

**HBLED**  
High Bay LED Luminaire

**Metalux**



**EATON**  
*Powering Business Worldwide*

HBLEDLD418WUNVL840CD2MSU



Innovation you can rely on™

Open Configuration, Narrow Distribution

The **HBLED** is the lighting solution for a wide variety of applications and mounting heights. Precision-designed optics, multiple distributions, and a choice of lumen outputs and color temperatures make the energy-efficient HBLED the ideal solution for industrial, commercial and other high bay applications.

## Performance

- Five lumen package options (12,000, 18,000, 24,000, 30,000, 36,000 and 48,000)
- Two Correlated Temperatures (4,000K and 5,000K)
- 85 CRI
- L84 at > 60,000 hours (at 55°C)
- High efficacy up to 129 lm/W
- Tool-less driver access for easy maintenance
- Precision optics – narrow and wide distribution
- Optional 0-10V dimming driver (15% - 100%)
- Multiple lens and wireguard options
- Five-year warranty

## Features and Benefits

- **LED Platform**  
The proprietary low-power, low-brightness LED module assembly offers exceptional optical performance.
- **Controllable**  
Offers control flexibility and easy integration with optional 0-10V continuous dimming driver, providing additional energy savings when utilizing sensors. Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.
- **Mounting**  
Choose from a variety of mounting methods, including pendant, chain, toggle, hook and loop.

HB LED Performance					
Catalog Number	Description	Delivered Lumens	Input Watts	Efficacy lm/W	
HBLED-LD4-12-W-UNV-L850-ED1-U	Wide Distribution, 12,000 Lumens, UNV, 5000K, fixed output	12,505	104	120	
HBLED-LD4-12-N-UNV-L850-ED1-U	Narrow Distribution, 12,000 Lumens, UNV, 5000K, fixed output	12,156	104	117	
HBLED-LD4-18-W-UNV-L850-ED2-U	Wide Distribution, 18,000 Lumens, UNV, 5000K, fixed output	19,358	152	127	
HBLED-LD4-18-N-UNV-L850-ED2-U	Narrow Distribution, 18,000 Lumens, UNV, 5000K, fixed output	18,818	152	124	
HBLED-LD4-24-W-UNV-L850-ED2-U	Wide Distribution, 24,000 Lumens, UNV, 5000K, fixed output	24,002	203	118	
HBLED-LD4-24-N-UNV-L850-ED2-U	Narrow Distribution, 24,000 Lumens, UNV, 5000K, fixed output	23,332	203	115	
HBLED-LD4-30-W-UNV-L850-ED3-U	Wide Distribution, 30,000 Lumens, UNV, 5000K, fixed output	29,302	228	129	
HBLED-LD4-30-N-UNV-L850-ED3-U	Narrow Distribution, 30,000 Lumens, UNV, 5000K, fixed output	28,483	228	125	
HBLED-LD4-36-W-UNV-L850-ED3-U	Wide Distribution, 36,000 Lumens, UNV, 5000K, fixed output	35,944	307	117	
HBLED-LD4-36-N-UNV-L850-ED3-U	Narrow Distribution, 36,000 Lumens, UNV, 5000K, fixed output	34,941	307	114	
HBLED-LD4-48-N-UNV-L850-ED4-U	Narrow Distribution, 48,000 Lumens, UNV, 5000K, fixed output	46,312	401	115	
HBLED-LD4-48-W-UNV-L850-ED4-U	Wide Distribution, 48,000 Lumens, UNV, 5000K, fixed output	48,108	402	120	

## Compliance

- cULus listed for damp location
- 55° ambient rating
- RoHS compliant
- DLC qualified



# Shielding Options

Door frame and lens assembly are available for more demanding environments.



# Mounting Accessories

Suited for suspension mounting with optional wire hook and chain set or cable mounting. Single monopoint mounting also available with SPM tong hanger.



