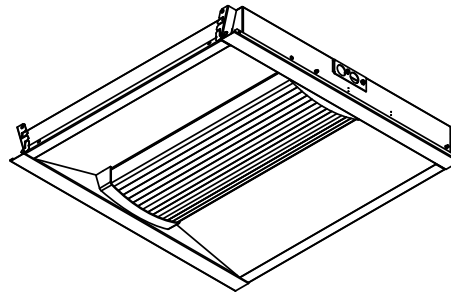


PHILIPS Day-Brite CFI

Recessed

EvoGrid
LED 2x2

3000, 3800, or 4500 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: 2EVG30L840-2-D-UNV-DIM

Width	Family	Ceiling Type	Air Function	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	EV	G				2	D			
2 2'	EV EvoGrid	G Grid	blank Static	30L 3000 nominal delivered lumens 38L 3800 nominal delivered lumens 45L 4500 nominal delivered lumens	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (opal)	UNV Universal Voltage, 120-277 volt 120 120V 277 277V 347 347V	DIM 0-10V dimming SDIM Step dimming to 40% input power XDIM ² MarkX phase dimming L3D ³ Lutron Hi-lume A 1% dimming LDE Lutron EcoSystem 5% dimming DALI 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. F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires. GLR Fusing, fast blow EMLED Integral emergency battery pack OCC ⁴ Integral sensor, occupancy DAY ⁵ Integral sensor, daylighting DAYOCC Integral sensor, daylighting and occupancy SWZG2 ^{1,6,7} 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
- XDIM requires 120V or 277V specification.
- Not available with 45L lumen package.
- 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.

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x2	2EVG30L840	30.2	102.19
	2EVG38L840	40.1	98.44
	2EVG45L840	47.1	97.32

Accessories (order separately)

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



2EV EvoGrid recessed LED 2x2

3000, 3800, or 4500 lumens

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.
- 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 as high as 102 LPW (lumens per Watt).
- 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.

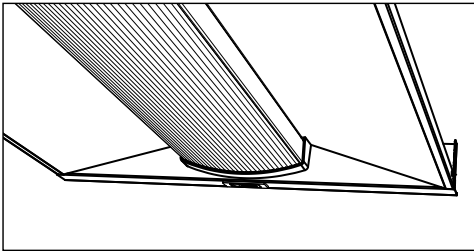
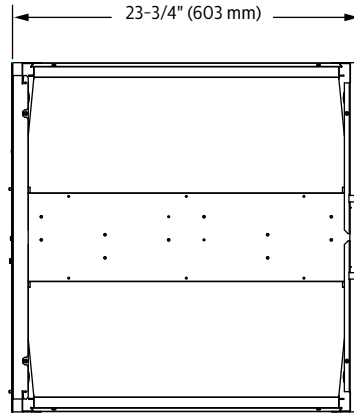
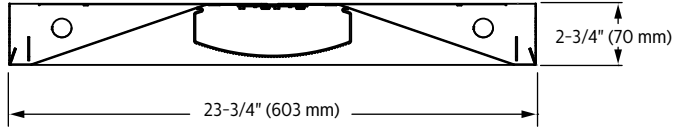
General Notes

- 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.

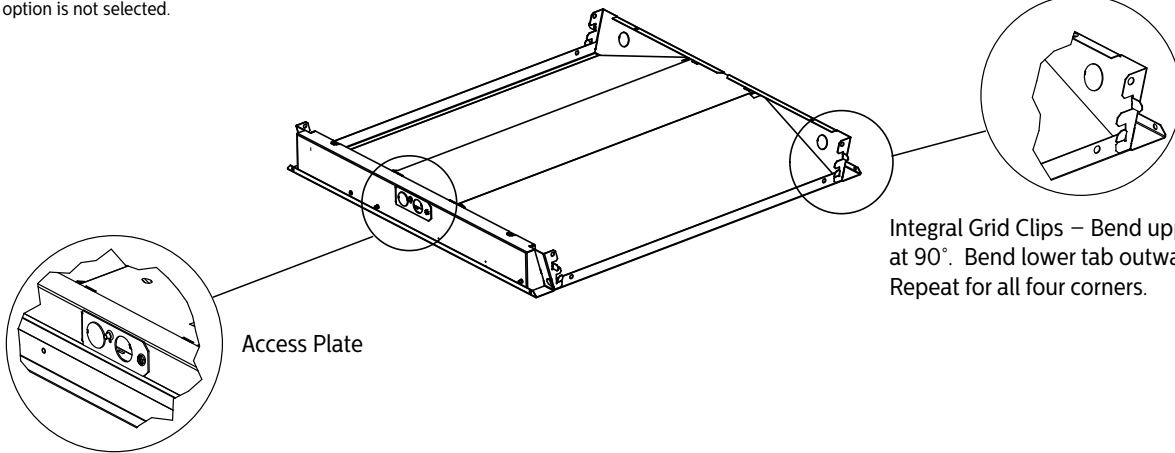
2EV EvoGrid recessed LED 2x2

3000, 3800, or 4500 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.



