

Day-Brite

CFI

by  Signify

Surface

DuaLED 2x2

2100, 2700, 3400, 3800,
or 4400 lumens



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

The Day-Brite / CFI DuaLED surface LED 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

Ordering guide

Example: **2SDL27L840-2-D-UNV-DIM**

Width	Family	Lumen Package	Color	Length	Center Diffuser	Voltage	Driver	Options
<input type="text" value="2"/>	<input type="text" value="SDL"/>		-	<input type="text" value="2"/> -	<input type="text" value="D"/> -	-	-	
2 2'	SDL Surface DuaLED	21L 2100 nominal delivered lumens 27L 2700 nominal delivered lumens 34L 3400 nominal delivered lumens 38L 3800 nominal delivered lumens 44L 4400 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 347 347V	DIM ¹ 0-10V dimming SDIM Step dimming to 40% input power DALI DALI dimming	AG Antimicrobial paint CC Custom color GLR Fusing, fast blow SWZG2 ^{2,3} Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning SWZDT ² Integral sensor, daylighting and occupancy, advanced grouping with dwell time DAYOCC ² Integral sensor, daylighting and occupancy, basic grouping DSC Quick driver disconnect

Footnotes

- Integral SWZDT and DAYOCC options dimmable to 5% via wireless wall switch, all other 0-10V wired configurations dimmable to 1%.
- Specify only with -DIM driver option.
- Must order SWZ-REMOTE SpaceWise handheld remote with each system order.

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

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 LED 2x2

2100, 2700, 3400, 3800, or 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)

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.
- Five year limited luminaire warranty includes LED boards and driver. Visit www.philips.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.
- 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.

SpaceWise (SWZG2)

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

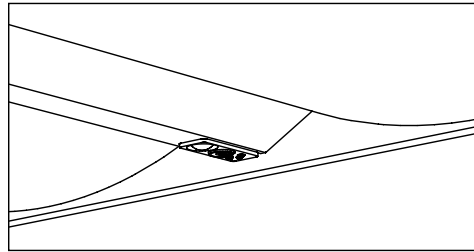
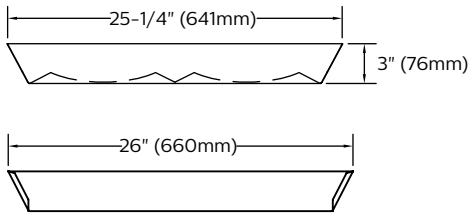
DAYOCC & SpaceWise DT (SWZDT)

- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see below)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information including recommended switches, refer to the following –
 - DAYOCC** – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC_sensor.pdf
 - SWZDT** – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT_sensor.pdf

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Dimensions



SpaceWise (SWZ) automated wireless technology is available for integrated occupancy and daylight harvesting. Individual options for dimming, occupancy detection, and daylight harvesting are also available if SpaceWise option is not selected.

Photometry

2x2 DuaLED, 2700 nominal delivered lumens

LER – 118

Catalog No. 2SDL27L840-2-D-UNV-DIM Test No. 35426 S/MH 1.3 Lamp Type LED Lumens/Lamp 2671 Input Watts 22.5 Comparative yearly lighting energy cost per 1000 lumens – \$2.02 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 0° 5° 15° 25° 35° 45° 55° 65° 75° 85°	Horizontal Angle 0° 45° 90° -45°	Degrees 0-30 0-40 0-60 0-90	Lumens 716 1174 2084 2671	% Luminaire 26.8 44.0 78.0 100.0	Angle 45° 55° 65° 75° 85°	End 3118 2987 2811 2571 2213	45° 3176 3076 2925 2603 2075	Cross 3236 3144 2952 2590 2108		

2x2 DuaLED, 3400 nominal delivered lumens

LER – 117

Catalog No. 2SDL34L840-2-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			
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2SDL DuaLED surface LED 2x2

2100, 2700, 3400, 3800, or 4400 lumens

2x2 DuaLED, 3800 nominal delivered lumens

LER – 117

Catalog No. 2SDL38L840-2-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 <table border="1"> <thead> <tr> <th rowspan="2">Vertical Angle</th> <th colspan="4">Horizontal Angle</th> </tr> <tr> <th>0°</th> <th>45°</th> <th>90°</th> <th>-45°</th> </tr> </thead> <tbody> <tr><td>0</td><td>1323</td><td>1323</td><td>1323</td><td>1323</td></tr> <tr><td>5</td><td>1319</td><td>1317</td><td>1319</td><td>1317</td></tr> <tr><td>15</td><td>1277</td><td>1276</td><td>1279</td><td>1276</td></tr> <tr><td>25</td><td>1181</td><td>1185</td><td>1192</td><td>1185</td></tr> <tr><td>35</td><td>1044</td><td>1054</td><td>1068</td><td>1054</td></tr> <tr><td>45</td><td>875</td><td>891</td><td>907</td><td>891</td></tr> <tr><td>55</td><td>680</td><td>700</td><td>716</td><td>700</td></tr> <tr><td>65</td><td>470</td><td>490</td><td>495</td><td>490</td></tr> <tr><td>75</td><td>264</td><td>266</td><td>267</td><td>266</td></tr> <tr><td>85</td><td>76</td><td>71</td><td>73</td><td>71</td></tr> </tbody> </table>	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 <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1032</td><td>26.8</td></tr> <tr><td>0-40</td><td>1692</td><td>43.9</td></tr> <tr><td>0-60</td><td>3003</td><td>78.0</td></tr> <tr><td>0-90</td><td>3850</td><td>100</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1032	26.8	0-40	1692	43.9	0-60	3003	78.0	0-90	3850	100	Average Luminance <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>4492</td><td>4574</td><td>4659</td></tr> <tr><td>55</td><td>4302</td><td>4431</td><td>4532</td></tr> <tr><td>65</td><td>4040</td><td>4206</td><td>4250</td></tr> <tr><td>75</td><td>3699</td><td>3734</td><td>3742</td></tr> <tr><td>85</td><td>3171</td><td>2958</td><td>3054</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	4492	4574	4659	55	4302	4431	4532	65	4040	4206	4250	75	3699	3734	3742	85	3171	2958	3054																																				
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2x2 DuaLED, 4400 nominal delivered lumens

