FPXT - Fidelux Bluetooth Controlled Tunable White LED Panel Series

Product Description

Introducing the Fidelux FPXT - Bluetooth controlled tunable white LED flat panel controlled by a Hand-held or Wireless wall mount remote control panel. FPXT gives you the ability to change kelvin color and the power with the push of a button. This product also offers a multifunction wireless remote panel that controls 255 fixtures per groups. The FPXT offers the right size, color and power for every situation.

Features & Benefits

• Multiple color & power options with-hand- Held or Wall Remote

• Multiple mounting options
• Human Circadian levels can be obtained
• 1x4, 2x2, & 2x4 size options
• Edge lit
• 5Year Provided option for 10 year Available ,
Consult Customer Service

Applications

• Supermarkets
• Shopping Malls
• Hospital general lighting, Patient Rooms
• Commercial Office Buildings
• Factories
• Studios

Mounting Options

• Standard Recessed mounting for grid mount drop ceilings
• Suspension cables are included in all fixtures (Hooks and 3ft Aircraft Cables)
• Surface mounting kit for panel to be installed on surface of ceiling or wall
• Drywall mounting kit for cutting in panels into drywall surfaces (old work)
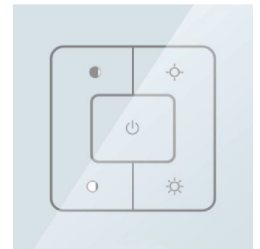
Regulatory & Voluntary Qualifications

• UL, DLC certified as Tunable „ Integral controls

Bluetooth Control Smart Phone App (iOS & Android)　　Bluetooth Remote Control　　Bluetooth Control Wall Switch

Bluetooth Control Facts

• Remote control & Wall Switch control to fixture distance: 30ft

• Smart phone remote control to fixture distance: 30ft

• Group distance: 80ft radius M

• Max fixture qty. in the group: 255

• Fixture to fixture distance: 25ft

Performance Summary

Efficacy up to: 115 l/pw

CRI Ranges : 80- 84

CCT Tunning Range: 2700K - 5000K

Input Voltage: 100-277vac

Control: Bluetooth Hand Held Remote, Wireless Wall Remote

Watts: 1x4 max 40W, 2x2 max 40W, 2x4 max 50W

Lumens up to: 6650

Operating Temp: -30°C ~ 40°C

Operating Frequency: 50/60Hz

Rated Power Factor: >0.95

Dimension: 11.9" x 47.8" / 23.8" x 23.8" / 23.8" x 47.8"

FPXT Series Specification Summary

ORDERING NUMBER	PHOTOMETRIC DATA				ELECTRICAL DATA					LIFETIME HRS (ISTMT TM21)		
FPXT14-40W	Actual CCT	L/pw	Lumen Output	CRI	Power Watts (W)	Input Voltage 120v-277v	Power Factor	Input Current (A)	Frequency (Hz)	L70	L80	L90
ANSI 2700K	2844	100.5	4093	80.8	40.72	120.7	>.99	0.341	60	84,000	54,000+/-	
ANSI 3000K	3075	102.3	4140	81.6	40.47	120.5	>.99	0.339	60			
ANSI 3500K	3542	103.8	4209	82.4	40.55	120.5	>.99	0.340	60			
ANSI 4000K	4011	104.3	4229	82.0	40.55	120.3	>.99	0.340	60			
ANSI 4500K	4684	106.4	4295	82.1	40.37	120.01	>.99	0.338	60			
ANSI 5000K	5064	107.9	4344	81.8	40.26	120.04	>.99	0.337	60			

Notes   Values are nominal unless noted +/- 5%
                 Specifications change without notice

