

Day-Brite

CFI

by Signify

Recessed

DuaLED 2x2

2DLG up to 4400 lumens



Day-Brite / CFI DuaLED recessed is a highly efficient, visually comfortable, architecturally styled recessed LED luminaire, designed with a minimalistic strategy to achieve sustainable objectives. Its clean, modern design offers a fresh variation on the popular dual chamber theme and provides architectural styling compatible with virtually any area. SpaceWise Technology for selected applications is optional for additional energy savings and control.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide - standard & wireless controls

Standard configurations available with all choices, unless otherwise noted. Base configurations selections indicated by blue.

example: 2DLG27L840-2-D-UNV-DIM

Width	Family	Ceiling Type	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options
2	DL	G		-	2	D	-	-	
2 2'	DL DuaLED	G Grid	Standard configurations 27L 2700 30L ¹ 3000 34L 3400 ns 38L 3800 44L 4400 Base configuration 40B 4000	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (opal)	UNV Universal voltage 120-277V 347 347V 24VDC ¹ 24V DC (EMerge Registered)	DIM ^{2,7} Dimming LDE ³ Lutron LDE5, 5% dimming DALI DALI dimming SDIM Step dimming to 40% input power	AG Antimicrobial paint F1 ⁴ 3/8" Flex, 3 Wire 18 gauge 6' F2 ⁴ 3/8" Flex, 4 Wire 18 gauge 6' F1/D ⁴ 3/8" Twin Flex, 3 Wire 18 gauge 6' for dimmable luminaires F2/SW ⁴ 3/8" Single Flex, 5 Wire 18 gauge 6' for dimmable luminaires GLR ¹ Fusing, Fast Blow GTD/E ⁹ UL924 listed Bodine GTD factory installed on driver input GTD/SNSR ^{9,10} UL924 listed Bodine GTD factory installed between driver and sensor EMLED ⁴ Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) EMLED7 ^{4,8} Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) DSC Quick driver disconnect SWZG2 ^{6,7} Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning IAO ⁵ Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control SWZDT ⁵ Integral sensor, daylighting and occupancy, advanced grouping with dwell time CHIC Chicago Plenum rated

Footnotes

- 24VDC only available in 30L lumen package. Do not specify a driver option.
- Integral controls options dimmable to 5% via wireless wall switch. See p. 3.
- LDE option available only on 27L, 34L, 38L, and 44L lumen packages.
- Not available in 24VDC.
- Specify only with -DIM driver option.
- Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
- Non-controls and SWZG2 configurations are 0-10V dimmable to 1% for Standard configurations. Base configurations are 0-10V dimmable to 5%.
- Available only with Base configurations.
- Must be ordered with an integral controls option. Not available with SWZG2 controls option.
- Must be installed in conjunction with a UL1008 device.

SpaceWise (SWZG2) accessories (order separately)

- 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

Other accessories (order separately)

- FMA22 – 2'x2' "F" mounting frame for NEMA "F" mounting
- FSK22 – 2'x2' surface mount field installation kit (welded seams, not available with emergency options)
- FSF22 – 2'x2' surface mount field assembly kit (field assembled, not available with emergency options)



2DLG DuaLED recessed 2x2

up to 4400 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 2-11/16" high and is compatible with virtually any plenum.
- Clean, modern design offers a fresh variation on the popular dual chamber theme and provides architectural styling compatible with virtually any area.
- Soft opal diffusers with large luminous area minimize apparent brightness and provide 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 provide significant application flexibility over light levels and/or luminaire spacing.
- A high lumen package can be used in conjunction with wide luminaire spacing to reduce luminaire quantities and overall cost while maintaining good uniformity.
- High efficiency source and luminaire design create significant energy savings over conventional solutions. Recommended light levels can frequently be achieved with lighting power densities of 0.5 to 0.85 Watts per square foot, complying with any known energy code.
- 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.)

- Listed for use in non-insulated ceilings (Type Non-IC).
- Some DuaLED luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL.
- EMLLED and 24VDC are NOT DLC qualified.

Construction/Finish

- Uncomplicated design is well under 3" 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 is painted after fabrication with a matte white polyester powder coating for a high quality, durable finish with no unfinished edges to create an installation hazard or potential for corrosion.
- T-bar grid clips are included for easy installation.

