

FP Series

FP22™ 596mm x 596mm LED Flat Panel

Product Description

The fully luminous flat panel design of the FP Series transforms any space into a modern, visually comfortable environment with soft, balanced light. The remarkably thin 8.8mm depth of the FP Series flat panel easily accommodates narrow plenums or can be suspended for a more stylish look. The FP Series LED flat panels deliver up to 3,400 lumens of highly efficacious 100 lumens per watt light with great color quality. The enhanced optics enable the FP Series to meet the strict low glare requirements, delivering <19 UGR for an enhanced lighting experience. The DALI dimming control option delivers a more personalized lighting experience by allowing more individual control for increased energy savings.

Applications: Office, shops, education, petroleum

Performance Summary

Efficacy: Up to 100 LPW

Delivered Light Output: 3,200-3,400 lumens

Input Power: 34 watts

CRI: > 80

CCT: 3000K, 4000K

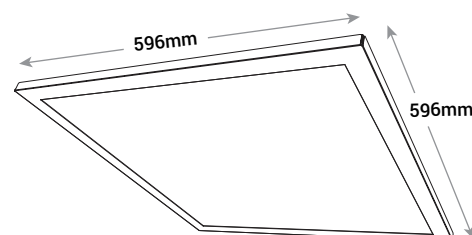
Input Voltage: 100-240 VAC

Limited Warranty[†]: 3 years

Lifetime: 50,000 hours L₇₀ at 25°

Mounting: Recessed or Suspended

Control: Continuous dimming to 5% with DALI controls or non-dimmable



Accessories

Field-Installed
Suspension Kit FPAC-1350-2 - Suspension Kit with canopy kit and cables

Ordering Information					
Example: FP22-32L-30K-23V-FD					
Product	Lumen Output	CCT	Voltage	Control	Option
FP22	32L	30K*	23V 100-240 VAC (Standard)	Blank Non-Dimmable DALI DALI dimming to 5%	FD 80 CRI
	34W, 3,200 lumens – 100 LPW	3000K			
	34L	40K**			
	34W, 3,400 lumens – 100 LPW	4000K			

* Available only in 32L

** Available only in 34L

[†] See www.cree.com/lighting/products/warranty for warranty terms



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Product Specifications

CREE® LED TECHNOLOGY

Cree's total systems approach to product development is a comprehensive engineering philosophy that combines the most advanced LED sources, driver technologies, optics and forms. The result is highly-reliable luminaire solutions for both indoor and outdoor applications that reduce energy use, extend lifetimes, and maximize illumination performance and quality.

CONSTRUCTION & MATERIALS

- Solid aluminum frame provides strength and uniformity
- Ultra-thin 8.8mm fixture height and design effectively target a broad range of plenum spaces and allow for easy installations
- Luminaire is finished with a soft matte white paint
- Provided t-bar clips and tabs for mounting support wires enable recessed or add suspension kit for suspended installation
- Frosted polycarbonate lens for non-pixelated appearance

OPTICAL SYSTEM

- Edge-lit flat panel optics produce soft balanced low glare illumination
- Components work together to optimize distribution, balancing the delivery of high illuminance levels on horizontal surfaces with an ideal amount of light on walls and vertical surfaces

ELECTRICAL SYSTEM

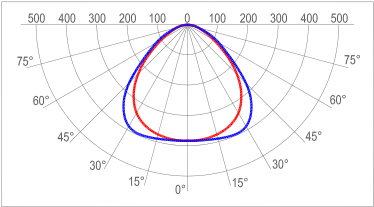
- Integral, high-efficiency driver and power supply
- **Power Factor:** > 0.9
- **Input Power:** Stays constant over life
- **Input Voltage:** 100-240 VAC, 50/60Hz
- **Temperature Rating:** -15°-40°C (5°F - 104°F)
- **Total Harmonic Distortion:** < 20%
- **Control:** Continuous dimming to 5% with DALI or non-dimmable

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE and RoHS compliant
- Ingress Protection: IP40
- Designed for Indoor use

Photometry

FP22-34L-40K-23V-FD BASED ON RESTL REPORT TEST #: PL05820-001
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



cd/klm
C0 - C180 C90 - C270

Average Luminance Table (cd/m²)				
Vertical Angle	Horizontal Angle			
		0°	45°	90°
	45°	3,101	3,382	3,676
	55°	2,263	2,536	2,579
	65°	1,580	1,570	1,987
	75°	1,363	1,238	1,305
	85°	1,132	1,490	1,157

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	1,118	N/A	32.0%
0-40	1,849	N/A	52.9%
0-60	3,016	N/A	86.4%
0-90	3,493	N/A	100%

Coefficients Of Utilization – Zonal Cavity Method				
RCC %:	80			
RW %:	70	50	30	0
RCR: 0	119	119	119	119
1	110	106	102	98
2	101	93	87	82
3	93	83	76	70
4	85	74	66	60
5	79	67	58	52
6	73	60	52	46
7	68	55	47	41
8	63	50	42	37
9	59	46	38	33
10	55	43	35	30

Effective Floor Cavity Reflectance: 20%

Application Reference

Open Space						
Spacing (m)	Initial Delivered Lumens	Lumens	Wattage	LPW	w/m²	Actual LUX
2.4 x 2.4	34L	3400	34	100	5.67	547.9
2.4 x 3.0	34L	3400	34	100	4.72	456.4
3.0 x 3.0	34L	3400	34	100	3.78	364.9
3.0 x 3.6	34L	3400	34	100	3.02	292.8

3m ceiling: 80/50/20 reflectances; 0.75m workplane, open room. LLF: 1.0 Initial Open Space: 15m x 12m x 3m