

# P14FR

## LED BACKLIT PANEL

### 4 CCT AND 3 POWER SELECTABLE

P14FR LED backlit panel series offers the ultimate versatility. Featuring a 120-347V driver and the flexibility to change the colour temperature and lumen output with a simple switch, the P14FR series is the perfect cost-effective solution for reducing stocking inventory. With its wide selection of 4 colour temperatures ranging from 3 000 K to 5 000 K, this next-generation back-lit panel is ideal to replace fluorescent fixtures in offices, schools, and commercial buildings or to easily adapt to any new construction requirements.



## FEATURES & SPECIFICATIONS

### CONSTRUCTION

#### Physical Characteristics

- Frame is made of white aluminum alloy
- PMMA LED lens
- Polystyrene diffuser
- CCT and Power Select switches are placed on the driver box

#### Mounting

- Recessed, suspended, surface

### PERFORMANCE DATA

- Available in 3 000/3 500/4 000/5 000 K selectable color temperature
- 82+ CRI
- Electrical ratings: 120-347 V
- Estimated life over 144 000 hours to L70
- 0-10 V dimming standard
- 2 kV surge protection
- Operating temperature: -20 °C to 40 °C [-4 °F to 104 °F]

### COMPLIANCES

- cULus listed for damp locations
- DLC Standard
- Meets requirements of ICES-005 issue 5 for Class B products
- Conforms to:
  - CAN/ULC-S102.3-07 Standard method of fire test of light diffusers and lenses
  - CAN/ULC-S102.2-10 Standard method of test for surface burning characteristics of flooring, floor coverings, and miscellaneous materials and assemblies

OVERVIEW			
LIGHT SOURCE	LED	EFFICACY (LM/W)	110 - 137
WATTS (W)	20/30/40 30/40/50	COLOR TEMPERATURE (K)	3 000/3 500/4 000/5 000
LUMEN OUTPUT (LM)	2 462 - 6 025	CRI	82+
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Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/search](http://www.designlights.org/search).

# P14FR

## QUICK SHIP ORDERING GUIDE



PART NUMBER	DLC UNIQUE ID	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] <sup>1</sup>	LUMEN OUTPUT [LM] <sup>2,3</sup>	EFFICIENCY [LM/W]	CRI	LIFE L70 [HRS] <sup>4</sup>	Tested hours LM-80 [hrs] <sup>4</sup>	DIMMING	PF	THD [%]	CASE QTY [MASTER]
<b>1x4</b>													
<b>P14FR-1LPS40-32/4C<sup>5</sup></b>	S-QZ7XIF	20/30/40	120-347	3 000/3 500/4 000/5 000	2 732/3 882/4 953	110	82+	144 000	9 000	Yes	0.9	<20	2
<b>2x2</b>													
<b>P14FR-2LPS40-32/4C<sup>5</sup></b>	S-WP3QJ4	20/30/40	120-347	3 000/3 500/4 000/5 000	2 605/3 743/4 754	110	82+	144 000	9 000	Yes	0.9	<20	2
<b>2x4</b>													
<b>P14FR-4LPS50-32/4C<sup>5</sup></b>	S-QLMDA3	30/40/50	120-347	3 000/3 500/4 000/5 000	3 912/4 987/6 025	110	82+	144 000	9 000	Yes	0.9	<20	2

<sup>1</sup> Typical color temperature range: +/- 5 %.

<sup>2</sup> Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

<sup>3</sup> Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

<sup>4</sup> Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

<sup>5</sup> Standard packaging is 2 panels per master case without individual box.

## LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS [W]	3 000 K		3 500 K		4 000 K		5 000 K	
		LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
<b>P14FR-1LPS40-32/4C</b>	20	2 533	127	2 692	135	2 732	137	2 704	135
	30	3 556	119	3 813	127	3 882	129	3 764	125
	40	4 509	113	4 848	121	4 953	124	4 747	119
<b>P14FR-2LPS40-32/4C</b>	20	2 462	123	2 588	129	2 605	130	2 570	129
	30	3 456	115	3 679	123	3 743	125	3 577	119
	40	4 384	110	4 675	117	4 754	119	4 512	113
<b>P14FR-4LPS50-32/4C</b>	30	3 669	122	3 840	128	3 912	130	3 905	130
	40	4 665	117	4 895	122	4 987	125	4 918	123
	50	5 667	113	5 909	118	6 025	121	5 910	118

### ■ DEFAULT PROGRAMMING

P14FR-1LPS40-32/4C : 40W/4 000 K

P14FR-2LPS40-32/4C : 40W/4 000 K

P14FR-4LPS50-32/4C : 50W/4 000 K

## ACCESSORIES (ORDER SEPARATELY)

ORDER CODE	TYPE	COMPATIBLE WITH
PF-DWK-1X4-A	DRYWALL KIT	1X4
PF-DWK-2X2-A	DRYWALL KIT	2X2
PF-DWK-2X4-A	DRYWALL KIT	2X4
CAS973-1	SURFACE MOUNT KIT	1X4
CAS973-2	SURFACE MOUNT KIT	2X2
CAS973-3	SURFACE MOUNT KIT	2X4
KIT-SUS-CH	SUSPENSION KIT	1X4, 2X2, 2X4

## COMPATIBLE DIMMERS

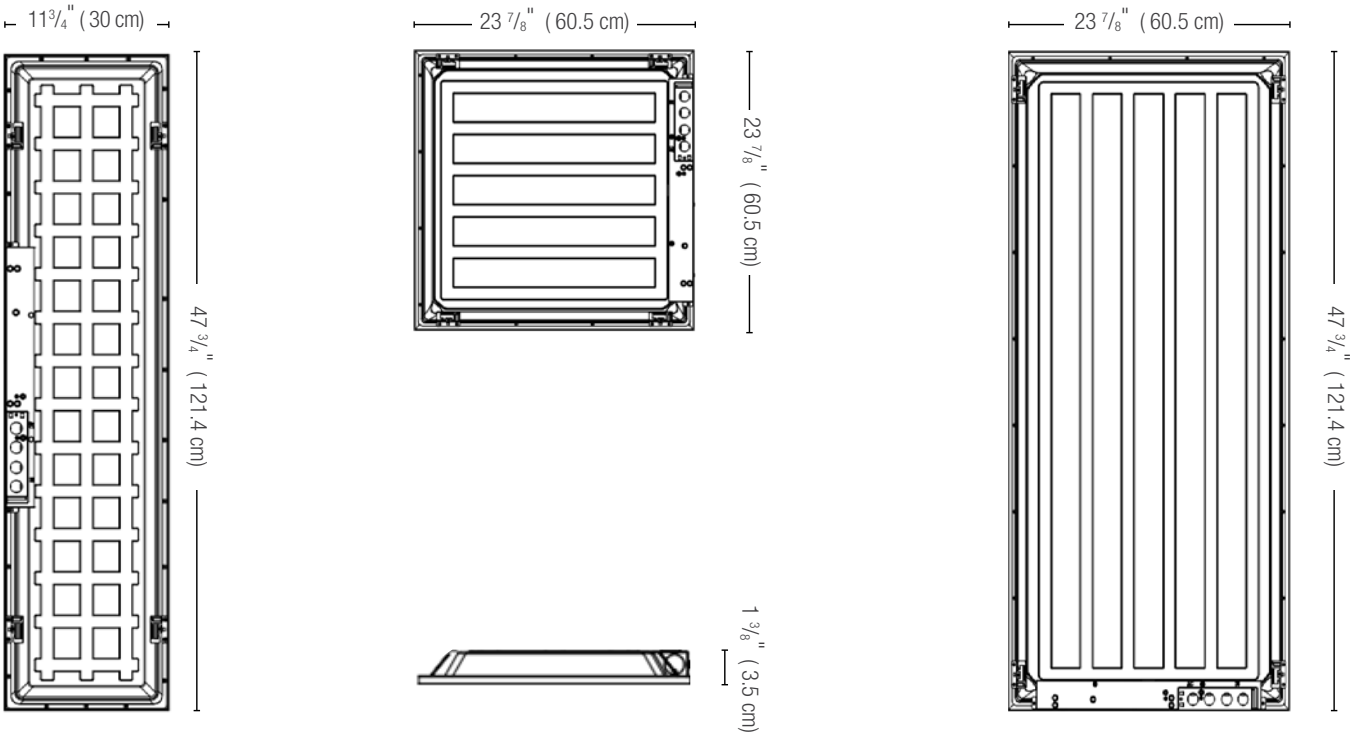
BRAND	MODEL NUMBER
Lutron	DVSTV
	MS-2101
Leviton	IP710-DLZ
Philips	SR12002TUNV

