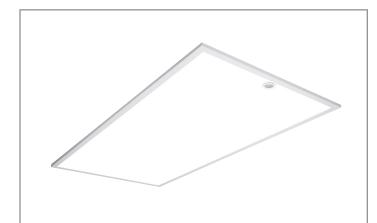
Project	Catalog #	Туре	
Prepared by	Notes	Date	



24FPX LED Panel

2' x 4' Configurable LED Panel Recessed in Insulated Ceilings or Suspended/Surface Mount

Typical Applications

- Commercial Office Spaces
 Schools
 Healthcare
- Retail Merchandising Areas

Product Certification

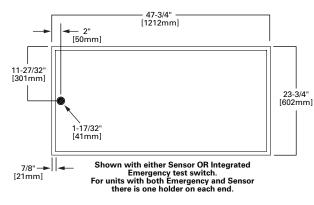
🖌 Interactive Menu

- 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
- · Options to meet Trade Agreements Act requirements

Dimensional and Mounting Details









Order Information

SAMPLE ORDER NUMBER: 24FPX-31-L840-SWPD1

Domestic Preferences	Rating	Width/Length	Series	LED Lumen Output	Voltage	Fuse Options	Emergency	ССТ
Domestic Preferences (20)	Rating	Width/Length	Series	LED Lumen Output (2)	Voltage (5)	Fuse Options (7)	Emergency	ССТ
 Blank =Standard TAA =Trade Agreements Act	[Blank]=Standard ATW-SW4= Chicago Rated ⁽¹⁾	24=2' × 4'	FPX=Configurable Flat Panel	31 =3100 38 =3800 ⁽³⁾ 47 =4700 64 =6400 ⁽⁴⁾	[Blank]=Universal Voltage 120-277 347V=347 Volt ⁽⁶⁾ 48V=48 Volt Low- voltage (Class 2) ^(C)	[Blank]=None GL=Single Element Fuse GM=Double Element Fuse	[Blank]=None EL7W=7-watt 120V-277V emergency battery pack ⁽⁸⁾ EL10W=10-watt 120V-277V emergency battery pack ⁽⁸⁾ EL14W=14-watt 120V-277V emergency battery pack ⁽⁸⁾ EL10WSD=10W emergency battery pack with self-diagnostic installed ^{(8), (20)} ELVTW=Low-voltage system, 7-watt emergency battery pack ⁽¹⁰⁾ ELV14W=Low-voltage system, 14- watt emergency battery pack ⁽¹⁰⁾ ETRD=Emergency Transfer Relay with dimming control ^{(9), (10)}	L830=3000K ⁽¹¹⁾ L835=3500K L840=4000K L850=5000K
Notes (20) Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to <u>DOMESTIC</u> . <u>PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.	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) 3000 lumens only available in HE. (4) Not compatible with WN driver.	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 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) Factory installed 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. Battery option increases total height by 1 inch. (9) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). ETRO option only reguires one relay when used on a dimming fixture. 347 not available. (10) These options are only available with HCD and CD drivers. (20) EL10WD not available with 347V. (C) Consult WaveLinx Low-Voltage or DLVP system pages for additional details and compatibility.	Notes (11) 3000K only available 31 and 47 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 Driver (1%-100% Dimming) SLTPb=DALI Driver (5%-100% Dimming) SLTHb=DALI Driver (1%-100% Dimming) ⁽¹⁵⁾ LV1=Low-voltage System Driver (0%-100% Dimming) ⁽¹⁰⁾ 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) SR=Sensor-ready Driver (1%-100% Dimming)	(Blank) =1 Driver
Notes	Notes	Notes	
(12) 3800 lumens only available in HE.	(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. A3/8-4/1800M series notes: Factory installed dimming option 3/8° flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-list- ed jacketed 0-10V +/ control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556. NEC@ 250.118, 300.22(0, 392, 396, 330, 501, 502, 503, 503, 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 embeddei un plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).	(14) Products also available in non-US voltages and frequencies for international markets. (15) Not available on 64 lumen option. 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: (C) Consult WaveLinx Low-Voltage or DLVP 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	

Integrated Sensing Systems	Options	Packaging
Integrated Sensing Systems	Options	Packaging
[Blank]=No Sensor WAA=WaveLinx Wireless Integrated Sensor ^{(16), (A)} WBB=WaveLinz Lite Wireless Integrated Sensor ^{(17), (B)} WLA=Low-voltage Integrated Sensor ^{(16), (C)} SVPD1=0-10V Stand-alone Integrated Sensor ^{(17), (D)}	[Blank]=None SUS=Suspension Mount (19)	[Blank]=Unit Pack PAL=Job Pack, out of carton
Notes (16) WAA sensor to be used with CD or W2A driver. (17) WAB and SVPD1 sensor to be used with CD driver. (18) 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 LUte devices are not currently compatible with the WaveLinx Wireless Area Controller Consult WaveLinx Lite system pages for additional details and compatibility. (C) Consult WaveLinx Lute system pages for additional details and compatibility. (B) Consult SVPD series system pages for additional details and compatibility.	Notes (19) Required for 1x4 and 2x4 suspended applications.	

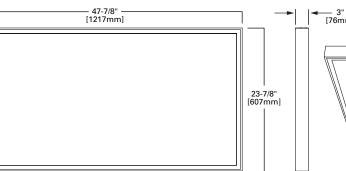


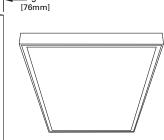
24FPX LED

Accessories/Ordering Information (21)

Surface Mount Kit - Surface box with

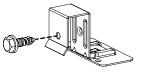
sufficient clearance for all options			
Catalog	UPC		
FPXSURF24 080083867400			
Notes: Surface mount kit is deep enough to fit all available options. Cannot be used with the FPSURF version.			





