Specification Sheet

LED BACKLIT PANEL

5 YEARS WARRANTY

ETL LISTED C US Intertek

DLC QPL LISTED PREMIUM

CCT Tunable 3000K/4000K/5000K

Wattage Adjustable

Dimmable

Emergency LED driver
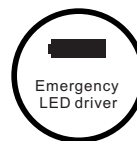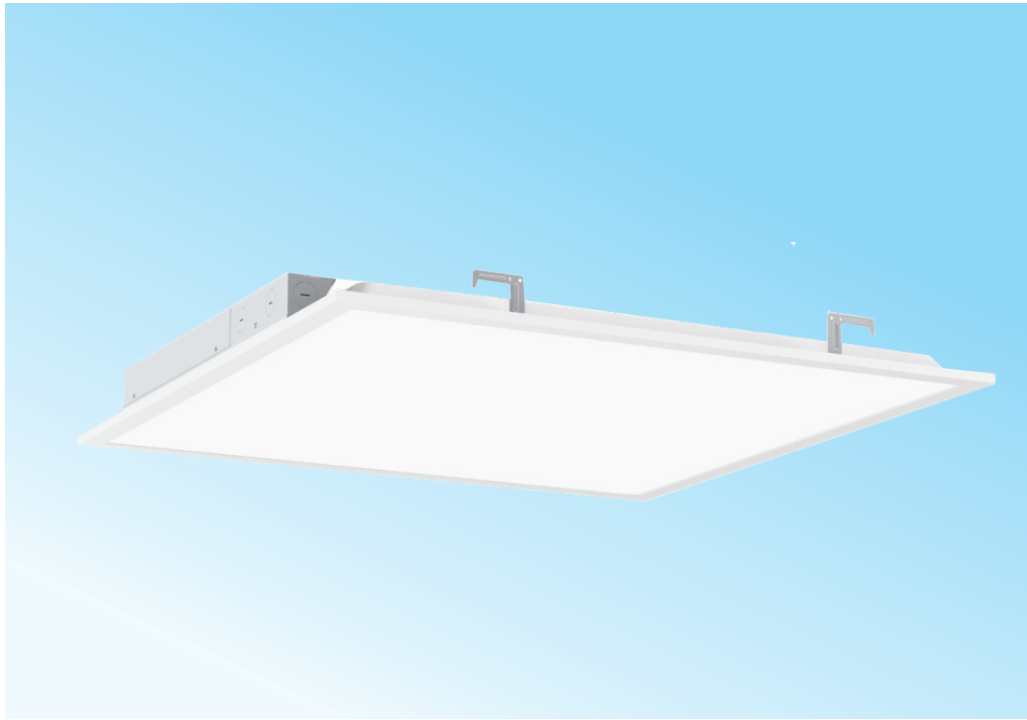
Zhejiang Hongyao Lighting Electrical Co., Ltd
No.209 Shennan Rd. Da Yang Jie Dao, Linhai City. Zhejiang China 317000 www. chhongyao.com
Trading@chhongyao.com Tel: +86 576-85381918 Fax:+86 576-85381913

SPECIFICATIONS

FEATURE

• Back lit design providing even, glare-free light distribution
• High lumens efficiency to 130LM/W
• Flicker-free: eyesight protection
• Option: available with emergency backup kit
• Recessed, surface mount or suspende installations

• OPTION
   Emergency Back Up
   Available in 8W and 15W

APPLICATION

• offices, schools, showrooms, airports, retail, locations, and healthcare facilities
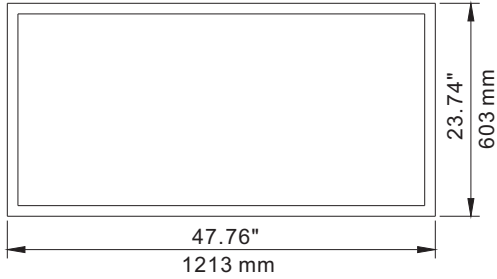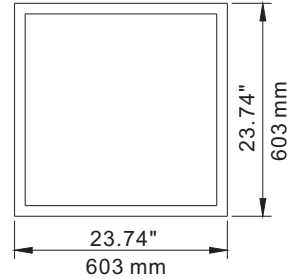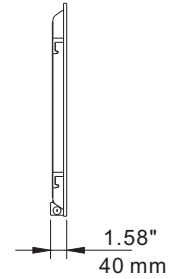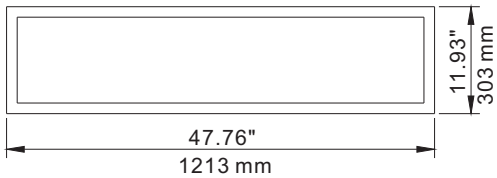• Recessed

