

**HBLEd Series**  
High Bay LED Luminaires



**Cooper Lighting**  
by **EAT•N**





Open Configuration

The HB LED 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 HB LED the ideal solution for industrial, commercial and other high bay applications.

## Performance

- Four lumen package options (10,000, 18,000, 24,000, 30,000)
- Two Correlated Temperatures (4,000K and 5000K)
- 85 CRI
- L70 at > 60,000 hours (at 55°C)
- High efficacy with 100+ 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.
- **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 lp/W
HBLED-LD3-10-W-UNV-L850-ED1-U	Wide distribution, 10,000 Lumens, UNV, 5000K, fixed output drivers	10,818	102	106
HBLED-LD3-10-N-UNV-L850-ED1-U	Narrow distribution, 10,000 Lumens, UNV, 5000K, fixed output drivers	10,434	102	102
HBLED-LD3-18-W-UNV-L850-ED2-U	Wide distribution, 18,000 Lumens, UNV, 5000K, fixed output drivers	21,128	201	105
HBLED-LD3-18-N-UNV-L850-ED2-U	Narrow distribution, 18,000 Lumens, UNV, 5000K, fixed output drivers	20,573	201	102
HBLED-LD3-24-W-UNV-L850-ED3-U	Wide distribution, 24,000 Lumens, UNV, 5000K, fixed output drivers	25,078	225	111
HBLED-LD3-24-N-UNV-L850-ED3-U	Narrow distribution, 24,000 Lumens, UNV, 5000K, fixed output drivers	24,113	225	107
HBLED-LD3-30-W-UNV-L850-ED3-U	Wide distribution, 30,000 Lumens, UNV, 5000K, fixed output drivers	31,627	303	104
HBLED-LD3-30-N-UNV-L850-ED3-U	Narrow distribution, 30,000 Lumens, UNV, 5000K, fixed output drivers	30,579	303	101

## Compliances

- cULus listed for damp location
- 50° ambient rating
- RoHS compliant
- DLC qualified



## Shielding Options

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

Clear Acrylic Doorframe and Lens



Prismatic Acrylic Doorframe and Lens



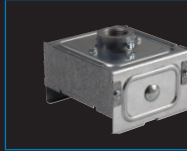
Clear Lens Inserts



## 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.

HBL-SPM=Single Monopoint Hanger w/Hub (Galvanized)



FH-1=2-1/2" Fixture Hook



FL-1=2-1/2" Fixture Loop



RH-1=Retrofit Hanger



HBAYC-CHAIN/SET/U= Hook Style Mounting Chain Set



Y-Toggle=Mounting Toggle and Cable



# Ordering Information

Sample Number: HBLED-LD3-18-W-UNV-L850-ED2-U

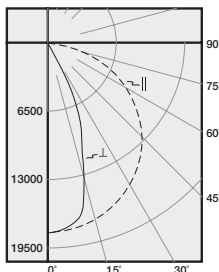
Includes V Hangers for rapid installation

Series <sup>9</sup>	Lamp Type	LED Lumen Output	Distribution	Shielding	Voltage <sup>1</sup>
HBLED=LED High Bay Linear	LD3=LED 3.0	10=10,000 Lumens 18=1800 Lumens 24=24,000 Lumens <sup>7</sup> 30=30,000 Lumens <sup>13</sup>	N=Narrow (Aisle) W=Wide (General)	[Blank]=None A=Prismatic Acrylic Lens and Door Frame <sup>8, 11</sup> AI=Prismatic Acrylic Lens Insert <sup>8</sup> A/WG=Acrylic Lens, Wireguard and Door Frame <sup>8, 11</sup> CL=Clear Acrylic Lens and Door Frame <sup>8, 11</sup> CLI=Clear Acrylic Lens Insert <sup>8</sup> CL/WG=Clear Lens, Wireguard and Door Frame <sup>8, 11</sup> WG=Wireguard	120V=120 Volt 277V=277 Volt 347V=347 Volt <sup>6, 10</sup> 480V=480 Volt <sup>6, 10</sup> UNC=Universal 347/480 Voltage <sup>6</sup> UNV=Universal 120/277 Voltage
Options <sup>5</sup>	Driver Type	Number of Drivers	Options	Packaging	Accessories (Order Separately)
<b>Emergency</b> EL=Emergency Installed, 700 Lumens <sup>1</sup> EL14=Emergency Installed, 1400 Lumens <sup>1, 4</sup>  <b>Lamps Installed</b> L840=4000K L850=5000K	CD=0-10V Dimming Driver ED=Electronic Fixed Output Driver 5LTD=Dali Fifth Light <sup>7, 9</sup>	1=1 Driver (10,000 Lumen Version) 2=2 Drivers (18,000 Lumen Version) 3=3 Drivers (24,000 and 30,000 Lumen Versions)	MP=Modular Power Receptacle (Used for All Cord or Cord and Plug Options) <sup>3</sup> MS=360° or 180° Motion Sensor Installed (120V through 277V) <sup>2</sup>	PALC=Job Pack in Carton U=Unit Pack	FH-1=Fixture Hook FL-1=Fixture Loop HBL-SPM=Single Monopoint Hanger with Hub RH-1=Retrofit Hanger 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) MC6=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 HBLED <sup>12</sup>

