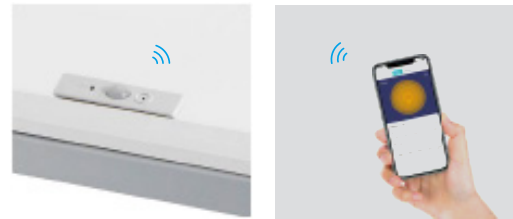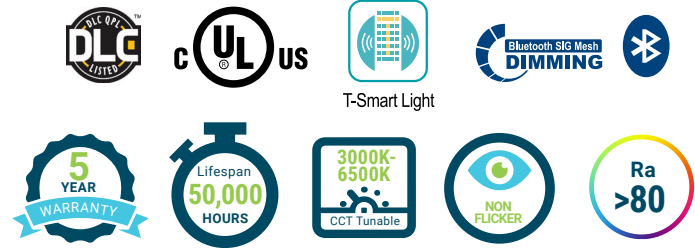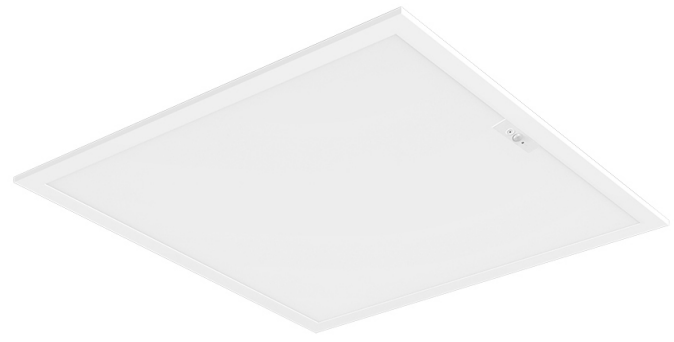# SMARTLIT LED PANEL

PQ-PNTB

PQ-PNTB is a highly versatile luminaire designed to provide smooth lighting. It comes in 1x4, 2x2 and 2x4 backlit light distribution for a shadowless and more evenly distributed effect. The enhanced optics produces consistent, even illumination with low glare. PQ-PNTB has a long lifespan with good resistance to yellowing. This is the ideal low-profile replacement for fluorescent fixtures.

Brightness adjustable function combined with CCT adjustable from 3000K to 6500K makes these panel lights a multifuncitonal luminaire. Ideal for general lighting applications such as open offices, schools, healthcare, and retail.
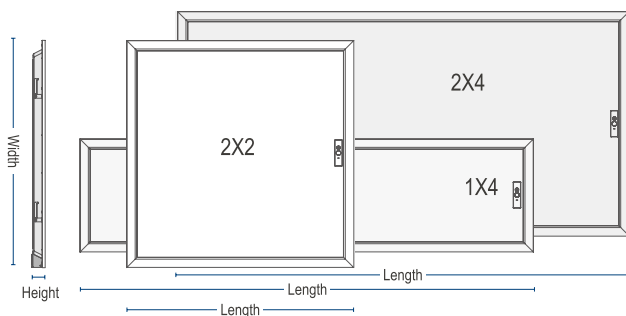
PowerQ ENERGY *in a* NEW LIGHT

DLC QPL LISTED · c(UL)us · T-Smart Light · Bluetooth SIG Mesh DIMMING

5 YEAR WARRANTY · Lifespan 50,000 HOURS · 3000K-6500K CCT Tunable · NON FLICKER · Ra >80

PIR

Daylight Sensor

SPECIFICATIONS

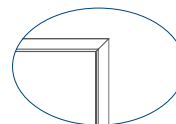|			
Input voltage	AC100-277V, 50/60 Hz	CRI	>80
Beam angle	120° flicker-free	THD	<20%
Control	APP Bluetooth SOG mesh control	Power factor	>0.9
Function	Dimming & CCT adjustable	Certification	UL, DLC
CCT adjustable	3000K to 6500K	Efficacy	125 LPW
Power efficiency	87%	Power	36W, 50W
Output voltage	36V	LEDs	SMD2835

DIMENSIONS

Width · Height · Length · Length · Length · 2X4 · 2X2 · 1X4

All dimensions are given in feet and inches unless otherwise specified.

DIMENSIONS (FT)	LENGTH	WIDTH	HEIGHT
1×4	1213 mm/ 47.75"	303mm/ 11.9"	35mm/ 1.37"
2×2	603 mm/ 23.74"	603mm/ 23.74"	35mm/ 1.37"
2×4	1213 mm/ 47.75"	603mm/ 23.74"	35mm/ 1.37"

Extremely narrow frame, does not occupy the lighting area.

SMARTLIT LED PANEL

PQ-PNTB

POWERQ
ENERGY in a NEW LIGHT

MODELS	POWER (WATTS)	SIZE (FEET)	LUMENS
PQ-PNTB14	36W	1×4 FT	4500 lm
PQ-PNTB22	36W	2×2 FT	4500 lm
PQ-PNTB24	50W	2×4 FT	6250 lm

PRODUCT FEATURES

ELECTRICAL

➤ Input voltage: 100-277VAC, 50/60Hz.
Long-life LEDs provide the fixture a rated life of 50,000 hours.

