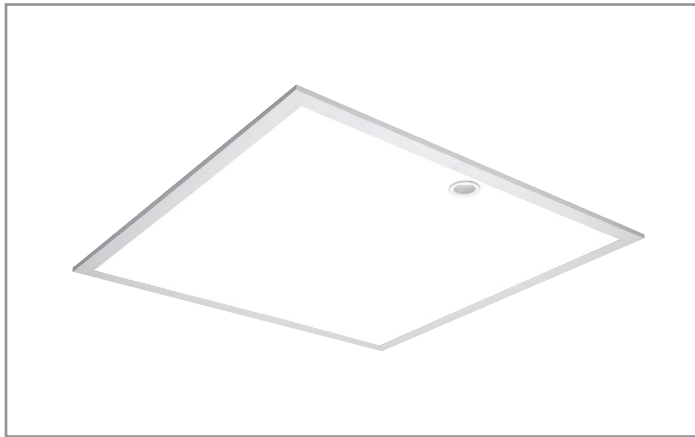


Project		Catalog #		Type	
Prepared by		Notes		Date	



Metalux

22FPX LED Panel

2' x 2' Configurable LED Panel
Recessed in Insulated Ceilings or
Suspended/Surface Mount

Typical Applications

- Commercial Office Spaces • Schools • Healthcare
- Retail Merchandising Areas

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 4](#)
- Control Systems [page 5](#)
- Product Warranty

Top Product Features

- Variety of controls and emergency battery pack options in all sizes
- Low profile perfect for renovation or new construction
- Contractor friendly, quick and easy install
- Available in 3000K, 3500K, 4000K, and 5000K CCT
- Standard and high efficacy options available

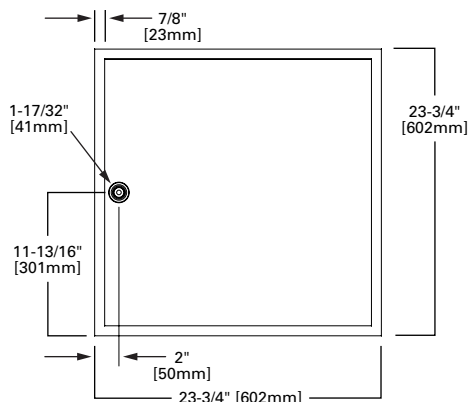
Product Certification



Product Features



Dimensional and Mounting Details



Shown with either Sensor OR Integrated
Emergency test switch.
For units with both Emergency and Sensor
there is one holder on each end.

[additional
product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: **22FPX-32-L840-SWPD1**

Rating	Width/Length	Series	LED Lumen Output	Voltage	Fuse Options	Emergency	CCT
Rating	Width/Length	Series	LED Lumen Output ⁽²⁾	Voltage ⁽⁵⁾	Fuse Options ⁽⁷⁾	Emergency	CCT
[Blank] =Standard ATW-SW4 = Chicago Rated ⁽¹⁾	22=2'x 2'	FPX =Configurable Flat Panel	21 =2100 ⁽³⁾ 25 =2500 ^{(4), (3)} 32 =3200 42 =4200	[Blank] =Universal Voltage 347V =347 Volt ⁽⁶⁾ 48V =48 Volt Low-voltage (Class 2) ⁽³⁾	[Blank] =None GL =Single Element Fuse GM =Double Element Fuse	[Blank] =None EL7W =7-watt, 120V-277V emergency battery pack installed ⁽⁸⁾ EL14W =14-watt 120V-277V emergency battery pack installed ⁽⁸⁾ ELV7W =Low-voltage system, 7-watt emergency battery pack ⁽⁹⁾ ELV14W =Low-voltage system, 14-watt emergency battery pack ⁽⁹⁾ ETRD =Iota Emergency Transfer Relay with dimming control ^{(9), (10)}	L830 =3000K ⁽¹¹⁾ L835 =3500K L840 =4000K L850 =5000K
Notes (1) No sensor or installed FLEX options available with ATW- SW4 option.			Notes (2) Lumens are approximate. Use IES files for actual performance. (3) Not compatible with WN driver. (4) 2500 lumens only available in HE.	Notes (5) Products also available in non-US voltages and frequencies for international markets. (6) 347V with sensor and/or emergencies only available with HCD or SR. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.	Notes (7) Not available with the CD driver option.	Notes (8) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (9) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). ETRD option only requires one relay when used on a dimming fixture. 347 not available. (10) These options are only available with HCD and CD drivers. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.	Notes (11) 3000K only available 21 and 32 lumen options.