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. Not available in 347V. 5. EM options limited to 40°C ambient. 6. Not available with dual switching. 7. Lumens output will vary depending on dimming or fixed output drivers. Refer to IES files for delivered lumens. 8. Rated for 40°C ambient. 9. DesignLights™ Consortium Qualified (some models are not DLC qualified). Refer to www.designlights.org Qualified Products List under Family Models for a complete listing. 10. EM options not available with 30,000 lumen configuration at 347V or 480V. 11. Not available with 30,000 lumen configuration. 12. Not available with lens insert options AI and CL. 13. Not available with 5LTD driver option.

## Photometrics

HBLED-LD3-18-N-UNV-L850-ED2-U



Fixed Output Driver  
Linear LED 5000K  
Spacing criterion: (II) 1.28 x mounting height, (L) 1.66 x mounting height  
Lumens = 20573  
Input Watts = 201.5W  
Efficacy = 102 LPW  
Test: HBLED-LD3-18-N-L850-ED2-U-IES

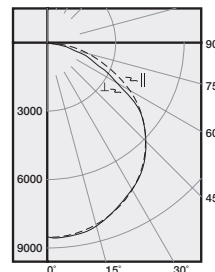
Coefficients of Utilization

rc	Effective floor cavity reflectance								
	80%			50%			20%		
rw	70	50	30	10	50	30	10	50	30
RCR	70	50	30	10	50	30	10	50	30
0	119	119	119	119	111	111	111	106	106
1	112	108	105	102	102	100	97	98	96
2	104	98	93	89	93	89	86	90	87
3	98	90	83	78	85	81	76	83	79
4	91	82	75	70	79	73	69	77	72
5	86	76	69	63	73	67	62	71	66
6	81	70	63	58	68	62	57	66	61
7	76	65	58	53	63	57	53	62	56
8	72	61	54	49	59	53	49	58	52
9	68	57	50	45	55	49	45	54	49
10	64	53	47	42	52	46	42	51	46

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	10995	53.4
0-40	14707	71.5
0-60	18975	92.2
0-90	20573	100.0
0-180	20573	100.0

HBLED-LD3-24-W-UNV-L850-ED3-U



Fixed Output Driver  
Linear LED 5000K  
Spacing criterion: (II) 1.3 x mounting height, (L) 1.32 x mounting height  
Lumens = 25078  
Input Watts = 225.4W  
Efficacy = 111 LPW  
Test: HBLED-LD3-24-W-UNV-L850-ED3-U-IES

Coefficients of Utilization

rc	Effective floor cavity reflectance								
	80%			50%			20%		
rw	70	50	30	10	50	30	10	50	30
RCR	70	50	30	10	50	30	10	50	30
0	119	119	119	119	111	111	111	106	106
1	109	105	100	97	98	95	92	94	92
2	99	91	85	79	86	81	76	83	78
3	91	80	72	66	76	69	64	73	67
4	83	71	62	55	67	60	54	65	58
5	76	63	54	48	60	52	47	58	51
6	70	57	48	41	54	46	41	52	46
7	65	51	43	36	49	41	36	48	41
8	60	47	38	32	45	37	32	44	37
9	56	43	35	29	41	34	29	40	33
10	53	40	32	26	38	31	26	37	31

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	6750	26.9
0-40	11187	44.6
0-60	20289	80.9
0-90	25079	100.0
0-180	25079	100.0

### **Eaton's Cooper Lighting Business**

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

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

### **Our Lighting Product Brands**

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 Brands**

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