

Opal PL-M Series

LED Panel Light



Introduction



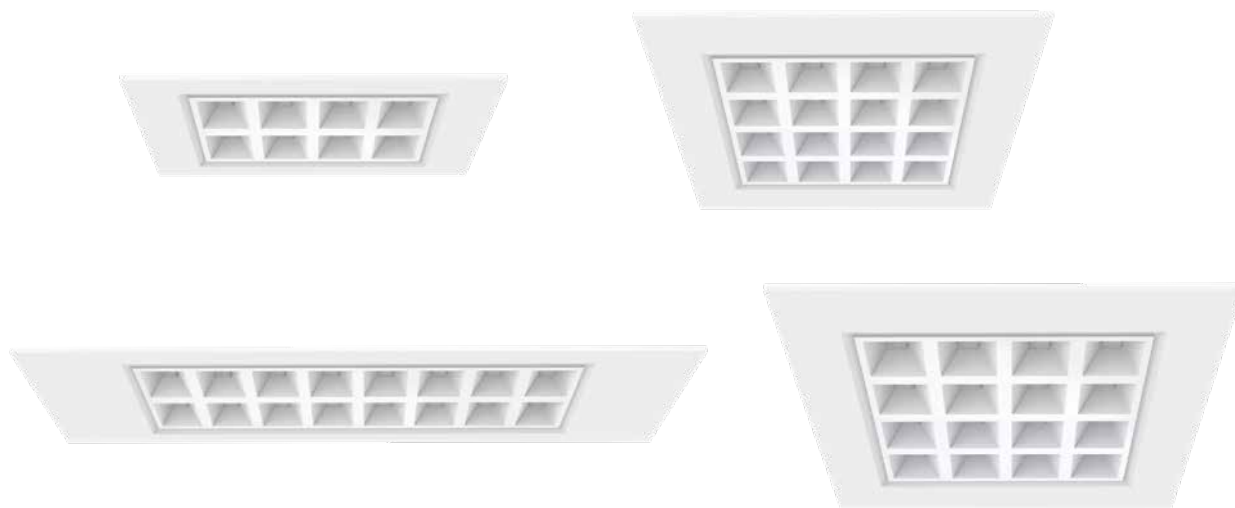
PL-M is a module design panel light with high luminous efficacy. It features PC louver reflectors to help reduce UGR, offers the ideal combination of stylish design and optimum performance for both task and general lighting. It is available in various installation methods: recessed, suspended, surface mounted and can replace traditional panel light.

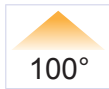
Features

- Module replaceable, easy to install and maintain.
- With high luminous efficacy, low UGR.
- Module material adopts 94-V0 PC.
- Installation: recessed, suspended and surface mounted.

Application Areas

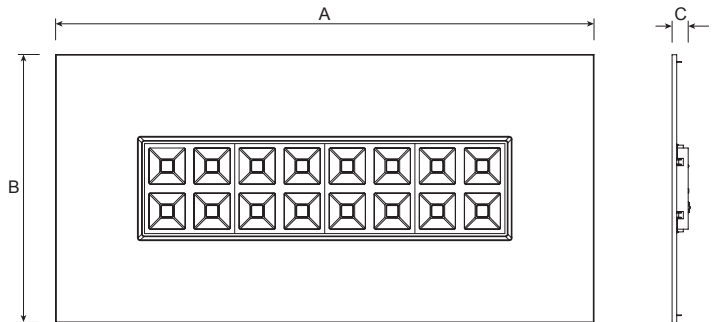
Office & school lighting: office room, meeting room, class room etc. Commercial lighting: shopping mall, super market, retailer shops etc. Other areas: hospital, laboratory, dust-free workshop etc.



