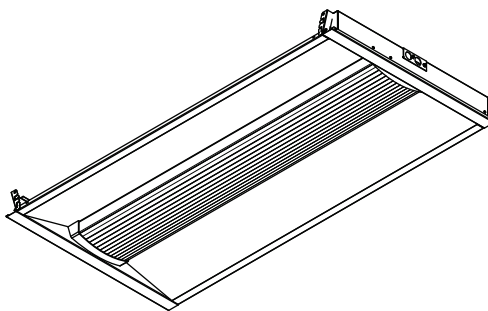


PHILIPS Day-Brite CFI

Recessed

EvoGrid
LED 2x4

3800, 4300, 4800,
5400, or 7400 lumens



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 boards and dimmable driver 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: 2EVG38L840-4-D-UNV-DIM

Width	Family	Ceiling Type	Air Function	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	EV	G				4	D			
2 2'	EV EvoGrid	G Grid	blank Static	Standard efficacy 38L 3800 nominal delivered lumens 43L 4300 nominal delivered lumens 48L 4800 nominal delivered lumens 54L 5400 nominal delivered lumens 74L 7400 nominal delivered lumens High efficacy 38LH 3800 nominal delivered lumens 43LH 4300 nominal delivered lumens 48LH 4800 nominal delivered lumens 54LH 5400 nominal delivered lumens 74LH 7400 nominal delivered lumens	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	D Diffuse (opal)	UNV Universal Voltage, 120-277 volt 120 120V 277 277V 347 347V	DIM 0-10V dimming Step dimming to 40% input power SDIM ² MarkX phase dimming XDIM ³ Lutron Hi-lume A 1% dimming L3D ⁴ Lutron EcoSystem 5% dimming LDE DALI	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/SW 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires. GLR Fusing, fast blow EMLED Integral emergency battery pack OCC ⁵ Integral sensor, occupancy DAY ⁶ Integral sensor, daylighting DAYOCC Integral sensor, daylighting and occupancy SWZG2 ^{1,7,8} SpaceWise automated wireless technology for integrated occupancy and daylight harvesting CHIC Chicago Plenum rated CRM Continuous row mount

Footnotes

- SWZG2 option not available until Q4 2015
- Consult factory for SDIM on 74L and 74LH packages.
- XDIM requires 120V or 277V specification.
- Specify with 38L or 43L lumen packages only. Consult factory for higher lumen packages.
- OCC option allows individual auto shutoff per luminaire and is not recommended for applications with multiple luminaires.
- DAY option requires manual light level calibration.
- SWZG2 option provides occupancy sensing suitable for rooms with multiple luminaires, along with daylight harvesting with auto-calibration. See page 2 for more information.
- Must order SWZ-REMOTE SpaceWise handheld remote with each system order.

Accessories (order separately)

- FMA24 – 2'x4' "F" mounting frame for NEMA "F" mounting
- EVD4L – EvoGrid 4' replacement lens
- LRM1743 – External sensor to increase occupancy coverage area of SpaceWise luminaire groups
- SWZ-REMOTE – SpaceWise handheld remote for grouping and configuration (at least one remote required for any SpaceWise installation)
- UID8451/10 – Wireless Dimmer Switch Selector
- UID8461/10 – Wireless Scene Selector

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x4	2EVG38L840	36.5	109.96
	2EVG43L840	40.6	107.81
	2EVG48L840	47.7	105.15
	2EVG54L840	54.8	102.05
	2EVG74L840	82.6	92.80
2x4 High Efficacy	2EVG38LH840	31.0	121.62
	2EVG43LH840	34.4	124.63
	2EVG48LH840	38.5	123.85
	2EVG54LH840	45.3	123.48
	2EVG74LH840	62.7	120.52



2EV EvoGrid recessed LED 2x4

3800, 4300, 4800, 5400, or 7400 lumens

Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalist 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.
- Multiple lumen packages over a wide range to provide significant application flexibility over light levels and/or luminaire spacing.
- 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 FMA24 "F" mounting frame (sold separately.)
- Continuous row mount option (CRM) includes wireway covers on each end and on one side of housing.
- cETLus listed to UL and CSA standards, suitable for damp locations.
- EvoGrid luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>)

Enclosure

- Opal diffuser provides soft, comfortable lighting while maintaining high efficiency.
- Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

SpaceWise Technology (SWZG2)