# Ordering Information

Sample Number: HBLEDD-LD4-18-W-UNV-L850-ED2-U Includes V Hangers for rapid installation

Series <sup>14</sup>	Lamp Type	LED Lumen Output	Distribution	Shielding	Voltage <sup>1</sup>	Lamps
<b>HBLEDD=LED</b> High Bay Linear	<b>LD4=LED 4.0</b>	<b>12=12,000 Lumens</b> <b>18=18,000 Lumens</b> <b>24=24,000 Lumens</b> <b>30=30,000 Lumens</b> <b>36=36,000 Lumens</b> <b>48=48,000 Lumens</b> <sup>15</sup> <b>48HT=48,000 Lumens,</b> 50°C Ambient <sup>16</sup>	<b>N=Narrow</b> (Aisle) <b>W=Wide</b> (General)	<b>[Blank]=None</b> <b>A=Prismatic Acrylic Lens and Door Frame</b> <sup>8, 9, 11</sup> <b>AI=Prismatic Acrylic Lens Insert</b> <sup>8, 9</sup> <b>A/WG=Acrylic Lens, Wireguard and Door Frame</b> <sup>8, 9, 11</sup> <b>CL=Clear Acrylic Lens and Door Frame</b> <sup>8, 11</sup> <b>CLI=Clear Acrylic Lens Insert</b> <sup>8</sup> <b>CL/WG=Clear Lens, Wireguard and Door Frame</b> <sup>8, 11</sup> <b>FLI=Frosted Lens Insert</b> <sup>8, 9</sup> <b>WG=Wireguard</b> <sup>12</sup> <b>POLY125=Polycarbonate Lens and Door Frame</b> <sup>8, 11</sup> <b>POLY125/WG=Polycarbonate Lens, Wireguard and Door Frame</b> <sup>8, 11</sup>	<b>120V=120 Volt</b> <b>277V=277 Volt</b> <b>347V=347 Volt</b> <sup>6, 10</sup> <b>480V=480 Volt</b> <sup>6, 10</sup> <b>UNC=Universal</b> 347/480 Voltage <sup>6</sup> <b>UNV=Universal</b> 120-277 Voltage	<b>Lamps Installed</b> <b>L840=4000K</b> <b>L850=5000K</b>
Options <sup>5</sup>	Driver Type	Number of Drivers	Options	Packaging	Accessories (Order Separately)	
<b>Emergency</b> <b>EL7W=7-watt,</b> 120V-277V emergency battery pack installed <sup>4</sup> <b>EL14W=14-watt</b> 120V-277V emergency battery pack installed <sup>4</sup>	<b>CD=0-10V</b> Dimming Driver <sup>7, 8</sup> <b>ED=Electronic</b> Fixed Output Driver <sup>7</sup> <b>5LTD=Fifth Light</b> DALI <sup>7, 8, 13</sup>	<b>1=1 Driver</b> (12,000 Lumen Version) <b>2=2 Drivers</b> (18,000 and 24,000 Lumen Versions) <b>3=3 Drivers</b> (30,000 and 36,000 Lumen Versions) <b>4=4 Drivers</b> (48,000 Lumen Version)	<b>MP=Modular Power Receptacle</b> (Used for All Cord or Cord and Plug Options) <sup>3</sup> <b>Motion Sensors</b> <b>MS=360° or 180° Motion Sensor Installed</b> (specify voltage) <sup>2</sup>	<b>PALC=Job</b> Pack in Carton <b>U=Unit Pack</b>	<b>FH-1=Fixture Hook</b> <b>FL-1=Fixture Loop</b> <b>HBL-SPM=Single Monopoint Hanger with Hub</b> <b>Y-TOGGLE=Y Mounting Toggle, #2 Cable</b> (Specify 10' or 30') <b>HBAYC-CHAIN/SET/U=(2) V-Hook Hangers, 36" Chain Sets</b> with S-Hooks <b>MPC3=3' Modular Power Cord and Plug</b> (Specify Voltage) <b>MC6=6' Modular Power Cord</b> <b>MPC6=6' Modular Power Cord and Plug</b> (Specify Voltage) <b>MMS=360° or 180° Aisle Motion Sensor with Modular</b> Power Receptacle (120-277V) <b>WG/HBL6-4FT-B=Field Installable, Wireguard for HBLEDD<sup>12</sup></b>	

