

PHILIPS Day-Brite CFI

Recessed

FluxPanel
LED 2x4

Up to 6000 lumens



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

Philips Day-Brite/Philips CFI FluxPanel LED recessed is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Available for use in recessed, suspended, and surface mount orientation, FluxPanel is ideal for general lighting applications such as open office, schools, healthcare, and retail.

Ordering guide – Standard configurations available with all choices, unless otherwise noted. Base configurations selections indicated by blue.

Example: 2FXP43L840-4-DS-UNV-DIM-EMLED7

Width	Family	Lumens	Color	Length	Diffuser	Voltage	Driver	Options ²
2	FXP		–	4	–	DS	–	
2 2'	FXP FluxPanel	Standard configurations 38L 3800 nominal delivered lumens 43L 4300 nominal delivered lumens 48L 4800 nominal delivered lumens 54L 5400 nominal delivered lumens 60L 6000 nominal delivered lumens <u>Base configuration</u> 42B 4200 nominal delivered lumens	835 80 CRI, 3500K 840 80 CRI, 4000K	4 4'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277 volt 347 347V	DIM¹ 0-10V dimming SDIM Step dimming to 40% input power XDIM MarkX phase dimming	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow EMLED Bodine BSL310 10W battery pack EMLED7 Bodine BSL17 7W battery pack CHIC Chicago Plenum rated

Accessories (order separately)

- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" mounting
- **FSK24** – 2'x4' surface mount field installation kit
- **4PCH48-1-SC** – adjustable cable hanger kit for 2x4 with straight white 18/3 cord (two-1 powered, 1 non-powered)
- **4PCH48-1D-SC** – adjustable cable hanger kit for 2x4 with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)

Footnotes

- ¹ 0-10v dimming to 1% for Standard, and 5% for Base configurations
² All options available with Standard configurations only

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x4 Standard	2FXP38L840	33	109
	2FXP43L840	39	107
	2FXP48L840	47	105
	2FXP54L840	51	104
2x4 Base	2FXP38B840	38	112



2FXP FluxPanel LED recessed 2x4

Up to 6000 lumens

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. Drywall or plaster application require use with the FMA24 "F" mounting frame accessory (sold and shipped separately).
- Accessory field install kits available for surface (FSK24) and suspended (4PCH48) mounting.
- 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.
- Die formed surface box accessory kit post painted gloss white enamel.
- Suspended accessory kits available, include cables, luminaire mounting clips, and adjustable connectors.
- All Base configurations are shipped two luminaires per master carton. Standard configurations are one luminaire per master carton.
- 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 84,000 hours per LED manufacturer LM-80 report.
- cULus (Base) or cETLus (Standard) listed to UL and CSA standards, suitable for damp locations.
- FluxPanel luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).

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.

Electrical

- Up to 111 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).
- Standard configurations are 0-10V dimming to 1%. Base configurations are to 5%.
- To predict lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1200lm for EMLED, and 850lm for EMLED7.

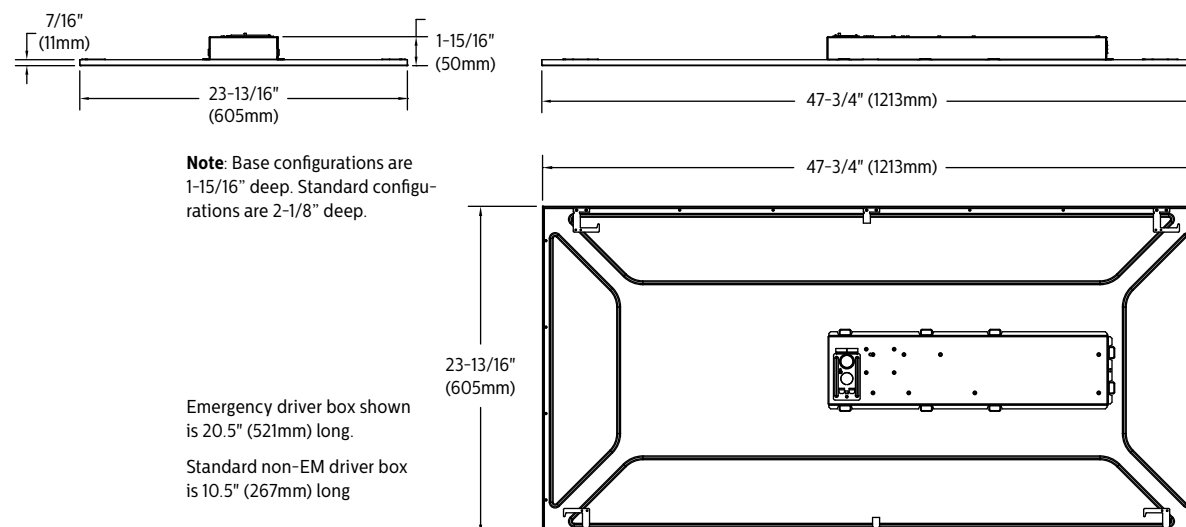
General Notes

- All options factory installed.
- All accessories are field installed.
- 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 www.philips.com/warranties for complete warranty information.

