

PHILIPS

Recessed

Flat panel

3800 & 4200 lumens



Flat panel 2' X 4'



Flat panel 2' X 2'

Project: _____

Location: _____

Cat.No: _____

Type: _____ Qty: _____

Notes: _____

The Philips Flat panel LED is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Flat panel is ideal for general lighting applications such as open office, schools, healthcare, and retail.

Ordering guide

Example: P2FXP42B840-4-DS-UNV-DIM

Brand	Width	Family	Lumens	Color	Length	Diffusers	Voltage	Driver
P	2	FXP		—	—	DS	—	
P Philips	2 2'	FXP Flat panel	38B 2'X2' 3800 nominal delivered lumens 42B 2'X4' 4200 nominal delivered lumens	835 80 CRI, 3500K 840 80 CRI, 4000K	2 2' 4 4'	DS Diffuse (smooth)	UNV Universal voltage 120-277V	DIM 0-10v dimming

Application

- 7/16" ultra shallow light guide profile.
- Overall 1-15/16" deep luminaire, including driver box, provides minimal intrusion into the plenum space.
- Even distribution of light on the lens provides exceptionally low glare gradient minimizing distractions at the ceiling plane.
- General light distribution creates uniform horizontal and vertical illuminance on the work plane and limits scalloping on the walls.
- Excellent consistency of correlated color temperature (CCT) per ANSI C78.377.
- CRI 80 minimum color rendering with balanced spectrum.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars.

Construction/Finish

- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver from above.
- Edge lit LED arrays provide highly efficient and unpixelated transfer of light to the light guide panel.
- Integral clips accommodate definitive attachment to T-bar grid for recessed applications.

Enclosure

- Acrylic diffuser provides visual comfort and high efficiency.
- Flat opal lens is easy to clean and provides a uniform aesthetic on the ceiling plane.
- Tight enclosure assembly impedes ingress of dust and insects.

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2' X 2'	P2FXP38B840-2	33	113
2' X 4'	P2FXP42B840-4	38	112

Lighttogo



Flat panel LED

2' X 2' / 2' x 4'

Electrical

- Up to 115 lm/W efficacy.
- High efficiency Philips Advance driver featuring high power factor (>0.90), 120–277V 60/50Hz, and less than 15% THD.
- Minimum start temperature -20°C (-4°F).
- 0–10V dimming to 5%.
- Electromagnetic interference (EMI) compliant to FCC Title 47 Part 15 class A.
- Flicker and stroboscopic effect compliant to NEMA 77–2017.

- TM-21 predicted L70 lumen maintenance up to 67,000 hours for 2x2 and 84,000 hours for 2x4 per LED manufacturer LM-80 report.
- cULus listed to UL and CSA standards, suitable for damp locations.
- Each master carton contains two panels.

General Notes

- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from

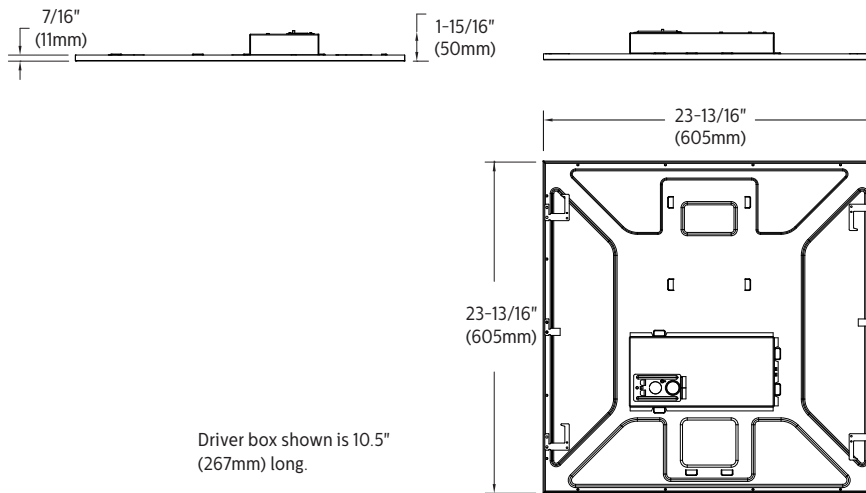
various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are

expected in the intended area of use, consult factory for compatibility.