**NOTES:** 1. Voltage must be specified when ordered with plugs or emergency drivers. 2. When ordering MS option, specify as UNV (for 120 or 277V), 347 or 480V. 3. Requires use of MC or MPC cord accessories, specify voltage for plugs. (MP). 4. With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. 5. EM options available in 0°C - 40°C ambient. 6. Not available with dual switching. 7. Lumen output will vary depending on dimming or fixed output drivers. Refer to IES files for delivered lumens. 8. Rated for 40°C ambient. 9. Not available with narrow distribution. 10. EM options not available with 30,000, 36,000 or 48,000 lumen configuration at 347V or 480V. 11. Not available with 36,000 or 48,000 lumen configuration. 12. Not available with lens insert options AI and CL or doorframe options A and CL. 13. 5LTD available with 12,000, 18,000 and 30,000 lumen packages only. 14. DesignLights Consortium™ Qualified and classified for DLC Standard (some models are not DLC qualified), refer to www.designlights.org for details. 15. 40°C max. ambient rating. 16. HT lumen package not available with emergency, dimming, or lensed options.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

# Photometrics

HBLED-LD4-18-N-UNV-L850-ED2-U		HBLED-LD4-24-W-UNV-L850-ED2-U																																																																																																																																																																																																																																																																																																																																																				
<p>Fixed Output Driver Linear LED 5000K Spacing criterion: (II) 1.28 x mounting height, (L) 0.72 x mounting height Lumens = 18818 Input Watts = 151.9W Efficacy = 123.9 lm/W Test: HBLEDD-LD4-18-N-L850-ED2-U.IES</p>	<p><b>Coefficients of Utilization</b></p> <table border="1"> <thead> <tr> <th rowspan="2">rc</th> <th colspan="6">Effective floor cavity reflectance 20%</th> </tr> <tr> <th colspan="2">80%</th> <th colspan="2">50%</th> <th colspan="2">30%</th> </tr> <tr> <th>rw</th> <th>70</th> <th>50</th> <th>30</th> <th>10</th> <th>50</th> <th>30</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>RCR</td> <td>0</td> <td>119</td> <td>119</td> <td>119</td> <td>111</td> <td>111</td> <td>111</td> <td>106</td> <td>106</td> <td>106</td> </tr> <tr> <td></td> <td>1</td> <td>112</td> <td>108</td> <td>105</td> <td>102</td> <td>102</td> <td>100</td> <td>98</td> <td>96</td> <td>95</td> </tr> <tr> <td></td> <td>2</td> <td>105</td> <td>98</td> <td>93</td> <td>89</td> <td>93</td> <td>89</td> <td>86</td> <td>90</td> <td>87</td> <td>84</td> </tr> <tr> <td></td> <td>3</td> <td>98</td> <td>90</td> <td>84</td> <td>79</td> <td>86</td> <td>81</td> <td>77</td> <td>83</td> <td>79</td> <td>75</td> </tr> <tr> <td></td> <td>4</td> <td>92</td> <td>82</td> <td>76</td> <td>70</td> <td>79</td> <td>73</td> <td>69</td> <td>77</td> <td>72</td> <td>68</td> </tr> <tr> <td></td> <td>5</td> <td>86</td> <td>76</td> <td>69</td> <td>64</td> <td>73</td> <td>67</td> <td>63</td> <td>71</td> <td>66</td> <td>62</td> </tr> <tr> <td></td> <td>6</td> <td>81</td> <td>70</td> <td>63</td> <td>58</td> <td>68</td> <td>62</td> <td>57</td> <td>66</td> <td>61</td> <td>57</td> </tr> <tr> <td></td> <td>7</td> <td>76</td> <td>65</td> <td>58</td> <td>53</td> <td>63</td> <td>57</td> <td>53</td> <td>62</td> <td>56</td> <td>52</td> </tr> <tr> <td></td> <td>8</td> <td>72</td> <td>61</td> <td>54</td> <td>49</td> <td>59</td> <td>53</td> <td>49</td> <td>58</td> <td>52</td> <td>48</td> </tr> <tr> <td></td> <td>9</td> <td>68</td> <td>57</td> <td>50</td> <td>45</td> <td>55</td> <td>49</td> <td>45</td> <td>54</td> <td>49</td> <td>45</td> </tr> <tr> <td></td> <td>10</td> <td>64</td> <td>53</td> <td>47</td> <td>42</td> <td>52</td> <td>46</td> <td>42</td> <td>51</td> <td>46</td> <td>42</td> </tr> </tbody> </table> <p><b>Zonal Lumen Summary</b></p> <table border="1"> <thead> <tr> <th>Zone</th> <th>Lumens</th> <th>%Fixture</th> </tr> </thead> <tbody> <tr> <td>0-30</td> <td>10076</td> <td>53.5</td> </tr> <tr> <td>0-40</td> <td>13520</td> <td>71.8</td> </tr> <tr> <td>0-60</td> <td>17434</td> <td>92.6</td> </tr> <tr> <td>0-90</td> <td>18818</td> <td>100.0</td> </tr> <tr> <td>0-180</td> <td>18818</td> <td>100.0</td> </tr> </tbody> </table>	rc	Effective floor cavity reflectance 20%						80%		50%		30%		rw	70	50	30	10	50	30	10	RCR	0	119	119	119	111	111	111	106	106	106		1	112	108	105	102	102	100	98	96	95		2	105	98	93	89	93	89	86	90	87	84		3	98	90	84	79	86	81	77	83	79	75		4	92	82	76	70	79	73	69	77	72	68		5	86	76	69	64	73	67	63	71	66	62		6	81	70	63	58	68	62	57	66	61	57		7	76	65	58	53	63	57	53	62	56	52		8	72	61	54	49	59	53	49	58	52	48		9	68	57	50	45	55	49	45	54	49	45		10	64	53	47	42	52	46	42	51	46	42	Zone	Lumens	%Fixture	0-30	10076	53.5	0-40	13520	71.8	0-60	17434	92.6	0-90	18818	100.0	0-180	18818	100.0	<p>Fixed Output Driver Linear LED 5000K Spacing criterion: (III) 1.3 x mounting height, (L) 1.31 x mounting height Lumens = 24002 Input Watts = 203.0W Efficacy = 118.2 lm/W Test: HBLEDD-LD4-24-W-UNV-L850-ED2-U.IES</p>	<p><b>Coefficients of Utilization</b></p> <table border="1"> <thead> <tr> <th rowspan="2">rc</th> <th colspan="6">Effective floor cavity reflectance 20%</th> </tr> <tr> <th colspan="2">80%</th> <th colspan="2">50%</th> <th