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	13%
Power Factor	0.96
Weight	18.5 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 Min.=7-1/4" [184 Max.=27" [286mr	mm]	

Drywall Frame Kit			
Catalog	UPC		
DF-24W-U	662401232970		

Shinning Data

Size Wt.		Pallet (30" x 56")		
2' x 4'	22 lbs.	9		

Notes: (21) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Product Specifications

Construction

- Narrow aluminum bezel is tightly held to a dieformed 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 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

Warranty

· Five year warranty.

Optical Shielding

- · 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
- · Meets IP5X rating from the room side with no modification needed

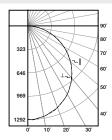
Emergency Battery Options

- 120V-277V integral emergency battery pack comes in 7-watts, 10-watt, or 14-watts
- Self-diagnostic emergency battery available in 10 or 14-watts (NFPA 101® Life Safety Code®)
- Constant power to the LED system for controlled, predictable discharge
- Integrated test switch/indicator light visible from floor
- · Min. 90-minute backup period for code compliance
- · Integral emergency transfer relay available for generator equipped power systems

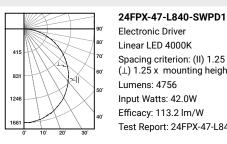


24FPX LED

Photometric Data

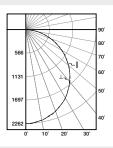


24FPX-38-L840-HE-SWPD1 Electronic Driver Linear LED 4000K Spacing criterion: (II) 1.25 x mounting height, (\perp) 1.25 x mounting height Lumens: 3700 Input Watts: 28.7W Efficacy: 128.9 LPW Test Report: 24FPX-38-L840-HE-SWPD1.IES



🌮 View IES files

Electronic Driver Linear LED 4000K Spacing criterion: (II) 1.25 x mounting height, (\bot) 1.25 x mounting height Lumens: 4756 Input Watts: 42.0W Efficacy: 113.2 lm/W Test Report: 24FPX-47-L840-SWPD1.IES



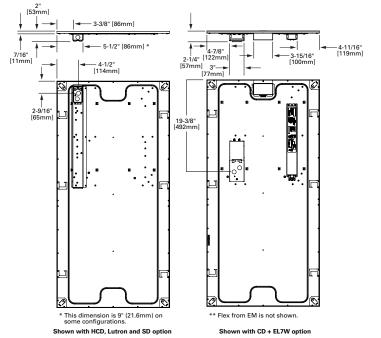
24FPX-64-L840-SWPD1 **Electronic Driver**

Linear LED 4000K Spacing criterion: (II) 1.25 x mounting height, (\bot) 1.25 x mounting height Lumens: 6472 Input Watts: 63.3W Efficacy: 102.2 lm/W Test Report: 24FPX-64-L840-SWPD1.IES

Energy and Performance Data by Catalog Number

	Delivered		Input Current (A)		
Catalog	Nominal Lumens	Watts	Efficacy (Im/W)	120V	277V
24FPX-31-L840-HCD	3608	29.8	121.2	.25	.11
24FPX-38-L840-HE-HCD	3780	28.9	130.8	.25	.11
24FPX-47-L840-HCD	4858	43.2	112.5	.36	.16
24FPX-64-L840-HCD	6611	63.3	104.5	.53	.23
24FPX-47-L840-SWPD1	4756	40.3	113.2	.34	.15
24FPX-64-L840-SWPD1	6472	63.3	102.2	.53	.23

Dimensional and Mounting Details





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

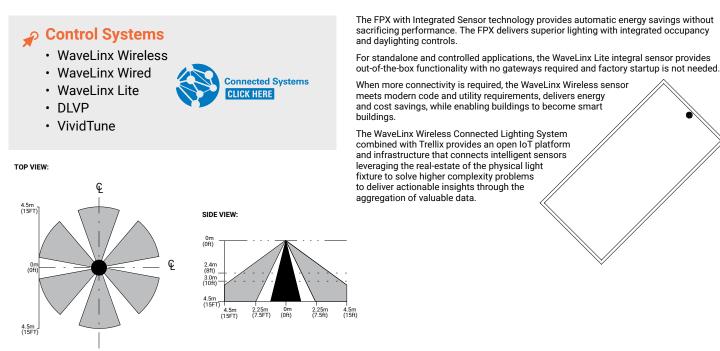
Example of Lumen Adjustment Calculation

24FPX-47-L850-HCD at 5000K

Lumen Adjustment Factor = 1.03

Total Light Output = 4,858 lm x 1.03 = 5,005 lm Efficacy = $\frac{5,005 \text{ Im}}{10.0 \text{ W}}$ = 115.9 Im/W 43.2 W

24FPX LED



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 sensor

Standalone Spaces WaveLinx Lite







Networked Spaces WaveLinx Pro Enterprise Trellix

Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Wallstations	-	Yes	Yes	Yes
Gateways	-	-	1 WAC	300 WACs
Devices (MAX)	-	50 per Area (1400 per site)	200 per WAC2	32,500 per Core Enterprise
Software	-	WaveLinx Lite Mobile App	WaveLinx Pro Mobile App	Trellix Core
Areas	-	28 per Site	50 per WAC2	up to 3,000
Zones	-	16 per Area	16 per Area	up to 9,000
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



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buildings