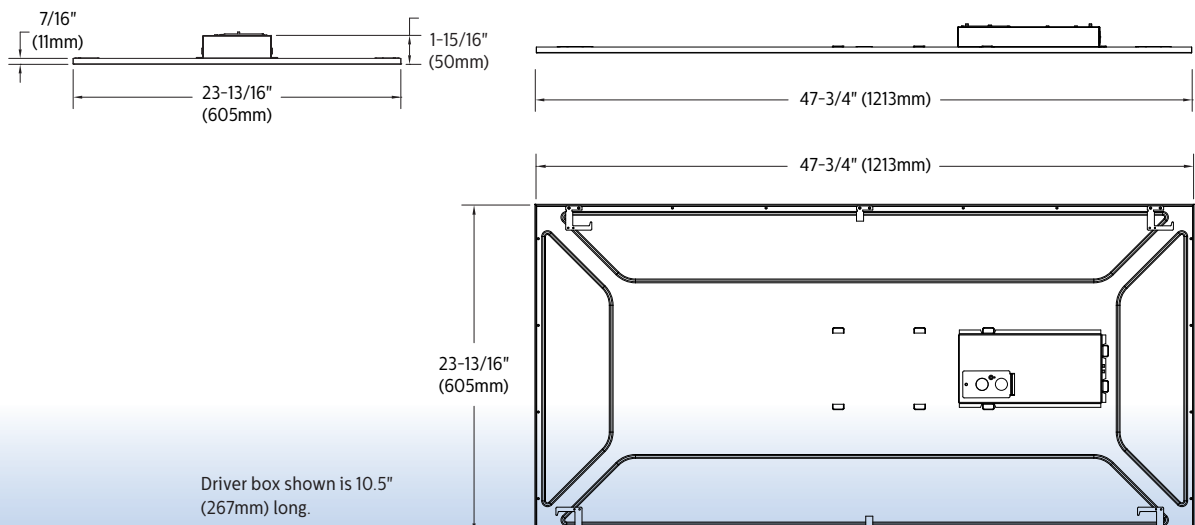
- Five year limited luminaire warranty includes LED boards and driver. Visit philips.com/warranties for complete warranty information.

Dimensions

2 X 2ft



2 X 4ft



Lighttogo

Flat panel LED

2' X 2' / 2' x 4'

2x2 Flat panel LED, 3800 nominal delivered lumens 3500K

LER – 110

Catalog No.		Candlepower				Light Distribution			Average Luminance			
Test No.		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45'	Cross
38552		0	1253	1250	1254	0-30	975	27.0	45	3841	3745	3722
S/MH		5	1246	1241	1243	0-40	1600	44.3	55	3692	3558	3514
Lamp Type		15	1203	1193	1193	0-60	2839	78.7	65	3214	3029	2955
Lumens/Lamp		25	1117	1103	1101	0-90	3574	99.1	75	2760	2445	2309
Input Watts		35	992	975	971	0-180	3607	100.0	85	2248	1581	1230
		45	836	815	810							
		55	652	628	620							
		65	418	394	384							
		75	220	195	184							
		85	60	42	33							
		95	5	5	5							
		05	5	5	5							
		115	5	5	5							
		125	5	5	5							
		135	6	6	6							
		145	6	6	6							
		155	6	6	6							
		165	6	6	6							
		175	6	6	6							

Comparative yearly lighting energy cost per 1000 lumens – \$2.18 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	115	115	115	111	111	
1	109	104	98	106	101	96	96	93	
2	98	90	83	95	88	81	84	79	
3	90	79	70	86	78	69	75	68	
4	81	69	60	80	68	60	66	58	
5	76	63	54	72	61	53	58	52	
6	69	56	46	68	55	46	54	46	
7	65	51	41	63	50	41	48	40	
8	59	46	38	58	46	38	45	36	
9	56	42	34	55	41	34	40	34	
10	53	39	32	51	39	30	38	30	