ORDERING NUMBER	PHOTOMETRIC DATA				ELECTRICAL DATA					LIFETIME HRS (ISTMT TM21)		
FPXT22-40W	Actual CCT	L/pw	Lumen Output	CRI	Power Watts (W)	Input Voltage 120v-277v	Power Factor	Input Current (A)	Frequency (Hz)	L70	L80	L90
ANSI 2700K	2796	101.6	4206	82.3	41.40	120.05	>.99	0.347	60	84,000	54,000+/-	
ANSI 3000K	3042	102.4	4235	82.9	41.36	120.01	>.99	0.347	60			
ANSI 3500K	3410	103.0	4275	83.2	41.51	120.02	>.99	0.348	60			
ANSI 4000K	3957	105.6	4392	82.4	41.60	120.00	>.99	0.349	60			
ANSI 4500K	4493	107.6	4479	80.6	41.63	120.09	>.99	0.349	60			
ANSI 5000K	5054	108.7	4527	82.3	41.65	120.01	>.99	0.349	60			

Notes   Values are nominal unless noted +/- 5%
                 Specifications change without notice

Fidelux

FPXT Series Specification Summary

ORDERING NUMBER	PHOTOMETRIC DATA				ELECTRICAL DATA					LIFETIME HRS (ISTMT TM21)		
FPXT24-50W	Actual CCT	L/pw	Lumen Output	CRI	Power Watts (W)	Input Voltage 120v-277v	Power Factor	Input Current (A)	Frequency (Hz)	L70	L80	L90
ANSI 2700K	2785	101.9	5034	81.2	49.41	120.09	>.98	0.416	60			
ANSI 3000K	3057	102.5	5068	82.2	49.45	120.10	>.99	0.416	60			
ANSI 3500K	3488	104.2	5157	82.8	49.50	120.08	>.99	0.416	60	84,000	54,000+/-	
ANSI 4000K	4035	105.5	5222	82.2	49.50	120.09	>.99	0.416	60			
ANSI 4500K	4428	107.3	5288	81.0	49.29	119.99	>.98	0.415	60			
ANSI 5000K	4972	108.7	5364	82.8	49.35	120.08	>.99	0.415	60			

Notes — Values are nominal unless noted +/- 5%
Specifications change without notice

DATA SOURCE			
Product Number	FPXT14-40W	FPXT22-40W	FPXT24-50W
IP Rating	IP20		
Qualifications	UL, DLC 4.4 (Tunable) pending		
Controls & Dimming	Smart wireless dimming LED driver with Bluetooth signal supports APP (both ios system and Android systems) Controlled by Wireless Handheld Remote Control , Wall Remote Control Panel & Smart phone App		
Operating Temperature	-30˚C ~ +40˚C		
Max Dimensions (in)	11.9" x 47.8" x 0.43"	23.8" x 23.8" x 0.43"	23.8" x 47.8" x 0.43"
Total Weight	8-9 lbs	8-9 lbs	16 lbs
Limited Warranty	5 year warranty provided (10 year option available , Consult Customer Service for details		

Notes — Values are nominal unless noted +/- 5%
Specifications change without notice

FPXT FLAT PANEL COLOR & POWER CONFIGURABLE FLAT PANEL SERIES

Ordering Bar

EXAMPLE: FPXT22-40W-Blank

Product	Voltage	Controls
FPXT14-40W	**Blank** (100-277V) STD	**FPXTRC-** Hand -held Remote Control
FPXT22-40W		**FPXTCP**- Multifunction Wall Mount Switch, Switch can also be hand held
FPXT24-50W		

Field Installed Options & Accessories
(order as separate line item)

|	
FPXTRC	Multifunction Remote controller, Hand Held
FPXTCP	Multifunction wall mount switch (Remote Control Wall Panel) Both recessed & Surface mount
SMK14	1x4 Surface mounting kit - see mounting instructions sheet for details
SMK22	2x2 Surface mounting kit - see mounting instructions sheet for details
SMK24	2x4 Surface mounting kit - see mounting instructions sheet for details
DWK14	1x4 Drywall mounting kit - see mounting instructions sheet for details
DWK22	2x2 Drywall mounting kit - see mounting instructions sheet for details
DWK24	2x4 Drywall mounting kit - see mounting instructions sheet for details
SUK14	1x4 Suspension kit , Hanging Ropes x 2pcs
SUK22	2x2 Suspension kit , Hanging Ropes x 2pcs
SUK24	2x4 Suspension kit , Hanging Ropes x 2pcs