- Optional SpaceWise automated wireless technology provides integrated occupancy sensing and daylight harvesting for additional control and energy savings.
- Requiring no system re-wiring, SpaceWise technology is appropriate for retrofit or new design and is an ideal replacement system for typical office layouts.
- Occupancy sensors are integral to each luminaire, with embedded automatic dimming behaviors appropriate to multiple office applications. Applications modes are selected using the handheld remote control, including open plan office, private office, conference room, and corridor.
- Daylight sensors are integral to each luminaire, eliminating the need for daylight zoning. Daylight sensing is automatic and re-calibration occurs daily when luminaires turn on.
- Open plan office mode offers occupant friendly granular dimming for maximum energy savings with no compromise to light levels or visual quality. Luminaires in large rooms and open plan areas are grouped together up to a maximum of 50 using a handheld remote, and max light output can be tuned. Granular dimming then provides full light output for occupied workstations, and non-occupied workstations stay at a background level to ensure visual quality. Grouped luminaires will dim to off when no presence is detected in the group.
- SpaceWise remote control must be purchased separately. Other peripherals include code compliant, wireless, batteryless switches and external sensors.
- Visit philips.com/spacewise for more information about SpaceWise technology.

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 sensing and/or daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Total luminaire efficacy exceeding 120 LPW (lumens per Watt) with high efficiency packages.
- 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.
- LED driver is accessible from above.
- Step dim 100/40% and additional dimming options available.
- Five year limited luminaire warranty includes LED boards and driver (emergency driver and batteries have a three year warranty in models so equipped). Visit www.philips.com/warranties for complete warranty information.
- TM-21 predicted L70 lumen maintenance up to 80,000 hours for high efficacy and 50,000 hours for standard efficacy configurations.

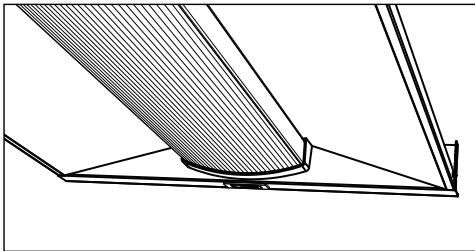
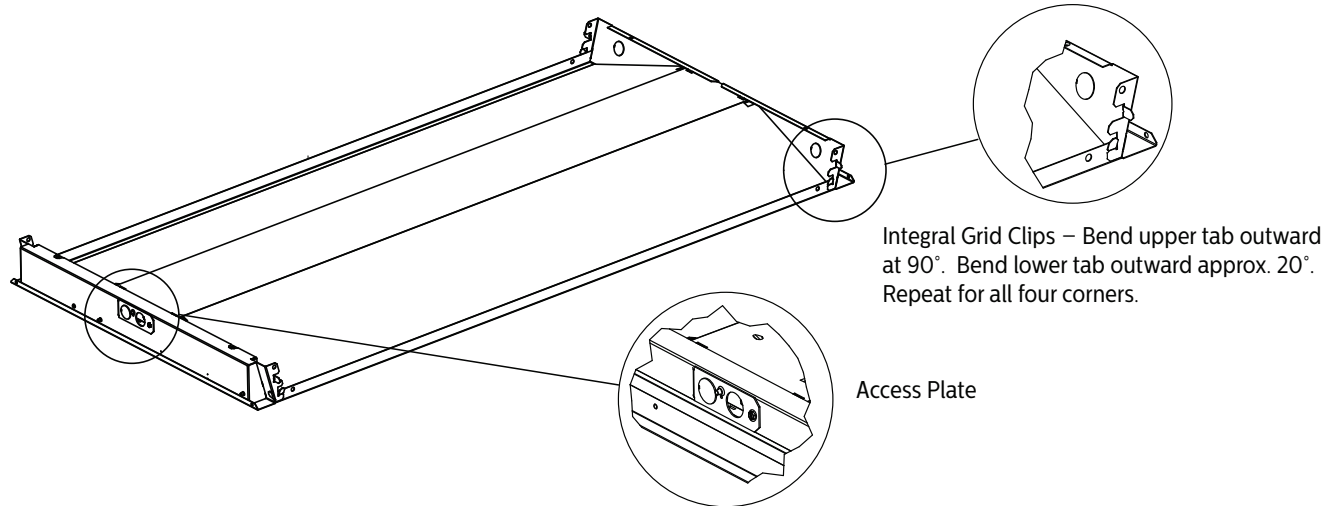
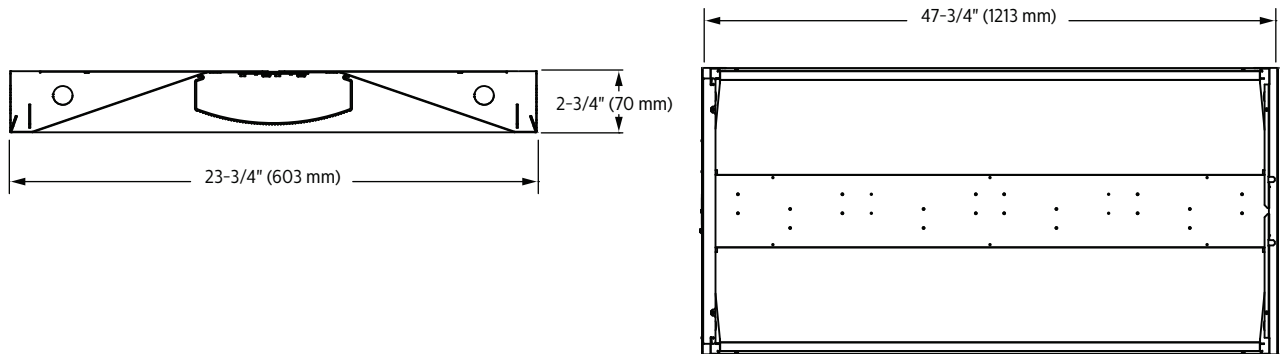
General Notes

