

# Day-Brite CFI

by  Signify

## Recessed

SofTrace LED 2x2

Up to 4400 lumens



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Day-Brite / CFI SofTrace LED recessed brings new meaning to the concept of combining style with performance. Equipped with a fresh streamlined design and innovative technology, SofTrace provides a huge step forward for the lighting industry. The sleek profile design belies the true “horsepower under the hood”. This architectural product delivers leading edge performance for the most environmentally conscious user.

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

**Example: 2STG30L840-2-D-UNV-DIM**

Width	Family	Ceiling Type	Lumen Package <sup>1</sup>	Color Temp.	Length	Center Diffuser	Voltage	Driver	Options
2	ST			–	2	–	–	–	
2 2'	ST Softrace	G Grid F Flange Z Z Spline / Modular	<b>Standard configurations</b> 30L 3000 nominal delivered lumens 34L 3400 nominal delivered lumens 38L 3800 nominal delivered lumens 44L 4400 nominal delivered lumens  <b>Base configuration</b> 35B 3500 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (ribbed) DS Diffuse (smooth) PMW Round perf w/ white overlay	UNV Universal voltage 120-277V 347 347V	DIM <sup>2</sup> 0-10V dimming SDIM Step dimming to 40% input power L3D <sup>3</sup> Lutron Hi-lume A 1% dimming LDE <sup>4</sup> Lutron LDE5, 5% dimming DALI DALI dimming	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow PAF Housing painted after fabrication EMLED Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) EMLED <sup>5</sup> Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) EMLED Integral emergency battery pack, 1100lm nominal (ballast enclosure on top of luminaire) CHIC Chicago plenum rated

### Footnotes:

- The lumen values stated above are relevant only to the "D" center diffuser option. For lumen values with the other diffusers, check the photometrics tests online for those specific catalog numbers.
- 0-10V dimming to 1% for Standard configurations and 5% for Base configurations.
- Specify 38L lumen package only. Consult factory for other lumen packages.
- Specify for 30L or 34L lumen packages only. Consult factory for other lumen packages.
- Available only with Base configurations.

### Accessories (order separately)

- FKDP22** Flange conversion kit 2'X2'
- FMA22** 2'x2' "F" mounting frame for NEMA "F" mounting

### Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x2 Standard	2STG30L840	26	115
	2STG34L840	29	114
	2STG38L840	34	113
2x2 Base	2STG35B840	33	107



# 2ST SofTrace LED recessed 2x2

Up to 4400 lumens

## Application

- Subtle enclosure curves provide architectural styling to complement any space.
- Smooth brightness across the face of the luminaire prevents glare and provides excellent visual comfort.
- Directs a controlled amount of light to higher angles to eliminate “cave effect” without creating glare.
- Outstanding visual comfort, ideal for modern offices, schools and retail environments.
- High CRI source provides excellent color rendering with a CRI of 80.
- LEDs are an excellent source for use with controls since frequent switching does not affect the life of the light source.
- Grid, Flange or Z-spline/ Modular models available.
- Some SofTrace 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

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- End K.O.s for thru wiring or conduit entry in shallow plenums.
- Suitable for end to end 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.

## Electrical

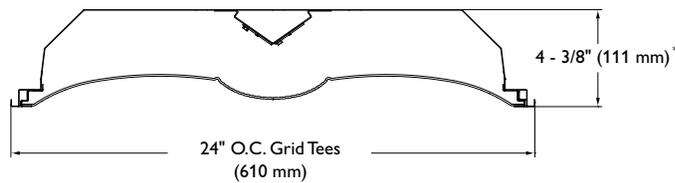
- Driver and LED boards are easily accessible from below. LED boards are individually replaceable, if required, via plug-in connectors.
- Standard configurations are 0-10V dimming to 1% and Base configurations are to 5%.

- Five year limited luminaire warranty includes LED boards and driver. Visit [www.philips.com/warranties](http://www.philips.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 EMLED and 900lm for EMLED7.
- cETLus listed to UL standards, suitable for damp locations.

