

DESCRIPTION

The HBLED is an outstanding value for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs and color temperatures make the HBLED ideal for industrial, commercial, manufacturing, gymnasium and other applications that utilize traditional HID and linear fluorescent high bays. The proprietary low-power, low-brightness LED module assembly offers exceptional optical performance, equivalent to or greater than fluorescent systems, with the enhanced benefits of LED lighting, including energy savings, extended system life, a reduced carbon footprint.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Full body construction is achieved with channel and end plates, along w/stiffening brackets and side rails to help create a strong, clean finished frame for this luminaire. Side rails are standard on all HBLED products.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 4000k with a CRI ≥ 80. Projected life is 50,000 hours at 70% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. An optional 0-10V dimming driver is available.

Finish

White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

Optics

Precision designed optics deliver even illumination. General and aisle distribution ensures superior performance to key areas within an application.

Shielding

Door frame and lens assembly is optional for more demanding environments.

Options

Integral Occupancy Sensor available and provides from 600 sq. ft. up to 1250 sq. ft. of coverage in a maximum mounting height of 40' using interchangeable lens caps provided.

Mounting

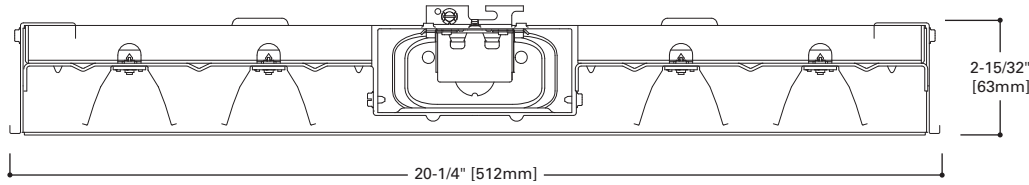
The HBLED series is ideally suited for suspension mounting with optional wire hook and chain set, or cable mounting. Single monopoint mounting is also available with SPM tong hanger.



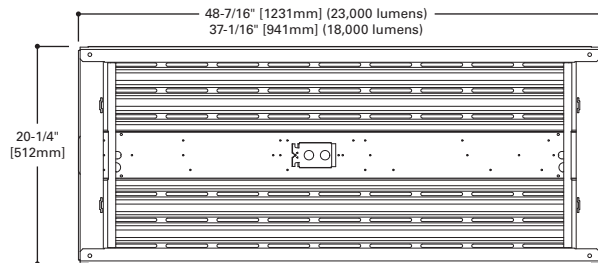
HBLED Series

20" X 48"

High Bay Efficiency Luminaire



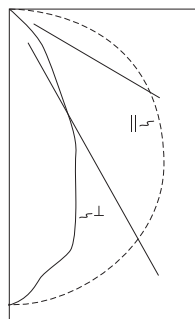
DIMENSION TOP VIEW



ENERGY DATA

Input Watts:
18 = 202

PHOTOMETRICS



HBLED-LED2-18-W-UNV-L835-CD2-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (H) 1.3 x mounting
 height, (L) 0.8 x
 mounting height
 Efficiency: 100%
 Lumens: 17384
 Input Watts: 201.9W
 Efficacy: 86 LPW
 Test Report: P22213

Candela			
Angle	Along H	45°	Across L
0	11289	11289	11289
5	11188	10890	10695
10	11110	10210	9975
15	10964	9737	9339
20	10724	9238	7430
25	10406	7874	6020
30	9991	6444	4296
35	9500	5443	2780
40	8951	3852	2254
45	8334	2629	927
50	7671	2088	57
55	6935	853	33
60	6118	62	25
65	5256	40	19
70	4351	31	17
75	3337	24	15
80	2348	19	14
85	994	16	13
90	0	0	0

