

**PHILIPS**  
**Day-Brite**  
**CFI**

Recessed

DuaLED 2x2

with Power over ethernet  
(PoE) technology



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

The Philips Day-Brite / Philips 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**

**Example: 2DLG25L840-2-D-LV-POE**

Width	Family	Ceiling Type	Lumens	Color	Length	Diffuser	Voltage	Driver	Options
2	DL	G	25L	-	2	D	LV	POE	
2 2'	DL DuaLED	G Grid	25L 2500 nominal delivered lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2 2'	D Diffuse (Opal)	LV Low voltage	POE Power over ethernet	SYS PoE daylight and motion detection

**Accessories (order separately)**

- **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting



# DuaLED recessed 2x2 LED

with Power over ethernet (PoE), 2500 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 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.
- 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.
- Minimum 80CRI provides excellent color rendering.
- 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.
- 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 FMA22 "F" mounting frame (sold separately.)
- Listed for use in non-insulated ceilings (Type Non-IC).

## 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

## Electrical

- Philips PoE lighting controller.
- Wire access cover provides RJ45 connection point for PoE network.
- Integral sensor options for occupancy and daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Excellent luminaire efficacy provides significant energy savings.
- PoE lighting controller 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.
- 5 year limited warranty including LED boards and PoE lighting controller. Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.
- High efficiency LEDs have a minimum 50,000 hour rated life (L70). Predicted L70 lifetime based on LED manufacturer's supplied 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.

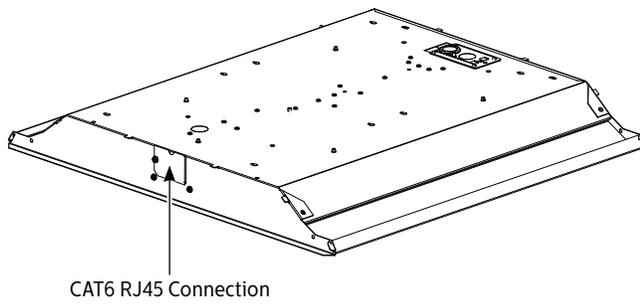
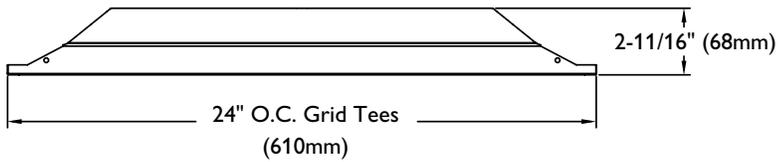
## General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lamp holders, 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.

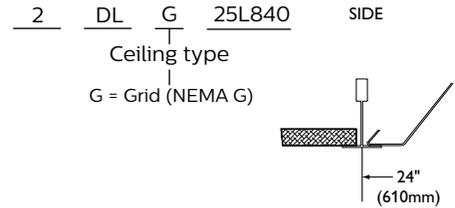
# DuaLED recessed 2x2 LED

with Power over ethernet (PoE), 2500 lumens

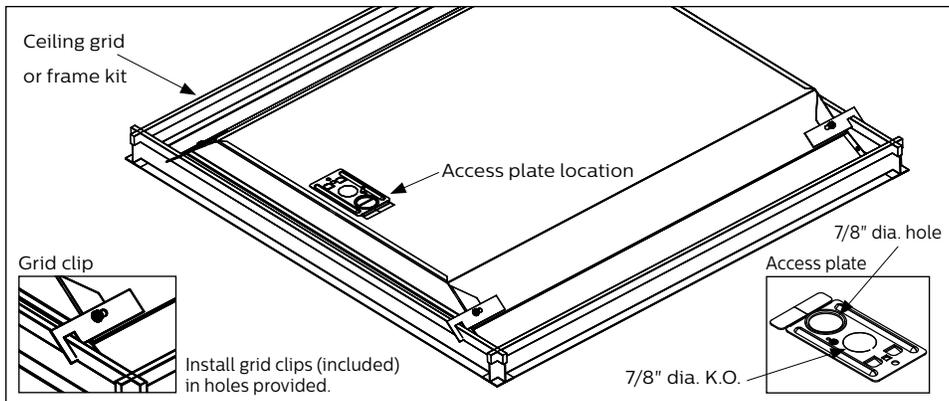
## Dimensions



## Ceiling Configuration



(NEMA Type G)  
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 24" spacing.

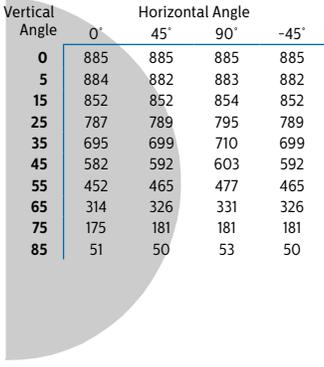


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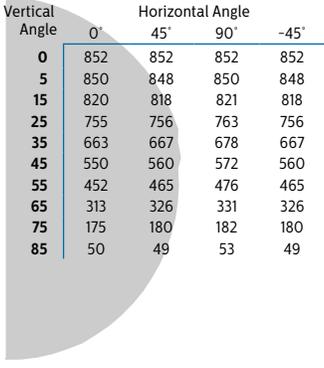
with Power over ethernet (PoE), 2500 lumens