Construction/Finish

- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Emergency options available with factory installed battery pack and remote field installed test switch/light with cover plate.
- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver(s) from above.

Dimensions



2FXP FluxPanel LED recessed 2x4

Up to 6000 lumens

2x4 FluxPanel LED, 4200 nominal delivered lumens 3500K

LER – 108

Catalog No.	2FXP42B835-4-DS-UNV-DIM	Candlepower				Light Distribution			Average Luminance			
Test No.	38280	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	1.3	0	1444	1444	1444	0-30	1122	27.2	45	2135	2137	2132
Lamp Type	LED	5	1430	1439	1447	0-40	1839	44.7	55	2062	2058	2054
Lumens/Lamp	4116	15	1379	1389	1395	0-60	3260	79.2	65	1925	1923	1864
Input Watts	38	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							
		55	758	756	755							
		65	521	521	505							
		75	256	258	259							
		85	59	66	72							

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.

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		
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5	76	63	54	73	61	53			59	52		
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9	56	42	34	55	41	34			40	34		
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Coefficients of Utilization

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2x4 FluxPanel LED, 4200 nominal delivered lumens 4000K

LER – 112

<div>Catalog No.2FXP42B840-4-DS-UNV-DIM</div> <div>Test No.38281</div> <div>S/MH1.3</div> <div>Lamp TypeLED</div> <div>Lumens/Lamp4245</div> <div>Input Watts38</div>	<div>Candlepower</div> <table><tr><th>Angle</th><th>End</th><th>45</th><th>Cross</th></tr><tr><td>0</td><td>1482</td><td>1482</td><td>1482</td></tr><tr><td>5</td><td>1467</td><td>1476</td><td>1484</td></tr><tr><td>15</td><td>1420</td><td>1427</td><td>1434</td></tr><tr><td>25</td><td>1321</td><td>1329</td><td>1332</td></tr><tr><td>35</td><td>1179</td><td>1183</td><td>1184</td></tr><tr><td>45</td><td>998</td><td>1000</td><td>999</td></tr><tr><td>55</td><td>782</td><td>781</td><td>779</td></tr><tr><td>65</td><td>537</td><td>537</td><td>522</td></tr><tr><td>75</td><td>264</td><td>266</td><td>268</td></tr><tr><td>85</td><td>60</td><td>68</td><td>74</td></tr></table>	Angle	End	45	Cross	0	1482	1482	1482	5	1467	1476	1484	15	1420	1427	1434	25	1321	1329	1332	35	1179	1183	1184	45	998	1000	999	55	782	781	779	65	537	537	522	75	264	266	268	85	60	68	74	<div>Light Distribution</div> <table><tr><th>Degrees</th><th>Lumens</th><th>% Luminaire</th></tr><tr><td>0-30</td><td>1154</td><td>27.2</td></tr><tr><td>0-40</td><td>1894</td><td>44.6</td></tr><tr><td>0-60</td><td>3361</td><td>79.2</td></tr><tr><td>0-90</td><td>4243</td><td>100.0</td></tr><tr><td>0-180</td><td>4245</td><td>100.0</td></tr></table>	Degrees	Lumens	% Luminaire	0-30	1154	27.2	0-40	1894	44.6	0-60	3361	79.2	0-90	4243	100.0	0-180	4245	100.0	<div>Average Luminance</div> <table><tr><th>Angle</th><th>End</th><th>45°</th><th>Cross</th></tr><tr><td>45</td><td>2178</td><td>2183</td><td>2181</td></tr><tr><td>55</td><td>2105</td><td>2103</td><td>2096</td></tr><tr><td>65</td><td>1961</td><td>1961</td><td>1908</td></tr><tr><td>75</td><td>1572</td><td>1586</td><td>1596</td></tr><tr><td>85</td><td>1070</td><td>1208</td><td>1309</td></tr></table>	Angle	End	45°	Cross	45	2178	2183	2181	55	2105	2103	2096	65	1961	1961	1908	75	1572	1586	1596	85	1070	1208	1309																																																																																																																																										
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