Coefficients of Utilization

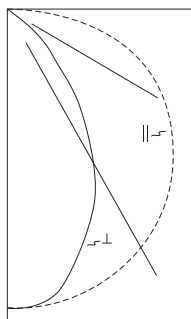
rc rw RCR	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	77	74	70	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	58	67	61	57	65	60	56	55
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	7443	42.8
0-40	11041	63.5
0-60	15709	90.4
0-90	17384	100.0
0-180	17384	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	26154	8250	2909
55	26830	3300	128
65	27598	210	100
75	28610	206	129
85	25308	407	331



HBLED-LED2-18-N-UNV-L835-CD2-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (H) 1.4 x mounting
 height, (L) 0.9 x
 mounting height
 Efficiency: 100%
 Lumens: 17273
 Input Watts: 204.8W
 Efficacy: 84 LPW
 Test Report: P22193

Candela			
Angle	Along H	45°	Across L
0	9125	9125	9125
5	9063	9098	9144
10	9042	8991	8791
15	8969	8580	7985
20	8817	7945	7231
25	8587	7269	6269
30	8289	6604	5136
35	7948	5620	4020
40	7544	4596	2764
45	7086	3561	1883
50	6603	2441	1188
55	6051	1657	173
60	5458	928	18
65	4812	81	14
70	4102	26	13
75	3187	21	12
80	2165	17	11
85	862	14	10
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	6665	38.6
0-40	10278	59.5
0-60	15487	89.7
0-90	17273	100.0
0-180	17273	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	22237	11175	5909
55	23410	6411	669
65	25266	425	74
75	27324	180	103
85	21947	356	255

Modular F-Bay Power Supply Option

Cooper Lighting's F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time saver in installation – **simply plug & power.**



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

No internal fixture access required for installation or disconnecting power

Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap

ORDERING INFORMATION

SAMPLE NUMBER: HBLEED-LD2-18-W-UNV-L850-ED2-U Includes V Hangers for rapid installation⁽⁵⁾

<p>Series HBLEED=LED High Bay Linear</p>		<p>Voltage⁽¹⁾ UNV=Universal 120/277 120V=120 Volt 277V=277 Volt</p>	<p>Driver Type CD=0-10V Dimming Driver ED=Electronic Fixed Output Driver</p>	<p>Options MP=Modular Power Receptacle (Used for all Cord or Cord and Plug options)⁽³⁾ MS=360° or 180° motion sensor installed, 120V through 277V⁽²⁾</p>	<p>Packaging U=Unit Pack PALC=Job Pack In Carton PAL=Job Pack Out of Carton</p>
<p>Lamp Type LD2=LED 2.0</p>		<p>Options EL=Emergency Installed⁽¹⁾</p>	<p>Number of Drivers 1=1 Driver 2=2 Drivers 3=3 Drivers</p>		
<p>LED Lumen Output 3' Housing 9=9000 Lumens 18=18,000 Lumens</p>		<p>Lamps Installed L840=4000K L850=5000K</p>			
<p>4' Housing 23=23,000 Lumens</p>					
<p>Distribution N=Narrow (Aisle) W=Wide (General)</p>					
<p>Shielding [Blank]=None WG=Wireguard A=Prismatic Acrylic Lens & Doorframe CL=Clear Acrylic Lens & Doorframe A/WG=Acrylic Lens, Wireguard & Doorframe CL/WG=Clear Lens, Wireguard & Doorframe</p>				<p>Accessories (order separately) HBL-SPM=Single Monopoint Hanger w/Hub RH-1=Retrofit Hanger FH-1=Fixture Hook FL-1=Fixture Loop Y-TOGGLE=Y Mounting Toggle, #2 Cable (Specify 10' or 30") HBAYC-CHAIN/SET/U=(2) V-Hook Hangers, 36" Chain Sets w/S-Hooks MPC3=3' Modular Power Cord & Plug (Specify Voltage) MC6=6' Modular Power Cord MPC6=6' Modular Power Cord & Plug (Specify Voltage) MMS=360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V)</p>	

NOTES: ⁽¹⁾Voltage must be specified when ordered with plugs, motion sensor or emergency ballasts. ⁽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.

SHIPPING INFORMATION	
Catalog No.	Wt.
HBLEED-LD2	18 lbs.