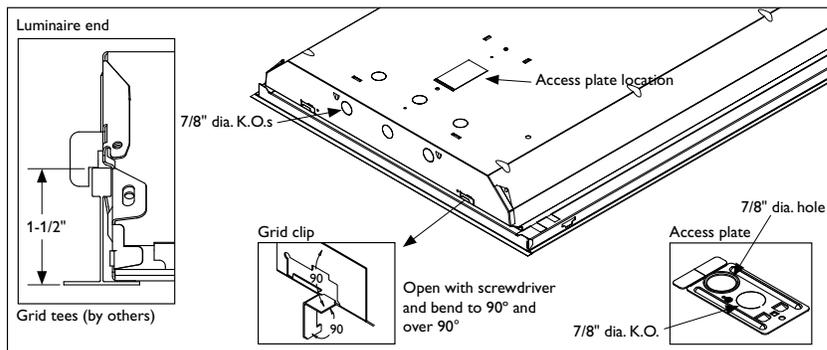
## Enclosure

- Choice of three enclosures:
  - Single piece thermo formed acrylic lens with ribbed center diffuser (D)
  - Single piece acrylic lens with smooth center diffuser (DS).
  - Three piece acrylic lens with round perforated steel center diffuser (PMW)

## Dimensions



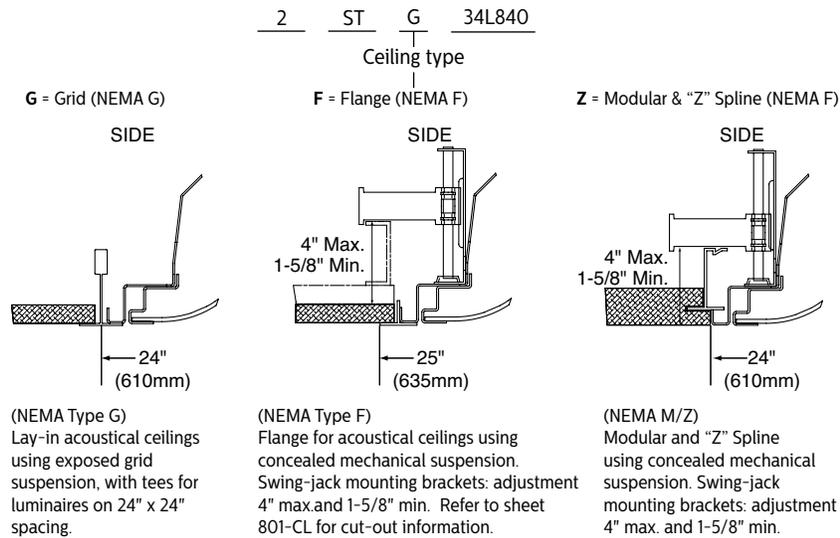
\* EMLED and EMLED7 are 1-3/4" (45mm) deeper



# 2ST SofTrace LED recessed 2x2

Up to 4400 lumens

## Ceiling configuration



## 2x2 SofTrace LED, 3500 nominal delivered lumens, diffuse

LER – 107

<p><b>Catalog No.</b> 2STG35B840-2-D-UNV</p> <p><b>Test No.</b> 38125</p> <p><b>S/MH</b> 1.3</p> <p><b>Lamp Type</b> LED</p> <p><b>Lumens/Lamp</b> 3592</p> <p><b>Input Watts</b> 34</p> <hr/> <p>Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.24</b> based on 3000 hrs. and \$.08 pwr KWH.</p> <hr/> <p>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p>	<p style="text-align: center;"><b>Candela distribution</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>1331</td><td>1331</td><td>1331</td><td>1331</td></tr> <tr><td>5</td><td>1315</td><td>1326</td><td>1332</td><td>1326</td></tr> <tr><td>15</td><td>1254</td><td>1276</td><td>1297</td><td>1276</td></tr> <tr><td>25</td><td>1138</td><td>1177</td><td>1218</td><td>1177</td></tr> <tr><td>35</td><td>977</td><td>1033</td><td>1088</td><td>1033</td></tr> <tr><td>45</td><td>787</td><td>847</td><td>901</td><td>847</td></tr> <tr><td>55</td><td>584</td><td>636</td><td>681</td><td>636</td></tr> <tr><td>65</td><td>358</td><td>399</td><td>449</td><td>399</td></tr> <tr><td>75</td><td>181</td><td>220</td><td>251</td><td>220</td></tr> <tr><td>85</td><td>45</td><td>58</td><td>57</td><td>58</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1331	1331	1331	1331	5	1315	1326	1332	1326	15	1254	1276	1297	1276	25	1138	1177	1218	1177	35	977	1033	1088	1033	45	787	847	901	847	55	584	636	681	636	65	358	399	449	399	75	181	220	251	220	85	45	58	57	58	<p style="text-align: center;"><b>Light Distribution</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1028</td><td>28.6</td></tr> <tr><td>0-40</td><td>1674</td><td>46.6</td></tr> <tr><td>0-60</td><td>2893</td><td>80.5</td></tr> <tr><td>0-90</td><td>3591</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1028	28.6	0-40	1674	46.6	0-60	2893	80.5	0-90	3591	100.0	<p style="text-align: center;"><b>Average Luminance</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>3655</td><td>3937</td><td>4185</td></tr> <tr><td>55</td><td>3345</td><td>3645</td><td>3900</td></tr> <tr><td>65</td><td>2782</td><td>3100</td><td>3488</td></tr> <tr><td>75</td><td>2303</td><td>2788</td><td>3184</td></tr> <tr><td>85</td><td>1689</td><td>2179</td><td>2156</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	3655	3937	4185	55	3345	3645	3900	65	2782	3100	3488	75	2303	2788	3184	85	1689	2179	2156																																																	
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## 2x2 SofTrace LED, 3000 nominal delivered lumens, diffuse