**PF 0.9****CRI ≥80****CRI ≥90****SAA****5 Yrs
Warranty**

Measurement

Model	Dimension(mm)			Size(mm)	Product Weight (Kg)	
	A	B	C		N.W/PC	G.W/PC
3060	595	295	36	595*295*36	1.55	2.10
6060	595	595	36	595*595*36	2.90	3.80
6262	620	620	36	620*620*36	3.30	4.35
1230	1195	295	36	1195*295*36	2.95	3.90



Technical Data Sheet

Model No.	GUOPA-18W-3060-M	GUOPA-25W-6060-M	GUOPA-30W-6060-M	GUOPA-36W-6060-M	GUOPA-25W-6262-M	GUOPA-30W-6262-M	GUOPA-36W-6262-M	GUOPA-25W-1230-M	GUOPA-30W-1230-M	GUOPA-36W-1230-M		
Watt(W)	18W	25W	30W	36W	25W	30W	36W	25W	30W	36W		
Dimension(mm)	595*295*36	595*595*36			620*620*36			1195*295*36				
Rated Input Voltage(V)	AC230V											
Input Voltage(V)	AC220-240V											
LED	SMD											
SDCM	<6											
CCT(K)	1-CCT: 3000K / 4000K / 5000K / 5700K 3-CCT: 3000K+4000K+5700K											
"Luminous Flux (lm) ±5%	1-CCT	Non-DIM	1818~2010	3375~3552	3480~3660	3610~3900	3610~3900	3380~3560	3495~3670	3600~3920	3355~3540	3460~3635
		DIM	1800~1980	3310~3500	3420~3595	3600~3875	3600~3880	3315~3505	3425~3595	3580~3900	3295~3485	3400~3565
	3-CCT	Non-DIM	1720~1875	2630~2860	3135~3290	3520~3700	3400~3620	2640~2875	3145~3295	3450~3650	2610~2845	3105~3260
		DIM	1680~1830	2600~2815	3080~3245	3505~3680	3360~3600	2625~2800	3095~3255	3405~3610	2580~2800	3075~3215
CRI	≥80 (≥90 Optional)											
Beam Angle(°)	100°											
UGR	<16											
LED Driver	Built-out											
DIM	Yes											
Protection Class	Class II											
IP Rating	IP40											
Finishing color	White RAL 9016											
Material	PC (Modular) / SPCC (Frame)											
Lifetime (hr)	50,000h											
Glow wire test (°C)	650°C											
Operating Temp.(°C)	-20°C ~40°C											
Storage Temp.(°C)	-20°C ~65°C											
Installation	Surface mount/Pendant / Recessed											
Brand Driver option	-											

Driver Datasheet (Non-Dimmable)

Power	18W	25W	30W	36W
Rated Input Voltage(V)	AC230V			
Frequency	50/60Hz			
Input Voltage	AC220-240V			
Efficiency	85%	86%	86%	86%
Total load wattage	18W±1W	25W±5%	30W±5%	36W±5%
Power Factor	0.9			
Rated Input Current	0.1A	0.13A	0.16A	0.19A
Full load output voltage	DC28-40V	DC28-40V	DC28-40V	DC28-40V
Rated output current	450mA	650mA	720mA	850mA
Output current range	450mA±5%	650mA±5%	720mA±5%	850mA±5%
Power tolerance	±5%			
Current output tolerance	±5%			
Short circuit protection	PASS			
Over voltage protection	PASS			
Over temperature protection	PASS			
THD	-	<20% @ 230VAC		
Surge	L-N 0.5KV	L-N 1KV		
Withstand voltage	AC3750V			

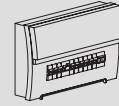
Driver Datasheet (Dimmable)

Power	18W	25W	30W	35W
Rated Input Voltage(V)	AC230V			
Frequency	50Hz			
Input Voltage	AC200-240V			
Efficiency	83%	84%	84%	84%
Total load wattage	18W±1W	25W±5%	30W±5%	35W±5%
Power Factor	0.9			
Rated Input Current	0.1A	0.14A	0.17A	0.2A
Full load output voltage	DC23-40V	DC23-40V	DC23-40V	DC23-40V
Rated output current	430mA	600mA	700mA	800mA
Output current range	430mA±5%	600mA±5%	700mA±5%	800mA±5%
Power tolerance	±5%			
Current output tolerance	±5%			
Dimming Range	8%~100%			
Short circuit protection	PASS			
Over voltage protection	PASS			
Over temperature protection	PASS			
THD	<20% @ 230VAC			
Surge	L-N 0.5KV	L-N 1KV		
Withstand voltage	AC3750V			

Installation Procedure

WARNING

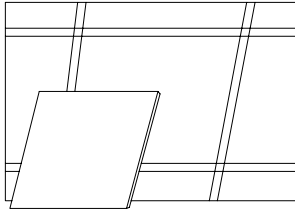
1. Switch off power supply before installation / maintenance.
2. Switch on after completing installation and examination of the circuit.
3. The panel light must be installed and maintained by professional electrician.