Specifications				
Model No.	HY -PB-2X2P-3W3CCT	HY -PB-2X4P-3W3CCT	HY -PB-1X4P-3W3CCT	HY -PB-2X4PH-3W3CCT
Power:	20W/30W/40W	30W/40W/50W	20W/30W/40W	40W/50W/60W
Size:	2'x2'	2'x4'	1'x4'	2'x4'
Input Voltage:	120-277 VAC			
Dimming	0-10V Dimmable			
Lumens	2600LM/3900LM/5200LM	3900LM/5200LM/6500LM	2600LM/3900LM/5200LM	5200LM/6500LM/7800LM
Protection Rating	IP20 (For Indoor Use Only)			
Power Factor:	＞0. 9			
Beam Angle	110°			
CCT:	3000K/4000K/5000K			
CRI:	＞80			
Working Life:	Lumen Maintenance over 70% @ 50,000+ Hours			
Oper. Temperature	−13°F ~+113°F / -25°C ~+45°C			
Certification	DLC Premium / ETL			

PRODUCT DIMENSIONS

2x4 Front View

23.74"
603 mm

47.76"
1213 mm

2x2 Front View

23.74"
603 mm

23.74"
603 mm

Side View

1.58"
40 mm

1x4 Front View

11.93"
303 mm

47.76"
1213 mm

Side View

1.58"
40 mm
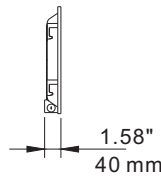
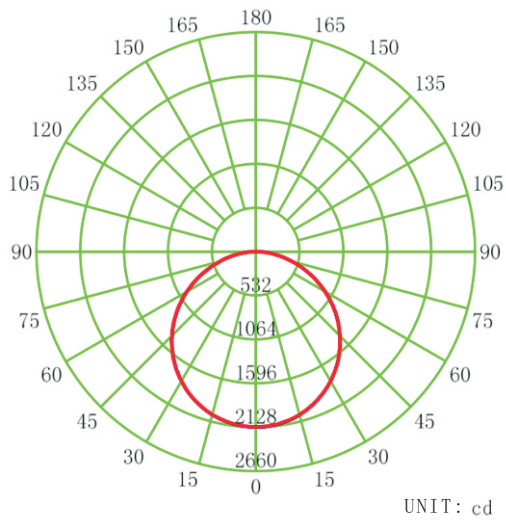## PHOTOMETRIC REPORT

2X4 50W LED BACKLIT PANEL

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

VERTICAL EQUILUMINOUS CURVE

532
1064
1596
2128
2660

UNIT: cd

—— C0-C180   —— C90-C270

VERTICAL HEIGHT (meter)
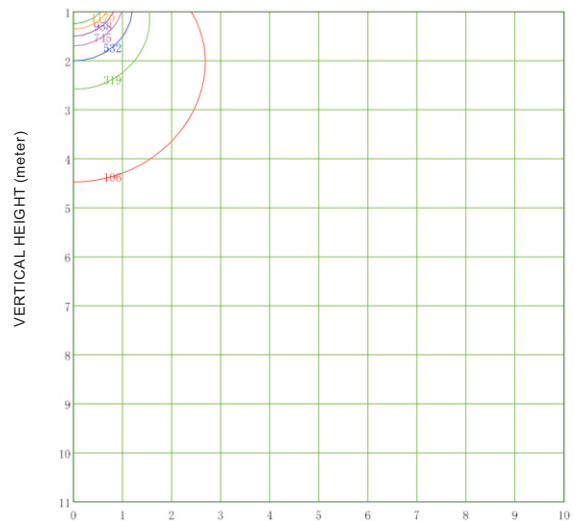
HORIZONTAL DISTANCE (meter)