## Photometry

### 2x2 DuaLED, 3500K, 2500 nominal delivered lumens

<b>Catalog No.</b> 2DLG25L835-2-D-LV-POE <b>Test No.</b> 34284 <b>S/MH</b> 1.3 <b>Lamp Type</b> LED <b>Lumens</b> 2567 <b>Input Watts</b> 27  Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.55</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips 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>  <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>885</td><td>885</td><td>885</td><td>885</td></tr> <tr><td>5</td><td>884</td><td>882</td><td>883</td><td>882</td></tr> <tr><td>15</td><td>852</td><td>852</td><td>854</td><td>852</td></tr> <tr><td>25</td><td>787</td><td>789</td><td>795</td><td>789</td></tr> <tr><td>35</td><td>695</td><td>699</td><td>710</td><td>699</td></tr> <tr><td>45</td><td>582</td><td>592</td><td>603</td><td>592</td></tr> <tr><td>55</td><td>452</td><td>465</td><td>477</td><td>465</td></tr> <tr><td>65</td><td>314</td><td>326</td><td>331</td><td>326</td></tr> <tr><td>75</td><td>175</td><td>181</td><td>181</td><td>181</td></tr> <tr><td>85</td><td>51</td><td>50</td><td>53</td><td>50</td></tr> </tbody> </table>	Vertical Angle	Horizontal Angle				0°	45°	90°	-45°	0	885	885	885	885	5	884	882	883	882	15	852	852	854	852	25	787	789	795	789	35	695	699	710	699	45	582	592	603	592	55	452	465	477	465	65	314	326	331	326	75	175	181	181	181	85	51	50	53	50	<b>Light Distribution</b> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminare</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>688.</td><td>26.8</td></tr> <tr><td>0-40</td><td>1127.</td><td>43.9</td></tr> <tr><td>0-60</td><td>1999.</td><td>77.8</td></tr> <tr><td>0-90</td><td>2567.</td><td>100.0</td></tr> <tr><td>0-180</td><td>2568.</td><td>100.0</td></tr> </tbody> </table>	Degrees	Lumens	% Luminare	0-30	688.	26.8	0-40	1127.	43.9	0-60	1999.	77.8	0-90	2567.	100.0	0-180	2568.	100.0	<b>Average Luminance</b> <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>2986.</td><td>3039.</td><td>3096.</td></tr> <tr><td>55</td><td>2864.</td><td>2943.</td><td>3017.</td></tr> <tr><td>65</td><td>2695.</td><td>2802.</td><td>2846.</td></tr> <tr><td>75</td><td>2461.</td><td>2533.</td><td>2542.</td></tr> <tr><td>85</td><td>2121.</td><td>2071.</td><td>2204.</td></tr> </tbody> </table>	Angle	End	45°	Cross	45	2986.	3039.	3096.	55	2864.	2943.	3017.	65	2695.	2802.	2846.	75	2461.	2533.	2542.	85	2121.	2071.	2204.																																		
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### 2x2 DuaLED, 4000K, 2500 nominal delivered lumens

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	<b>Coefficients of Utilization</b> <b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b> <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 colspan="9">Zonal cavity method - Effective floor reflectance = 20%</td> </tr> <tr> <td>RCR</td> <td colspan="9">Zonal cavity method - Effective floor reflectance = 20%</td> </tr> <tr><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>103</td><td>98</td><td>106</td><td>101</td><td>96</td><td>96</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>83</td><td>79</td></tr> <tr><td>3</td><td>89</td><td>79</td><td>69</td><td>86</td><td>77</td><td>68</td><td>73</td><td>67</td></tr> <tr><td>4</td><td>81</td><td>68</td><td>59</td><td>79</td><td>68</td><td>59</td><td>66</td><td>57</td></tr> <tr><td>5</td><td>75</td><td>61</td><td>53</td><td>72</td><td>60</td><td>52</td><td>58</td><td>51</td></tr> <tr><td>6</td><td>68</td><td>56</td><td>46</td><td>67</td><td>55</td><td>46</td><td>53</td><td>45</td></tr> <tr><td>7</td><td>64</td><td>50</td><td>41</td><td>61</td><td>50</td><td>40</td><td>47</td><td>40</td></tr> <tr><td>8</td><td>59</td><td>46</td><td>36</td><td>57</td><td>45</td><td>36</td><td>44</td><td>35</td></tr> <tr><td>9</td><td>56</td><td>41</td><td>34</td><td>54</td><td>41</td><td>34</td><td>40</td><td>33</td></tr> <tr><td>10</td><td>52</td><td>39</td><td>30</td><td>51</td><td>38</td><td>30</td><td>36</td><td>29</td></tr> </tbody> </table>	Ceiling (pcc)	80%			70%			50%			70	50	30	70	50	30	50	30	Wall (pw)	Zonal cavity method - Effective floor reflectance = 20%									RCR	Zonal cavity method - Effective floor reflectance = 20%									0	118	118	118	115	115	115	111	111	1	108	103	98	106	101	96	96	93	2	97	90	82	95	88	81	83	79	3	89	79	69	86	77	68	73	67	4	81	68	59	79	68	59	66	57	5	75	61	53	72	60	52	58	51	6	68	56	46	67	55	46	53	45	7	64	50	41	61	50	40	47	40	8	59	46	36	57	45	36	44	35	9	56	41	34	54	41	34	40	33	10	52	39	30	51	38	30	36	29
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