

Day-Brite

CFI

by  Signify

Recessed

DuaLED 1x4

Up to 4700 lumens



Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

The 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.

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

Example: 1DLG41L840-4-D-UNV-DIM

Width	Family	Ceiling Type	Lumen Package	Color	Length	Center Diffuser	Voltage	Driver	Options	
1	DL	G		–	4	D	–	–		
1	1'	DL DuaLED	G Grid	Standard configurations 27L 2700 nominal delivered lumens 36L 3600 nominal delivered lumens 41L 4100 nominal delivered lumens 47L 4700 nominal delivered lumens Base configuration 37B 3700 nominal delivered lumens	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 Step dimming to 40% input power LDE ² Lutron LDE5, 5% dimming DALI DALI dimming	AG Antimicrobial paint 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 GLR Fusing, fast blow GTD/E ⁴ Generator transfer device EMLED Bodine BSL310 10W battery pack (requires driver enclosure on top of luminaire) EMLED ³ Bodine BSL17 7W battery pack (requires driver enclosure on top of luminaire) DSC Quick driver disconnect CHIC Chicago Plenum rated

Footnotes:

- 1 0-10V dimming to 1% for Standard configurations and 5% for Base configurations.
- 2 Specify LDE option only for 27L and 36L lumen packages.
- 3 Available only with Base configurations.
- 4 Switching to auxiliary circuit in the event of utility power loss. Luminaire operates as normal including with integrated controls.

Accessories (order separately)

- **FMA14** – 1'x4' "F" mounting frame for NEMA "F" mounting
- **FSK14** – 1'x4' surface mount field installation kit (welded seams, not available with emergency options)
- **FSF14** – 1'x4' surface mount field assembly kit (field assembled, not available with emergency options)



1DL DualLED recessed 1x4

Up to 4700 lumens

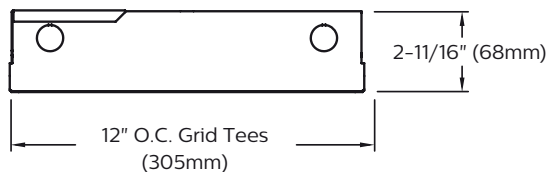
Application

- 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 provides architectural styling compatible with virtually any area.
- Soft opal diffuser with large luminous area minimizes apparent brightness and provides 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.
- 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. 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 FMA14 "F" mounting frame (sold separately.)
- Listed for use in non-insulated ceilings (Type Non-IC).
- DualLED 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.

Dimensions



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

Electrical

- 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 taller driver enclosure that increases luminaire depth.
- Five year limited luminaire warranty includes LED boards and driver (emergency driver and batteries have a three year warranty in models so equipped). Visit 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 850lm for EMLED7.
- 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.

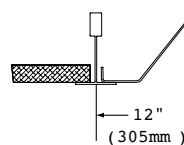
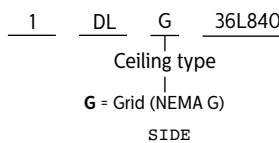
General Notes

- All options factory installed.
- All accessories are field installed.
- 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.

Energy Data

Luminaire	Catalog Number	Input Power	Efficacy
1x4 Standard	1DLG27L840	21	124
	1DLG36L840	29	123
	1DLG41L840	34	121
	1DLG47L840	39	120
1x4 Base	1DLG37B840	33	111