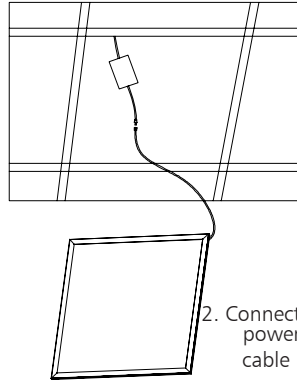
Turn Off
Power Supply

Turn off power supply before installation. Read instructions and make sure you have all the tools and accessories before installation.

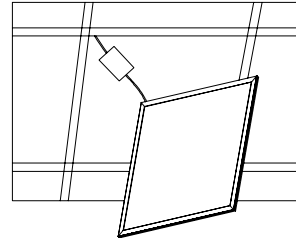
Recessed into ceiling(1)



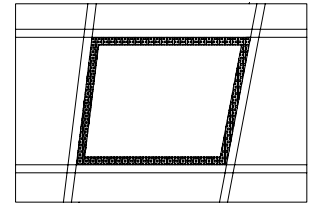
1. Remove ceiling plaster slab



2. Connect power cable

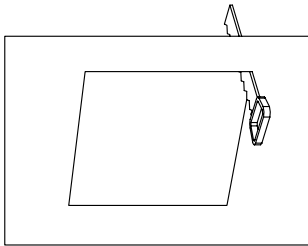


3. Fix the panel light into right place

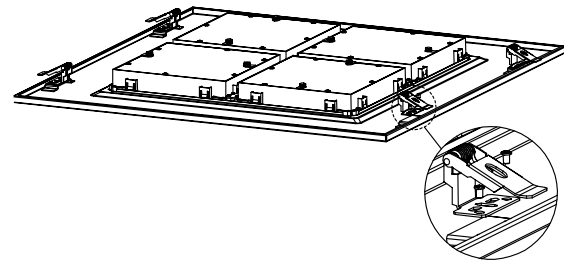


4. Stabilise the panel

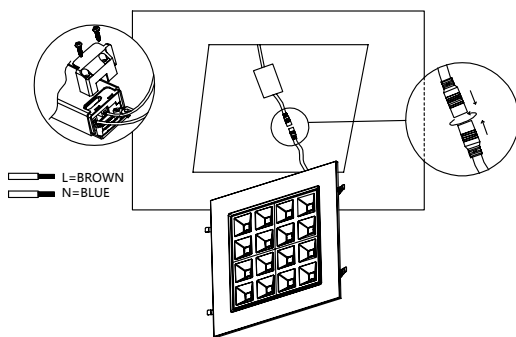
Recessed into ceiling(2)



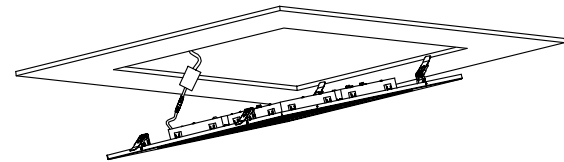
1. Open a hole according to the lamp cut out size.



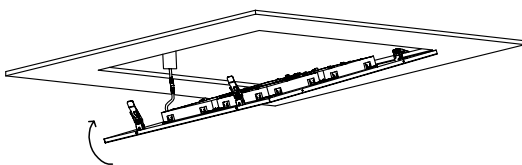
2. Open the accessory pack, then fix the installation clips to the side of lamp.



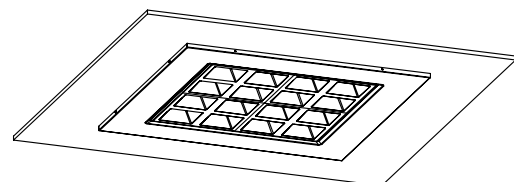
3. Connect DC wire.