Bluetooth Mesh Network Control Facts

- Hand held Remote & Wall Switch to fixture distance: 30ft
- Smart phone remote control to fixture distance: 30ft
- Group distance: 80ft radius
- Max fixture qty. in the group: 255
- Fixture to fixture distance: 25ft
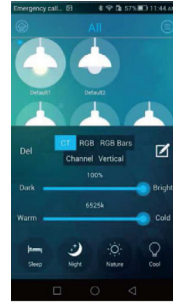
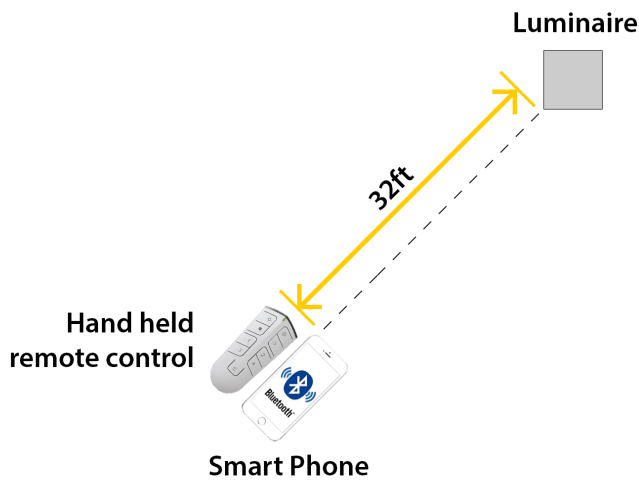Bluetooth Control Smart Phone App. (iOS & Android)
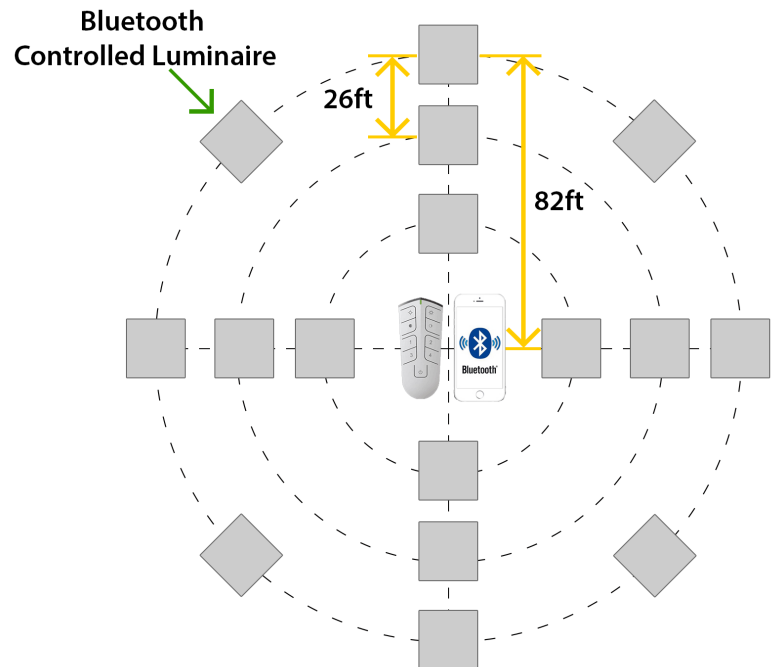
Bluetooth Remote Control
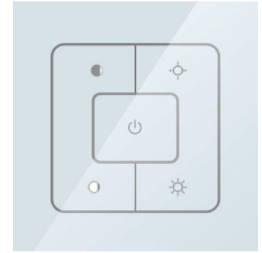
Bluetooth Wall Mount Switch
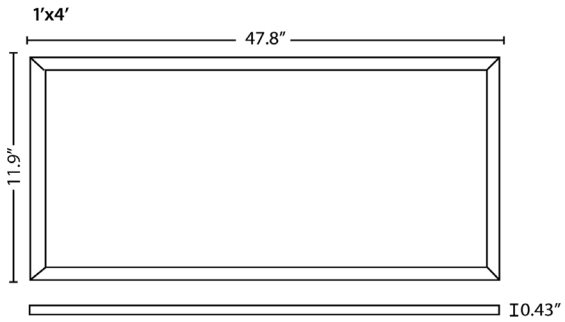
Individual Luminaire Control