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 118 LPW (lumens per Watt) significantly reduces energy usage compared to conventional 2x2 sources.
- Driver and LED boards are easily accessible from below without tools. Multiple LED boards are individually replaceable if needed via plug-in connectors to ensure long service life.
- 0-10v dimming to 1% for Standard configurations, and 5% for Base configurations.
- Emergency options are available to add even more application flexibility. Emergency models require a top mounted driver enclosure or a metal can emergency driver mounted to the housing/top enclosure that increases luminaire depth.

- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.
- Predicted L70 lumen maintenance up to 70,000 hours for Standard configurations and 50,000 hours for Base configurations.
- To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1300lm for EMLLED and 850lm for EMLLED7.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.
- cETLus listed to UL and CSA standards. Standard DuaLED suitable for damp locations.

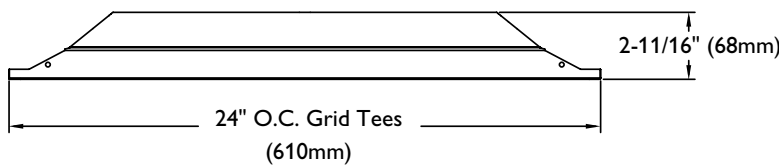
Enclosure

- Dual chamber configuration utilizes two diffusers with large surface area for brightness control.
- Opal diffusers provide soft, comfortable lighting while maintaining high efficiency.
- Diffusers require no frames or fasteners and can be easily removed from below without tools if needed.

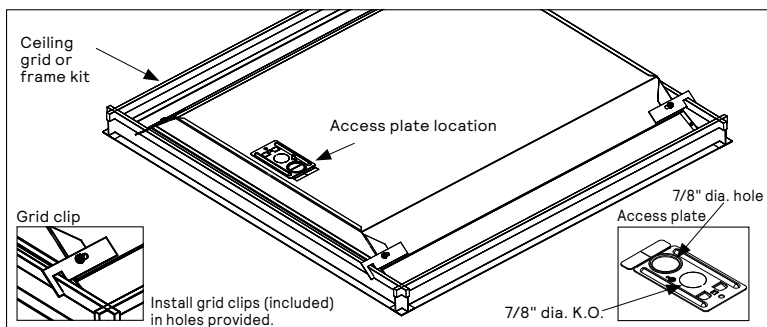
General Notes

- 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.

Dimensions



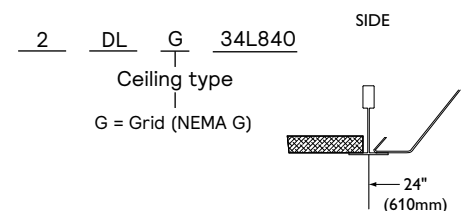
* EMLLED and EMLLED7 are 1-3/4" (45mm) deeper



Energy Data

Luminaire	Catalog Number	Input Power	Efficacy
2x2 Standard	2DLG27L840	22	118
	2DLG34L840	29	117
	2DLG38L840	33	117
	2DLG44L840	39	114
2x2 Base	2DLG40B840	34	120

Ceiling Configuration



(NEMA Type G)
Lay-in acoustical ceilings using exposed gridsuspension, with tees for luminaires on 24" x 24" spacing.

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Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping and dwell time
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/apregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -

SWZDT - www.usa.lighting.philips.com/systems/lighting-systems/spacewise

SpaceWise (SWZG2)

- Commissioning via SWZ-REMOTE handheld remote, must order a minimum of one per installation
- Integral sensing options may not be combined
- 0-10V dimmable to 1%
- For more information on the sensor, please refer to www.lightingproducts.signify.com/documents/webdb2/DayBrite/pdf/SWZG2_sensor.pdf
- Visit www.usa.lighting.philips.com/systems/lighting-systems/spacewise for more information about SpaceWise Technology (SWZG2)

Interact Office (IAO)

- A wireless IoT connected lighting solution for **large enterprises** that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

DuaLED shown with integral sensor



SWZDT sensor shown

2DLG DualLED recessed 2x2

up to 4400 lumens

Photometry

2x2 DualLED, 4000 nominal delivered lumens

LER - 118

Catalog No. 2DLG40B840-2-D-UNV Test No. 37668 S/MH 1.2 Lamp Type LED Lumens/Lamp 4010 Input Watts 34 Comparative yearly lighting energy cost per 1000 lumens – \$2.03 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.	Candela distribution					Light Distribution			Average Luminance			
	Vertical Angle	Horizontal Angle				Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
		0°	45°	90°	-45°	0-30	1092	27.2	45	4692	4777	4872
	0	1413	1413	1413	1413	0-40	1784	44.5	55	4493	4634	4732
	5	1407	1405	1407	1405	0-60	3154	78.7	65	4216	4400	4461
	15	1352	1352	1357	1352	0-90	4009	100.0	75	3606	3673	3704
	25	1249	1250	1258	1250				85	3079	2967	3067
	35	1095	1104	1119	1104							
	45	914	930	949	930							
	55	710	732	747	732							
65	491	512	519	512								
75	257	262	264	262								
85	74	71	74	71								

