PHILIPS

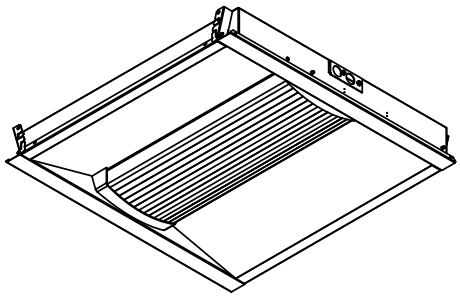
Day-Brite

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 **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	**2** 2'	**D** Diffuse (opal)	**UNV** Universal Voltage, 120-277 volt **120**[2] 120V **277**[2] 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, 1100lm nominal (ballast enclosure on top of luminaire) **OCC**[4,8] Integral sensor, occupancy **DAY**[5,8] Integral sensor, daylighting **DAYOCC**[8] Integral sensor, daylighting and occupancy **SWZG2**[6,7] SpaceWise automated wireless technology for integrated occupancy and daylight harvesting **CHIC** Chicago Plenum rated **CRM**[1] Continuous row mount

Footnotes

1 CRM includes side cover with top access plate and additional end cover, 7/8" gap between fixtures.
2 XDIM requires 120V or 277V specification.
3 Not available with 45L lumen package.
4 OCC option allows individual auto shutoff per luminaire and is not recommended for applications with multiple luminaires.
5 DAY option requires manual light level calibration.
6 SWZG2 option provides occupancy sensing suitable for rooms with multiple luminaires, along with daylight harvesting with auto-calibration. See page 2 for more information.
7 Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
8 Specify only with -DIM driver option

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x2	2EVG30L840	25.2	119
	2EVG38L840	33.3	115.6
	2EVG45L840	39.3	114.1

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

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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.

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 119 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.
- 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.

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.

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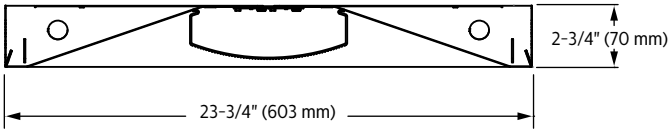
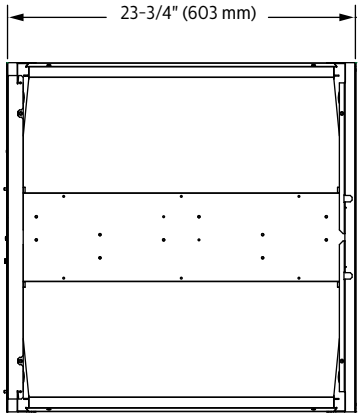
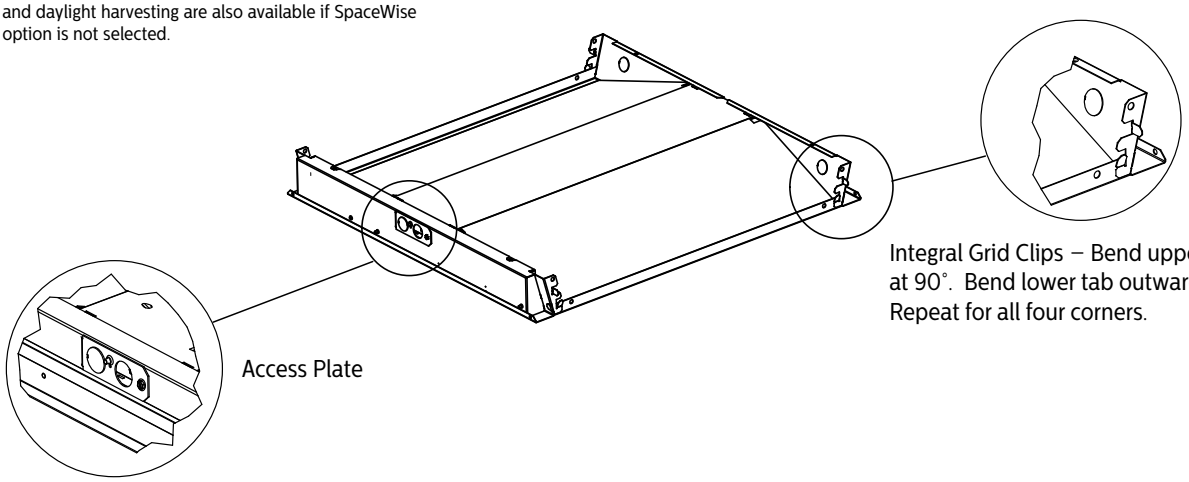
Dimensions