Luminaire

32ft

Hand held remote control

Smart Phone

Multiple Luminaire Mesh Network Control

Bluetooth Controlled Luminaire

26ft

82ft

FPXT Series Design Details & Photometry

FPXT14
1'x4'
47.8"
11.9"
I0.43"

FPXT22
2'x2'
23.8"
23.8"
I0.43"
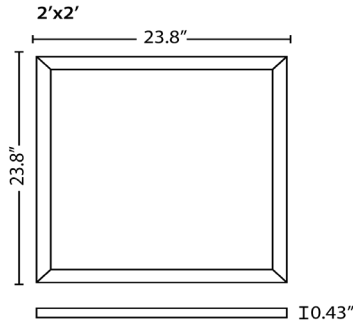
FPXT24
2'x4'
47.8"
23.8"
I0.43"

FPXT Series Photometry

FPXT14

Luminous Intensity Distribution Diagram
Light Distribution Curve [Unit:cd]

291.38
582.75
874.13
1165.50
1456.88
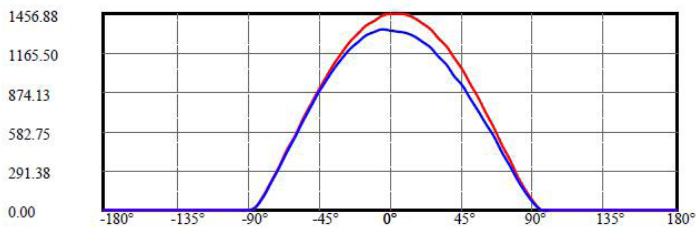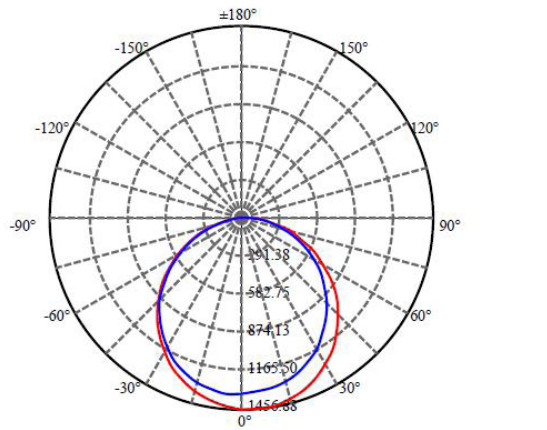
C0/C180: ——— (red)
C90/C270: ——— (blue)
Field angle(10%Imax):C0/180Left:83.0 Right:80.0
:C90/270Left:73.5 Right:89.8
Beam Angle(50%Imax):C0/180Left:57.5 Right:54.7
:C90/270Left:49.4 Right:63.4

