

# 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
<b>P</b>	<b>2</b>	<b>FXP</b>		-		<b>DS</b>	-	
<b>P</b> Philips	<b>2</b> 2'	<b>FXP</b> Flat panel	<b>38B</b> 2'X2' 3800 nominal delivered lumens <b>42B</b> 2'X4' 4200 nominal delivered lumens	<b>835</b> 80 CRI, 3500K <b>840</b> 80 CRI, 4000K	<b>2</b> 2' <b>4</b> 4'	<b>DS</b> Diffuse (smooth)	<b>UNV</b> Universal voltage 120-277V	<b>DIM</b> 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
<b>2' X2'</b>	P2FXP38B840-2	33	113
<b>2' X4'</b>	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.

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.

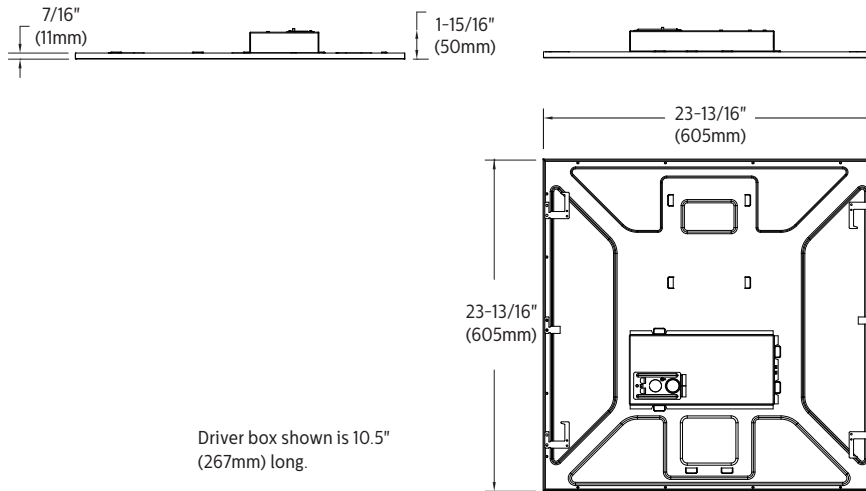
## General Notes

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

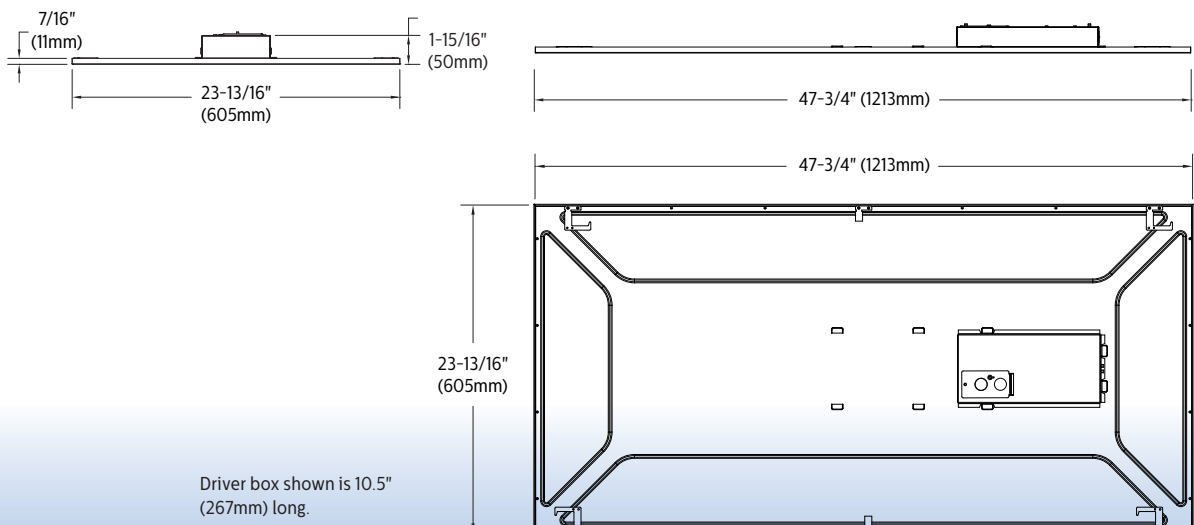
- Five year limited luminaire warranty includes LED boards and driver. Visit [philips.com/warranties](https://www.philips.com/warranties) for complete warranty information.

## 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

<b>Catalog No.</b>	P2FXP38B835-2-DS-UNV-DIM	<b>Candlepower</b>				<b>Light Distribution</b>			<b>Average Luminance</b>									
<b>Test No.</b>	38552	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45'</b>	<b>Cross</b>						
<b>S/MH</b>	1.2	0	1253	1250	1254	0-30	975	27.0	45	3841	3745	3722						
<b>Lamp Type</b>	LED	5	1246	1241	1243	0-40	1600	44.3	55	3692	3558	3514						
<b>Lumens/Lamp</b>	3607	15	1203	1193	1193	0-60	2839	78.7	65	3214	3029	2955						
<b>Input Watts</b>	33	25	1117	1103	1101	0-90	3574	99.1	75	2760	2445	2309						
Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.18</b> 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.		35	992	975	971	0-180	3607	100.0	85	2248	1581	1230						
		45	836	815	810	<b>Coefficients of Utilization</b>												
		55	652	628	620	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>												
		65	418	394	384	<b>pcc</b>	<b>80</b>			<b>70</b>			<b>50</b>					
		75	220	195	184	<b>pw</b>	70	50	30	70	50	30	50	30				
		85	60	42	33	<b>RCR</b>												
		95	5	5	5	0	118	118	118	115	115	115	111	111				
		05	5	5	5	1	109	104	98	106	101	96	96	93				
		115	5	5	5	2	98	90	83	95	88	81	84	79				
		125	5	5	5	3	90	79	70	86	78	69	75	68				
135	6	6	6	4	81	69	60	80	68	60	66	58						
145	6	6	6	5	76	63	54	72	61	53	58	52						
155	6	6	6	6	69	56	46	68	55	46	54	46						
165	6	6	6	7	65	51	41	63	50	41	48	40						
175	6	6	6	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

