



PB SERIES

PANEL LIGHT

INTRODUCTION

The FGE-PB Series Panel Light is designed to deliver high-efficiency, uniform, and glare-free illumination for offices, schools, hospitals, and commercial buildings. Utilizing premium LED chips and an optical diffuser plate, it achieves up to 130 lm/W or 140 lm/W, ensuring bright yet comfortable lighting for professional indoor environments.

Its ultra-thin aluminum frame offers a modern and elegant appearance while providing excellent heat dissipation and structural stability. The PB Series supports recessed, surface-mounted, and suspended installations, adapting easily to various ceiling types.

Compatible with DALI / 0-10V dimming and emergency backup options, it allows for intelligent lighting control and energy savings. With a 100,000-hour lifetime and 5-year warranty, the PB Panel Light delivers a reliable, low-maintenance, and energy-efficient lighting solution for modern architectural interiors.



FEATURES



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



Easy Installation and Maintenance: Reduce installation time and maintenance labor, effectively lowering overall operational costs.



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



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



High Efficacy & Energy Saving: Up to 130 lm/W or 140 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.



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



Reliable Warranty: 5 Years Warranty.

- Advanced Optical Design:

High-transmittance PC lens with 120° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

IP20, IK04 impact resistance for commercial lighting places.

- Versatile Mounting Options:

Recessed, surface-mounted, and suspended for flexible installation.

- Wide Input Voltage:

AC120-277V, suitable for global power grids.

APPLICATIONS



Office Buildings & Corporate Spaces: Uniform, flicker-free lighting reduces eye fatigue during long work hours, boosting employee productivity. Slim profile fits seamlessly into suspended ceilings or recessed installations, maintaining a clean, modern aesthetic.



Transportation Hubs (Airports, Train Stations, Subways): Anti-glare design ensures visibility for travelers even in bright or dark conditions. Emergency backup (≥ 90 minutes) meets safety regulations for public spaces.

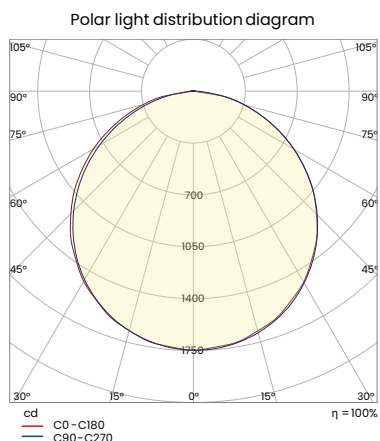


Retail Stores & Shopping Malls: High CRI accurately renders product colors, attracting customers and boosting sales. Even light distribution eliminates shadows, ensuring products are showcased clearly from all angles.

TECHNICAL PARAMETERS

Product Model	PB14-40W	PB22-40W	PB24-50W
Size	1x4'	2x2'	2x4'
Electrical Performance			
Wattage Selectable	40W/30W/20W	40W/30W/20W	50W/40W/30W
Input Voltage	AC120-277V	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9
Surge Protection	1KV	1KV	1KV
THD	<20%	<20%	<20%
Optical Performance			
Luminous Efficacy	130lm/W 140lm/W	130lm/W 140lm/W	130lm/W 140lm/W
Luminous Flux	5200lm/3900lm/2600lm 5600lm/4200lm/2800lm	5200lm/3900lm/2600lm 5600lm/4200lm/2800lm	6250lm/5000lm/3750lm 7000lm/5600lm/4200lm
CCT Selectable	3500K/4000K/5000K	3500K/4000K/5000K	3500K/4000K/5000K
CRI	Ra>80	Ra>80	Ra>80
Beam Angle	120°	120°	120°
Unified Glare Rating (UGR)	<19	<19	<19
Reliability			
Lifetime	>100,000h	>100,000h	>100,000h
Operating Temperature	-20 ~ +40°C	-20 ~ +40°C	-20 ~ +40°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP20	IP20	IP20
Impact Resistance	IK04	IK04	IK04
Control			
Dimming	0-10V/DALI	0-10V/DALI	0-10V/DALI
Sensor	Motion Sensor	Motion Sensor	Motion Sensor
Communication Protocol	-	-	-
Emergency Kit	-	-	-
Mechanical			
Housing Material	Metal Sheet	Metal Sheet	Metal Sheet
Lens Material	PMMA	PMMA	PMMA
Coating	White/RAL9003	White/RAL9003	White/RAL9003
Net Weight	2.06kg	2.16kg	3.76kg
Dimensions	1212x301x29.72mm	603x603x29.72mm	1212x603x29.72mm
Warranty	5 Years	5 Years	5 Years

