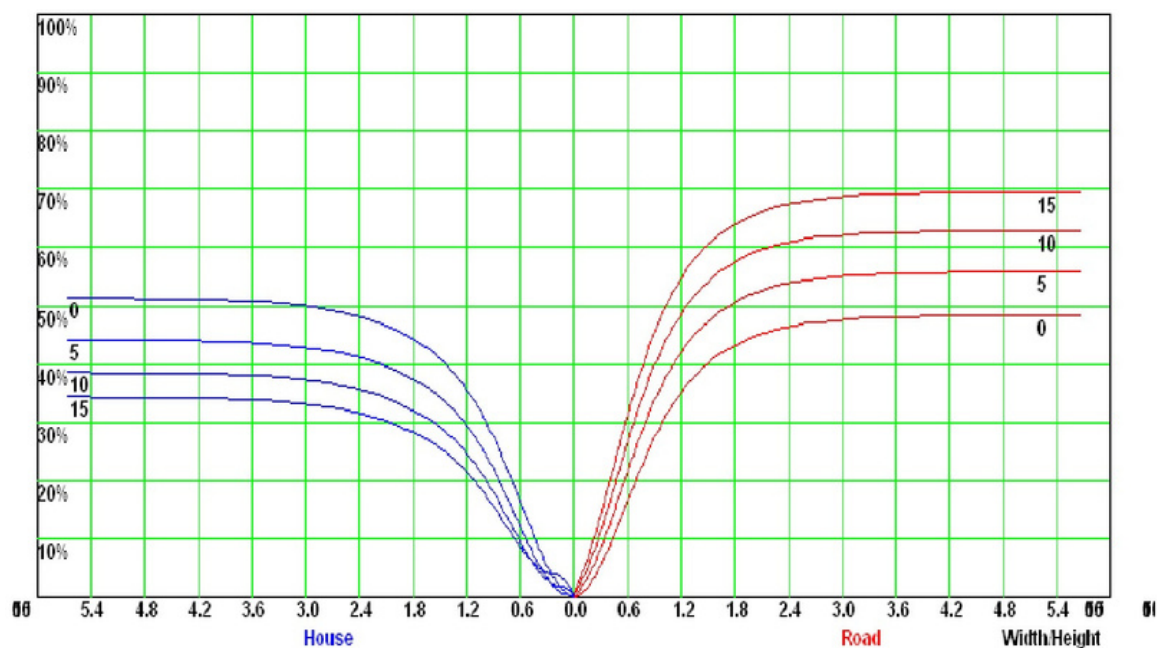
5、 Light distribution curve and illumination diagram

PC lens with 60°, 90° and 70°+140°.

Light Distribution Curve [Unit: cd]