Integral Grid Clips – Bend upper tab outward at 90°. Bend lower tab outward approx. 20°. Repeat for all four corners.

2x2 EvoGrid recessed LED, 3000 nominal delivered lumens

LER – 102

Catalog No. 2EVG30L840-2-D-UNV-DIM Test No. 34084 S/MH 1.2 Lamp Type LED Lumens 3086 Input Watts 30 Comparative yearly lighting energy cost per 1000 lumens – \$2.35 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				Light Distribution			Average Luminance			
	Angle 0 5 15 25 35 45 55 65 75 85	End 1113 1103 1049 943 798 635 470 313 171 47	45 1113 1109 1060 960 825 675 528 397 255 75	Cross 1113 1109 1065 971 847 713 465 307 84	Degrees 0-30 0-40 0-60 0-90 0-180	Lumens 845 1361 2358 3087 3088	% Luminaire 27.4 44.1 76.4 100.0 100.0	Angle 45 55 65 75 85	End 10555 9633 8699 7774 6400	45° 11211 10807 11033 11576 10062	Cross 11839 12092 12927 13928 11387
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	81	94	88	81	83	79			
3	89	78	69	86	77	68	73	67			
4	81	68	59	79	68	59	66	57			
5	75	61	53	72	60	52	58	51			
6	68	56	46	67	55	46	53	45			
7	64	51	41	63	50	40	47	40			
8	59	46	38	57	46	36	44	36			
9	56	42	34	55	41	34	40	34			
10	53	39	30	51	39	30	38	30			

2EV EvoGrid recessed LED 2x2

3000, 3800, or 4500 lumens

Photometry

2x2 EvoGrid recessed LED, 3800 nominal delivered lumens

LER – 98

Catalog No. 2EVG38L840-2-D-UNV-DIM Test No. 34083 S/MH 1.2 Lamp Type LED Lumens 3947 Input Watts 40 Comparative yearly lighting energy cost per 1000 lumens – \$2.45 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				Light Distribution			Average Luminance																																																																																
	<table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>0</td><td>1431</td><td>1431</td><td>1431</td></tr> <tr><td>5</td><td>1418</td><td>1425</td><td>1426</td></tr> <tr><td>15</td><td>1349</td><td>1362</td><td>1369</td></tr> <tr><td>25</td><td>1212</td><td>1233</td><td>1249</td></tr> <tr><td>35</td><td>1026</td><td>1057</td><td>1090</td></tr> <tr><td>45</td><td>817</td><td>863</td><td>918</td></tr> <tr><td>55</td><td>606</td><td>671</td><td>760</td></tr> <tr><td>65</td><td>403</td><td>500</td><td>599</td></tr> <tr><td>75</td><td>221</td><td>322</td><td>394</td></tr> <tr><td>85</td><td>61</td><td>94</td><td>110</td></tr> </tbody> </table>	Angle	End	45	Cross	0	1431	1431	1431	5	1418	1425	1426	15	1349	1362	1369	25	1212	1233	1249	35	1026	1057	1090	45	817	863	918	55	606	671	760	65	403	500	599	75	221	322	394	85	61	94	110	<table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1086</td><td>27.5</td></tr> <tr><td>0-40</td><td>1747</td><td>44.3</td></tr> <tr><td>0-60</td><td>3023</td><td>76.6</td></tr> <tr><td>0-90</td><td>3947</td><td>100.0</td></tr> <tr><td>0-180</td><td>3948</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1086	27.5	0-40	1747	44.3	0-60	3023	76.6	0-90	3947	100.0	0-180	3948	100.0	<table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>13575</td><td>14333</td><td>15241</td></tr> <tr><td>55</td><td>12406</td><td>13741</td><td>15573</td></tr> <tr><td>65</td><td>11199</td><td>13885</td><td>16645</td></tr> <tr><td>75</td><td>10023</td><td>14616</td><td>17892</td></tr> <tr><td>85</td><td>8215</td><td>12686</td><td>14768</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	13575	14333	15241	55	12406	13741	15573	65	11199	13885	16645	75	10023	14616	17892	85	8215	12686
Angle	End	45	Cross																																																																																					
0	1431	1431	1431																																																																																					
5	1418	1425	1426																																																																																					
15	1349	1362	1369																																																																																					
25	1212	1233	1249																																																																																					
35	1026	1057	1090																																																																																					
45	817	863	918																																																																																					
55	606	671	760																																																																																					
65	403	500	599																																																																																					
75	221	322	394																																																																																					
85	61	94	110																																																																																					
Degrees	Lumens	% Luminaire																																																																																						
0-30	1086	27.5																																																																																						
0-40	1747	44.3																																																																																						
0-60	3023	76.6																																																																																						
0-90	3947	100.0																																																																																						
0-180	3948	100.0																																																																																						
Angle	End	45°	Cross																																																																																					
45	13575	14333	15241																																																																																					
55	12406	13741	15573																																																																																					
65	11199	13885	16645																																																																																					
75	10023	14616	17892																																																																																					
85	8215	12686	14768																																																																																					
Coefficients of Utilization					EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																																																																																			
					pcc				50																																																																															
					pw				70 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	30	51	39	30	38	30																																																																											