colspan="2">30%</th> </tr> <tr> <th>rw</th> <th>70</th> <th>50</th> <th>30</th> <th>10</th> <th>50</th> <th>30</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>RCR</td> <td>0</td> <td>119</td> <td>119</td> <td>119</td> <td>111</td> <td>111</td> <td>111</td> <td>106</td> <td>106</td> <td>106</td> </tr> <tr> <td></td> <td>1</td> <td>109</td> <td>105</td> <td>101</td> <td>97</td> <td>98</td> <td>95</td> <td>92</td> <td>94</td> <td>92</td> <td>90</td> </tr> <tr> <td></td> <td>2</td> <td>100</td> <td>92</td> <td>85</td> <td>79</td> <td>86</td> <td>81</td> <td>77</td> <td>83</td> <td>79</td> <td>75</td> </tr> <tr> <td></td> <td>3</td> <td>91</td> <td>81</td> <td>73</td> <td>66</td> <td>76</td> <td>70</td> <td>64</td> <td>73</td> <td>68</td> <td>63</td> </tr> <tr> <td></td> <td>4</td> <td>83</td> <td>71</td> <td>63</td> <td>56</td> <td>67</td> <td>60</td> <td>55</td> <td>65</td> <td>59</td> <td>54</td> </tr> <tr> <td></td> <td>5</td> <td>76</td> <td>64</td> <td>55</td> <td>48</td> <td>60</td> <td>53</td> <td>47</td> <td>58</td> <td>52</td> <td>47</td> </tr> <tr> <td></td> <td>6</td> <td>70</td> <td>57</td> <td>48</td> <td>42</td> <td>54</td> <td>47</td> <td>41</td> <td>53</td> <td>46</td> <td>41</td> </tr> <tr> <td></td> <td>7</td> <td>65</td> <td>52</td> <td>43</td> <td>37</td> <td>49</td> <td>42</td> <td>37</td> <td>48</td> <td>41</td> <td>36</td> </tr> <tr> <td></td> <td>8</td> <td>61</td> <td>47</td> <td>39</td> <td>33</td> <td>45</td> <td>38</td> <td>33</td> <td>44</td> <td>37</td> <td>32</td> </tr> <tr> <td></td> <td>9</td> <td>57</td> <td>43</td> <td>35</td> <td>30</td> <td>42</td> <td>34</td> <td>29</td> <td>40</td> <td>34</td> <td>29</td> </tr> <tr> <td></td> <td>10</td> <td>53</td> <td>40</td> <td>32</td> <td>27</td> <td>38</td> <td>31</td> <td>27</td> <td>37</td> <td>31</td> <td>26</td> </tr> </tbody> </table> <p><b>Zonal Lumen Summary</b></p> <table border="1"> <thead> <tr> <th>Zone</th> <th>Lumens</th> <th>%Fixture</th> </tr> </thead> <tbody> <tr> <td>0-30</td> <td>6577</td> <td>27.4</td> </tr> <tr> <td>0-40</td> <td>10894</td> <td>45.4</td> </tr> <tr> <td>0-60</td> <td>19698</td> <td>82.1</td> </tr> <tr> <td>0-90</td> <td>24002</td> <td>100.0</td> </tr> <tr> <td>0-180</td> <td>24002</td> <td>100.0</td> </tr> </tbody> </table>	rc	Effective floor cavity reflectance 20%						80%		50%		30%		rw	70	50	30	10	50	30	10	RCR	0	119	119	119	111	111	111	106	106	106		1	109	105	101	97	98	95	92	94	92	90		2	100	92	85	79	86	81	77	83	79	75		3	91	81	73	66	76	70	64	73	68	63		4	83	71	63	56	67	60	55	65	59	54		5	76	64	55	48	60	53	47	58	52	47		6	70	57	48	42	54	47	41	53	46	41		7	65	52	43	37	49	42	37	48	41	36		8	61	47	39	33	45	38	33	44	37	32		9	57	43	35	30	42	34	29	40	34	29		10	53	40	32	27	38	31	27	37	31	26	Zone	Lumens	%Fixture	0-30	6577	27.4	0-40	10894	45.4	0-60	19698	82.1	0-90	24002	100.0	0-180	24002	100.0
rc	Effective floor cavity reflectance 20%																																																																																																																																																																																																																																																																																																																																																					
	80%		50%		30%																																																																																																																																																																																																																																																																																																																																																	
rw	70	50	30	10	50	30	10																																																																																																																																																																																																																																																																																																																																															
RCR	0	119	119	119	111	111	111	106	106	106																																																																																																																																																																																																																																																																																																																																												
	1	112	108	105	102	102	100	98	96	95																																																																																																																																																																																																																																																																																																																																												
	2	105	98	93	89	93	89	86	90	87	84																																																																																																																																																																																																																																																																																																																																											
	3	98	90	84	79	86	81	77	83	79	75																																																																																																																																																																																																																																																																																																																																											
	4	92	82	76	70	79	73	69	77	72	68																																																																																																																																																																																																																																																																																																																																											
	5	86	76	69	64	73	67	63	71	66	62																																																																																																																																																																																																																																																																																																																																											
	6	81	70	63	58	68	62	57	66	61	57																																																																																																																																																																																																																																																																																																																																											