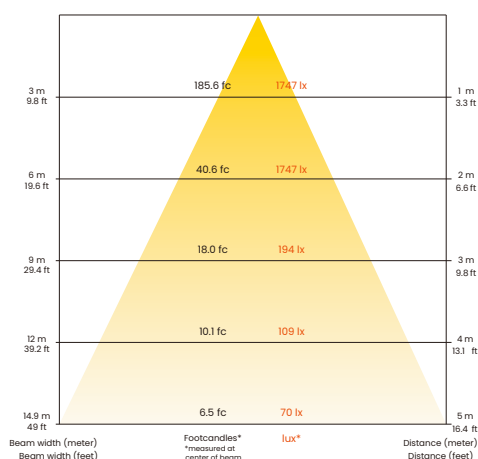
PHOTOMETRICS



120°

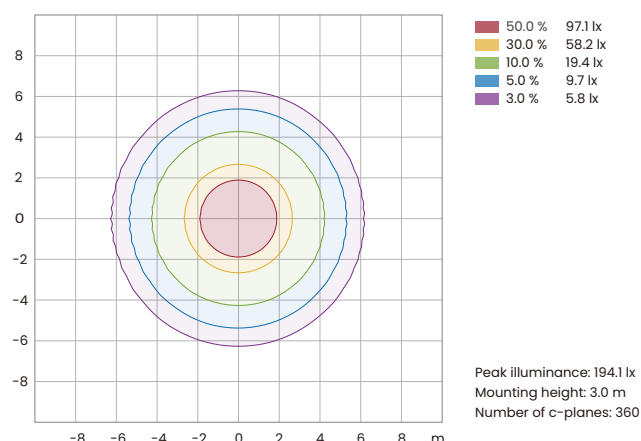
ILLUMINANCE DISTRIBUTION

Illuminance at A Distance



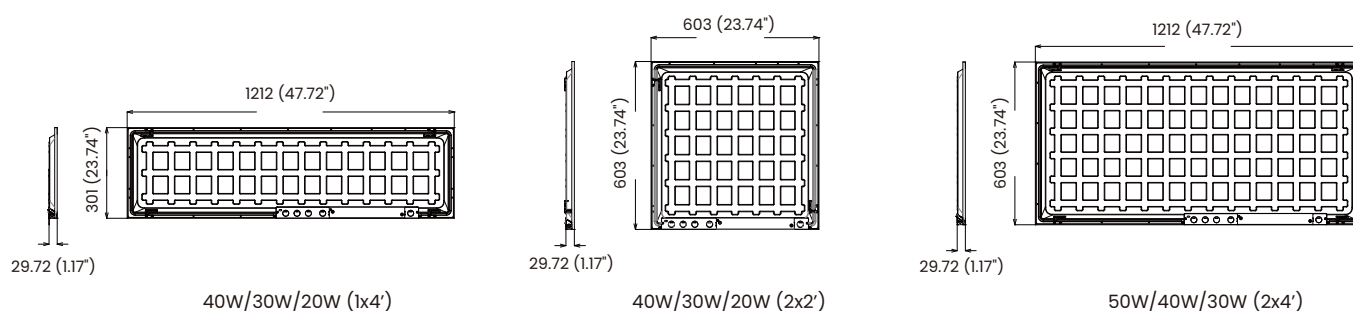
120°

Iso-illuminance Diagram (Iso-lux)