LER – 115

<p><b>Catalog No.</b> 2STG30L840-2-D-UNV-DIM</p> <p><b>Test No.</b> 35381</p> <p><b>S/MH</b> 1.3</p> <p><b>Lamp Type</b> LED</p> <p><b>Lumens/Lamp</b> 3049</p> <p><b>Input Watts</b> 26.3</p> <hr/> <p>Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.07</b> based on 3000 hrs. and \$.08 pwr KWH.</p> <hr/> <p>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p>	<p style="text-align: center;"><b>Candela distribution</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>1094</td><td>1094</td><td>1094</td><td>1094</td></tr> <tr><td>5</td><td>1084</td><td>1090</td><td>1096</td><td>1090</td></tr> <tr><td>15</td><td>1039</td><td>1057</td><td>1071</td><td>1057</td></tr> <tr><td>25</td><td>945</td><td>976</td><td>1007</td><td>976</td></tr> <tr><td>35</td><td>814</td><td>860</td><td>906</td><td>860</td></tr> <tr><td>45</td><td>660</td><td>712</td><td>758</td><td>712</td></tr> <tr><td>55</td><td>494</td><td>541</td><td>578</td><td>541</td></tr> <tr><td>65</td><td>325</td><td>366</td><td>397</td><td>366</td></tr> <tr><td>75</td><td>164</td><td>204</td><td>233</td><td>204</td></tr> <tr><td>85</td><td>38</td><td>57</td><td>57</td><td>57</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1094	1094	1094	1094	5	1084	1090	1096	1090	15	1039	1057	1071	1057	25	945	976	1007	976	35	814	860	906	860	45	660	712	758	712	55	494	541	578	541	65	325	366	397	366	75	164	204	233	204	85	38	57	57	57	<p style="text-align: center;"><b>Light Distribution</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>851</td><td>27.9</td></tr> <tr><td>0-40</td><td>1389</td><td>45.6</td></tr> <tr><td>0-60</td><td>2418</td><td>79.3</td></tr> <tr><td>0-90</td><td>3049</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	851	27.9	0-40	1389	45.6	0-60	2418	79.3	0-90	3049	100.0	<p style="text-align: center;"><b>Average Luminance</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45°</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>3066</td><td>3308</td><td>3524</td></tr> <tr><td>55</td><td>2827</td><td>3098</td><td>3312</td></tr> <tr><td>65</td><td>2525</td><td>2842</td><td>3083</td></tr> <tr><td>75</td><td>2079</td><td>2583</td><td>2954</td></tr> <tr><td>85</td><td>1444</td><td>2156</td><td>2153</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	3066	3308	3524	55	2827	3098	3312	65	2525	2842	3083	75	2079	2583	2954	85	1444	2156	2153																																																	
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<p style="text-align: center;"><b>Coefficients of Utilization</b></p> <p style="text-align: center;"><b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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" style="text-align: center;">Zonal cavity method - Effective floor reflectance = 20%</td> </tr> <tr> <td>Room Cavity Ratio</td> <td>0</td><td>118</td><td>118</td><td>118</td><td>115</td><td>115</td><td>115</td><td>111</td><td>111</td> </tr> <tr><td>1</td><td>109</td><td>104</td><td>100</td><td>106</td><td>102</td><td>97</td><td>96</td><td>93</td><td>93</td></tr> <tr><td>2</td><td>98</td><td>91</td><td>83</td><td>95</td><td>89</td><td>81</td><td>84</td><td>80</td><td>80</td></tr> <tr><td>3</td><td>90</td><td>80</td><td>70</td><td>88</td><td>78</td><td>69</td><td>75</td><td>68</td><td>68</td></tr> <tr><td>4</td><td>82</td><td>70</td><td>61</td><td>80</td><td>68</td><td>60</td><td>67</td><td>59</td><td>59</td></tr> <tr><td>5</td><td>76</td><td>63</td><td>54</td><td>73</td><td>61</td><td>54</td><td>59</td><td>52</td><td>52</td></tr> <tr><td>6</td><td>69</td><td>56</td><td>47</td><td>68</td><td>56</td><td>46</td><td>54</td><td>46</td><td>46</td></tr> <tr><td>7</td><td>65</td><td>52</td><td>42</td><td>63</td><td>51</td><td>41</td><td>48</td><td>41</td><td>41</td></tr> <tr><td>8</td><td>60</td><td>46</td><td>39</td><td>58</td><td>46</td><td>38</td><td>45</td><td>38</td><td>38</td></tr> <tr><td>9</td><td>56</td><td>42</td><td>34</td><td>55</td><td>42</td><td>34</td><td>40</td><td>34</td><td>34</td></tr> <tr><td>10</td><td>53</td><td>40</td><td>32</td><td>52</td><td>39</td><td>32</td><td>38</td><td>30</td><td>30</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	118	118	118	115	115	115	111	111	1	109	104	100	106	102	97	96	93	93	2	98	91	83	95	89	81	84	80	80	3	90	80	70	88	78	69	75	68	68	4	82	70	61	80	68	60	67	59	59	5	76	63	54	73	61	54	59	52	52	6	69	56	47	68	56	46	54	46	46	7	65	52	42	63	51	41	48	41	41	8	60	46	39	58	46	38	45	38	38	9	56	42	34	55	42	34	40	34	34	10	53	40	32	52	39	32	38	30	30
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# 2ST SofTrace LED recessed 2x2

