DESCRIPTION

The HBI series is an outstanding solution for high mounting height industrial or retail applications. The HBI optic has been optimized to provide maximum performance from T8 lamps. Optional uplight component is provided to enable excellent ceiling uniformity. HBI's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. The primary benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant restrike, economical dimming, and uniform brightness control. Primary applications include retail, shopping malls, light industrial, gymnasiums and recreational environments.

SPECIFICATION FEATURES

Construction

Full bodied steel housing with integral ballast channel adds strength, rigidity and structural protection for optical assembly.

Electrical

The HBI comes with a standard Class P electronic ballast and twistlock lampholders. UL/ cUL listed for high ambient environments up to 55°C (131°F) for all lamps and ballast combinations when used in open uplight configurations. Suitable for damp locations. Optional modular power receptacle meets UL2459 and NEC 410.73 and is UL/cUL rated for make and break under load from outside the luminaire to speed maintenance.

Finish

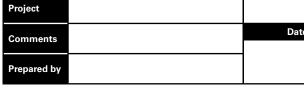
White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

Downlight/Uplight Optics

Die formed, segmented optical design optimizes performance across three distributions. Optical choices include a narrow distribution for aisles, medium distribution for assembly and loading areas, or wide distribution for general, open area lighting. An uplight option is offered to permit ceiling uniformity and allow for ample lamp and luminaire heat dissipation. Gasketed door frame & lens assembly is optional for more demanding environments.

Options

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



Mounting

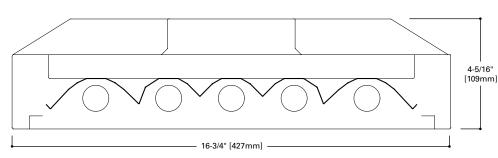
The HBI series is suited for suspension mounting with optional wire hook and chain set or cable mounting. Single monopoint mounting is available with SPM Tong Hanger.

Warrantv

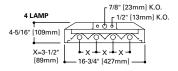
When operated in high ambient conditions, the HBI is supported by a 5 yr/55°C and 3 yr/65°C ballast warranty when used with a high power factor ballast in open, uplight configurations. To maximize your warranty, the HBI should be ordered with a high power factor ballast in ambient environments that typically exceed 40°C (102°F).

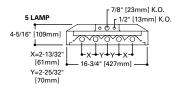
Compliance

Options to meet Buy American and other domestic preference requirements.



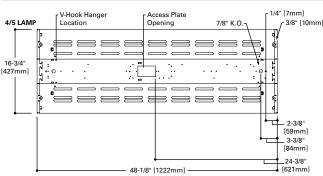
LAMP CONFIGURATIONS







DIMENSION TOP VIEW



Metalux

Catalog #	Туре
Project	
Comments	Date
Prepared by	

HBI SERIES

4 OR 5 T8 LAMPS

High-Bay Industrial Fluorescent Luminaire





ENERGY DATA

Input Watts: EB Ballast 432 (109), 532 (133)

EB/Plus Ballast 432 (145), 532 (182)

Luminaire Efficacy Rating LER = FL-83 (Narrow Beam) Catalog Number: HBI-432-N

Yearly Cost of 1000 lumens. 3000 hrs at .08 KWH = \$2.88

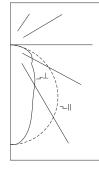
*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements

**Consult Pre Sales Technical Support

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT Safe and convenient means of disconnecting power.

PHOTOMETRICS



HBI-432-N-UNV-EB81/PLUS

Electronic Ballasts (4) 32WT8 Lamps 3100 lumens Spacing criterion: (II) 1.3 x mounting height, (\perp) 0.8 x mounting height Efficiency 90.5% Test Report: HBI432 LER =FL-83 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$2.88

Candela

Angle	Along II	45°	Across ⊥
0	5703	5703	5703
5	5674	5641	5614
10	5603	5400	5189
15	5488	4970	4478
20	5318	4382	3659
25	5102	3691	3096
30	4842	3108	2736
35	4540	2680	2429
40	4192	2348	2096
45	3808	2037	1774
50	3391	1704	1583
55	2943	1390	1505
60	2465	1200	1408
65	1978	1083	1301
70	1478	963	1082
75	982	777	864
80	514	537	545
85	135	233	195
90	0	0	0