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 – 119

Catalog No.	2EVG30L840-2-D-UNV-DIM
Test No.	34894
S/MH	1.2
Lamp Type	LED
Lumens	3000
Input Watts	25

Comparative yearly lighting energy cost per 1000 lumens – **$2.02** 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	Back-45
0	1083	1083	1083	1083
5	1071	1079	1084	1079
15	1023	1038	1045	1038
25	919	941	956	941
35	779	812	834	812
45	620	663	698	663
55	457	515	567	515
65	302	379	441	379
75	161	243	293	243
85	44	70	81	70

Light Distribution

Degrees	Lumens	% Luminaire
0-30	827	27.6
0-40	1333	44.4
0-60	2305	76.8
0-90	3001	100.0
0-180	3001	100.0

Average Luminance

Zone	End	45˚	Cross
45	9134	9774	10289
55	8298	9367	10299
65	7445	9360	10870
75	6502	9797	11783
85	5216	8338	9654

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	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	32	51	39	30	38	30

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Photometry

2x2 EvoGrid recessed LED, 3800 nominal delivered lumens — LER – 116

Catalog No.	2EVG38L840-2-D-UNV-DIM
Test No.	34893
S/MH	1.2
Lamp Type	LED
Lumens	3852
Input Watts	33

Comparative yearly lighting energy cost per 1000 lumens – **$2.07** 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	Back-45
0	1399	1399	1399	1399
5	1384	1394	1401	1394
15	1322	1340	1351	1340
25	1189	1214	1235	1214
35	1007	1045	1079	1045
45	801	852	902	852
55	590	659	733	659
65	390	479	569	479
75	209	304	378	304
85	56	87	105	87

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1068	27.7
0-40	1720	44.7
0-60	2969	77.1
0-90	3851	100.0
0-180	3851	100.0

Average Luminance

Zone	End	45°	Cross
45	11739	12497	13224
55	10665	11910	13241
65	9568	11758	13957
75	8372	12186	15122
85	6709	10326	12431

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	106	101	96	96	93
2	97	90	82	95	88	81	83	79
3	90	79	69	86	77	68	73	68
4	81	69	60	80	68	59	66	58
5	75	61	53	72	60	53	58	52
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	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

2x2 EvoGrid recessed LED, 4500 nominal delivered lumens — LER – 114

Catalog No.	2EVG45L840-2-D-UNV-DIM
Test No.	34897
S/MH	1.2
Lamp Type	LED
Lumens	4485
Input Watts	39

Comparative yearly lighting energy cost per 1 000 lumens – **$2.11** 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	Back-45
0	1622	1622	1622	1622
5	1605	1616	1626	1616
15	1533	1554	1568	1554
25	1378	1408	1434	1408
35	1168	1214	1252	1214
45	929	991	1048	991
55	685	769	852	769
65	453	564	662	564
75	243	359	439	359
85	67	101	123	101

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1239	27.6
0-40	1998	44.5
0-60	3452	76.9
0-90	4487	100.0
0-180	4487	100.0

Average Luminance

Zone	End	45°	Cross
45	13704	14615	15457
55	12457	13980	15478
65	11173	13912	16322
75	9781	14442	17668
85	8015	12046	14738

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	106	101	96	96	93
2	97	90	82	95	88	81	83	79
3	90	79	69	86	77	68	73	67
4	81	69	60	80	68	59	66	58
5	75	61	53	72	60	53	58	52
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	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	51	39	30	38	30

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