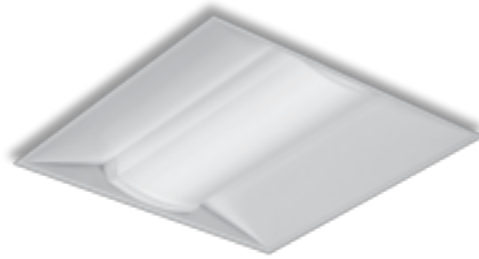


# PHILIPS Day-Brite CFI

Recessed

EvoGrid  
LED 2x2

with Power over ethernet  
(PoE) technology



Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

The Philips Day-Brite / Philips CFI EvoGrid recessed LED utilizes highly reliable and efficient Philips LED platform solid state components enabling market leading performance in its category. Its soft opal diffuser with large luminous area minimizes apparent brightness compared to other basket luminaires and provides general lighting perfect for a wide variety of applications.

## Ordering guide

Example: 2EVG27L840-2-D-LV-POE

Width	Family	Ceiling Type	Lumens	Color	Length	Diffuser	Voltage	Driver	Options
2	EV	G	27L	—	2	D	LV	POE	
2 2'	EV EvoGrid	G Grid	27L 2700 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (Opal)	LV Low voltage	POE Power over ethernet	SYS PoE daylight and motion detection CRM Continuous Row Mount

## Accessories (order separately)

- **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting
- **EVD2L** – EvoGrid 2' replacement lens

## Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalistic strategy to achieve sustainable objectives.
- Low profile configuration is only 2-3/4" deep, requiring minimal plenum space
- Soft opal diffuser with large luminous area minimizes apparent brightness and provides high visual comfort perfect for a wide variety of general lighting applications like offices, schools, retail, or healthcare.
- Directs a controlled amount of light to the higher angles in the room to balance the brightness of the surfaces and eliminate "cave effect" while creating the impression of a larger, brighter space without glare.
- Excellent color rendering with a CRI of 80.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source. Integral or external sensors are available for use.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster requirements can be accommodated by using an FMA22 "F" mounting frame (sold separately.)
- Continuous row mount option (CRM) includes wireway covers on each end and on one side of housing.



# 2EV EvoGrid recessed LED 2x2

with Power over ethernet (PoE), 2700 lumens

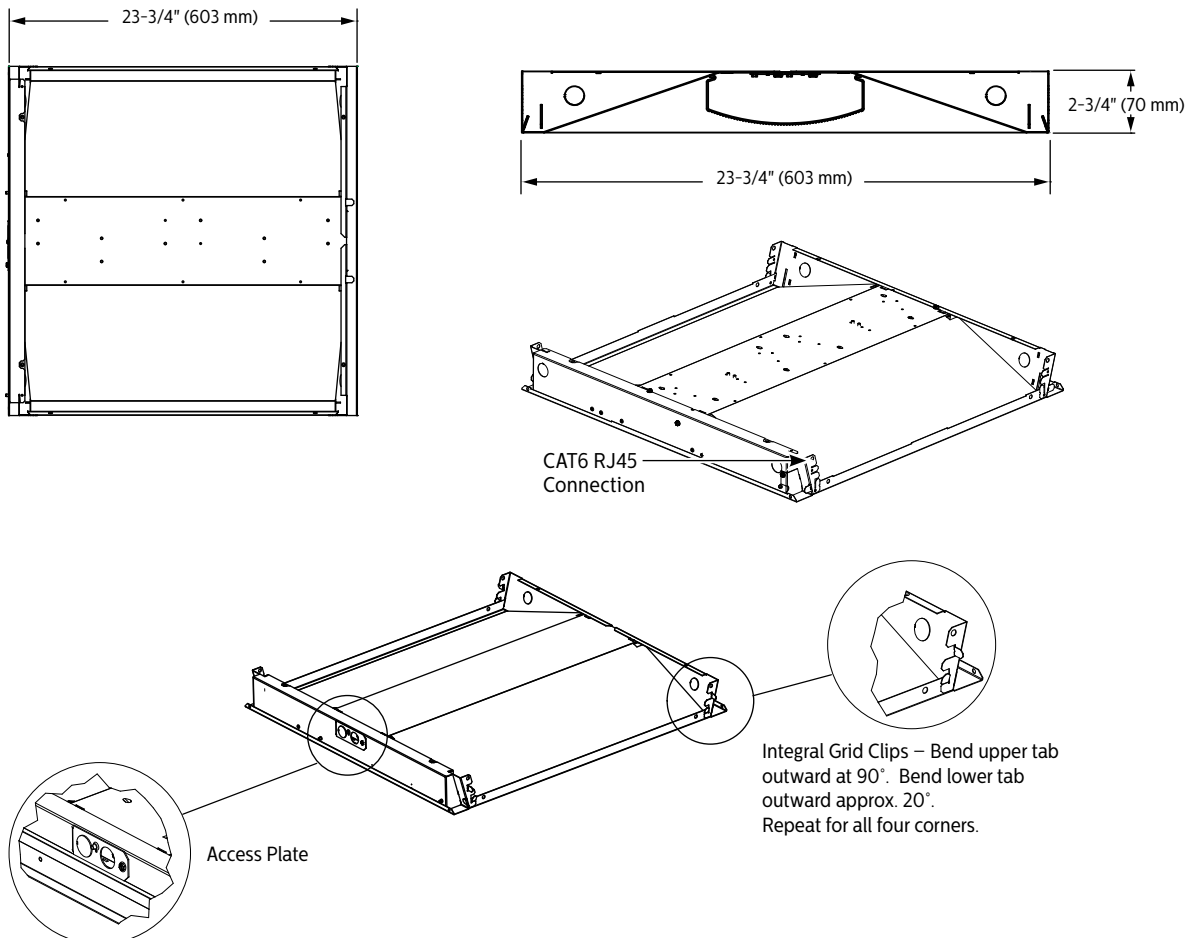
## Construction/Finish

- Uncomplicated design is 2-3/4" in depth and only requires a few parts outside of the electrical system and hardware, creating several benefits:
  - Less material required
  - Less packaging required
  - Reduced weight
  - Less energy required for construction and assembly
  - More luminaires can be shipped per truck to reduce fuel use and emissions
- Luminaire finish is matte white polyester for a high quality, durable finish.
- T-bar grid clips are integral to body.