LER – 114

Catalog No. 2SDL44L840-2-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 1000lumens – \$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 <table border="1"> <thead> <tr> <th rowspan="2">Vertical Angle</th> <th colspan="4">Horizontal Angle</th> </tr> <tr> <th>0°</th> <th>45°</th> <th>90°</th> <th>-45°</th> </tr> </thead> <tbody> <tr><td>0</td><td>1603</td><td>1603</td><td>1603</td><td>1603</td></tr> <tr><td>5</td><td>1598</td><td>1598</td><td>1600</td><td>1598</td></tr> <tr><td>15</td><td>1548</td><td>1548</td><td>1553</td><td>1548</td></tr> <tr><td>25</td><td>1430</td><td>1438</td><td>1447</td><td>1438</td></tr> <tr><td>35</td><td>1264</td><td>1278</td><td>1296</td><td>1278</td></tr> <tr><td>45</td><td>1059</td><td>1081</td><td>1101</td><td>1081</td></tr> <tr><td>55</td><td>824</td><td>850</td><td>870</td><td>850</td></tr> <tr><td>65</td><td>571</td><td>596</td><td>601</td><td>596</td></tr> <tr><td>75</td><td>319</td><td>325</td><td>324</td><td>325</td></tr> <tr><td>85</td><td>93</td><td>87</td><td>90</td><td>87</td></tr> </tbody> </table>	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 <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1252</td><td>26.8</td></tr> <tr><td>0-40</td><td>2052</td><td>44.0</td></tr> <tr><td>0-60</td><td>3641</td><td>78.0</td></tr> <tr><td>0-90</td><td>4668</td><td>100.0</td></tr> </tbody> </table>	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 <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>5436</td><td>5546</td><td>5651</td></tr> <tr><td>55</td><td>5212</td><td>5377</td><td>5500</td></tr> <tr><td>65</td><td>4901</td><td>5113</td><td>5161</td></tr> <tr><td>75</td><td>4475</td><td>4553</td><td>4535</td></tr> <tr><td>85</td><td>3880</td><td>3618</td><td>3730</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	5436	5546	5651	55	5212	5377	5500	65	4901	5113	5161	75	4475	4553	4535	85	3880	3618	3730																																				
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0-40	2052	44.0																																																																																																																																							
0-60	3641	78.0																																																																																																																																							
0-90	4668	100.0																																																																																																																																							
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) <table border="1"> <thead> <tr> <th rowspan="2">Ceiling (pcc)</th> <th colspan="3">80%</th> <th colspan="3">70%</th> <th colspan="3">50%</th> </tr> <tr> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> </thead> <tbody> <tr> <td>Wall (pw)</td> <td>70</td> <td>50</td> <td>30</td> <td>70</td> <td>50</td> <td>30</td> <td>50</td> <td>30</td> </tr> <tr> <td>RCR</td> <td colspan="9">Zonal cavity method - Effective floor reflectance = 20%</td> </tr> <tr> <td>Room Cavity Ratio</td> <td>0</td> <td>119</td> <td>119</td> <td>119</td> <td>116</td> <td>116</td> <td>116</td> <td>111</td> </tr> <tr><td>1</td><td>108</td><td>104</td><td>99</td><td>106</td><td>101</td><td>97</td><td>97</td><td>94</td></tr> <tr><td>2</td><td>98</td><td>90</td><td>83</td><td>96</td><td>88</td><td>82</td><td>85</td><td>79</td></tr> <tr><td>3</td><td>90</td><td>79</td><td>71</td><td>87</td><td>77</td><td>70</td><td>74</td><td>68</td></tr> <tr><td>4</td><td>82</td><td>70</td><td>61</td><td>80</td><td>69</td><td>60</td><td>66</td><td>59</td></tr> <tr><td>5</td><td>75</td><td>62</td><td>53</td><td>73</td><td>61</td><td>53</td><td>59</td><td>52</td></tr> <tr><td>6</td><td>70</td><td>56</td><td>47</td><td>68</td><td>55</td><td>47</td><td>53</td><td>46</td></tr> <tr><td>7</td><td>64</td><td>51</td><td>42</td><td>63</td><td>50</td><td>42</td><td>48</td><td>41</td></tr> <tr><td>8</td><td>60</td><td>46</td><td>38</td><td>58</td><td>46</td><td>37</td><td>44</td><td>37</td></tr> <tr><td>9</td><td>56</td><td>43</td><td>34</td><td>55</td><td>42</td><td>34</td><td>41</td><td>33</td></tr> <tr><td>10</td><td>53</td><td>39</td><td>31</td><td>51</td><td>39</td><td>31</td><td>38</td><td>31</td></tr> </tbody> </table>	Ceiling (pcc)	80%			70%			50%			70	50	30	70	50	30	50	30	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	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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