➤ Excellent luminaire efficacy provides significant energy savings: 125lm/w
as an option.

➤ Isolated power supply is relatively safer.
To ensure trouble-free operation, protection is provided against output over-current, output over-voltage, short circuit.

➤ Smart control: PIR sensor, Daylight Sensor and APP control.

OPTICAL

➤ Translucent white polystyrene face frame delivers soft and comfortable light.

➤ Specialized optical design makes the light more uniform.

➤ 80 CRI minimum source provides excellent color rendering.

➤ Lead free and eco-friendly, zero maintenance.

➤ Brightness adjustable function,
CCT adjustable from 3000K to 6500K.

CONSTRUCTION

➤ Compared with edge-lit panels, backlit is more lightweight without the light guide plate (LGP).

➤ The light is made of cold-rolled steel SPCC back and aluminum frame.

➤ 1'x4', 2'x2' and 2'x4' panel lights are manufactured with quality components and finishes.

➤ Junction box is attached to the side of the luminaire. IP20, suitable for indoor applications.
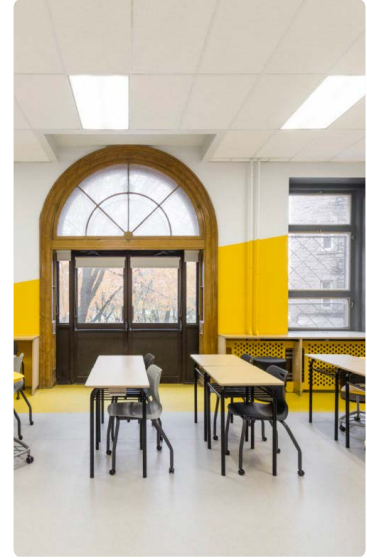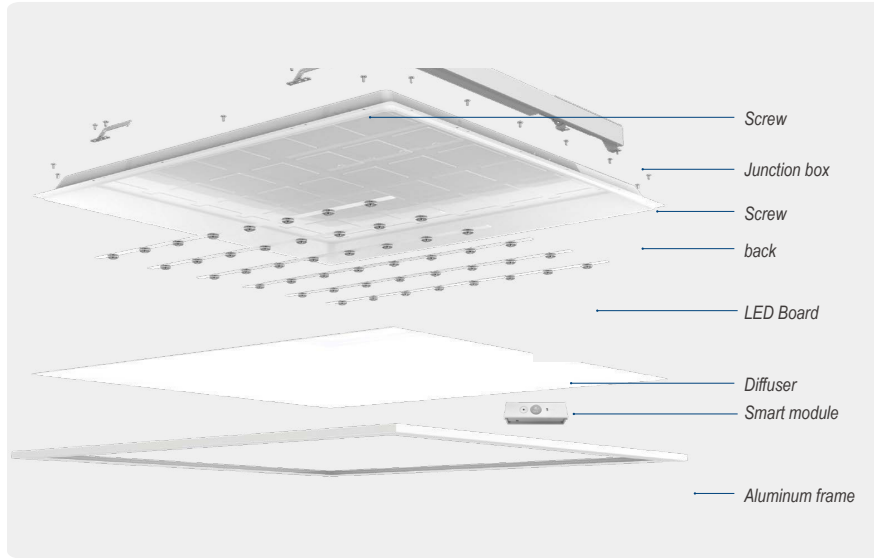
APPLICATION

➤ The PQ-PNTB Backlit Flat LED Panel Light is the ideal low profile replacement for fluorescent fixtures.

➤ Ideal for general lighting applications such as open office, schools, healthcare, and retail.

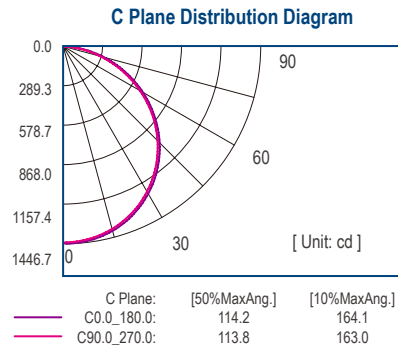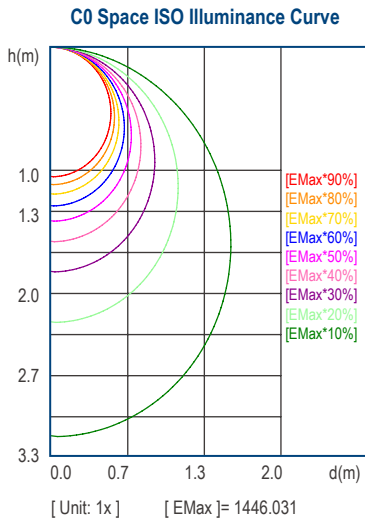➤ Working temp.:-20~40°C (-4~104°F).
Storage temp.:-40~60°C (-40~140°F)

SENSORS AND CONTROL

PIR sensor and Daylight sensor are embedded into LED panel light's surface. Luminaires can be remote controlled by using mobile APP: "T-Smart Light ", or web-based platform. Or install wireless Bluetooth switch, you can dim up or down, turn on or off, group control, adjust scenes adjustable and set auto-brightness. Enjoy the light as you like!

