Day-Brite CFI by (s) ignify

Recessed

DuaLED 2x4

2DLG up to 7300 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:	
Туре:	
Lamps:	Qty:
Notes:	

Ordering guide - standard & wireless controls

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

Width	Family	Ceiling Type	Lumens (nominal delivered)	Colo	r	Length	Center Diffuser	Voltage		Drive	r	Options
2	DL	G			_	4 -	D -		-		_	
2 2'	DL DuaLED	G Grid	Standard configurations 43L 4300 49L 4900 58L 5800 73L 7300	830 835 840 850	80 CRI, 3000K 80 CRI, 3500K 80 CRI, 4000K 80 CRI, 5000K	4 4'	D Diffuse (opal)	UNV 347	Universal voltage 120-277V 347V	DIM ^{2,6} LDE ³ DALI SDIM ¹	Dimming Lutron LDE5, 5% dimming DALI dimming Step dimming to 40% input power	AG F1 F2 F1/D F2/5W GLR GTD/E ⁸ GTD/SNSR ^{2,9} EMLED
												EMLED7 ⁷

Footnotes

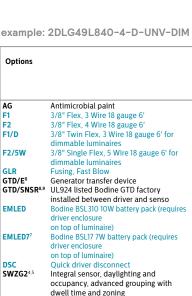
- 1 58L and 73L not available with the SWZG2 and SDIM options.
- 2 Integral controls options dimmable to 5% via wireless wall switch. See p. 3.
- 3 Available only with 43L lumen package or lower.
- 4 Specify only with -DIM driver option
- 5 Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
- 6 Non-controls and SWZG2 configurations are 0-10V dimmable to 1% for Standard configurations. Base configurations are 0-10V dimmable to 5%.
- **7** Available only with Base configurations.
- 8 Must be installed in conjunction with a UL1008 device.
- 9 Must be ordered with an controls option. Not available with SWZG2 controls option.

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)

- FMA24 2'x4' "F" mounting frame for NEMA "F" mounting
- FSK24 2'x4' surface mount field installation kit (welded seams, not available with emergency options)
- FSF24 2'x4' surface mount field assembly kit (field assembled, not available with emergency options)



Integral Interact Office daylighting and

occupancy sensor, enables wireless connected lighting control

occupancy, advanced grouping with

Integral sensor, daylighting and

Chicago Plenum rated

dwell time





IAO 4

SW7DT4

CHIC



up to 7300 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 to 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.
- 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.)
- Listed for use in non-insulated ceilings (Type Non-IC).
- DuaLED luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL.

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
- Total luminaire efficacy as high as 130 LPW (lumens per Watt) significantly reduces energy use compared to conventional 2x4 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 maintanance 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 1400lm for EMLED and 980lm for EMLED7.
- cETLus listed to UL and CSA standards. Standard DuaLED suitable for damp locations.

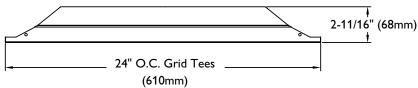
Enclosure

- 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



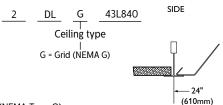
* EMLED and EMLED7 are 1-3/4" (45mm) deeper

Ceiling grid or frame kit Access plate location 7/8" dia. hole Access plate Install grid clips (included) in holes provided.

Energy Data

	33			
	Luminaire	Catalog Number	Input Power	Efficacy
	2x4 Standard	2DLG43L840	34	130
		2DLG49L840	37	130
		2DLG58L840	46	129
		2DLG73L840	57	127
	2x4 Base	2DLG42B840	33	128

Ceiling Configuration



(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 48" spacing.

up to 7300 lumens

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/ appregistration/
- · 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

Candela distribution

1432

1379

1280

1135

956

275

Candela distribution

Horizontal Angle

90°

1434

1431

1383

1283

1146

975

771

272

45°

1434

1428

1379

1280

1140

765

276

-45°

1434

1428

1379

1280

1140

967

765

276

Vertical

Angle

0 1434

15

25

35

45

55 748

65

75

up to 7300 lumens

2x4 DuaLED, 4200 nominal delivered lumens

Catalog No. 2DLG42B840-4-D-UNV Test No. S/MH 1.3 LED Lamp Type Lumens/Lamp 4161 **Input Watts** 33

Comparative yearly lighting energy cost per 1000 lumens - \$1.88 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.

LER - 128

Light Distribution			Average Luminance				
Degrees	Lumens	% Luminaire		Angle	End	45°	Cross
0- 30 0- 40 0- 60 0- 90	1114 1827 3253 4161	26.8 43.9 78.2 100.0		45 55 65 75 85	1965 1893 1790 1543 1367	1986 1937 1855 1550 1248	2002 1953 1841 1526 1245

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%						6	
0	118	118	118	115	115	115	111	111
	109	104	98	106	101	96	96	93
Room Cavity Ratio	98	90	82	95	88	81	84	79
	90	79	70	86	77	69	73	68
avity	81	69	60	80	68	59	66	58
2	75	61	53	72	60	53	58	52
D 6	69	56	46	68	55	46	53	46
	64	51	41	63	50	41	47	40
8 8 6 1	59	46	38	57	46	36	44	36
	56	42	34	55	41	34	40	33
10	53	39	30	51	39	30	38	30

2x4 DuaLED, 4300 nominal delivered lumens

Catalog No. 2DLG43L840-4-D Test No. 36164 S/MH 1.3 Lamp Type LFD Lumens/Lamp 4445 **Input Watts** 34.1

Comparative yearly lighting energy cost per 1000 lumens - \$1.85 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.

Vertical		Horizon	tal Angle	
Angle	0°	45°	90°	-45°
0	1530	1530	1530	1530
5	1524	1524	1528	1524
15	1471	1476	1481	1476
25	1365	1372	1379	1372
35	1210	1220	1232	1220
45	1016	1032	1044	1032
55	790	811	820	811
65	548	568	566	568
75	307	310	302	310
85	91	75	71	75

LER - 130

Light Distribution				Average Luminance					
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
0-30 0-40 0-60 0-90	1193 1956 3472 4445	26.8 44.0 78.1 100.0	45 55 65 75 85	2679 2569 2418 2213 1945	2721 2636 2508 2235 1609	2752 2666 2497 2176 1523			

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	2	Zonal cavity metho			od - Effective floor reflectance = 20%			
Room Cavity Ratio 0 6 8 4 9 9 5 7 8 0 0 1 0	118 109 98 90 81 75 69 65 59 56	118 104 90 79 69 61 56 51 46 42 39	118 98 82 70 60 53 46 41 38 34	115 106 95 86 80 72 68 63 57 55	115 101 88 77 68 60 55 50 46 41 39	115 96 81 69 59 53 46 41 36 34	111 96 84 73 66 58 53 47 44 40 38	111 93 79 68 58 52 46 40 36 34

Cross

3045

2763

2x4 DuaLED, 4900 nominal delivered lumens

2DLG49L840-4-D Catalog No. Test No. 36166 S/MH 13 Lamp Type LED Lumens/Lamp 4919 **Input Watts**

Comparative yearly lighting energy cost per 1000 lumens - \$1.85 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

/ertical	Horizontal Angle								
Angle	0° 45°		90°	-45°					
0	1692	1692	1692	1692					
5	1686	1687	1691	1687					
15	1628	1633	1639	1633					
25	1512	1517	1526	1517					
35	1338	1351	1362	1351					
45	1123	1141	1155	1141					
55	873	896	908	896					
65	604	629	626	629					
75	339	343	334	343					
85	101	84	79	84					

LER - 130

Light Di	stributio	Av	Average Luminance				
Degrees	Lumens	% Luminaire	A	ngle	End	45°	
0- 30 0- 40 0- 60 0- 90	1320 2165 3842 4919	26.8 44.0 78.1 100.0		45 55 65 75 85	2962 2838 2666 2444 2155	3010 2913 2777 2474 1804	
				1			