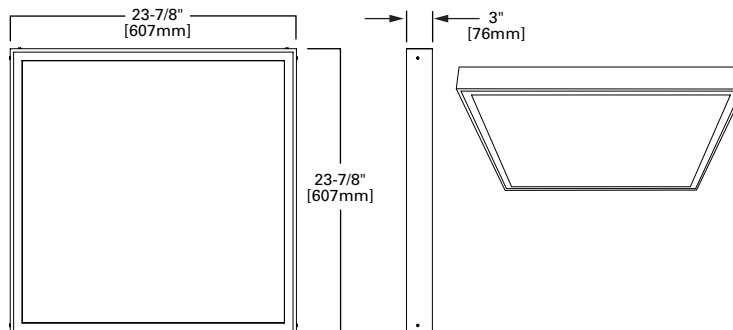
Efficacy	Flex	Driver Type	Number of Drivers
Efficacy	Flex ⁽¹³⁾	Driver Type ⁽¹⁴⁾	Number of Drivers
[Blank] =Standard HE =High ⁽¹²⁾	[Blank] =None A3/8-4/18GDIM =Flex pre-installed with 5 conductors including ground and dimming leads A3/8-5/18GDIM =Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details.	[Blank] =CD HCD =0-10V Dimming Driver (1%-100% Dimming) WN =WaveLinX Wireless Fixture, No Sensor. ^{(A), (6), (H)} 5LTD =Fifth Light DALI Driver (10%-100% Dimming) ^(E) 5LTHD =Fifth Light Dimming Driver (1%-100% Dimming) ^(E) LV1 =Low-voltage System Dimming Driver (0%-100% Dimming) ^(C) SD =Step Dimming Driver (50% or 100% Dimming) LH =Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming ^(F) L5 =Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver ^(F) SR =Sensor-ready Dimming Driver (1%-100% Dimming)	[Blank] =1 Driver
Notes (12) 2500 lumens only available in HE.	Notes (13) Multiple options available in online configurator. See additional notes on Flex below. Flexible Metal Conduit Options Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory- installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. A3/8-4/18GDIM series notes: Factory installed dimming option 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556. NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).	Notes (14) Products also available in non-US voltages and frequencies for international markets. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinX system pages for additional details and compatibility. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility. (E) Consult Fifth Light system pages for additional details and compatibility. (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com. (G) Not compatible with GTR, ETRD, or integrated sensor options. (H) Available with UNV voltage only.	

Integrated Sensing Systems	Options	Packaging
Integrated Sensing Systems	Options	Packaging
[Blank] =No Sensor WAA =WaveLinX Wireless Integrated Sensor ^{(15), (A)} WAB =WaveLinX Lite Wireless Integrated Sensor ^{(16), (B)} WLA =Low-voltage Integrated Sensor ^{(17), (C)} SVPD1 =0-10V Stand-alone Integrated Sensor ^{(14), (D)}	[Blank] =None SUS =Suspension Mount ⁽¹⁸⁾	[Blank] =Unit Pack PAL =Job Pack, out of carton
Notes (15) WAA sensor to be used with CD or W2A driver. (16) WAB and SVPD1 sensor to be used with CD driver. (17) WLA sensor to be used with LV driver. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinX system pages for additional details and compatibility. (B) WaveLinX Lite devices are not currently compatible with the WaveLinX Wireless Area Controller. Consult WaveLinX Lite system pages for additional details and compatibility. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.	Notes (18) Option is not required for suspension of the 2x2 but is recommended.	

Accessories/Ordering Information

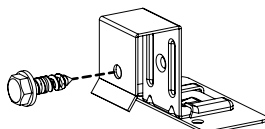
Surface Mount Kit – Surface box with sufficient clearance for all options

Catalog	UPC
FPXSURF22	080083867387
Notes: Surface mount kit is deep enough to fit all available options. Cannot be used with the FPSURF version.	



