

# Day-Brite

## CFI

by @signify

Surface

DuaLED 2x2

2SDL up to 4400 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: 2SDL27L840-2-D-UNV-DIM

Width	Family	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options
<b>2</b>	<b>SDL</b>		—	<b>2</b> —	<b>D</b> —	—	—	
2 2'	<b>SDL</b> Surface DuaLED	<b>21L</b> 2100 <b>27L</b> 2700 <b>34L</b> 3400 <b>38L</b> 3800 <b>44L</b> 4400	<b>830</b> 80 CRI, 3000K <b>835</b> 80 CRI, 3500K <b>840</b> 80 CRI, 4000K <b>850</b> 80 CRI, 5000K	2 2'	<b>D</b> Diffuse (opal)	<b>UNV</b> Universal Voltage, 120-277 volt <b>347</b> 347V	<b>DIM</b> <sup>1</sup> 0-10V dimming <b>SDIM</b> Step dimming to 40% input power <b>DALI</b> DALI dimming	<b>AG</b> Antimicrobial paint <b>CC</b> Custom color <b>GLR</b> Fusing, fast blow <b>GTD/E</b> <sup>4</sup> UL924 listed Bodine GTD factory installed on driver input <b>GTD/SNSR</b> <sup>4,5</sup> UL924 listed Bodine GTD factory installed between driver and sensor <b>SWZG2</b> <sup>2,3</sup> Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning <b>IAO</b> <sup>2</sup> Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control <b>SWZDT</b> <sup>2</sup> Integral sensor, daylighting and occupancy, advanced grouping with dwell time <b>DSC</b> Quick driver disconnect

### Footnotes

- <sup>1</sup> Integral controls options dimmable to 5% via wireless wall switch, all other 0-10V wired configurations dimmable to 1%.
- <sup>2</sup> Specify only with -DIM driver option.
- <sup>3</sup> Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
- <sup>4</sup> Must be installed in conjunction with a UL1008 device.
- <sup>5</sup> 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 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.
- 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](http://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 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 is standard.
- 5 year manufacturer's limited warranty. Visit [signify.com/warranties](http://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.

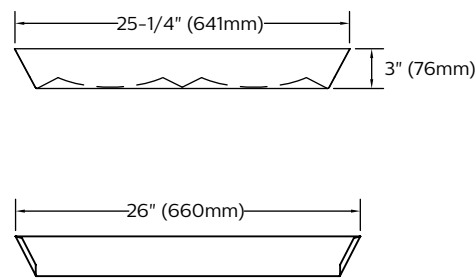
## Enclosure

- 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



## Energy Data

Luminaire	Catalog Number	Input Power	Efficacy
2x2	2SDL27L840	22.5	118
	2SDL34L840	29.3	117
	2SDL38L840	32.9	117
	2SDL44L840	39.0	114

# 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](http://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](http://www.lightingproducts.signify.com/documents/webdb2/DayBrite/pdf/SWZG2_sensor.pdf)
- Visit [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://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](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

## DuaLED shown with integral sensor



SWZDT sensor shown

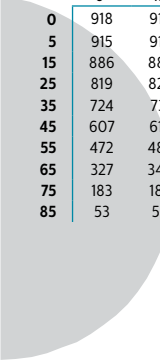
# 2SDL DuaLED surface 2x2

up to 4400 lumens

## Photometry


### 2x2 DuaLED, 2700 nominal delivered lumens

LER – 118

<b>Catalog No.</b> 2SDL27L840-2-D-UNV-DIM <b>Test No.</b> 35426 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 2671 <b>Input Watts</b> 22.5	<b>Candela distribution</b>					<b>Light Distribution</b>			<b>Average Luminance</b>			
	Vertical Angle	0°	45°	90°	~45°	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
	0	918	918	918	918	0-30	716	26.8	45	3118	3176	3236
	5	915	914	915	914	0-40	1174	44.0	55	2987	3076	3144
	15	886	885	888	885	0-60	2084	78.0	65	2811	2925	2952
	25	819	823	828	823	0-90	2671	100.0	75	2571	2603	2590
	35	724	731	741	731				85	2213	2075	2108
	45	607	618	630	618							
	55	472	486	497	486							
	65	327	340	344	340							
	75	183	186	185	186							
	85	53	50	51	50							
Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.02</b> 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.												

### 2x2 DuaLED, 3400 nominal delivered lumens

LER – 117

<b>Catalog No.</b> 2SDL34L840-2-D-UNV-DIM <b>Test No.</b> 35427 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 3450 <b>Input Watts</b> 29.3	<b>Candela distribution</b>					<b>Light Distribution</b>			<b>Average Luminance</b>			
	Vertical Angle	0°	45°	90°	~45°	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
	0	1186	1186	1186	1186	0-30	925	26.8	45	4024	4101	4177
	5	1182	1181	1182	1181	0-40	1516	43.9	55	3856	3977	4058
	15	1145	1143	1147	1143	0-60	2692	78.0	65	3620	3774	3802
	25	1058	1062	1069	1062	0-90	3451	100.0	75	3309	3344	3337
	35	935	945	958	945				85	2842	2621	2725
	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							
Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.03</b> 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

## 2x2 DuaLED, 3800 nominal delivered lumens

### LER – 117

<b>Catalog No.</b> 2SDL38L840-2-D-UNV-DIM <b>Test No.</b> 35428 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 3849 <b>Input Watts</b> 32.9	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>			
	Vertical Angle	Horizontal Angle			Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
	0°	45°	90°	-45°	0-30	1032	26.8	45	4492	4574	4659
	5	1319	1317	1319	0-40	1692	43.9	55	4302	4431	4532
	15	1277	1276	1279	0-60	3003	78.0	65	4040	4206	4250
	25	1181	1185	1192	0-90	3850	100	75	3699	3734	3742
	35	1044	1054	1068				85	3171	2958	3054
	45	875	891	907							
	55	680	700	716							
	65	470	490	495							
	75	264	266	267							
	85	76	71	73							

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.

## 2x2 DuaLED, 4400 nominal delivered lumens

### LER – 114

<b>Catalog No.</b> 2SDL44L840-2-D-UNV-DIM <b>Test No.</b> 35429 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 4670 <b>Input Watts</b> 40.9	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>			
	Vertical Angle	Horizontal Angle			Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
	0°	1603	1603	1603	0-30	1252	26.8	45	5436	5546	5651
	5	1598	1598	1600	0-40	2052	44.0	55	5212	5377	5500
	15	1548	1548	1553	0-60	3641	78.0	65	4901	5113	5161
	25	1430	1438	1447	0-90	4668	100.0	75	4475	4553	4535
	35	1264	1278	1296				85	3880	3618	3730
	45	1059	1081	1101							
	55	824	850	870							
	65	571	596	601							
	75	319	325	324							
	85	93	87	90							

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.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