MINIMUM ALTITUDE 1.0 M
MAXIMUM ALTITUDE 11.0 M
MAXIMUM ILLUMINATION 2128.1 lx

(5%): 106.4 lx   (15%): 319.2 lx
(25%): 532.0 lx   (35%): 744.8 lx
(45%): 957.7 lx   (55%):1170.5 lx
(65%):1383.3 lx

HONGYAO Lighting

ORDERING GUIDE

Package Information				
Model No.	HY -PB-2X2P-3W3CCT	HY -PB-2X4P-3W3CCT	HY -PB-1X4P-3W3CCT	HY -PB-2X4PH-3W3CCT
Size	2'x2'	2'x4'	1'x4'	2'x4'
Qty/Pack	2 PCS			
Package Size	655X95X660mm	1265X95X660mm	1265X95X360mm	1265X95X660mm
	25.79"X3.74"X25.98"	49.8"X3.74"X25.98"	49.8"X3.74"X14.17"	49.8"X3.74"X25.98"
Package Weight	5.3 kg/11.69 lbs	10.33 kg/22.77 lbs	5.6 kg/12.35 lbs	10.33 kg/22.77 lbs
Package CBM	0.041069	0.079316	0.043263	0.079316
40GP Capacity	~2820 PCS	~1460 PCS	~2680 PCS	~1460 PCS
40HQ Capacity	~3310 PCS	~1710 PCS	~3140 PCS	~1710 PCS
45HQ Capacity	~3790 PCS	~1960 PCS	~3600 PCS	~1960 PCS

ORDERING CODE DEFINITION

Company Code	Product	Size	Watt	CCT
HY	PB: LED Backlit panel	2X2P: 2'X2' 2X4P: 2X4' 1X4P: 1'X4' 2X4PH: 2X4'	2X2P: 20W/30W/40W 2X4P: 30W/40W/50W 1X4P: 20W/30W/40W 2X4PH: 40W/50W/60W	30K: 3000K 40K: 4000K 50K: 5000K CCT Selectable

SAFETY INSTRUCTION:

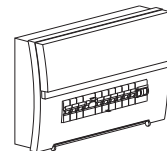Basic safety precautions should always be followed when installing, including the following:
1. Read instructions carefully before installing.
2. This LED Panel requires professional installation and maintenance.
3. The power supply of the LED Panel should be powered by a dedicated external LED driver.
4. Disconnect the power supply before installing or maintenance.
5. Make sure the wires have been properly connected before powering on the device.
6. Ensure the product has enough space for heat dissipation.
7. Ensure the luminaries are never covered by any heat insulation mat or slim layer material at anytime.
8. IP40 for indoor use only, not for damp loaction; IP54 for indoor damp location.
9. Ambient Temperature: -10℃ to + 45℃, Avoid direct sunlight.
10. Storage Conditions: Cool & dry conditions.

INSTALLATION PROCEDURE

WARNING:

1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
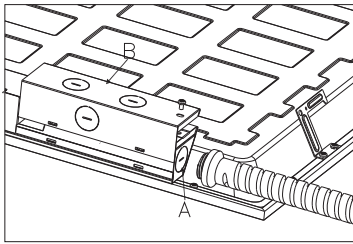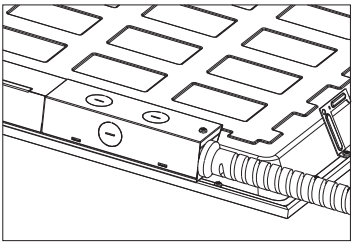
Turn off
Power Supply

CAUTION:

Make sure that the mounting surface or structural member used for installation can support the weight of LED Panel.

