

PHILIPS
Day-Brite
CFI

Recessed

FluxGrid LED 1x4

with Power over ethernet
(PoE) technology



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

The Philips Day-Brite / Philips CFI FluxGrid LED recessed offers architectural appeal with “must have” features. Two different lens styles, discreet air handling, integral emergency, and access to the boards and driver from below make FluxGrid an ideal solution for a wide range of applications.

Ordering guide

Example: 1FGG38L840-4-D-LV-POE-SYS

Width	Family	Ceiling Type	Air Function	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
1	FG	G				4		LV	POE	
1 1'	FG FluxGrid	G Grid	Blank Static H Air return	30L 3000 nominal delivered lumens 38L 3800 nominal delivered lumens 45L 4500 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	D Diffuse (ribbed) DS Diffuse (smooth)	LV Low voltage	POE Power over ethernet	SYS PoE daylight and motion detection EMLED 600lm integral emergency driver and battery pack

Accessories (order separately)

- **FMA14** – 1'x4' "F" mounting frame for NEMA "F" mounting
- **FGD4L** – FG 4' ribbed replacement lens
- **FGDS4L** – FG 4' smooth replacement lens
- **FGHD4L** – FG 4' air return/controls ribbed replacement lens
- **FGHDS4L** – FG 4' air return/controls smooth replacement lens



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Application

- 3" deep low profile configuration provides minimal penetration into the plenum space.
- Acrylic diffuser available in ribbed and smooth configurations provides even illumination with comfortable appeal.
- Multiple lumen packages available to suit the needs of various applications.
- Lambertian distribution creates uniform horizontal and vertical illuminance on the work plane and reduces scalloping on the walls.
- CRI 80 minimum color rendering with balanced spectrum.
- LEDs coupled with controls provide prolonged lumen maintenance.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG" ceiling T-bars. Drywall or plaster applications require use with the FMA14 "F" mounting frame accessory (sold and shipped separately).
- Continuous row mounting is possible with a 1" gap between fixtures accommodated by others.

Enclosure

- Opal acrylic diffuser provides visually comfortable lumenance without compromise to luminaire efficacy.
- Diffuser requires no frames or fasteners and can be easily removed from below without the use of tools.

Construction/Finish

- Uncomplicated design is 3" deep with minimal material overlap creating several benefits:
 - Less material required
 - Less packaging required
 - Reduced weight for ease of handling and transit
 - Less energy required for construction and assembly
 - More luminaires can be shipped per truck to reduce fuel consumption
- Metal side covers are die formed with a conical shape to enhance light distribution and visual aesthetic.
- Injection molded lens retainers allow for easy, tool-free access to the LED boards and driver from below, and provide positive lens retention.
- Luminaire finish is matte white polyester powder coat for high quality, durable finish.
- T-bar grid clips are integral to the body.
- Air return option provides air flow through a unique lens retainer design. Air passes through architectural forms in the lens retainers (each end), and through the end plate of the luminaire. A cover plate is provided to control air flow through the luminaire, or make it static as required.
- Integral controls options include sensor mounted in one lens retainer.
- Optional integral emergency driver and battery pack provide 600lm nominal output, test switch and light on side panel (top access).
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of -20°C to 30°C (-4°F to 86°F) ambient, and 45-85% relative humidity.

General notes

- All options are 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.

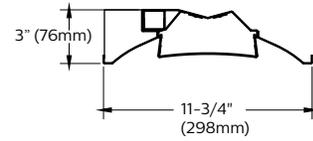
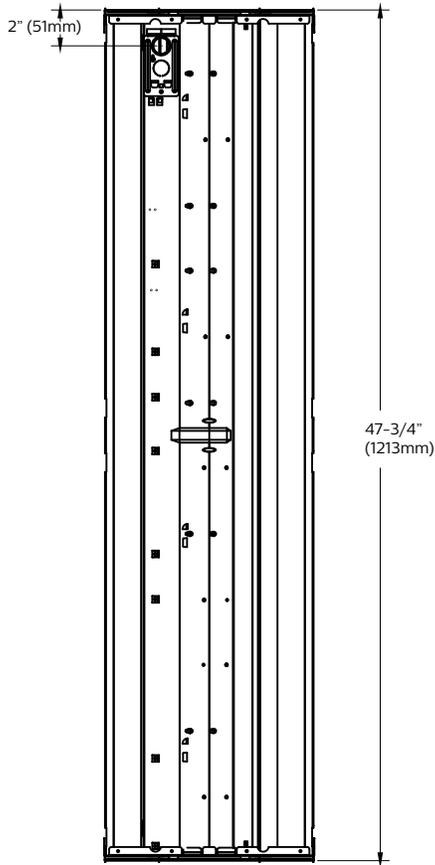
Electrical