## Electrical

- Integral sensor options for occupancy and daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Philips PoE lighting controller.
- Wire access cover provides RJ45 connection point for PoE network.
- Integral sensor options for occupancy and daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- LED board is easily accessible from below without tools. Single LED board is replaceable if needed via plug-in connectors to ensure long service life.
- PoE lighting controller is accessible from above.
- Five year limited luminaire warranty includes LED boards and PoE lighting controller. Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.
- cETLus listed to UL and CSA standards, suitable for damp locations.

## Dimensions



# 2EV EvoGrid recessed LED 2x2

with Power over ethernet (PoE), 2700 lumens

## Photometry

### 2x2 EvoGrid, 3500K, 2700 nominal delivered lumens

<b>Catalog No.</b>	2EVG27L835-2-D-LV-POE
<b>Test No.</b>	35941
<b>S/MH</b>	1.2
<b>Lamp Type</b>	LED
<b>Lumens</b>	2718
<b>Input Watts</b>	22

<b>Candela distribution</b>					
Vertical Angle	0°	45°	90°	-45°	
0	977	977	977	977	
5	967	974	979	974	
15	924	937	945	937	
25	833	851	866	851	
35	707	736	759	736	
45	562	603	636	603	
55	414	468	517	468	
65	273	344	400	344	
75	145	219	264	219	
85	39	61	72	61	

<b>Light Distribution</b>		
Degrees	Lumens	% Luminaire
0- 30	748.	27.5
0- 40	1207.	44.4
0- 60	2090.	76.9
0- 90	2719.	100.0
0- 180	2720.	100.0

<b>Average Luminance</b>				
Angle	End	45°	Cross	
45	8291.	8888.	9382.	
55	7524.	8509.	9400.	
65	6745.	8484.	9866.	
75	5845.	8822.	10623.	
85	4606.	7345.	8613.	

Comparative yearly lighting energy cost per 1000 lumens – **\$1.97** based on 3000 hrs. and \$.08 pwr KWH.

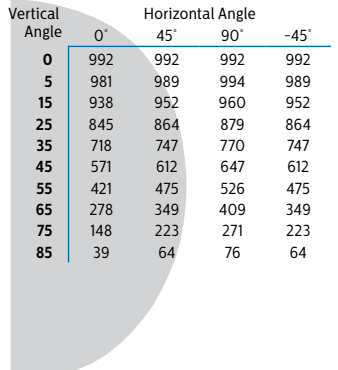
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

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

<b>Coefficients of Utilization</b>									
<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>									
Ceiling (pcc)	80%			70%			50%		
Wall (pw)	70	50	30	70	50	30	50	30	
RCR	Zonal cavity method - Effective floor reflectance = 20%								
Room Cavity Ratio	0	118	118	118	115	115	115	111	111
	1	108	103	98	106	101	96	96	93
	2	97	90	82	95	88	81	83	79
	3	89	79	69	86	77	68	73	67
	4	81	69	60	80	68	59	66	58
	5	75	61	53	72	60	53	58	51
	6	69	56	46	68	55	46	53	46
	7	65	51	41	63	50	41	48	40
	8	59	46	38	58	46	38	44	36
	9	56	42	34	55	41	34	40	34
10	53	39	30	51	39	30	38	30	

### 2x2 EvoGrid, 4000K, 2700 nominal delivered lumens

<b>Catalog No.</b>	2EVG27L840-2-D-LV-POE
<b>Test No.</b>	35942
<b>S/MH</b>	1.2
<b>Lamp Type</b>	LED
<b>Lumens</b>	2761
<b>Input Watts</b>	23

	Vertical Angle	Horizontal Angle			
	0°	45°	90°	-45°	
	0	992	992	992	992
	5	981	989	994	989
	15	938	952	960	952
	25	845	864	879	864
	35	718	747	770	747
	45	571	612	647	612
	55	421	475	526	475
	65	278	349	409	349
75	148	223	271	223	
85	39	64	76	64	

Light Distribution		
Degrees	Lumens	% Luminaire
0- 30	759.	27.5
0- 40	1226.	44.4
0- 60	2122.	76.8
0- 90	2762.	100.0
0- 180	2762.	100.0

Average Luminance			
Angle	End	45°	Cross
45	8421.	9027.	9540.
55	7651.	8625.	9567.
65	6851.	8600.	10078.
75	5950.	8963.	10913.
85	4689.	7668.	9092.

Comparative yearly lighting energy cost per 1000 lumens – **\$1.98** based on 3000 hrs. and \$.08 pwr KWH.

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

Coefficients of Utilization									
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	1	108	103	98	105	101	96	96	93
	2	97	90	82	95	88	81	83	79
	3	89	79	69	86	77	68	73	67
	4	81	69	60	80	68	59	66	58
	5	75	61	53	72	60	53	58	51
	6	69	56	46	68	55	46	53	46
	7	65	51	41	63	50	41	48	40
	8	59	46	38	58	46	38	44	36
	9	56	42	34	55	41	34	40	34
10	53	39	30	51	39	30	38	30	

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