Ceiling configuration



1DL DualLED recessed 1x4

Up to 4700 lumens

Photometry

1x4 DualLED, 3700 nominal delivered lumens

LER – 111

<p>Catalog No. 1DLG37B840-4-D-UNV Test No. 37670 S/MH 1.3 Lamp Type LED Lumens/Lamp 3738 Input Watts 34</p> <p>Comparative yearly lighting energy cost per 1000 lumens – \$2.16 based on 3000 hrs. and \$.08 pwr KWH.</p> <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>Candela distribution</p> <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>1284</td><td>1284</td><td>1284</td><td>1284</td></tr> <tr><td>5</td><td>1266</td><td>1277</td><td>1283</td><td>1277</td></tr> <tr><td>15</td><td>1223</td><td>1235</td><td>1239</td><td>1235</td></tr> <tr><td>25</td><td>1138</td><td>1149</td><td>1157</td><td>1149</td></tr> <tr><td>35</td><td>1013</td><td>1025</td><td>1035</td><td>1025</td></tr> <tr><td>45</td><td>854</td><td>876</td><td>883</td><td>876</td></tr> <tr><td>55</td><td>669</td><td>694</td><td>700</td><td>694</td></tr> <tr><td>65</td><td>466</td><td>474</td><td>471</td><td>474</td></tr> <tr><td>75</td><td>244</td><td>249</td><td>245</td><td>249</td></tr> <tr><td>85</td><td>72</td><td>64</td><td>63</td><td>64</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1284	1284	1284	1284	5	1266	1277	1283	1277	15	1223	1235	1239	1235	25	1138	1149	1157	1149	35	1013	1025	1035	1025	45	854	876	883	876	55	669	694	700	694	65	466	474	471	474	75	244	249	245	249	85	72	64	63	64	<p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1000</td><td>26.7</td></tr> <tr><td>0-40</td><td>1642</td><td>43.9</td></tr> <tr><td>0-60</td><td>2930</td><td>78.4</td></tr> <tr><td>0-90</td><td>3738</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1000	26.7	0-40	1642	43.9	0-60	2930	78.4	0-90	3738	100.0	<p>Average Luminance</p> <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>5378</td><td>5514</td><td>5559</td></tr> <tr><td>55</td><td>5194</td><td>5384</td><td>5434</td></tr> <tr><td>65</td><td>4911</td><td>4996</td><td>4960</td></tr> <tr><td>75</td><td>4198</td><td>4276</td><td>4207</td></tr> <tr><td>85</td><td>3662</td><td>3289</td><td>3223</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	5378	5514	5559	55	5194	5384	5434	65	4911	4996	4960	75	4198	4276	4207	85	3662	3289	3223																																																	
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1x4 DualLED, 3600 nominal delivered lumens