- 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.

2EV EvoGrid recessed LED 2x4

3800, 4300, 4800, 5400, or 7400 lumens

Dimensions



SpaceWise (SWZG2) automated wireless technology is available for integrated occupancy and daylight harvesting. Individual options for dimming, occupancy detection, and daylight harvesting are also available if SpaceWise option is not selected.

2EV EvoGrid recessed LED 2x4

3800, 4300, 4800, 5400, or 7400 lumens

Photometry

2x4 EvoGrid recessed LED, high efficacy, 4800 nominal delivered lumens

LER – 124

Catalog No.		2EVG48LH840-4-D-UNV-DIM		Candlepower				Light Distribution			Average Luminance				
Test No.		34172		Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross	
S/MH		1.2		0	1758	1758	1758	0-30	1334	27.7	45	7429	7769	8028	
Lamp Type		LED		5	1743	1748	1754	0-40	2144	44.5	55	6749	7427	8105	
Lumens		4818		15	1659	1672	1680	0-60	3688	76.5	65	6049	7594	8653	
Input Watts		39		25	1495	1513	1523	0-90	4820	100.0	75	5390	8051	9269	
				35	1267	1297	1313	0-180	4820	100.0	85	4647	7219	7429	
				45	1008	1054	1089								
				55	743	817	892								
				65	490	616	702								
				75	268	400	460								
				85	78	121	124								
Comparative yearly lighting energy cost per 1000 lumens – \$1.94 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	70	50	30	50	30			
RCR															
0		118	118	118	115	115	115	111	111	111					
1		108	103	98	105	101	96	96	93	93					
2		97	90	82	94	88	81	83	79	79					
3		89	79	69	86	77	68	73	67	67					
4		81	69	60	80	68	59	66	57	57					
5		75	61	53	72	60	53	58	51	51					
6		69	56	46	68	55	46	53	46	46					
7		65	51	41	63	50	41	48	40	40					
8		59	46	38	58	46	38	44	36	36					
9		56	42	34	55	41	34	40	34	34					
10		53	39	32	51	39	30	38	30	30					

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 EvoGrid recessed LED, 4800 nominal delivered lumens

LER – 105

Catalog No.		2EVG48L840-4-D-UNV-DIM			
Test No.		34090			
S/MH		1.2			
Lamp Type		LED			
Lumens		5015			
Input Watts		48			
Comparative yearly lighting energy cost per 1000 lumens – \$1.29 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				
Angle	End	45	Cross	
0	1830	1830	1830	
5	1813	1820	1825	
15	1725	1739	1746	
25	1554	1571	1582	
35	1317	1347	1365	
45	1048	1096	1132	
55	771	851	930	
65	510	642	733	
75	279	417	485	
85	81	123	132	

Light Distribution				Average Luminance			
Degrees	Lumens	% Luminaire		Angle	End	45°	Cross
0-30	1387	27.6		45	7725	8080	8349
0-40	2228	44.4		55	7009	7732	8457
0-60	3836	76.4		65	6290	7919	9045
0-90	5019	100.0		75	5613	8389	9769
0-180	5020	100.0		85	4870	7342	7903

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	108	103	98	105	101	96	96	93
2	97	90	82	94	88	81	83	79
3	89	79	69	86	77	68	73	67
4	81	69	60	79	68	59	66	57
5	75	61	53	72	60	52	58	51
6	69	56	46	68	55	46	53	46
7	65	51	41	63	50	41	47	40
8	59	46	38	58	46	38	44	36
9	56	42	34	55	41	34	40	34
10	53	39	32	51	39	30	38	30

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