120°

MECHANICAL DIMENSIONS

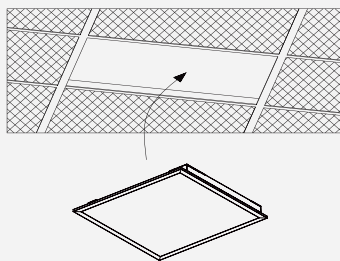


Product Model	PB14-40W	PB22-40W	PB24-50W
Size	1x4'	2x2'	2x4'
Wattage Selectable	40W/30W/20W	40W/30W/20W	50W/40W/30W
Outer box (L*W*H)	1247x137x342mm (49.09"x5.40"x13.46")	638x137x645mm (25.12"x5.40"x25.39")	1247x137x645mm (49.09"x5.40"x25.39")
Q'ty/Ctn	4pcs	4pcs	4pcs
N.W./Ctn	8.24kg/18.17lbs	8.24kg/18.17lbs	15.04kg/33.16lbs
G.W./Ctn	9.52g/20.99lbs	9.52g/20.99lbs	17.32kg/38.18lbs
Remarks	-	-	-

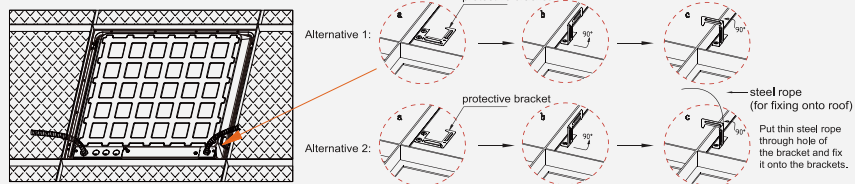
INSTALLATION

Recessed Installation

1. Replace existing lighting fixture from ceiling with LED Panel.

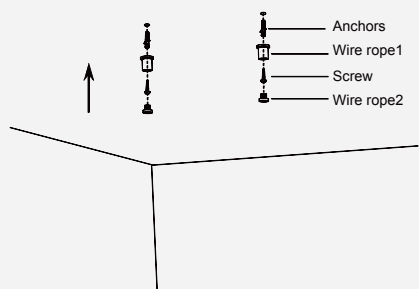


2. Use the protective brackets for the sake of safety.

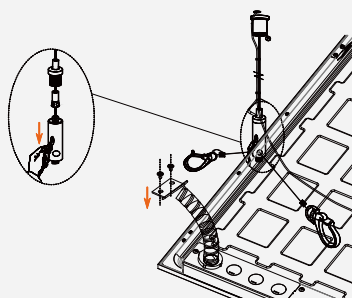


Suspension kit Installation

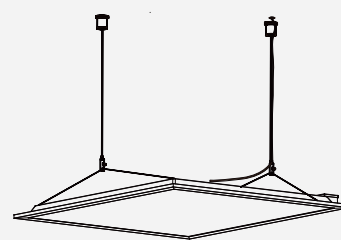
1. Drill two holes in the ceiling, and put the anchors into hole, then insert the wire rope and screw.



2. Adjusting the hanging rope making the panel in a horizontal state.

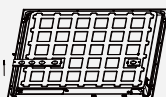


3. The installation is finished.

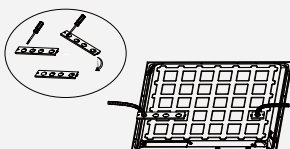


Installation Guide

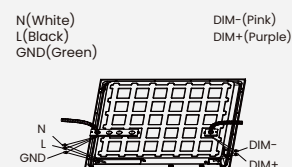
1. Unscrew the driver cover.



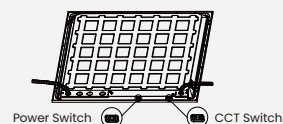
2. Connect the conduit to the driver box.



3. Connect other wires separately.



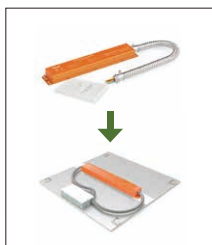
4. Put back the driver cover and fix it by screw. Select adjustable power and color temperature.



ACCESSORIES



Motion Sensor



90 Minutes
EM Back-up

ORDER INFORMATION

PB-YY-YY-YY-Y

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① PB Series Panel Light

② Size

14	1x4'
22	2x2'
24	2x4'

③ Wattage

40W	40W/30W/20W
50W	50W/40W/30W

④ Color Temperature

50K	5000K/4000K/3500K Selectable (Default: 5000K)
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⑤ Voltage

(Blank)	120-277V
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⑥ EM Back-up

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

⑦ Optics

(Blank)	120°
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⑧ Control

(Blank)	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