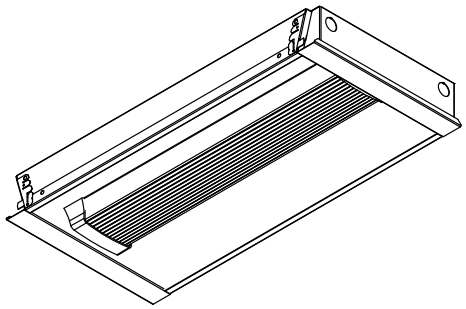
Day-Brite CFI by Signify

Recessed

EvoGrid LED 1x2

2000 or 3000 lumens



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI EvoGrid LED recessed 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: 1EVG20L840-2-D-UNV-DIM

Width	Family	Ceiling Type	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
1 –	EV	G		–	2 –	D –	–	–	
1 1'	**EV** EvoGrid	**G** Grid	**20L** 2000 nominal delivered lumens **30L** 3000 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	**DIM** 0-10V dimming	**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**[1] Integral emergency battery pack, 1100 lm nominal **CHIC** Chicago Plenum rated **CRM**[2] Continuous row mount **DSC** Quick driver disconnect

Footnotes

1 EMLED option overall luminaire height is 4-1/8"
2 CRM includes additional end cover. 7/8" gap between fixtures.

Accessories (order separately)

- **EVD12L** – EvoGrid 1'x2' replacement lens

1EVG EvoGrid LED recessed 1x2

2000 or 3000 lumens

Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalistic strategy to achieve sustainable objectives.
- Low profile standard configuration is only 2-7/8" deep requiring minimal plenum space. Integral emergency (EMLED) configuration is 4-1/8" deep.
- 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.
- Continuous row mount option (CRM) includes wireway covers on each end.

Construction/Finish

- Uncomplicated design is 2-7/8" (standard configuration) 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 106 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.
- 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.

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.

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.

1EVG EvoGrid LED recessed 1x2

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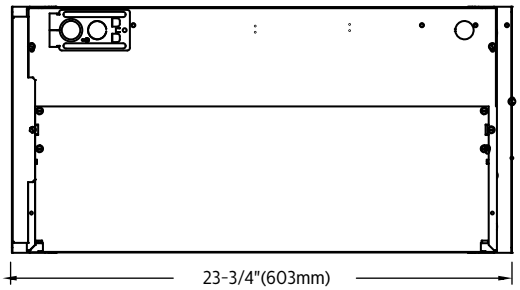
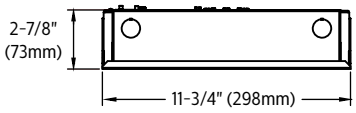
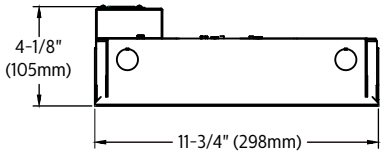
Dimensions

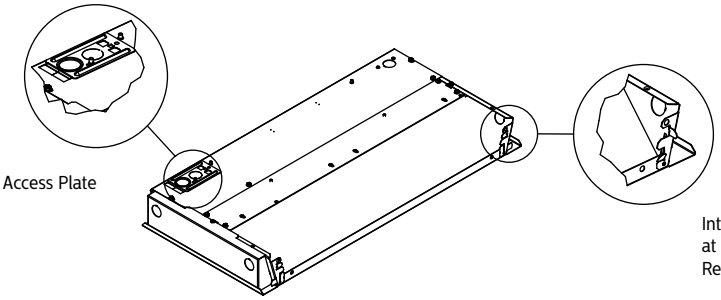




Standard Configuration



EMLED configuration



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

Photometry

1x2 EvoGrid LED recessed, 3000 nominal delivered lumens **LER – 106**

Catalog No.	1EVG30L835-2-D-UNV
Test No.	36589
S/MH	1.2
Lamp Type	LED
Lumens	3012
Input Watts	29

Comparative yearly lighting energy cost per 1000 lumens – **$2.26** based on 3000 hrs. and $.08 pwr KWH.
The photometric results were obtained in the 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	1125	1125	1125
5	1111	1122	1126
15	1059	1077	1083
25	956	981	993
35	820	855	877
45	668	716	753
55	474	561	609
65	315	379	380
75	165	186	158
85	44	21	14

Light Distribution

Degrees	Lumens	% Luminaire
0-30	860	28.5
0-40	1393	46.2
0-60	2430	80.6
0-90	3012	100.0
0-180	3013	100.0

Average Luminance

Angle	End	45°	Cross
45	20143	21597	22713
55	17613	20856	22656
65	15884	19150	19175
75	13599	15355	13022
85	10843	5042	3402

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	109	105	100	106	102	97	97	94
2	98	91	84	96	89	82	85	81
3	91	80	71	88	79	70	76	68
4	82	70	63	81	69	61	67	59
5	76	64	55	73	63	54	59	53
6	70	56	48	68	56	47	55	46
7	66	52	42	64	51	42	50	41
8	60	47	39	58	46	39	46	38
9	56	44	35	56	42	34	41	34
10	53	40	32	52	40	32	39	32

Signify

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