4. Fasten one side of the clips on the ceiling.

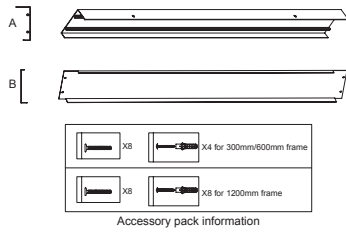


5. Fasten the other side of the clips.

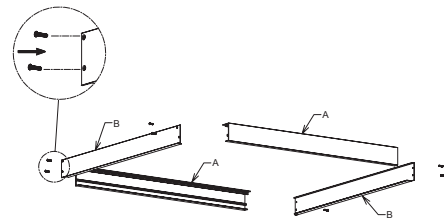


6. Turn on the power, installation complete.

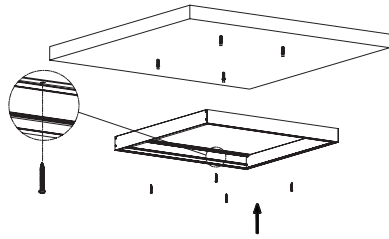
Surface mounted



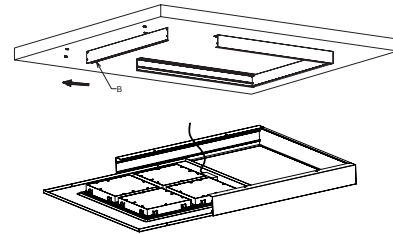
1. Unpack packaging and take out aluminum profile A - 2pcs, aluminum profile B - 2pcs, and accessory pack.



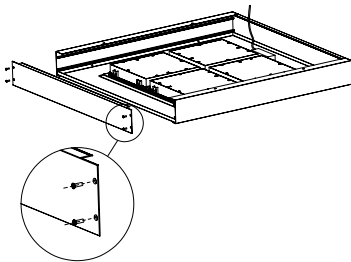
2. Assembling 3 pieces aluminum profile together with screw.



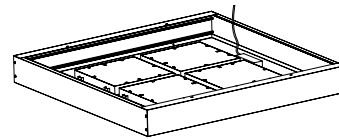
3. Fix semi-finished frame on the ceiling with screw (Concrete ceiling requires plastic anchor).



4. Slide panel into frame properly.

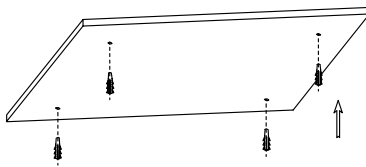


5. Fix the last piece of aluminum profile with screw after panel is well placed.

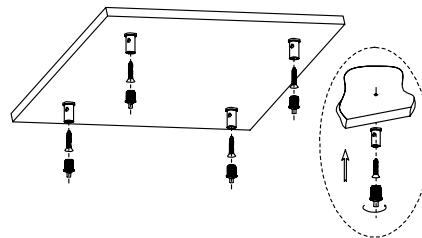


6. Switch on power and check for correct operation.

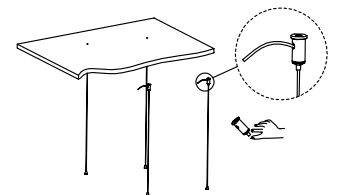
Suspended



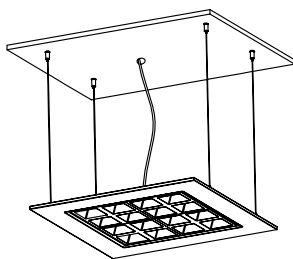
1. Take out the lamp and accessory pack from packaging. Fix the anchor into target place on the ceiling.



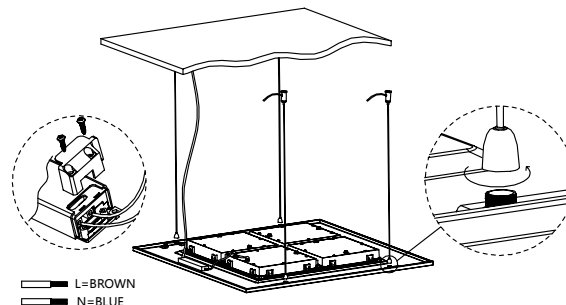
2. Fix the installation mount on the ceiling with tapping screw, then fix the wire locking clips to the installation mount.



3. Place steel wire through the wire cap, then adjust the length of steel wire.



4. Twist the wire cap to fasten it into wire locking clips, then feed the main AC wire.



5. Turn on the power, installation complete.