



PL SERIES

HIGH CEILING PANEL LIGHT

INTRODUCTION

The FGE-PL Series High Ceiling Panel Light is a high-performance lighting solution engineered for airports, stations, commercial halls, and other large indoor spaces with tall ceilings. Delivering up to 160 lm/W and lumen packages ranging from 16,000 to 52,000 lumens, it provides powerful, uniform, and comfortable illumination ideal for high-mount applications.

Designed with an integrated audio-jack sensor socket and field-adjustable wattage and CCT (40K/50K), it offers exceptional flexibility for diverse project requirements. Its high-efficacy micro-power LEDs, paired with precision PC optical lenses, ensure soft, glare-controlled, and long-lasting performance with an L70 lifetime exceeding 100,000 hours.

Rated for damp locations, the panel operates in ambient temperatures from -40°C to 50°C when suspended at least 18 inches from the ceiling. Multiple mounting options—including recessed and suspended installations—allow for easy adaptation to different architectural layouts, making it a robust, efficient, and long-life solution for modern high-ceiling environments.



FEATURES



Wattage Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.



2 CCTS Tunable: Adjustable color temperature to suit diverse environments.



High Efficacy & Energy Saving: Up to 160 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



QUICK & EASY

Easy Installation and Maintenance:

Reduce installation time and maintenance labor, effectively lowering overall operational costs.



SENSOR

Motion Sensor Option: Provides smart lighting control to improve energy efficiency and convenience.



EMERGENCY BACKUP

90 Minutes EM Back-up Options:

Ensuring safety and visibility during critical moments.



RELIABLE WARRANTY

Reliable Warranty:

5 Years Warranty.

– **Robust Protection:**
IP20, IK04 impact resistance for commercial lighting places.

– **Versatile Mounting Options:**
Recessed mount. Suspension mount.

– **Wide Input Voltage:**
AC120–277V, suitable for global power grids.

APPLICATIONS



Commercial & Public Spaces: Designed for airports, stations, and mall atriums, delivering wide-area, uniform, and comfortable illumination for high open spaces.



Office & Educational Facilities: Ideal for office areas, school atriums, and libraries, creating low-glare, soft, and visually comfortable lighting for work and study.

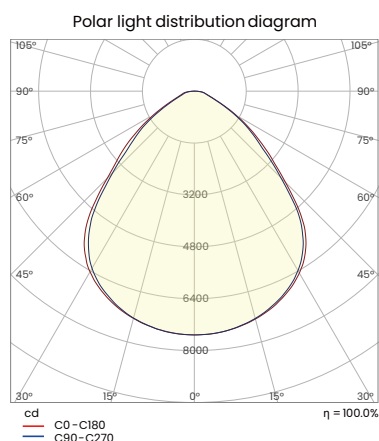


Healthcare & Light Industrial Areas: Used in hospital lobbies, clean zones, and light industrial areas, offering stable, clean, and reliable lighting for long-duty operation.

TECHNICAL PARAMETERS

Product Model	PL22-100W	PL22-210W	PL24-100W	PL24-325W
Length	2X2	2X2	2X4	2X4
Electrical Performance				
Wattage Selectable	100W	210W/150W/100W	100W	325W/260W/180W
Input Voltage	AC120-277V	AC120-277V	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9
Surge Protection	6KV	6KV	6KV	6KV
THD	<20%	<20%	<20%	<20%
Optical Performance				
Luminous Efficacy	160lm/W	160lm/W	160lm/W	160lm/W
Luminous Flux	16000lm	33600lm/24000lm/16000lm	16000lm	52000lm/41600lm/28800lm
CCT Selectable	5000K	4000K/5000K	5000K	4000K/5000K
CRI	Ra>80	Ra>80	Ra>80	Ra>80
Beam Angle	90°	90°	90°	90°
Unified Glare Rating (UGR)	<28	<28	<28	<28
Reliability				
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-40 ~ +40°C	-40 ~ +40°C	-40 ~ +40°C	-40 ~ +40°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP20	IP20	IP20	IP20
Impact Resistance	IK04	IK04	IK04	IK04
Control				
Dimming	0-10V/DALI	0-10V/DALI	0-10V/DALI	0-10V/DALI
Sensor	Motion Sensor	Motion Sensor	Motion Sensor	Motion Sensor
Communication Protocol	-	-	-	-
Emergency Kit	-	-	-	-
Mechanical				
Housing Material	Metal Sheet	Metal Sheet	Metal Sheet	Metal Sheet
Lens Material	PC	PC	PC	PC
Coating	White	White	White	White
Net Weight	2.0kg	3.1kg	3.6kg	4.6kg
Dimensions	603x603x86mm	603x603x86mm	1213x603x86mm	1213x603x86mm
Warranty	5 Years	5 Years	5 Years	5 Years