Lux Distance Curve

Distance	Max , Ave	Diameter
1.0m	1456.9 , 1146.6 lx	306.47cm
2.0m	364.2 , 286.6 lx	612.95cm
3.0m	161.9 , 127.4 lx	919.42cm
4.0m	91.1 , 71.7 lx	1225.90cm
5.0m	58.3 , 45.9 lx	1532.37cm
6.0m	40.5 , 31.8 lx	1838.85cm
7.0m	29.7 , 23.4 lx	2145.32cm
8.0m	22.8 , 17.9 lx	2451.79cm
9.0m	18.0 , 14.2 lx	2758.27cm
10.0m	14.6 , 11.5 lx	3064.74cm

Max , Ave   Beam angle of C0plane113.06
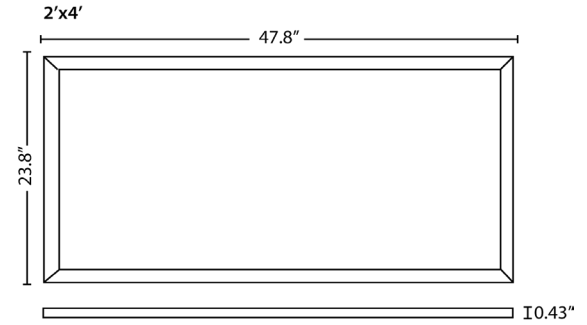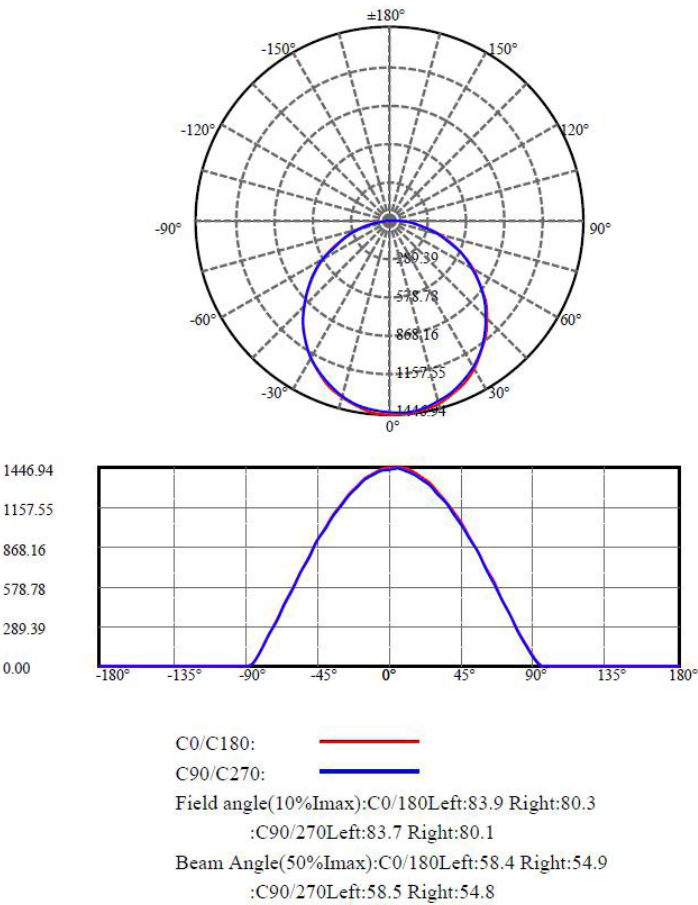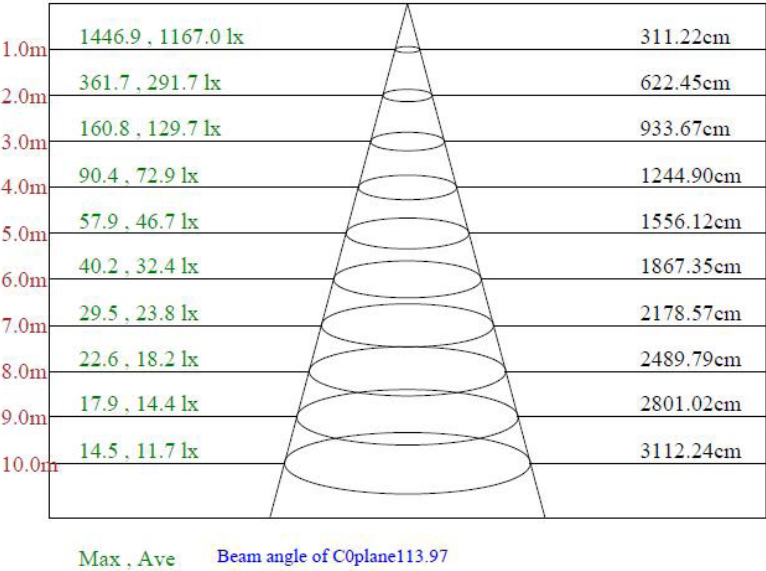
FPXT Series Design Details & Photometry

