

HBLED
High Bay LED Luminaire

Metalux



EATON

Powering Business Worldwide



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	

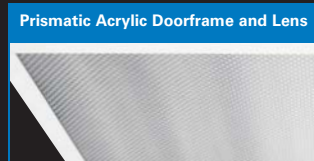
Compliance

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

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		
	Coefficients of Utilization			Coefficients of Utilization	
	rc	Effective floor cavity reflectance 20%		rc	Effective floor cavity reflectance 20%
rw	80% 50% 30%	70 50 30 10 50 30 10	rw	80% 50% 30%	70 50 30 10 50 30 10
RCR			RCR		
0	119 119 119 119	111 111 111 106 106 106	0	119 119 119 119	111 111 111 106 106 106
1	112 108 105 102	102 100 98 98 96 95	1	109 105 101 97	98 95 92 94 92 90
2	105 98 93 89	93 89 86 90 87 84	2	100 92 85 79	86 81 77 83 79 75
3	98 90 84 79	86 81 77 83 79 75	3	91 81 73 66	76 70 64 73 68 63
4	92 82 76 70	79 73 69 77 72 68	4	83 71 63 56	67 60 55 65 59 54
5	86 76 69 64	73 67 63 71 66 62	5	76 64 55 48	60 53 47 58 52 47
6	81 70 63 58	68 62 57 66 61 57	6	70 57 48 42	54 47 41 53 46 41
7	76 65 58 53	63 57 53 62 56 52	7	65 52 43 37	49 42 37 48 41 36
8	72 61 54 49	59 53 49 58 52 48	8	61 47 39 33	45 38 33 44 37 32
9	68 57 50 45	55 49 45 54 49 45	9	57 43 35 30	42 34 29 40 34 29
10	64 53 47 42	52 46 42 51 46 42	10	53 40 32 27	38 31 27 37 31 26
Zonal Lumen Summary			Zonal Lumen Summary		
Zone	Lumens	%Fixture	Zone	Lumens	%Fixture
0-30	10076	53.5	0-30	6577	27.4
0-40	13520	71.8	0-40	10894	45.4
0-60	17434	92.6	0-60	19698	82.1
0-90	18818	100.0	0-90	24002	100.0
0-180	18818	100.0	0-180	24002	100.0
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			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		

**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)

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Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

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5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
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Printed in USA
Publication No. ADF142876
October 13, 2015

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