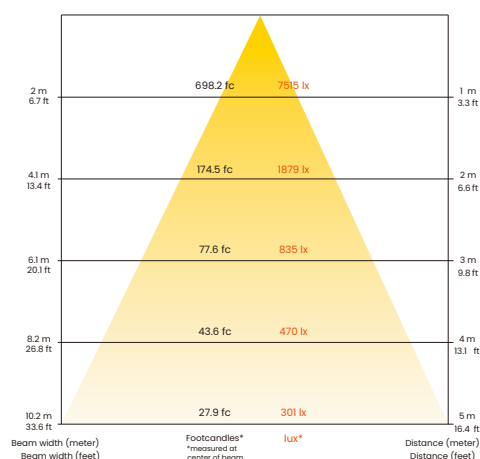
PHOTOMETRICS



90°

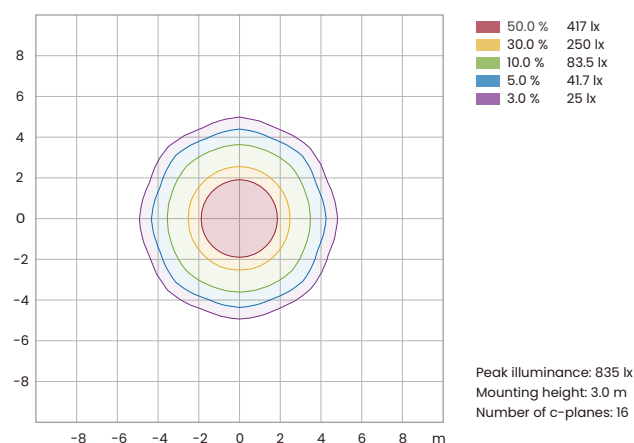
ILLUMINANCE DISTRIBUTION

Illuminance at A Distance



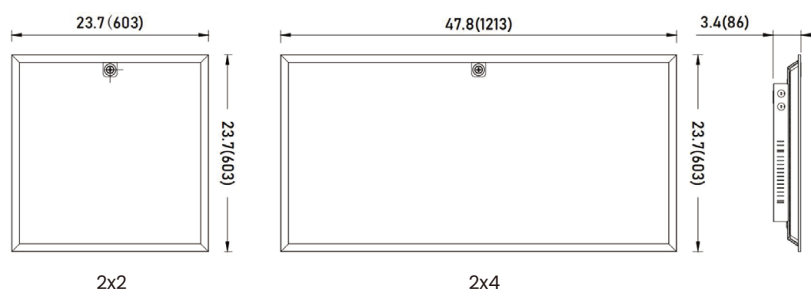
90°

Iso-illuminance Diagram (Iso-lux)



90°

MECHANICAL DIMENSIONS

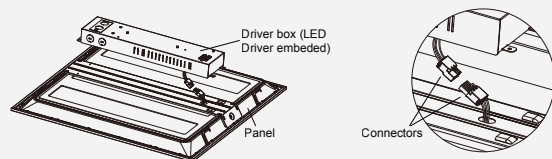


Product Model	PL22-100W	PL22-210W	PL24-100W	PL24-325W
Length	2x2	2x2	2x4	2x4
Wattage Selectable	100W	210W/150W/100W	325W/260W/180W	325W/260W/180W
Outer box (L*W*H)	625x625x210mm (24.61"x24.61"x8.27")	625x625x210mm (24.61"x24.61"x8.27")	1230x625x210mm (48.43"x24.61"x8.27")	1230x625x210mm (48.43"x24.61"x8.27")
Qty/Ctn	2pcs	2pcs	2pcs	2pcs
N.W./Ctn	4.1kg/9lbs	6.2kg/13.64lbs	7.2kg/15.84lbs	9.3kg/20.46lbs
G.W./Ctn	4.9kg/10.78lbs	7kg/15.4lbs	8kg/17.6lbs	10.1kg/22.22lbs
Remarks	-	-	-	-

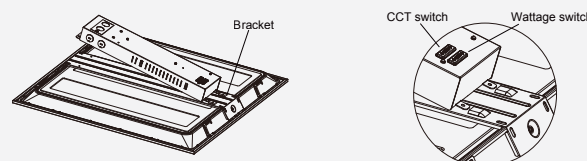
INSTALLATION

Install the Driver box to the Panel

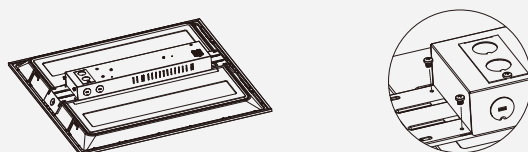
1. Connect the Driver to Panel with quick plug Connectors.