2x2 EvoGrid recessed LED, 4500 nominal delivered lumens

LER – 97

Catalog No. 2EVG45L840-2-D-UNV-DIM Test No. 34082 S/MH 1.2 Lamp Type LED Lumens 4583 Input Watts 47 Comparative yearly lighting energy cost per 1000 lumens – \$2.47 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				Light Distribution			Average Luminance																																																																																
	<table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>0</td><td>1657</td><td>1657</td><td>1657</td></tr> <tr><td>5</td><td>1640</td><td>1645</td><td>1645</td></tr> <tr><td>15</td><td>1565</td><td>1573</td><td>1573</td></tr> <tr><td>25</td><td>1402</td><td>1415</td><td>1420</td></tr> <tr><td>35</td><td>1184</td><td>1209</td><td>1231</td></tr> <tr><td>45</td><td>947</td><td>993</td><td>1039</td></tr> <tr><td>55</td><td>706</td><td>776</td><td>863</td></tr> <tr><td>65</td><td>470</td><td>578</td><td>666</td></tr> <tr><td>75</td><td>256</td><td>362</td><td>410</td></tr> <tr><td>85</td><td>70</td><td>89</td><td>66</td></tr> </tbody> </table>	Angle	End	45	Cross	0	1657	1657	1657	5	1640	1645	1645	15	1565	1573	1573	25	1402	1415	1420	35	1184	1209	1231	45	947	993	1039	55	706	776	863	65	470	578	666	75	256	362	410	85	70	89	66	<table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1258</td><td>27.4</td></tr> <tr><td>0-40</td><td>2025</td><td>44.2</td></tr> <tr><td>0-60</td><td>3506</td><td>76.5</td></tr> <tr><td>0-90</td><td>4584</td><td>100.0</td></tr> <tr><td>0-180</td><td>4585</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1258	27.4	0-40	2025	44.2	0-60	3506	76.5	0-90	4584	100.0	0-180	4585	100.0	<table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>15739</td><td>16488</td><td>17260</td></tr> <tr><td>55</td><td>14455</td><td>15895</td><td>17676</td></tr> <tr><td>65</td><td>13062</td><td>16072</td><td>18520</td></tr> <tr><td>75</td><td>11609</td><td>16433</td><td>18615</td></tr> <tr><td>85</td><td>9446</td><td>11970</td><td>8958</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	15739	16488	17260	55	14455	15895	17676	65	13062	16072	18520	75	11609	16433	18615	85	9446	11970
Angle	End	45	Cross																																																																																					
0	1657	1657	1657																																																																																					
5	1640	1645	1645																																																																																					
15	1565	1573	1573																																																																																					
25	1402	1415	1420																																																																																					
35	1184	1209	1231																																																																																					
45	947	993	1039																																																																																					
55	706	776	863																																																																																					
65	470	578	666																																																																																					
75	256	362	410																																																																																					
85	70	89	66																																																																																					
Degrees	Lumens	% Luminaire																																																																																						
0-30	1258	27.4																																																																																						
0-40	2025	44.2																																																																																						
0-60	3506	76.5																																																																																						
0-90	4584	100.0																																																																																						
0-180	4585	100.0																																																																																						
Angle	End	45°	Cross																																																																																					
45	15739	16488	17260																																																																																					
55	14455	15895	17676																																																																																					
65	13062	16072	18520																																																																																					
75	11609	16433	18615																																																																																					
85	9446	11970	8958																																																																																					
Coefficients of Utilization					EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																																																																																			
					pcc				50																																																																															
					pw				70 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	68	56	46	68	55	46	53	46																																																																											
					7	64	51	41	63	50	41	47	40																																																																											
					8	59	46	38	57	46	36	44	36																																																																											
					9	56	42	34	55	41	34	40	34																																																																											
					10	53	39	30	51	39	30	38	30																																																																											

© 2015 Koninklijke Philips N.V. All rights reserved.
 Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.
philips.com/luminaires



Philips Lighting North America Corporation
 200 Franklin Square Drive, Somerset, NJ 08873
 Tel. 855-486-2216

Philips Lighting Canada Ltd.
 281 Hillmount Rd, Markham, ON, Canada L6C 2S3
 Tel. 800-668-9008