<b>Catalog No.</b>	P2FXP38B840-2-DS-UNV-DIM	<b>Candlepower</b>				<b>Light Distribution</b>			<b>Average Luminance</b>									
<b>Test No.</b>	38553	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45'</b>	<b>Cross</b>						
<b>S/MH</b>	1.2	0	1265	1265	1265	0-30	984	27.2	45	3880	3791	3762						
<b>Lamp Type</b>	LED	5	1260	1256	1254	0-40	1613	44.6	55	3718	3601	3564						
<b>Lumens/Lamp</b>	3618	15	1217	1207	1207	0-60	2864	79.2	65	3222	3076	3025						
<b>Input Watts</b>	32	25	1129	1115	1111	0-90	3617	100.0	75	2722	2511	2455						
Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.12</b> 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.		35	1003	985	981	0-180	3618	100.0	85	1782	1607	1544						
		45	844	825	819	<b>Coefficients of Utilization</b>												
		55	656	636	629	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>												
		65	419	400	393	<b>pcc</b>	<b>80</b>			<b>70</b>			<b>50</b>					
		75	217	200	196	<b>pw</b>	70	50	30	70	50	30	50	30				
		85	48	43	41	<b>RCR</b>												
						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

<b>Catalog No.</b>	P2FXP42B835-4-DS-UNV-DIM	<b>Candlepower</b>				<b>Light Distribution</b>			<b>Average Luminance</b>									
<b>Test No.</b>	38280	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45'</b>	<b>Cross</b>						
<b>S/MH</b>	1.3	<b>0</b>	1444	1444	1444	<b>0-30</b>	1122	27.2	<b>45</b>	2135	2137	2132						
<b>Lamp Type</b>	LED	<b>5</b>	1430	1439	1447	<b>0-40</b>	1839	44.7	<b>55</b>	2062	2058	2054						
<b>Lumens/Lamp</b>	4116	<b>15</b>	1379	1389	1395]	<b>0-60</b>	3260	79.2	<b>65</b>	1925	1923	1864						
<b>Input Watts</b>	38	<b>25</b>	1284	1288	1292	<b>0-90</b>	4115	100.0	<b>75</b>	1544	1555	1563						
		<b>35</b>	1144	1148	1146	<b>0-180</b>	4116	100.0	<b>85</b>	1048	1187	1288						
		<b>45</b>	967	968	966	<b>Coefficients of Utilization</b>												
		<b>55</b>	758	756	755	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>												
		<b>65</b>	521	521	505	<b>pcc</b>	<b>80</b>			<b>70</b>			<b>50</b>					
		<b>75</b>	256	258	259	<b>pw</b>	70	50	30	70	50	30	50	30				
		<b>85</b>	59	66	72	<b>RCR</b>												
		<b>0</b>																
		<b>1</b>																
		<b>2</b>																
		<b>3</b>																
		<b>4</b>																
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		<b>7</b>																
		<b>8</b>																
		<b>9</b>																
		<b>10</b>																
Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.22</b> 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.																		

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

## LER – 112

<b>Catalog No.</b>	P2FXP42B840-4-DS-UNV-DIM	<b>Candlepower</b>				<b>Light Distribution</b>			<b>Average Luminance</b>									
<b>Test No.</b>	38281	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45'</b>	<b>Cross</b>						
<b>S/MH</b>	1.3	<b>0</b>	1482	1482	1482	<b>0-30</b>	1154	27.2	<b>45</b>	2178	2183	2181						
<b>Lamp Type</b>	LED	<b>5</b>	1467	1476	1484	<b>0-40</b>	1894	44.6	<b>55</b>	2105	2103	2096						
<b>Lumens/Lamp</b>	4245	<b>15</b>	1420	1427	1434	<b>0-60</b>	3361	79.2	<b>65</b>	1961	1961	1908						
<b>Input Watts</b>	38	<b>25</b>	1321	1329	1332	<b>0-90</b>	4243	100.0	<b>75</b>	1572	1586	1596						
		<b>35</b>	1179	1183	1184	<b>0-180</b>	4245	100.0	<b>85</b>	1070	1208	1309						
		<b>45</b>	998	1000	999	<b>Coefficients of Utilization</b>												
		<b>55</b>	782	781	779	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>												
		<b>65</b>	537	537	522	<b>pcc</b>	<b>80</b>			<b>70</b>			<b>50</b>					
		<b>75</b>	264	266	268	<b>pw</b>	70	50	30	70	50	30	50	30				
		<b>85</b>	60	68	74	<b>RCR</b>												
		<b>0</b>																
		<b>1</b>																
		<b>2</b>																
		<b>3</b>																
		<b>4</b>																
		<b>5</b>																
		<b>6</b>																
		<b>7</b>																
		<b>8</b>																
		<b>9</b>																
		<b>10</b>																
Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.14</b> 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.																		

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