	7	76	65	58	53	63	57	53	62	56	52																																																																																																																																																																																																																																																																																																																																											
	8	72	61	54	49	59	53	49	58	52	48																																																																																																																																																																																																																																																																																																																																											
	9	68	57	50	45	55	49	45	54	49	45																																																																																																																																																																																																																																																																																																																																											
	10	64	53	47	42	52	46	42	51	46	42																																																																																																																																																																																																																																																																																																																																											
Zone	Lumens	%Fixture																																																																																																																																																																																																																																																																																																																																																				
0-30	10076	53.5																																																																																																																																																																																																																																																																																																																																																				
0-40	13520	71.8																																																																																																																																																																																																																																																																																																																																																				
0-60	17434	92.6																																																																																																																																																																																																																																																																																																																																																				
0-90	18818	100.0																																																																																																																																																																																																																																																																																																																																																				
0-180	18818	100.0																																																																																																																																																																																																																																																																																																																																																				
rc	Effective floor cavity reflectance 20%																																																																																																																																																																																																																																																																																																																																																					
	80%		50%		30%																																																																																																																																																																																																																																																																																																																																																	
rw	70	50	30	10	50	30	10																																																																																																																																																																																																																																																																																																																																															
RCR	0	119	119	119	111	111	111	106	106	106																																																																																																																																																																																																																																																																																																																																												
	1	109	105	101	97	98	95	92	94	92	90																																																																																																																																																																																																																																																																																																																																											
	2	100	92	85	79	86	81	77	83	79	75																																																																																																																																																																																																																																																																																																																																											
	3	91	81	73	66	76	70	64	73	68	63																																																																																																																																																																																																																																																																																																																																											
	4	83	71	63	56	67	60	55	65	59	54																																																																																																																																																																																																																																																																																																																																											
	5	76	64	55	48	60	53	47	58	52	47																																																																																																																																																																																																																																																																																																																																											
	6	70	57	48	42	54	47	41	53	46	41																																																																																																																																																																																																																																																																																																																																											
	7	65	52	43	37	49	42	37	48	41	36																																																																																																																																																																																																																																																																																																																																											
	8	61	47	39	33	45	38	33	44	37	32																																																																																																																																																																																																																																																																																																																																											
	9	57	43	35	30	42	34	29	40	34	29																																																																																																																																																																																																																																																																																																																																											
	10	53	40	32	27	38	31	27	37	31	26																																																																																																																																																																																																																																																																																																																																											
Zone	Lumens	%Fixture																																																																																																																																																																																																																																																																																																																																																				
0-30	6577	27.4																																																																																																																																																																																																																																																																																																																																																				
0-40	10894	45.4																																																																																																																																																																																																																																																																																																																																																				
0-60	19698	82.1																																																																																																																																																																																																																																																																																																																																																				
0-90	24002	100.0																																																																																																																																																																																																																																																																																																																																																				
0-180	24002	100.0																																																																																																																																																																																																																																																																																																																																																				

**Our Lighting  
Product Lines**

Halo  
Halo Commercial  
Portfolio  
Iris  
RSA  
Metalux  
Corelite  
Neo-Ray  
Fail-Safe  
MWS  
Ametrix  
Shaper  
io  
Lumark  
McGraw-Edison  
Invue  
Lumière  
Streetworks  
AtLite  
Sure-Lites

**Our Controls  
Product Lines**

Greengate  
iLumin  
Zero 88  
Fifth Light Technology  
iLight (International Only)

**Eaton**  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
[www.eaton.com/lighting](http://www.eaton.com/lighting)

**Canada Sales**  
5925 McLaughlin Road  
Mississauga, Ontario L5R 1B8  
P: 905-501-3000  
F: 905-501-3172

© 2015 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. ADF142876  
October 13, 2015

Eaton is a registered trademark.

All other trademarks are property  
of their respective owners.

Product availability, specifications,  
and compliances are subject to  
change without notice.