- Integral sensor options for occupancy sensing (PIR) and/or daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- LED boards are accessible from below by removal of the lens. Lens removal is tool-free by compressing the sides and pushing to one end.
- POE lighting controller is accessible from above.
- Five year limited luminaire warranty includes LED boards and POE lighting controller. Optional emergency battery has a 4 year limited warranty. Visit www.philips.com/warranties for complete warranty information.
- TM-21 predicted L70 lumen maintenance up to 70,000 hours.
- cETLus listed to UL and CSA standards, suitable for damp locations.

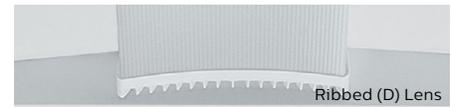
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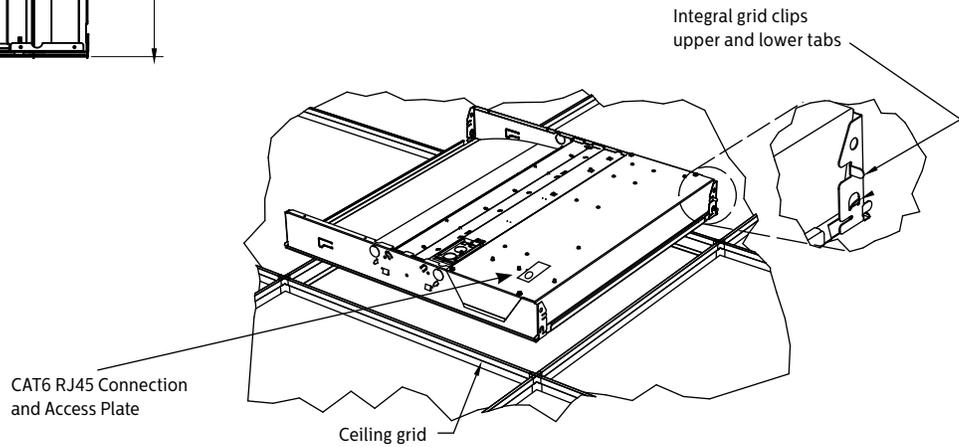
Dimensions



Controls sensor integrated into one lens retainer. (Representative sensor placement shown)



The air return option allows air to flow through vents in the lens retainers on each end. Air blades are provided on each end of the luminaire to control air flow to the plenum.