FPXT Series Photometry

FPXT22

Luminous Intensity Distribution Diagram
Light Distribution Curve [Unit:cd]

C0/C180: ———
C90/C270: ———
Field angle(10%Imax):C0/180Left:83.9 Right:80.3
:C90/270Left:83.7 Right:80.1
Beam Angle(50%Imax):C0/180Left:58.4 Right:54.9
:C90/270Left:58.5 Right:54.8

Lux Distance Curve

	Max , Ave	Distance
1.0m	1446.9 , 1167.0 lx	311.22cm
2.0m	361.7 , 291.7 lx	622.45cm
3.0m	160.8 , 129.7 lx	933.67cm
4.0m	90.4 , 72.9 lx	1244.90cm
5.0m	57.9 , 46.7 lx	1556.12cm
6.0m	40.2 , 32.4 lx	1867.35cm
7.0m	29.5 , 23.8 lx	2178.57cm
8.0m	22.6 , 18.2 lx	2489.79cm
9.0m	17.9 , 14.4 lx	2801.02cm
10.0m	14.5 , 11.7 lx	3112.24cm

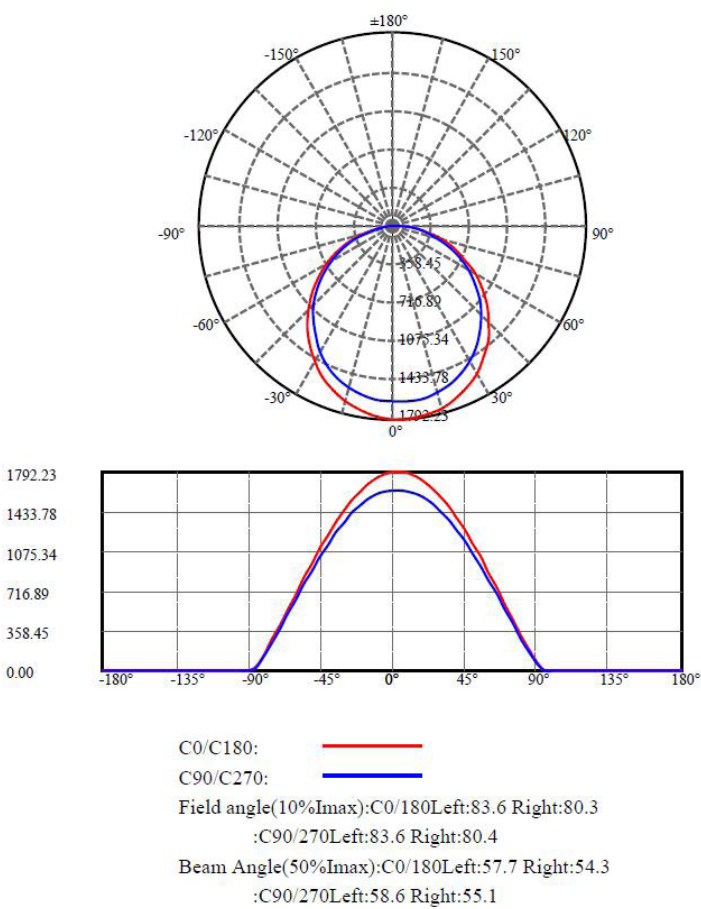Max , Ave   Beam angle of C0plane113.97

FPXT Series Design Details & Photometry

FPXT Series Photometry

FPXT24

Luminous Intensity Distribution Diagram
Light Distribution Curve [Unit:cd]