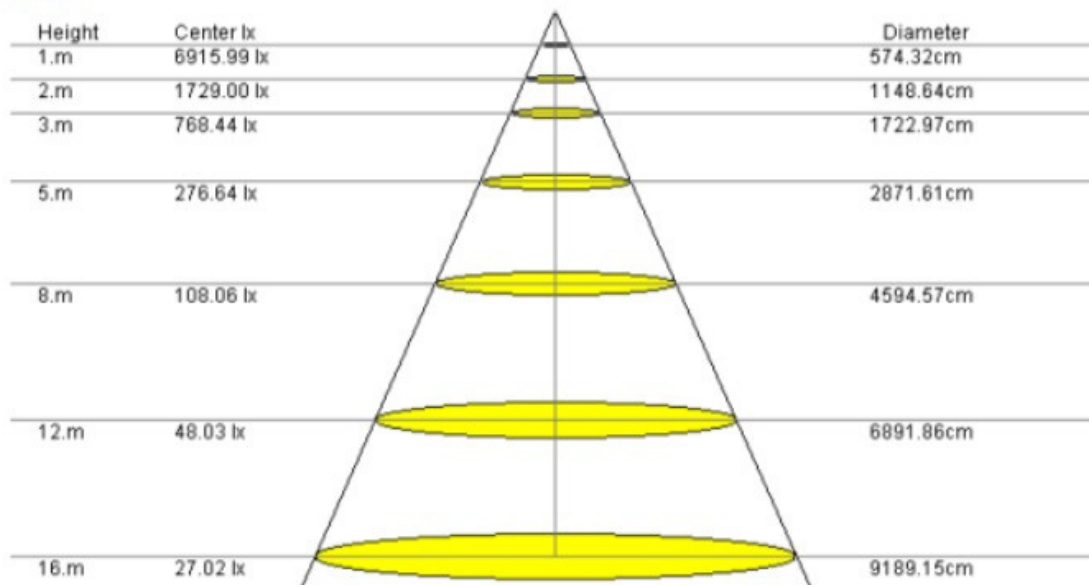
Coefficient Utilization Curve



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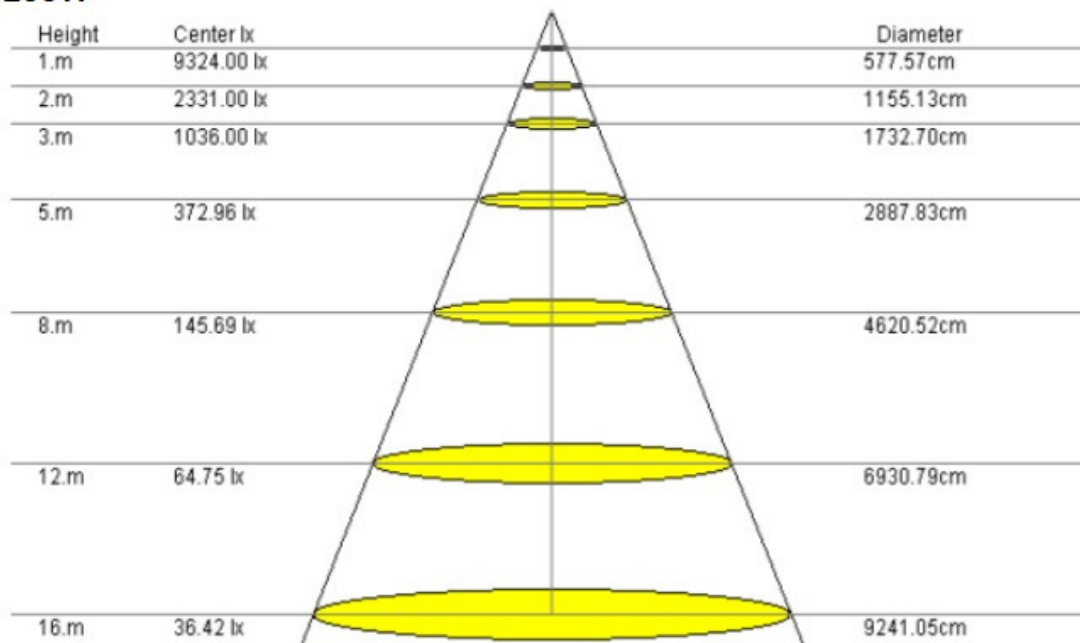
Lux-Distance Curve

150W



Beam Angle: 141.60° (50% I_{max})

200W



Beam Angle: 141.80° (50% I_{max})

EXTRA LED ELECTRIC APPLIANCE

6、 Installation &. Instruction :

1.The capacity of the installation fixture should match the weight of lights.

2.WorkingTemperature-30°C~+70°C

3.Ensure these connections of wire are sealed to prevent leakage when you install.

4.Take measures to against leakage water and water proof accordingly when it connects with an external power source.

5. Do not use the lamp against of fire regulation.

6.This product should be installed by a qualified electrician.the correct connection way of three-core cable :
Brown wire - Live wire , Blue wire - Neutral wire ,Yellow wire - Grounding wire .

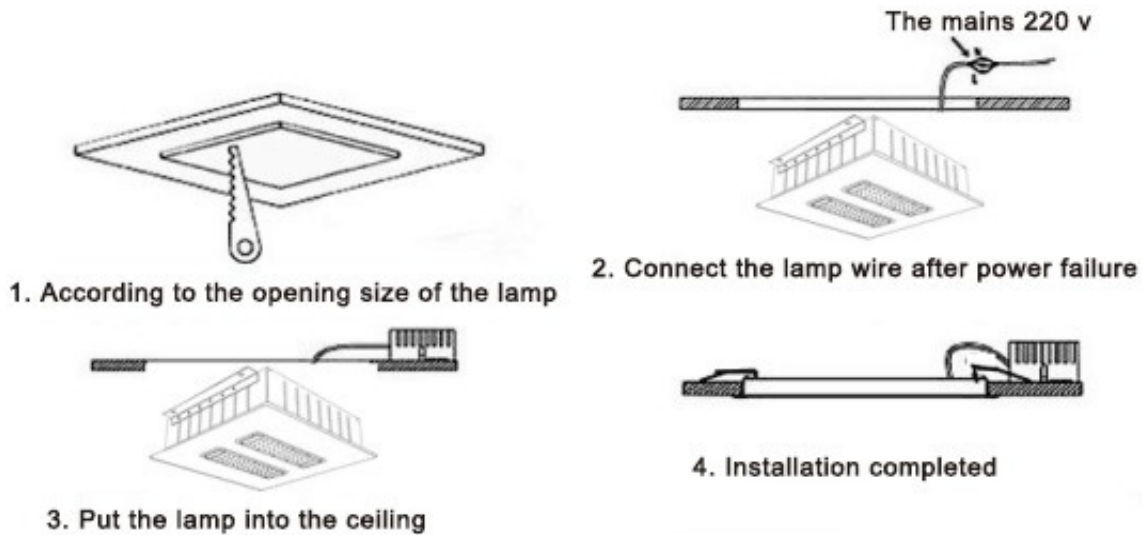
7.The operating voltage is AC 100-265V 50/60Hz. do not exceed this range of voltage & frequency .

8.Do light take and put when you carry .do not step on .

EXTRA LED ELECTRIC APPLIANCE

Installation Instruction&figures

1. As figure below . two holes (dia12mm/depth60-80mm) had been punched on the symmetrical position of tunnel wall according to the cut-out size from spec.



2.Top-absorbing installation , embedded installation , simple maintenance , easy operation , low cost.



3.The lamp wiring should be followed below wiring diagrams of power input to connect with AC220V

Wiring diagrams of power input

Brown wire	Blue wire	Green and Yellow wire
AC170-250V (L)	AC170-250V (N)	AC (G)

EXTRA LED ELECTRIC APPLIANCE

7、 Packing Information



8、 Warranty, After-sales service, other requirements

All our products are guaranteed for 5 years,It's based on store ,installation, use and maintenance properly.we will offer solutions such as repairs, exchange spare parts ,new replacement within guarantee period. The repair materials, accessories and labor cost are charged if it's expired.

： Note

1.Make sure the power is off before you maintain

2.Cleaning PC lens regular to keep high light transmission.

3.Cleaning the dust which covered housing&heat sink to keep high heat dissipation performance.

4.Do not clean it with any water or corrosive solution.it'd better with a dry cloth.