Ceiling Retention

Catalog	UPC
FPEQ	080083802685
Required by some local codes Order one set for each fixture (Four clips per kit)	



Load Data (CD most common driver)

Thd	14%
Power Factor	0.96
Weight	9.4 lbs.
Low Temp. Start	-20°C

Suspension Kit

Catalog	UPC	Description
FPSUS2	080083802784	2 point Y-hanger suspension kit includes aircraft cable, carabiner, ceiling connection, SO cord, cord connectors and round 4" J-box cover plate
Mounting height from ceiling Min. = 7-1/4" [184mm] Max. = 27" [286mm]		

Shipping Data

Size	Wt.	Pallet (30" x 56")
2' x 2'	12 lbs.	18

Drywall Frame Kit

Catalog	UPC
DF-22W-U	662401232963

Product Specifications

Construction

- Narrow aluminum bezel is tightly held to a die-formed code gauge steel back plate with flush perimeter and internal gasket
- Seamless corners to maximize the light emitting surface with a refined finish

Mounting

- Integral grid clips and separate suspension clips provided for installation flexibility when additional retention is required
- Junction box constructed of code gauge galvanized steel with an easy access hinged door
- Multiple trade size knockouts provided on the top and sides
- Stock luminaire is less than 2.5" for use in shallow plenum or low ceiling spaces
- Surface mounting kits available
- Suspension options available from factory
- CCEA (Chicago Plenum) rating options available
- Factory installed flexible cable with dimming leads options available

Integrated Controls

- Standard with 0-10V dimming driver (10% standard, 1% optional)
- WaveLinx wireless fixture for sensor-less wireless control
- WaveLinx wireless sensor compatible for standalone, controlled, connected, and IoT capability
- SVPD sensor compatible for standalone functionality
- Low-voltage sensor and driver compatible for WaveLinx Low-Voltage and DLVP applications
- DALI 2.0, Lutron, and step-dimming available

Electrical

- Standard and High Efficacy models available
- LED's available in 3000K, 3500K, 4000K, and 5000K with a minimum of 80 CRI
- Color accuracy ≤ 3 -Step MacAdam ellipse (SDCM)
- Projected lumen maintenance based on TM21 testing standards is L73 > 60,000 hours
- Emergency battery pack options available in 7W and 14W options. Battery pack options available as factory installed with fully integrated test switch
- Integral emergency transfer relay options available

Optical Shielding

- Acrylic light guide with specialized features to optimize light extraction
- White frost lens with smooth pattern for uniform illumination
- Scratch and impact resistant

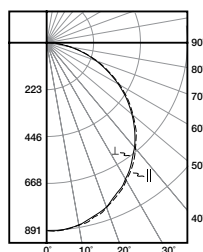
Compliance

- Indoor luminaires are cULus listed for 25C ambient environments
- IC rated for direct insulation contact
- RoHS compliant
- Damp location listed
- IESNA LM-79 and LM-80 standards compliant
- Can be used for State of California Title 24 high efficacy luminaire

Warranty

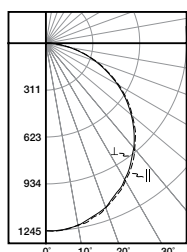
- Five year warranty.

Photometric Data

[View IES files](#)


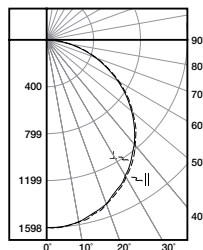
22FPX-25-L840-HE-SWPD1

Electronic Driver
Linear LED 4000K
Spacing criterion: (II) 1.25 x mounting height,
(⊥) 1.24 x mounting height
Lumens: 2539
Input Watts: 19.8W
Efficacy: 128.2 LPW
Test Report: 22FPX-25-L840-HE-SWPD1.IES



22FPX-32-L840-SWPD1

Electronic Driver
Linear LED 4000K
Spacing criterion: (II) 1.25 x mounting height,
(⊥) 1.24 x mounting height
Lumens: 3543
Input Watts: 30.4W
Efficacy: 116.6 LPW
Test Report: 22FPX-32-L840-SWPD1.IES



22FPX-42-L840-SWPD1

Electronic Driver
Linear LED 4000K
Spacing criterion: (II) 1.25 x mounting height,
(⊥) 1.24 x mounting height
Lumens: 4545
Input Watts: 40.3W
Efficacy: 112.8 LPW
Test Report: 22FPX-42-L840-SWPD1.IES

Energy and Performance Data by Catalog Number

Catalog	Delivered Nominal Lumens	Watts	Efficacy (lm/W)	Input Current (A)	
				120V	277V
22FPX-21-L840-HCD	2494	21.5	116.0	.18	.08
22FPX-25-L840-HE-HCD	2551	20.5	124.6	.17	.07
22FPX-32-L840-HCD	3560	31.2	114.1	.26	.11
22FPX-42-L840-HCD	4567	41.5	110.1	.35	.15
22FPX-32-L840-SWPD1	3543	30.4	116.2	.25	.11
22FPX-42-L840-SWPD1	4545	40.3	112.8	.34	.15