Up to 4400 lumens

## 2x2 SofTrace LED, 3400 nominal delivered lumens, diffuse

LER – 114

<b>Catalog No.</b> 2STG34L840-2-D-UNV-DIM <b>Test No.</b> 35382 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 3415 <b>Input Watts</b> 29.7  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.09</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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
	<b>Vertical Angle</b>	<b>Horizontal Angle</b>				<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
		<b>0°</b>	<b>45°</b>	<b>90°</b>	<b>-45°</b>							
	<b>0</b>	1224	1224	1224	1224	<b>0-30</b>	953	27.9	<b>45</b>	3431	3709	3941
	<b>5</b>	1213	1220	1226	1220	<b>0-40</b>	1555	45.5	<b>55</b>	3167	3474	3707
	<b>15</b>	1163	1183	1198	1183	<b>0-60</b>	2707	79.3	<b>65</b>	2821	3184	3446
	<b>25</b>	1056	1093	1127	1093	<b>0-90</b>	3415	100.0	<b>75</b>	2314	2901	3293
	<b>35</b>	910	964	1013	964				<b>85</b>	1595	2401	2367
	<b>45</b>	739	798	848	798							
	<b>55</b>	553	606	647	606							
<b>65</b>	363	410	443	410								
<b>75</b>	182	229	259	229								
<b>85</b>	42	64	63	64								

## 2x2 SofTrace LED, 3800 nominal delivered lumens, diffuse

LER – 113

<b>Catalog No.</b> 2STG38L840-2-D-UNV-DIM <b>Test No.</b> 35383 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens/Lamp</b> 3879 <b>Input Watts</b> 34.2  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.12</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.	<b>Candela distribution</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
	<b>Vertical Angle</b>	<b>Horizontal Angle</b>				<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
		<b>0°</b>	<b>45°</b>	<b>90°</b>	<b>-45°</b>							
	<b>0</b>	1392	1392	1392	1392	<b>0-30</b>	1083	27.9	<b>45</b>	3902	4209	4476
	<b>5</b>	1379	1387	1394	1387	<b>0-40</b>	1767	45.5	<b>55</b>	3600	3941	4209
	<b>15</b>	1322	1344	1362	1344	<b>0-60</b>	3075	79.3	<b>65</b>	3204	3606	3910
	<b>25</b>	1201	1242	1281	1242	<b>0-90</b>	3879	100.0	<b>75</b>	2625	3282	3745
	<b>35</b>	1035	1094	1151	1094				<b>85</b>	1821	2695	2673
	<b>45</b>	840	906	963	906							
	<b>55</b>	629	688	735	688							
<b>65</b>	412	464	503	464								
<b>75</b>	207	259	295	259								
<b>85</b>	48	72	71	72								