LER – 123

<p>Catalog No. 1DLG36L840-4-D-UNV-DIM Test No. 35432 S/MH 1.3 Lamp Type LED Lumens/Lamp 3567 Input Watts 29.0</p> <p>Comparative yearly lighting energy cost per 1000 lumens – \$1.95 based on 3000 hrs. and \$.08 pwr KWH.</p> <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>Candela distribution</p> <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>1218</td><td>1218</td><td>1218</td><td>1218</td></tr> <tr><td>5</td><td>1200</td><td>1214</td><td>1222</td><td>1214</td></tr> <tr><td>15</td><td>1159</td><td>1179</td><td>1186</td><td>1179</td></tr> <tr><td>25</td><td>1077</td><td>1095</td><td>1106</td><td>1095</td></tr> <tr><td>35</td><td>954</td><td>979</td><td>992</td><td>979</td></tr> <tr><td>45</td><td>802</td><td>831</td><td>845</td><td>831</td></tr> <tr><td>55</td><td>625</td><td>655</td><td>668</td><td>655</td></tr> <tr><td>65</td><td>433</td><td>459</td><td>461</td><td>459</td></tr> <tr><td>75</td><td>243</td><td>247</td><td>246</td><td>247</td></tr> <tr><td>85</td><td>73</td><td>62</td><td>66</td><td>62</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1218	1218	1218	1218	5	1200	1214	1222	1214	15	1159	1179	1186	1179	25	1077	1095	1106	1095	35	954	979	992	979	45	802	831	845	831	55	625	655	668	655	65	433	459	461	459	75	243	247	246	247	85	73	62	66	62	<p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>952</td><td>26.7</td></tr> <tr><td>0-40</td><td>1563</td><td>43.8</td></tr> <tr><td>0-60</td><td>2782</td><td>78.0</td></tr> <tr><td>0-90</td><td>3568</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	952	26.7	0-40	1563	43.8	0-60	2782	78.0	0-90	3568	100.0	<p>Average Luminance</p> <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>5321</td><td>5512</td><td>5607</td></tr> <tr><td>55</td><td>5111</td><td>5357</td><td>5465</td></tr> <tr><td>65</td><td>4805</td><td>5099</td><td>5116</td></tr> <tr><td>75</td><td>4402</td><td>4476</td><td>4462</td></tr> <tr><td>85</td><td>3925</td><td>3333</td><td>3526</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	5321	5512	5607	55	5111	5357	5465	65	4805	5099	5116	75	4402	4476	4462	85	3925	3333	3526																																																	
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<p>Coefficients of Utilization</p> <p>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <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>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>108</td><td>104</td><td>98</td><td>106</td><td>101</td><td>96</td><td>96</td><td>93</td><td>93</td></tr> <tr><td>2</td><td>97</td><td>90</td><td>82</td><td>95</td><td>88</td><td>81</td><td>81</td><td>79</td><td>79</td></tr> <tr><td>3</td><td>90</td><td>79</td><td>70</td><td>86</td><td>77</td><td>69</td><td>69</td><td>68</td><td>68</td></tr> <tr><td>4</td><td>81</td><td>69</td><td>60</td><td>80</td><td>68</td><td>59</td><td>59</td><td>58</td><td>58</td></tr> <tr><td>5</td><td>75</td><td>61</td><td>53</td><td>72</td><td>60</td><td>53</td><td>53</td><td>52</td><td>52</td></tr> <tr><td>6</td><td>69</td><td>56</td><td>46</td><td>68</td><td>55</td><td>46</td><td>46</td><td>46</td><td>46</td></tr> <tr><td>7</td><td>64</td><td>51</td><td>41</td><td>63</td><td>50</td><td>41</td><td>41</td><td>40</td><td>40</td></tr> <tr><td>8</td><td>59</td><td>46</td><td>38</td><td>57</td><td>46</td><td>36</td><td>36</td><td>36</td><td>36</td></tr> <tr><td>9</td><td>56</td><td>41</td><td>34</td><td>55</td><td>41</td><td>34</td><td>34</td><td>33</td><td>33</td></tr> <tr><td>10</td><td>52</td><td>39</td><td>30</td><td>51</td><td>39</td><td>30</td><td>30</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	108	104	98	106	101	96	96	93	93	2	97	90	82	95	88	81	81	79	79	3	90	79	70	86	77	69	69	68	68	4	81	69	60	80	68	59	59	58	58	5	75	61	53	72	60	53	53	52	52	6	69	56	46	68	55	46	46	46	46	7	64	51	41	63	50	41	41	40	40	8	59	46	38	57	46	36	36	36	36	9	56	41	34	55	41	34	34	33	33	10	52	39	30	51	39	30	30	30	30
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10	52	39	30	51	39	30	30	30	30																																																																																																																																													