Lumen Calculator

CCT Multiplier	80 CRI
3000K	0.94
3500K	1.00
4000K	1.00
5000K	1.03

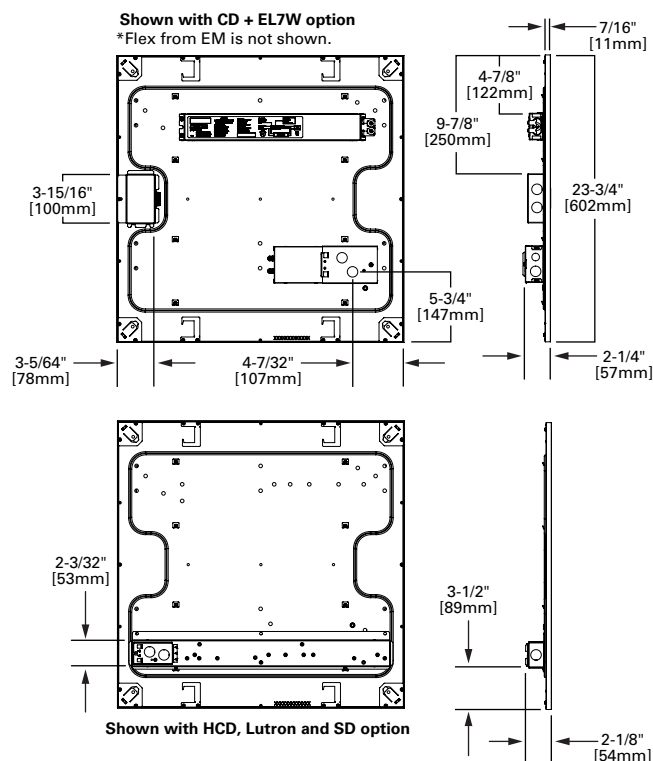
Example of Lumen Adjustment Calculation

22FPX-32-L830-HCD
at 3000K

Lumen Adjustment Factor = 0.94

Total Light Output =
3,560 lm x 0.94 = 3,360 lm
Efficacy = $\frac{3,360 \text{ lm}}{31.2 \text{ W}}$ = 107.7 lm/W

Dimensional and Mounting Details



Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- DLVP
- VividTune



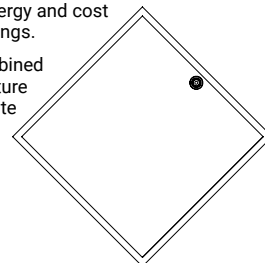
Connected Systems
[CLICK HERE](#)

The FPX with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The FPX delivers superior lighting with integrated occupancy and daylighting controls.

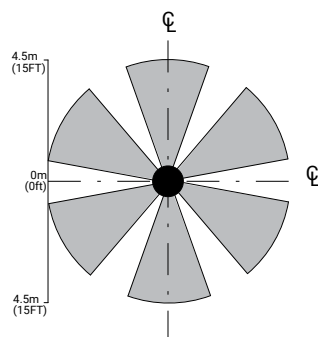
For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed.

When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings.

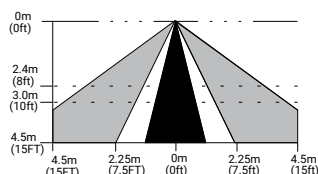
The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.



TOP VIEW:



SIDE VIEW:



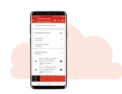
Note: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



Standalone



Controlled
WaveLinx Lite



Connected
WaveLinx Wireless



Enterprise
Trellix

	Standalone	Controlled WaveLinx Lite	Connected WaveLinx Wireless	Enterprise Trellix
Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Gateways	–	–	1 WAC	300 WACs
Devices	–	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
Software	–	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
Areas	–	28 per Site	16 per WAC	up to 4,800
Zones	–	16 per Area	16 per Area	up to 76,800
Scheduling	–	–	Local	Global
VividTune™	–	–	Yes	Yes
Plug-Load Control	–	–	Yes	Yes
Low-Voltage Power	–	–	Yes	Yes
Integration	–	–	–	BACnet, API
Dashboards	–	–	–	Energy, Occupancy
Configuration	–	Installer	Technician	Technician / IT

SCALABILITY

devices

areas

floors

buildings