WIRING GUIDE

（1) Remove the knock-down hole on box by screwdriver (Part A),Remove screw and take out the driver cover (Part B)

JUNCTION BOX

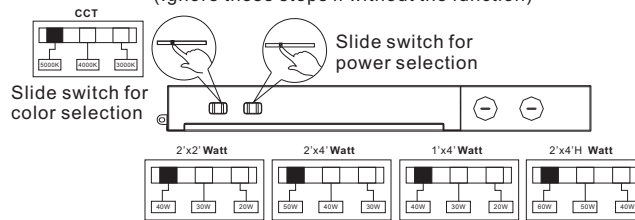| DIM-(Grey) | DIM-(Grey) |
AC-L (Black)	AC-L (Black)
AC-N (White)	AC-N (White)
GND (Green)	GND (Green)
DIM+(Purple)	DIM+(Purple)

metal tube

（2) Connect the wire as the picture showing.

（3) Cover the driver box and tighten it with a screwdriver,finish connection.

For the product with Slide Switch of CCT or power selection, please select the CCT or power needed before installation. (Ignore these steps if without the function)

CCT

| 5000K | 4000K | 3000K |

Slide switch for color selection

Slide switch for power selection

| 2'x2' **Watt** | | |
| 40W | 30W | 20W |

| 2'x4' **Watt** | | |
| 50W | 40W | 30W |

| 1'x4' **Watt** | | |
| 40W | 30W | 20W |

| 2'x4'H **Watt** | | |
| 60W | 50W | 40W |

INSTALLATION INSTRUCTION

Lamp inspection before installation:
please adjust the lamp with below steps before installation:
1.Press the oposite angles at the same time;
2.Press another two oposite angles at the same time, make sure the four angles are flat,
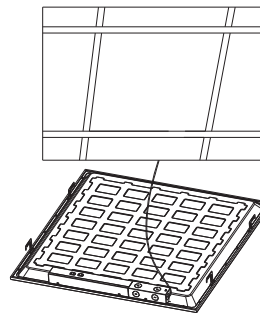then start the installation.
Take out the lamp from the box and put it in a flat table, if the lamp upwarps,
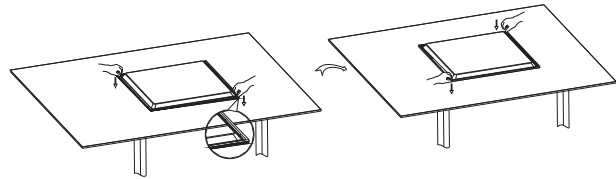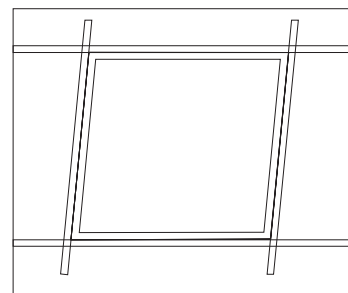

Recessed
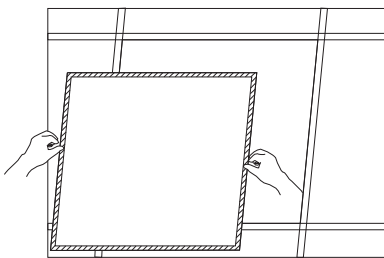
① Remove the ceiling plaster slab.
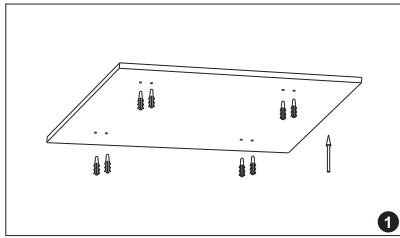

② Feed the main AC wire in driver terminal block respectively, connect the panel light and driver.

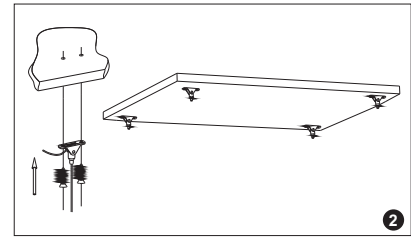③ Fix the panel light into plaster ceiling.