App Store   Google Play

SMARTLIT LED PANEL

PQ-PNTB

POWERQ
ENERGY in a NEW LIGHT

DETAILS

- Screw
- Junction box
- Screw
- back
- LED Board
- Diffuser
- Smart module
- Aluminum frame

PHOTOMETRY

C0 Space ISO Illuminance Curve

[EMax*90%]
[EMax*80%]
[EMax*70%]
[EMax*60%]
[EMax*50%]
[EMax*40%]
[EMax*30%]
[EMax*20%]
[EMax*10%]

[Unit: 1x]   [EMax]= 1446.031

C Plane Distribution Diagram

[Unit: cd]

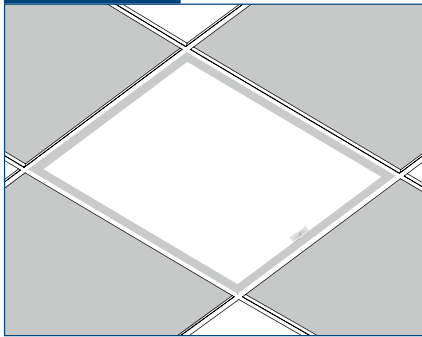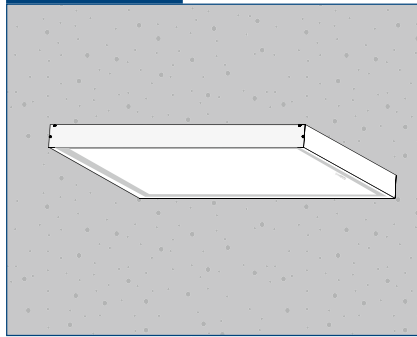| C Plane:	[50%MaxAng.]	[10%MaxAng.]
C0.0_180.0:	114.2	164.1
C90.0_270.0:	113.8	163.0

SMARTLIT LED PANEL
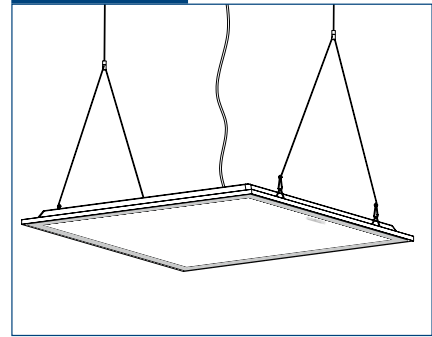
PQ-PNTB

INSTALLATION

Recessed

Surface

Cable-suspended

PQ-PNTB Backlit Flat LED Panel Light :

Please check the accessory bag before installation. Turn power off before installation or disassembly. Connect the wires correctly. If a dimming wire is not needed, insulate it.

* *Please refer to Installation Manual of LED Panel Light for more information.*

WIRELESS BLUETOOTH LIGHTING CONTROL SYSTEM
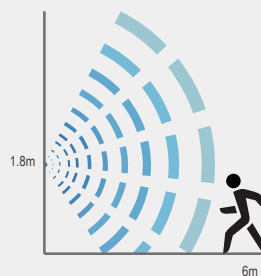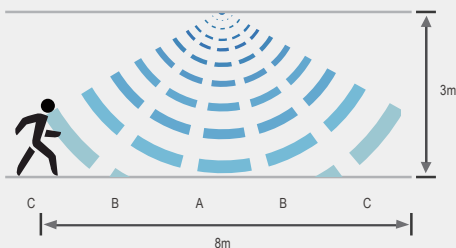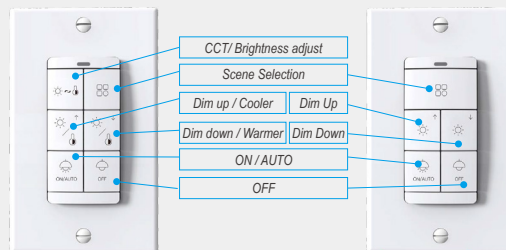
SMART SENSOR

Resetting key

Features:
Occupancy sensor and daylight harvesting sensor.
Embedded Bluetooth communication module.
Support 1-channel and 2-channel dimmable.
Low profile and can be inserted into any luminaries.
Operated by " T-Smart Light " APP.
Can match with various antennas in different luminaries.
Working temperature: -30~80°C (-22~176°F)

BLUETOOTH CONTROL SWITCH
(BATTERY POWERED)

6-key CCT adjustable panel switch
(CCT & brightness adjustable)

5-key single CCT panel switch
(brightness adjustable)

| CCT/ Brightness adjust |
| Scene Selection |
| Dim up / Cooler | Dim Up |
| Dim down / Warmer | Dim Down |
| ON / AUTO |
| OFF |

Group control

Auto-Brightness

Dimming

CCT adjustable

Instant scene

OTA

Auto-Calibration

Schedule

High-end trim

Occupancy Sensing

C   B   A   B   C

8m

3m

1.8m

6m