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:83.6 Right:80.3
:C90/270Left:83.6 Right:80.4
Beam Angle(50%Imax):C0/180Left:57.7 Right:54.3
:C90/270Left:58.6 Right:55.1

Lux Distance Curve

Height	Max , Ave	Distance
1.0m	1792.2 , 1427.7 lx	304.66cm
2.0m	448.1 , 356.9 lx	609.31cm
3.0m	199.1 , 158.6 lx	913.97cm
4.0m	112.0 , 89.2 lx	1218.63cm
5.0m	71.7 , 57.1 lx	1523.29cm
6.0m	49.8 , 39.7 lx	1827.94cm
7.0m	36.6 , 29.1 lx	2132.60cm
8.0m	28.0 , 22.3 lx	2437.26cm
9.0m	22.1 , 17.6 lx	2741.92cm
10.0m	17.9 , 14.3 lx	3046.57cm
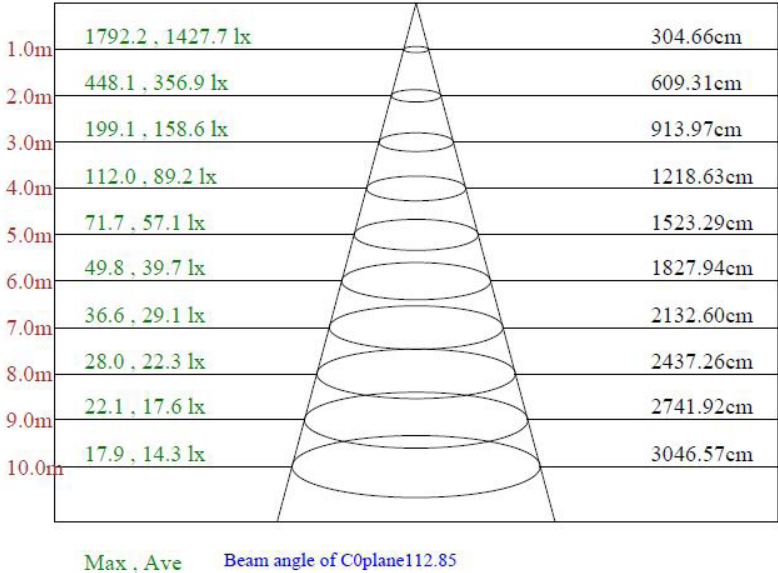
Max , Ave   Beam angle of C0plane112.85

Fidelux

FPXT Series Installation Instructions

For all FPX Series Mounting (Configurable and Tunable)

WARNING:

To avoid the risk of fire, or electric shock this product should be installed, inspected, and maintained by a qualified electrician only. Installation should be completed by an individual familiar with the construction and operation of the luminaire. Installation of luminaire must be in accordance with national and local building and electrical codes.

Safety Warning: To avoid electric shock: Be certain electrical power is OFF before and during installation and maintenance. Luminaire must be supplied by a wiring system with an equipment grounding conductor.
**To avoid burning hands:** Make sure lens and housing are cool when performing maintenance.
To avoid product degradation: Make sure the wire supply voltage is the same as the luminaire supply. Use proper supply wiring as specified on the luminaire nameplate. Avoid use in environments containing sulfur, chlorine, or other halides, methyl acetate or ethyl acetate, polyisocyanates, glycol ether, formaldehyde, or butane.