④ Make sure the led panel light is firmly fixed, turn on the power.
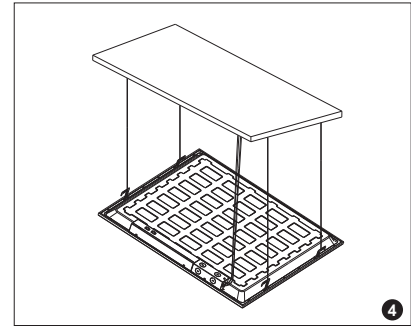
Suspended

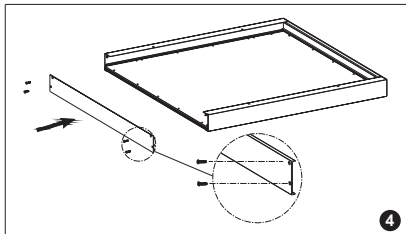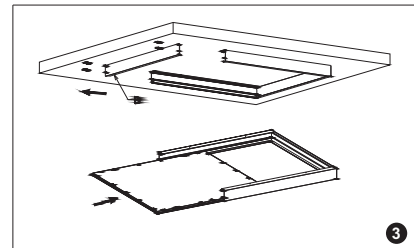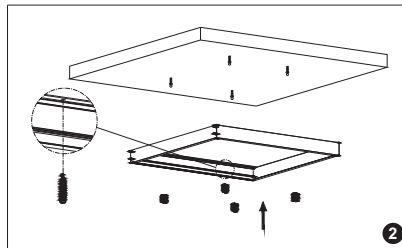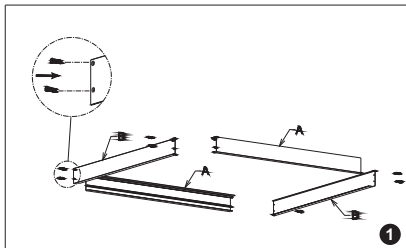
① place on the ceiling.
Fix the anchor into target

② on the ceiling with plastic anchor.
Fix the installation mount

③ suspended installation kits,adjust the length of steel wires.
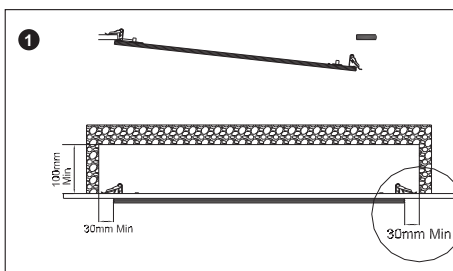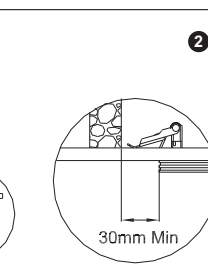Hang the panel to ceiling with

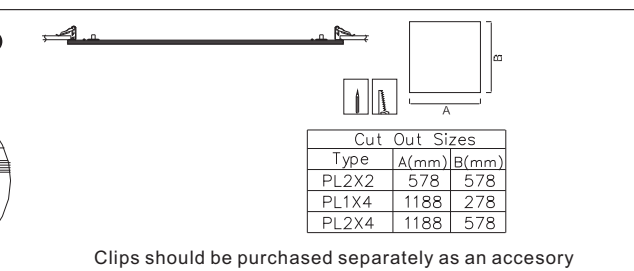④ driver terminal block respectively, turn on the power.
Feed the main AC wire in

Surface mounted
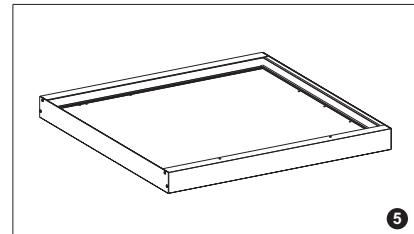
1. Assemble the surface mounted frame and fix by screws.
2. knock the plastic anchor into ceiling, fix the surface mounted frame on the ceiling by screws.
3. Unscrew the side frame then take out, connect the panel light to power supply, insert the panel light into the frame.
4. Fix the side frame back by screw.
5. Make sure the frame and panel light are firmly fixed, turn on the power.

Recessed Mounting(Clips)

100mm Min

30mm Min   30mm Min   30mm Min

Cut Out Sizes		
Type	A(mm)	B(mm)
PL2X2	578	578
PL1X4	1188	278
PL2X4	1188	578

Clips should be purchased separately as an accesory

WARNING:
Input wire diameter ≥0.75mm²;
Product modification and improper installation are not valid for warranty!