2. Align and seat the Driver box in the slots on Bracket. Slide the wattage and CCT switches on the top of the driver box to set to the desired wattage and CCT.



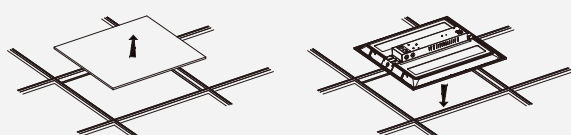
3. Secure the Driver box with 2 provide screws to the Bracket.



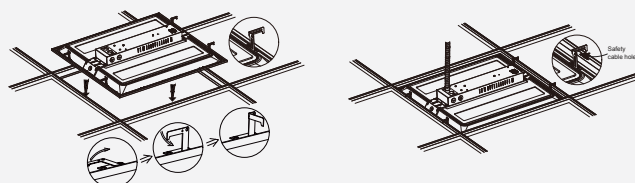
Notice: Always turn off the power supply from main circuit breaker first! T-Grid and suspended mounting requires min. 1.5 feet clearance above fixture to allow heat dissipation.

Recessed Mount

1. Remove the ceiling tile or existing fixture from the grid ceiling space. Insert luminaire into ceiling grid.

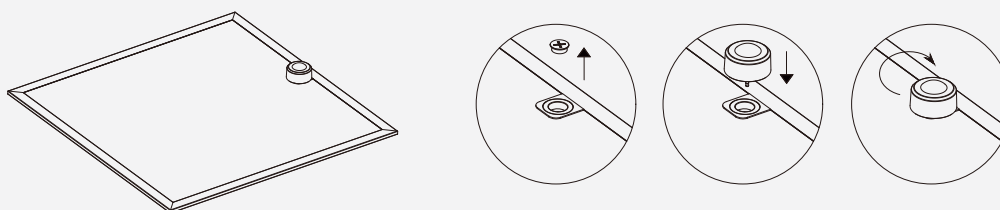


2. After bending the four corner clips to 90°, securely seat the panel in the T-grid system until fully flush.
3. Secure the safety cable (provided by others) through the grid clip hole to comply with local seismic codes and building regulations. Unscrew and remove the driver cover. Carefully remove knockout for AC input wires and 0-10V control wires. Make wiring and install listed electrical fittings in knockout holes for wire protection.



Sensor Installation

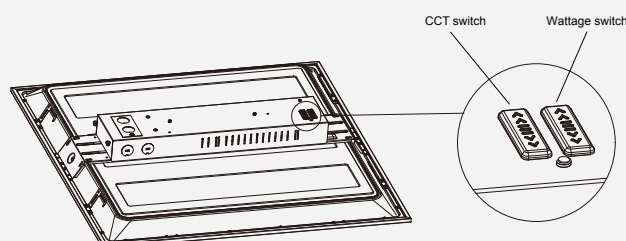
1. Rotate and remove sensor socket cover.
2. Attach sensor to the socket.



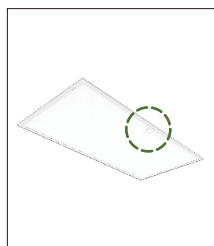
Field-adjustable Instruction

The end users may adjust the color temperature and lumen output respectively by the two DIP switches. The light output DIP switch is accommodated with 3 options (left, middle and right), corresponding to 3 powers respectively, the CCT DIP switch is accommodated with 2 options (left and right), corresponding to 2 color temperatures.

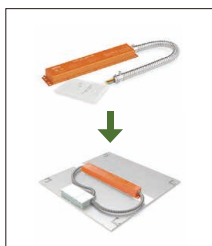
Select a wattage and color temperature by sliding switch left or right respectively to the desired value.



OPTIONAL ACCESSORIES



Plug & Play
Motion Sensor



24W 90 Minutes
EM Back-up

ORDER INFORMATION

PL-YYY-YY-YYY

1 2 3 4 5 6 7 8 9

1 PL Series High Ceiling Panel Light

2 Size

22	2x2'
24	2x4'

3 Wattage

100W	100W
210W	210W/150W/100W
325W	325W/260W/180W

4 Color Temperature

40K	4000K
50K	5000K

5 Watt & CCT Selectable

(Blank)	Single CCT & Watt
TCP	Tunable Watt & CCT
TC	Tunable CCT
TP	Tunable Watt

6 Voltage

(Blank)	120-277V
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7 EM Back-up

(Blank)	Without EM Back-up
EM	With EM Back-up

8 Optics

(Blank)	90°
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9 Control

(Blank)	Without Sensor Socket
S	Sensor
C	Control Module



WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT