

Day-Brite

CFI

by @signify

Surface

DuaLED 2x4

2SDL up to 7300 lumens



Day-Brite / CFI DuaLED surface is a highly efficient, visually comfortable, architecturally styled surface 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

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

Ordering guide

example: 2SDL43L840-4-D-UNV-DIM

Width	Family	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options
2	SDL		—	4	D	—	—	
2' 2'	SDL Surface DuaLED	43L 4300 49L 4900 58L 5800 73L 7300	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4' 4'	D Diffuse (opal)	UNV Universal Voltage, 120-277 volt 347 347V	DIM ¹ 0-10V dimming SDIM ² Step dimming to 40% input power DALI DALI dimming	AG Antimicrobial paint CC Custom color GLR Fusing, fast blow GTD/E ⁴ UL924 listed Bodine GTD factory installed on driver input GTD/SNSR ^{4,5} UL924 listed Bodine GTD factory installed between driver and sensor SWZG2 ^{2,3,4} Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning IAO ³ Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control SWZDT ³ Integral sensor, daylighting and occupancy, advanced grouping with dwell time DSC Quick driver disconnect

Footnotes

- 1 Integral controls options dimmable to 5% via wireless wall switch, all other 0-10V wired configurations dimmable to 1%.
- 2 58L and 73L not available with SDIM and SWZG2 options.
- 3 Specify only with -DIM driver option.
- 4 Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
- 5 Must be installed in conjunction with a UL1008 device.
- 6 Must be ordered with an integral sensing option.

SpaceWise (SWZG2) Accessories (order separately)

- **SWZ-REMOTE** – SpaceWise handheld remote for grouping and configuration (at least one remote required for any SpaceWise installation)
- **LRM1743** – External sensor to increase occupancy coverage area of SpaceWise luminaire groups
- **UID8451/10** – Wireless Dimmer Switch Selector
- **UID8461/10** – Wireless Scene Selector



interact
ready.

2SDL DuaLED surface 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 3" high with sloped sides for a sleek appearance.
- 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.
- Surface mount design requires no plenum space.
- 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.

Electrical

- 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 is standard.
- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.
- High efficiency LEDs have a minimum 70,000 hour rated life (L70). Predicted L70 lifetime based on LED manufacturer's LM-80 data and in-situ laboratory testing.
- To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output for EMLED is 1430lm.
- 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, suitable for damp locations.

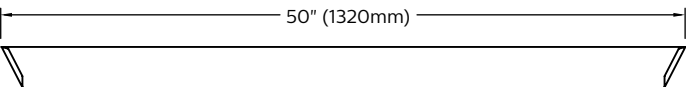
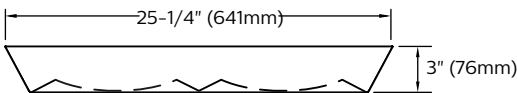
Enclosure

- Diffuser has large surface area for brightness control.
- 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.
- This luminaire is not suitable for continuous row mounting.
- 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



Energy Data

Luminaire	Catalog Number	Input Power	Efficacy
2x4	2SDL43L840	34.1	130
	2SDL49L840	37.7	130
	2SDL58L840	46.3	129
	2SDL73L840	57.3	127

2SDL DuaLED surface 2x2

up to 4400 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

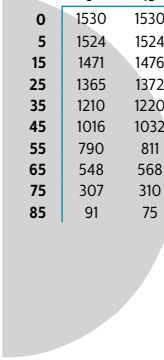
2SDL DuaLED surface 2x2

up to 4400 lumens

Photometry

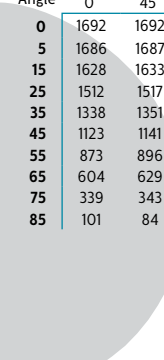
2x4 DuaLED, 4300 nominal delivered lumens

LER – 130

Catalog No. 2SDL43L840-4-D Test No. 36164 S/MH 1.3 Lamp Type LED Lumens/Lamp 4445 Input Watts 34.1	Candela distribution					Light Distribution			Average Luminance			
	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
	0	1530	1530	1530	1530	0-30	1193	26.8	45	2679	2721	2752
	5	1524	1524	1528	1524	0-40	1956	44.0	55	2569	2636	2666
	15	1471	1476	1481	1476	0-60	3472	78.1	65	2418	2508	2497
	25	1365	1372	1379	1372	0-90	4445	100.0	75	2213	2235	2176
	35	1210	1220	1232	1220				85	1945	1609	1523
	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							
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.												

2x4 DuaLED, 4900 nominal delivered lumens

LER – 130

Catalog No. 2SDL49L840-4-D Test No. 36166 S/MH 1.3 Lamp Type LED Lumens/Lamp 4919 Input Watts 37.7	Candela distribution					Light Distribution			Average Luminance			
	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
	0	1692	1692	1692	1692	0-30	1320	26.8	45	2962	3010	3045
	5	1686	1687	1691	1687	0-40	2165	44.0	55	2838	2913	2953
	15	1628	1633	1639	1633	0-60	3842	78.1	65	2666	2777	2763
	25	1512	1517	1526	1517	0-90	4919	100.0	75	2444	2474	2403
	35	1338	1351	1362	1351				85	2155	1804	1692
	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							
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.												

2SDL DuaLED surface 2x2

up to 4400 lumens

2x4 DuaLED, 5800 nominal delivered lumens

LER – 129

Catalog No.	2SDL58L840-4-D	Candela distribution					Light Distribution			Average Luminance			
Test No.	36167	Vertical Angle	0°	45°	90°	-45°	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	1.3	0	2067	2067	2067	2067	0-30	1612	26.8	45	3618	3675	3721
Lamp Type	LED	5	2059	2060	2066	2060	0-40	2644	44.0	55	3471	3562	3604
Lumens/Lamp	6007	15	1989	1994	2001	1994	0-60	4692	78.1	65	3269	3392	3376
Input Watts	46.3	25	1845	1853	1864	1853	0-90	6007	100.0	75	2994	3021	2934
		35	1636	1648	1666	1648				85	2640	2187	2039
		45	1372	1393	1411	1393							
		55	1068	1096	1109	1096							
		65	741	769	765	769							
		75	416	419	407	419							
		85	123	102	95	102							
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.													
					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%								
					0								
					1								
					2								
					3								
					4								
					5								
					6								
					7								
					8								
					9								
					10								

2x4 DuaLED, 7300 nominal delivered lumens

LER – 127

Catalog No.	2SDL73L840-4-D
Test No.	36170
S/MH	1.3
Lamp Type	WLED
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.

Candela distribution				
Vertical Angle	0°	45°	90°	-45°
0	2514	2514	2514	2514
5	2504	2506	2513	2506
15	2419	2427	2434	2427
25	2246	2256	2266	2256
35	1989	2006	2026	2006
45	1669	1695	1716	1695
55	1299	1331	1348	1331
65	900	933	931	933
75	505	510	496	510
85	150	124	117	124

Light Distribution		
Degrees	Lumens	% Luminaire
0-30	1961	26.8
0-40	3216	44.0
0-60	5707	78.1
0-90	7308	100.0

Average Luminance			
Angle	End	45°	Cross
45	4402	4470	4525
55	4222	4329	4384
65	3973	4117	4108
75	3641	3671	3570
85	3216	2655	2495

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	30
RCR	Zonal cavity method - Effective floor reflectance = 20%								
0	118	118	118	115	115	115	111	111	111
1	109	104	98	106	101	96	96	93	93
2	98	90	82	95	88	81	84	79	79
3	90	79	70	86	77	69	73	68	68
4	81	69	60	80	68	59	66	58	58
5	75	61	53	72	60	53	58	52	52
6	69	56	46	68	55	46	53	46	46
7	65	51	41	63	50	41	47	40	40
8	59	46	38	57	46	36	44	36	36
9	56	42	34	55	41	34	40	34	34
10	53	39	30	51	39	30	38	30	30

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