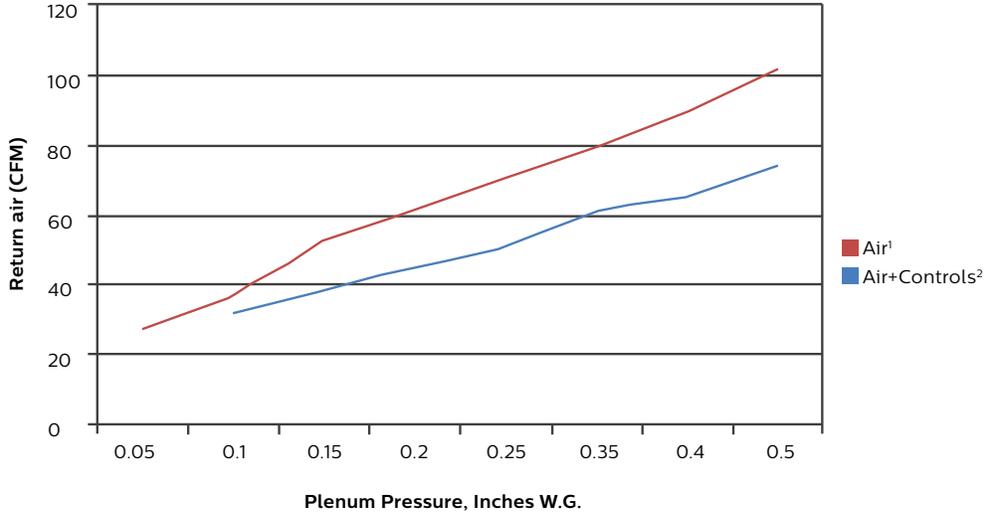


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Air return

Return air data
All luminaire sizes



Return air - noise criteria
All luminaire sizes

		CFM							
Mode		27	37	53	62	71	80	90	102
Air ¹	NC (dB)	<15	24	25	29	33	35	38	40

		CFM							
Mode			31	38	45	51	61	65	74
Air+Controls ²	NC (dB)		<15	19	21	25	28	30	34

1. Air-only option includes air return lens retainers and pattern control blades on both ends of luminaire.
2. Air+Controls includes the air return lens retainer and pattern control blade on one end of the luminaire. Control lens retainer on the other with matching width.

Photometry

1x4 FluxGrid LED recessed with PoE, 3000 nominal delivered lumens LER – 130

Catalog No.	1FGG30L840-4-D-LV-POE	Candlepower				Light Distribution			Average Luminance			
Test No.	38012	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45'	Cross
S/MH	1.2	0	1174	1174	1174	0-30	891	28.4	45	6526	6987	7222
Lamp Type	LED	5	1157	1166	1173	0-40	1441	46.0	55	6022	6696	6991
Lumens	3132	15	1103	1111	1118	0-60	2505	80.0	65	5431	6324	6378
Input Watts	24	25	998	1012	1025	0-90	3132	100.0	75	4514	5242	4829
		35	853	883	901	0-180	3132	100.0	85	2578	2315	1860
		45	686	735	759	Coefficients of Utilization						
		55	514	571	596	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
		65	341	397	401	pcc						
		75	174	202	186	pw						
		85	33	30	24	RCR						
						0						
						1						
						2						
						3						
						4						
						5						
						6						
						7						
						8						
						9						
						10						
Comparative yearly lighting energy cost per 1000 lumens – \$1.85 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.												

1FG FluxGrid LED recessed 1x4

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1x4 FluxGrid LED recessed with PoE, 3800 nominal delivered lumens LER – 128

Catalog No.	1FGG38L840-4-D-LV-POE	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	38013	0	1439	1439	1439	0-30	1092	28.4	45	7989	8595	8845
S/MH	1.2	5	1414	1427	1438	0-40	1767	45.9	55	7371	8244	8565
Lamp Type	LED	15	1350	1361	1371	0-60	3075	80.0	65	6669	7775	7834
Lumens	3845	25	1223	1242	1257	0-90	3845	100.0	75	5570	6373	5946
Input Watts	30	35	1045	1083	1105	0-180	3845	100.0	85	3164	2763	2308
		45	840	904	930							
		55	629	703	730							
		65	419	489	492							
		75	214	245	229							
		85	41	36	30							

Comparative yearly lighting energy cost per 1000 lumens – **\$1.88** 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.

1x4 FluxGrid LED recessed with PoE, 4500 nominal delivered lumens LER – 125

Catalog No.	1FGG45L840-4-D-LV-POE	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	38014	0	1699	1699	1699	0-30	1289	28.4	45	9433	10103	10446
S/MH	1.2	5	1674	1687	1698	0-40	2086	46.0	55	8708	9694	10094
Lamp Type	LED	15	1596	1608	1618	0-60	3627	80.0	65	7874	9144	9259
Lumens	4534	25	1444	1464	1485	0-90	4534	100.0	75	6552	7521	7030
Input Watts	36	35	1234	1275	1305	0-180	4534	100.0	85	3689	3280	2732
		45	992	1062	1098							
		55	743	827	861							
		65	495	575	582							
		75	252	289	271							
		85	48	43	35							

Comparative yearly lighting energy cost per 1000 lumens – **\$1.92** 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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