2x2 DualLED, 3400 nominal delivered lumens

LER - 117

Catalog No. 2DLG34L840-2-D-UNV-DIM Test No. 35427 S/MH 1.3 Lamp Type LED Lumens/Lamp 3450 Input Watts 29.3 Comparative yearly lighting energy cost per 1000 lumens – \$2.03 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.	Candela distribution					Light Distribution			Average Luminance			
	Vertical Angle	Horizontal Angle				Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
		0°	45°	90°	-45°	0-30	925	26.8	45	4024	4101	4177
	0	1186	1186	1186	1186	0-40	1516	43.9	55	3856	3977	4058
	5	1182	1181	1182	1181	0-60	2692	78.0	65	3620	3774	3802
	15	1145	1143	1147	1143	0-90	3451	100.0	75	3309	3344	3337
	25	1058	1062	1069	1062				85	2842	2621	2725
	35	935	945	958	945							
	45	784	799	813	799							
	55	609	628	641	628							
65	421	439	442	439								
75	236	238	238	238								
85	68	63	65	63								

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2x2 DuaLED, 3800 nominal delivered lumens

LER – 117

Catalog No. 2DLG38L840-2-D-UNV-DIM Test No. 35428 S/MH 1.3 Lamp Type LED Lumens/Lamp 3849 Input Watts 32.9 Comparative yearly lighting energy cost per 1000 lumens – \$2.05 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.	Candela distribution Vertical Angle Horizontal Angle 0° 45° 90° -45° 0 1323 1323 1323 1323 5 1319 1317 1319 1317 15 1277 1276 1279 1276 25 1181 1185 1192 1185 35 1044 1054 1068 1054 45 875 891 907 891 55 680 700 716 700 65 470 490 495 490 75 264 266 267 266 85 76 71 73 71	Light Distribution Degrees Lumens % Luminaire 0-30 1032 26.8 0-40 1692 43.9 0-60 3003 78.0 0-90 3850 100	Average Luminance Angle End 45° Cross 45 4492 4574 4659 55 4302 4431 4532 65 4040 4206 4250 75 3699 3734 3742 85 3171 2958 3054
	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) 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 1 108 104 98 106 101 96 96 93 2 97 90 82 95 88 81 84 79 3 90 79 70 86 77 69 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 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 33 10 53 39 30 51 39 30 38 30		

2x2 DuaLED, 4400 nominal delivered lumens

LER – 114

Catalog No. 2DLG44L840-2-D-UNV-DIM Test No. 35429 S/MH 1.3 Lamp Type LED Lumens/Lamp 4670 Input Watts 40.9 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 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.	Candela distribution Vertical Angle Horizontal Angle 0° 45° 90° -45° 0 1603 1603 1603 1603 5 1598 1598 1600 1598 15 1548 1548 1553 1548 25 1430 1438 1447 1438 35 1264 1278 1296 1278 45 1059 1081 1101 1081 55 824 850 870 850 65 571 596 601 596 75 319 325 324 325 85 93 87 90 87	Light Distribution Degrees Lumens % Luminaire 0-30 1252 26.8 0-40 2052 44.0 0-60 3641 78.0 0-90 4668 100.0	Average Luminance Angle End 45° Cross 45 5436 5546 5651 55 5212 5377 5500 65 4901 5113 5161 75 4475 4553 4535 85 3880 3618 3730
	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) 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 0 119 119 119 116 116 116 111 111 1 108 104 99 106 101 97 97 94 2 98 90 83 96 88 82 85 79 3 90 79 71 87 77 70 74 68 4 82 70 61 80 69 60 66 59 5 75 62 53 73 61 53 59 52 6 70 56 47 68 55 47 53 46 7 64 51 42 63 50 42 48 41 8 60 46 38 58 46 37 44 37 9 56 43 34 55 42 34 41 33 10 53 39 31 51 39 31 38 31		

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