2x2 Flat panel LED, 3800 nominal delivered lumens 4000K

LER – 113

Catalog No.		Candlepower				Light Distribution			Average Luminance			
Test No.		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45'	Cross
38553		0	1265	1265	1265	0-30	984	27.2	45	3880	3791	3762
S/MH		5	1260	1256	1254	0-40	1613	44.6	55	3718	3601	3564
Lamp Type		15	1217	1207	1207	0-60	2864	79.2	65	3222	3076	3025
Lumens/Lamp		25	1129	1115	1111	0-90	3617	100.0	75	2722	2511	2455
Input Watts		35	1003	985	981	0-180	3618	100.0	85	1782	1607	1544
		45	844	825	819							
		55	656	636	629							
		65	419	400	393							
		75	217	200	196							
		85	48	43	41							

Comparative yearly lighting energy cost per 1000 lumens – \$2.12 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	115	115	115	111	111	
1	109	104	100	106	102	97	96	93	
2	98	91	83	95	89	81	84	80	
3	90	79	70	88	78	69	75	68	
4	81	69	60	80	68	60	66	58	
5	76	63	54	73	61	53	59	52	
6	69	56	47	68	56	46	54	46	
7	65	51	41	63	50	41	48	40	
8	59	46	38	58	46	38	45	36	
9	56	42	34	55	41	34	40	34	
10	53	40	32	51	39	30	38	30	

Flat panel LED

2' X 2' / 2' x 4'

2x4 Flat panel LED, 4200 nominal delivered lumens 3500K

LER – 108

Catalog No. P2FXP42B835-4-DS-UNV-DIM Test No. 38280 S/MH 1.3 Lamp Type LED Lumens/Lamp 4116 Input Watts 38 Comparative yearly lighting energy cost per 1000 lumens – \$2.22 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	Candlepower				Light Distribution			Average Luminance			
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45'	Cross
	0	1444	1444	1444	0-30	1122	27.2	45	2135	2137	2132
	5	1430	1439	1447	0-40	1839	44.7	55	2062	2058	2054
	15	1379	1389	1395	0-60	3260	79.2	65	1925	1923	1864
	25	1284	1288	1292	0-90	4115	100.0	75	1544	1555	1563
	35	1144	1148	1146	0-180	4116	100.0	85	1048	1187	1288
	45	967	968	966	Coefficients of Utilization						
	55	758	756	755	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
	65	521	521	505	pcc	80			70		
	75	256	258	259	pw	70	50	30	70	50	30
	85	59	66	72	RCR						
					0	118	118	118	115	115	115
					1	109	104	100	106	102	97
					2	98	91	83	95	89	81
					3	90	79	70	88	78	69
					4	81	69	61	80	68	60
					5	76	63	54	73	61	53
					6	69	56	47	68	56	46
					7	65	51	41	63	50	41
					8	59	46	38	58	46	38
					9	56	42	34	55	41	34
					10	53	40	32	52	39	30

2x4 Flat panel LED, 4200 nominal delivered lumens 4000K

LER – 112

Catalog No. P2FXP42B840-4-DS-UNV-DIM Test No. 38281 S/MH 1.3 Lamp Type LED Lumens/Lamp 4245 Input Watts 38 Comparative yearly lighting energy cost per 1000 lumens – \$2.14 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	Candlepower				Light Distribution			Average Luminance			
	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45'	Cross
	0	1482	1482	1482	0-30	1154	27.2	45	2178	2183	2181
	5	1467	1476	1484	0-40	1894	44.6	55	2105	2103	2096
	15	1420	1427	1434	0-60	3361	79.2	65	1961	1961	1908
	25	1321	1329	1332	0-90	4243	100.0	75	1572	1586	1596
	35	1179	1183	1184	0-180	4245	100.0	85	1070	1208	1309
	45	998	1000	999	Coefficients of Utilization						
	55	782	781	779	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
	65	537	537	522	pcc	80			70		
	75	264	266	268	pw	70	50	30	70	50	30
	85	60	68	74	RCR						
					0	118	118	118	115	115	115
					1	109	104	100	106	102	97
					2	98	91	83	95	89	81
					3	90	79	70	88	78	69
					4	81	69	61	80	68	60
					5	76	63	54	73	61	53
					6	69	56	47	68	56	46
					7	65	51	41	63	50	41
					8	59	46	38	58	46	38
					9	56	42	34	55	41	34
					10	53	40	32	51	39	30

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