1DL DualLED recessed 1x4

Up to 4700 lumens

1x4 DualLED, 4100 nominal delivered lumens

LER – 121

Catalog No. 1DLG41L840-4-D-UNV-DIM Test No. 35433 S/MH 1.3 Lamp Type LED Lumens/Lamp 4220 Input Watts 34.7	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>1440</td><td>1440</td><td>1440</td><td>1440</td></tr> <tr><td>5</td><td>1418</td><td>1435</td><td>1445</td><td>1435</td></tr> <tr><td>15</td><td>1371</td><td>1394</td><td>1402</td><td>1394</td></tr> <tr><td>25</td><td>1273</td><td>1295</td><td>1308</td><td>1295</td></tr> <tr><td>35</td><td>1129</td><td>1157</td><td>1173</td><td>1157</td></tr> <tr><td>45</td><td>948</td><td>981</td><td>1000</td><td>981</td></tr> <tr><td>55</td><td>739</td><td>774</td><td>791</td><td>774</td></tr> <tr><td>65</td><td>513</td><td>543</td><td>546</td><td>543</td></tr> <tr><td>75</td><td>287</td><td>293</td><td>291</td><td>293</td></tr> <tr><td>85</td><td>86</td><td>74</td><td>78</td><td>74</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1440	1440	1440	1440	5	1418	1435	1445	1435	15	1371	1394	1402	1394	25	1273	1295	1308	1295	35	1129	1157	1173	1157	45	948	981	1000	981	55	739	774	791	774	65	513	543	546	543	75	287	293	291	293	85	86	74	78	74	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>1126</td><td>26.7</td></tr> <tr><td>0-40</td><td>1849</td><td>43.8</td></tr> <tr><td>0-60</td><td>3292</td><td>78.0</td></tr> <tr><td>0-90</td><td>4222</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1126	26.7	0-40	1849	43.8	0-60	3292	78.0	0-90	4222	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>6293</td><td>6508</td><td>6636</td></tr> <tr><td>55</td><td>6049</td><td>6329</td><td>6472</td></tr> <tr><td>65</td><td>5690</td><td>6033</td><td>6057</td></tr> <tr><td>75</td><td>5210</td><td>5303</td><td>5279</td></tr> <tr><td>85</td><td>4646</td><td>3957</td><td>4183</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	6293	6508	6636	55	6049	6329	6472	65	5690	6033	6057	75	5210	5303	5279	85	4646	3957	4183																																																	
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25	1273	1295	1308	1295																																																																																																																																																		
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Comparative yearly lighting energy cost per 1000 lumens – \$1.97 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) <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>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></td><td>1</td><td>108</td><td>104</td><td>98</td><td>106</td><td>101</td><td>96</td><td>96</td><td>93</td></tr> <tr><td></td><td>2</td><td>97</td><td>90</td><td>82</td><td>95</td><td>88</td><td>81</td><td>84</td><td>79</td></tr> <tr><td></td><td>3</td><td>90</td><td>79</td><td>70</td><td>86</td><td>77</td><td>69</td><td>73</td><td>68</td></tr> <tr><td></td><td>4</td><td>81</td><td>69</td><td>60</td><td>80</td><td>68</td><td>59</td><td>66</td><td>58</td></tr> <tr><td></td><td>5</td><td>75</td><td>61</td><td>53</td><td>72</td><td>60</td><td>53</td><td>58</td><td>51</td></tr> <tr><td></td><td>6</td><td>69</td><td>56</td><td>46</td><td>68</td><td>55</td><td>46</td><td>53</td><td>46</td></tr> <tr><td></td><td>7</td><td>64</td><td>51</td><td>41</td><td>63</td><td>50</td><td>41</td><td>47</td><td>40</td></tr> <tr><td></td><td>8</td><td>59</td><td>46</td><td>38</td><td>57</td><td>46</td><td>36</td><td>44</td><td>36</td></tr> <tr><td></td><td>9</td><td>56</td><td>41</td><td>34</td><td>55</td><td>41</td><td>34</td><td>40</td><td>33</td></tr> <tr><td></td><td>10</td><td>52</td><td>39</td><td>30</td><td>51</td><td>39</td><td>30</td><td>38</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	108	104	98	106	101	96	96	93		2	97	90	82	95	88	81	84	79		3	90	79	70	86	77	69	73	68		4	81	69	60	80	68	59	66	58		5	75	61	53	72	60	53	58	51		6	69	56	46	68	55	46	53	46		7	64	51	41	63	50	41	47	40		8	59	46	38	57	46	36	44	36		9	56	41	34	55	41	34	40	33		10	52	39	30	51	39	30	38	30
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1x4 DualLED, 4700 nominal delivered lumens