**Dimming range:** 10%-100%

**NOTE:** The above table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation. Some dimmers may require more than one product for stable operation. The maximum number of products is determined by the dimmer wattage rating with LEDs. Be careful, these dimmers have different ratings depending on the product type. Again, refer to the dimmer installation instructions.

# P14FR

## DIMENSIONS AND WEIGHTS

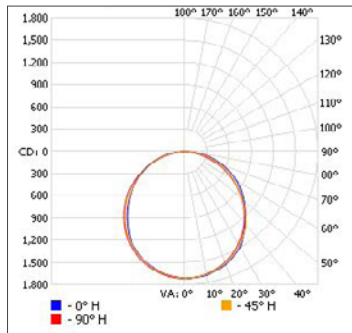


	1X4	2X2	2X4
NET WEIGHT (LBS)	4.4	3.5	7.3

## PHOTOMETRIC DATA<sup>1</sup>

P14FR-1LPS40-32/4C • 40 W • 4 000 K • 4 953 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 332.3	26.9
0-40	2 183.2	44.1
0-60	3 850.9	77.7
60-90	1 101.8	22.2
0-90	4 952.8	100

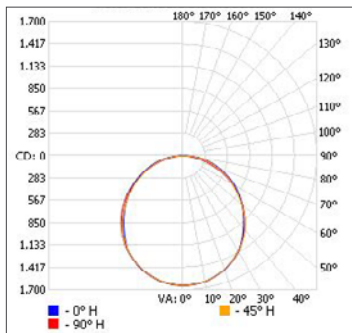
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
2.0'	429.0
4.0'	107.3
6.0'	47.7
8.0'	26.8
10.0'	17.2
6.1'	6.0'
12.1'	12.0'
18.2'	18.1'
24.2'	24.1'
30.3'	30.1'

■ Vert. Spread: 113.2° ■ Hor. Spread: 112.8°

P14FR-2LPS40-32/4C • 40 W • 4 000 K • 4 754 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 280.0	26.9
0-40	2 096.9	44.1
0-60	3 694.9	77.7
60-90	1 059.2	22.3
0-90	4 754.2	100

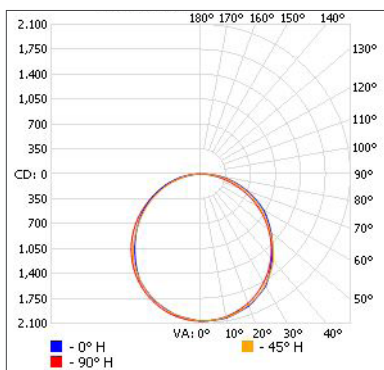
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
2.0'	412.3
4.0'	103.1
6.0'	45.8
8.0'	25.8
10.0'	16.5
6.0'	6.0'
12.0'	12.1'
18.0'	18.1'
24.0'	24.1'
29.9'	30.1'

■ Vert. Spread: 112.5° ■ Hor. Spread: 112.9°

P14FR-4LPS50-32/4C • 50 W • 4 000 K • 6 025 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 608.0	26.7
0-40	2 636.5	43.8
0-60	4 659.6	77.3
60-90	1 365.5	22.7
0-90	6 025.0	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC	BEAM WIDTH
2.0'	517.3
4.0'	129.3
6.0'	57.5
8.0'	32.3
10.0'	20.7
6.2'	6.0'
12.3'	12.1'
18.5'	18.1'
24.7'	24.2'
30.9'	30.2'

■ Vert. Spread: 114.1° ■ Hor. Spread: 113.0°

<sup>1</sup> Complete IES files available on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.