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%						6	
Room Cavity Ratio 6 8 2 9 5 4 8 5 7 1 0	118 109 98 90 81 75 69 65 59 56	118 104 90 79 69 61 56 51 46 42 39	118 98 82 70 60 53 46 41 38 34 30	115 106 95 86 80 72 68 63 57 55	115 101 88 77 68 60 55 50 46 41 39	115 96 81 69 59 53 46 41 36 34	111 96 84 73 66 58 53 47 44 40 38	111 93 79 68 58 52 46 40 36 34 30

416

123

75

85

Candel Vertical

Angle

0

5 15

75

85

900

505

933

510

124

up to 7300 lumens

2x4 DuaLED, 5800 nominal delivered lumens

Catalog No.	2DLG58L840-4-D
Test No.	36167
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	6007
Input Watts	46.3

Comparative yearly lighting energy cost per 1000 lumens - \$1.85 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.

LER - 129

Candela	Light Dis				
Vertical Angle	O°	Degrees 0-30			
0	2067	45° 2067	90° 2067	-45° 2067	0- 40 0- 60
5	2059	2060	2066	2060	0- 90
15	1989	1994	2001	1994	
25	1845	1853	1864	1853	
35	1636	1648	1666	1648	
45	1372	1393	1411	1393	Coeffic
55	1068	1096	1109	1096	EFFECTIV
CE	7.41	760	765	760	1

407

95

931

496

117

933

510

124

419

102

419

102

ight Di	stributio	on	Averag	Average Luminance					
)egrees	Lumens	% Luminaire	Angle	End	45°	Cross			
0- 30 0- 40 0- 60 0- 90	1612 2644 4692 6007	26.8 44.0 78.1 100.0	45 55 65 75 85	3618 3471 3269 2994 2640	3675 3562 3392 3021 2187	3721 3604 3376 2934 2039			

eients of Utilization

E 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 ref						nce = 209	6
Room Cavity Ratio	118 109 98 90 81 75 69 65	118 104 90 79 69 61 56 51	118 98 82 70 60 53 46 41 38	115 106 95 86 80 72 68 63 57	115 101 88 77 68 60 55 50 46	115 96 81 69 59 53 46 41	111 96 84 73 66 58 53 47	111 93 79 68 58 52 46 40 36
2 0 10	56 53	42 39	34 30	55 51	41 39	34 30	40 38	34 30

2x4 DuaLED, 7300 nominal delivered lumens

Catalog No.	2DLG73L840-4-D
Test No.	36170
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	7307
Input Watts	57.3

Comparative yearly lighting energy cost per 1000 lumens - \$1.88 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.

LER - 127

la distribution			Light Distribution				Average Luminance					
	Horizontal Angle				Degrees 0- 30	Lumens 1961	% Luminaire 26.8	A	ngle	End	45°	Cross 4525
١	0° 2514	45° 2514	90° 2514	-45° 2514	0- 40 0- 60	3216 5707	44.0 78.1		45 55	4402 4222	4470 4329	4384
	2504	2506	2513	2506	0-80	7308	100.0		65 75	3973 3641	4117 3671	4108 3570
	2419 2246	2427 2256	2434 2266	2427 2256					85	3216	2655	2495
	1989	2006	2026	2006	Coeffic	ients of	Litilization					
	1669 1299	1695 1331	1716 1348	1695 1331		Coefficients of Utilization FEFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (nfc=0.20)						

Ceiling (pcc)	80%				70%	50%		
Wall (pw)	70	50	30	70	50	30	50	30
RCR	7	Zonal cav	ity metho	od - Effec	ective floor reflectance = 20%			
Room Cavity Ratio 8 2 9 5 7 8 5 1 0	118 109 98 90 81 75 69	118 104 90 79 69 61 56	118 98 82 70 60 53 46	115 106 95 86 80 72 68	115 101 88 77 68 60 55	115 96 81 69 59 53 46	111 96 84 73 66 58 53	111 93 79 68 58 52 46
9	65 59 56	51 46 42	41 38 34	63 57 55	50 46 41	41 36 34	47 44 40	40 36 34
10	53	39	30	51	39	30	38	30

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