LER – 120

Catalog No. 1DLG47L840-4-D-UNV-DIM Test No. 35436 S/MH 1.3 Lamp Type LED Lumens/Lamp 4706 Input Watts 39.1	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>1606</td><td>1606</td><td>1606</td><td>1606</td></tr> <tr><td>5</td><td>1581</td><td>1603</td><td>1611</td><td>1603</td></tr> <tr><td>15</td><td>1528</td><td>1556</td><td>1564</td><td>1556</td></tr> <tr><td>25</td><td>1419</td><td>1447</td><td>1459</td><td>1447</td></tr> <tr><td>35</td><td>1257</td><td>1292</td><td>1307</td><td>1292</td></tr> <tr><td>45</td><td>1056</td><td>1096</td><td>1114</td><td>1096</td></tr> <tr><td>55</td><td>823</td><td>865</td><td>881</td><td>865</td></tr> <tr><td>65</td><td>571</td><td>606</td><td>606</td><td>606</td></tr> <tr><td>75</td><td>319</td><td>325</td><td>324</td><td>325</td></tr> <tr><td>85</td><td>96</td><td>81</td><td>86</td><td>81</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	1606	1606	1606	1606	5	1581	1603	1611	1603	15	1528	1556	1564	1556	25	1419	1447	1459	1447	35	1257	1292	1307	1292	45	1056	1096	1114	1096	55	823	865	881	865	65	571	606	606	606	75	319	325	324	325	85	96	81	86	81	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>1256</td><td>26.7</td></tr> <tr><td>0-40</td><td>2062</td><td>43.8</td></tr> <tr><td>0-60</td><td>3671</td><td>78.0</td></tr> <tr><td>0-90</td><td>4708</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1256	26.7	0-40	2062	43.8	0-60	3671	78.0	0-90	4708	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>7007</td><td>7274</td><td>7394</td></tr> <tr><td>55</td><td>6734</td><td>7075</td><td>7205</td></tr> <tr><td>65</td><td>6335</td><td>6728</td><td>6732</td></tr> <tr><td>75</td><td>5785</td><td>5887</td><td>5878</td></tr> <tr><td>85</td><td>5141</td><td>4345</td><td>4603</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	7007	7274	7394	55	6734	7075	7205	65	6335	6728	6732	75	5785	5887	5878	85	5141	4345	4603																																																	
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75	5785	5887	5878																																																																																																																																																			
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Comparative yearly lighting energy cost per 1000 lumens – \$2.00 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) <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>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></td><td>1</td><td>108</td><td>104</td><td>98</td><td>106</td><td>101</td><td>96</td><td>96</td><td>93</td></tr> <tr><td></td><td>2</td><td>97</td><td>90</td><td>82</td><td>95</td><td>88</td><td>81</td><td>84</td><td>79</td></tr> <tr><td></td><td>3</td><td>90</td><td>79</td><td>70</td><td>86</td><td>77</td><td>69</td><td>73</td><td>68</td></tr> <tr><td></td><td>4</td><td>81</td><td>69</td><td>60</td><td>80</td><td>68</td><td>59</td><td>66</td><td>58</td></tr> <tr><td></td><td>5</td><td>75</td><td>61</td><td>53</td><td>72</td><td>60</td><td>53</td><td>58</td><td>51</td></tr> <tr><td></td><td>6</td><td>69</td><td>56</td><td>46</td><td>68</td><td>55</td><td>46</td><td>53</td><td>46</td></tr> <tr><td></td><td>7</td><td>64</td><td>51</td><td>41</td><td>63</td><td>50</td><td>41</td><td>47</td><td>40</td></tr> <tr><td></td><td>8</td><td>59</td><td>46</td><td>38</td><td>57</td><td>46</td><td>36</td><td>44</td><td>36</td></tr> <tr><td></td><td>9</td><td>56</td><td>41</td><td>34</td><td>55</td><td>41</td><td>34</td><td>40</td><td>33</td></tr> <tr><td></td><td>10</td><td>52</td><td>39</td><td>30</td><td>51</td><td>39</td><td>30</td><td>38</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	108	104	98	106	101	96	96	93		2	97	90	82	95	88	81	84	79		3	90	79	70	86	77	69	73	68		4	81	69	60	80	68	59	66	58		5	75	61	53	72	60	53	58	51		6	69	56	46	68	55	46	53	46		7	64	51	41	63	50	41	47	40		8	59	46	38	57	46	36	44	36		9	56	41	34	55	41	34	40	33		10	52	39	30	51	39	30	38	30
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