Notes: Instructions do not cover all details and all possible product configurations. Do not restrict luminaire ventilation. Ensure LED luminaire is not covered with material that will prevent convention or conduction cooling. Ensure LED luminaire has the correct polarity before installation. Avoid exposing wiring to metal edges and sharp objects.

Maintenance: Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequence of use should determine this. However it is recommended that checks be made at least once a year. Electrically check to make sure that all connections are clean and tight. Mechanically check that all parts are properly assembled.

Driver Box
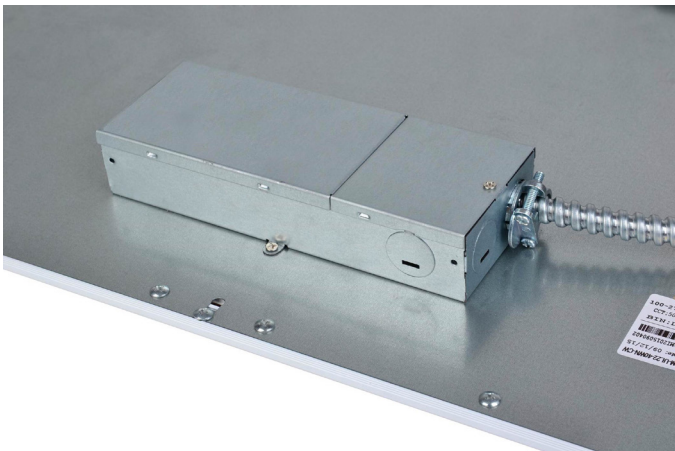
Standard Recessed T-BAR Mounting
with 3ft MC cable drop (MC3)
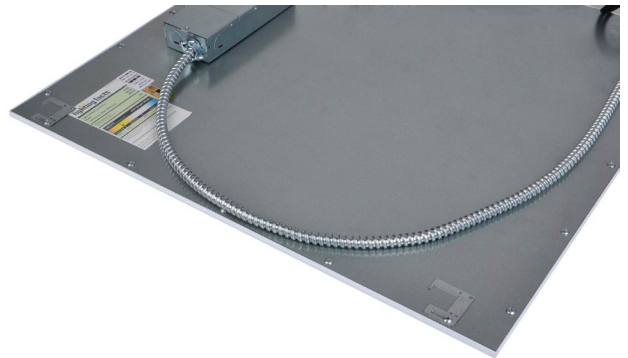
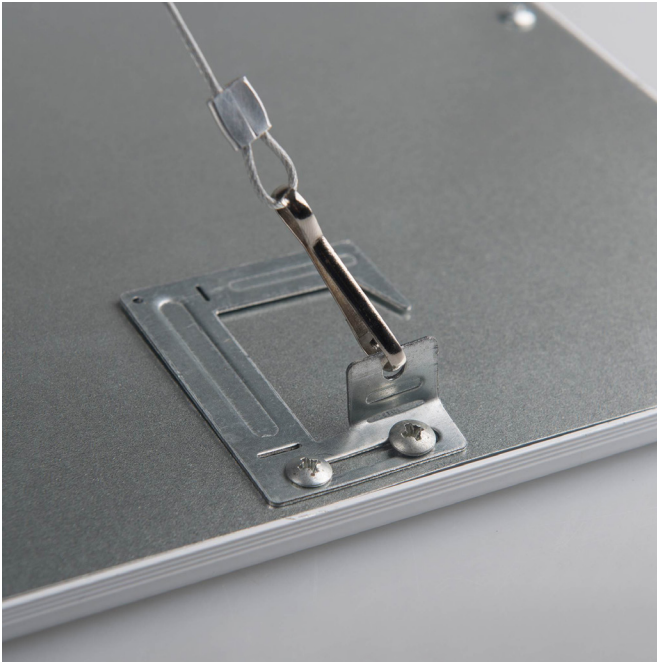# FPXT Series Installation Instructions

Suspension Mounting Kit

Step 1

Step 2

Step 3

Step 4