Coefficients of Utilization

rc		80	%			70	%		1	50%			30%			10%		0%
w	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
R																		
0	108	108	108	108	105	105	105	105	101	101	101	96	96	96	92	92	92	90
1	99	94	91	87	96	92	89	86	88	86	83	85	83	80	82	80	78	76
2	90	83	77	72	88	81	76	71	78	73	69	75	71	68	72	69	66	64
3	83	73	66	60	80	72	65	60	69	64	59	67	62	58	64	60	57	55
4	76	65	58	52	74	64	57	52	62	56	51	60	55	50	58	53	50	48
5	70	59	51	45	68	58	51	45	56	50	45	54	49	44	53	48	44	42
6	65	54	46	40	64	53	45	40	51	45	40	50	44	39	48	43	39	37
7	61	49	41	36	59	48	41	36	47	40	36	46	40	35	44	39	35	33
8	57	45	38	32	55	44	37	32	43	37	32	42	36	32	41	36	32	30
9	53	42	34	30	52	41	34	29	40	34	29	39	33	29	38	33	29	27
	50	39	32	27	49	38	31	27	37	31	27	36	31	27	36	30	27	25

Zonal Lumen Summary

Luminance Data

Zone	Lumens	%Lamp	%Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	3731	30.1	33.3	45	12681	6784	5908
0-40	5653	45.6	50.4	55	12082	5707	6179
0-60	8940	72.1	79.7	65	11021	6034	7249
0-90	11219	90.5	100.0	75	8934	7069	7861
0-180	11219	90.5	100.0	85	3647	6295	5269

	HBI-532-N-UNV- EB82/PLUS-UPL Electronic Ballasts
	(5) 32WT8 Lamps 3100 lumens
	Spacing criterion: (II) 1.3 x mounting height, (\perp) 0.8 x mounting height
I / X	Efficiency 90.4%
	Test Report: HBI532- UPL LER =FL-85

Candela

Angle	Along II	45°	Across 1
0	5983	5983	5983
5	5976	5878	5795
10	5885	5603	5309
15	5748	5152	4681
20	5562	4597	4103
25	5322	4062	3697
30	5034	3613	3450
35	4703	3261	3317
40	4338	2981	3085
45	3938	2793	2781
50	3482	2497	2575
55	3011	2157	2366
60	2506	1922	2147
65	1976	1667	1931
70	1477	1421	1479
75	971	1063	1115
80	494	647	599
85	111	189	151
90	0	4	2

Coefficients of Utilization

rc		80	%			70	%			50%			30%			10%		0%
N	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
R																		
D	107	107	107	107	104	104	104	104	99	99	99	94	94	94	90	90	90	88
1	98	93	90	86	95	91	88	84	87	84	81	83	81	78	79	77	76	74
2	89	81	75	70	86	79	74	69	76	71	67	73	69	65	69	66	63	61
3	81	72	64	58	79	70	63	58	67	61	56	64	59	55	61	57	54	52
1	74	63	56	50	72	62	55	49	60	53	48	57	52	47	55	50	46	44
5	68	57	49	43	66	56	48	42	54	47	42	51	46	41	50	45	40	38
5	63	51	43	38	61	50	43	37	48	42	37	47	41	36	45	40	36	34
7	59	47	39	33	57	46	38	33	44	38	33	43	37	32	41	36	32	30
В	55	43	35	30	53	42	35	30	41	34	29	39	33	29	38	33	29	27
9	51	39	32	27	50	39	32	27	37	31	27	36	31	26	35	30	26	24
0	48	36	29	25	47	36	29	24	35	29	24	34	28	24	33	28	24	22

Yearly Cost of 1000

lumens, 3000 hrs at .08 KWH = \$2.81

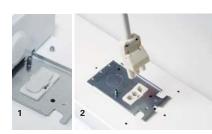
Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	3999	25.8	28.5	45	11540	8185	8149
0-40	6258	40.4	44.6	55	10877	7792	8547
0-60	10620	68.5	75.8	65	9688	8173	9468
0-90	13640	88.0	97.3	75	7774	8510	8927
0-180	14017	90.4	100.0	85	2639	4493	3590

Luminance Data

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
- 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



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

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Specifications and dimensions subject to change without notice.

ORDERING INFORMATION

SAMPLE NUMBER: HBI-532-N-UNV-EB82/PLUS-MP-UPL-U Includes V Hangers for rapid installation⁽⁶⁾

Domestic Preferences ⁽¹²⁾ [Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act Series HBI=HB Industrial No. of Lamps 4=4 Lamps 5=5 Lamps Lamp Type 32=32WT8 Lamps (48") Distribution N=Narrow Beam (Standard) M=Medium Beam W=Wide Beam Shielding Blank=None A=Prismatic Acrylic Lens & Doorframe WG=Wirequard & Doorframe	Voltage ⁽²⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage ⁽⁵⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt Options Lamps Installed L8930=T8 Lamp, 90CRI 3000K L8935=T8 Lamp, 90CRI 3500K L8950=T8 Lamp, 90CRI 3500K L8950=T8 Lamp, 90CRI 3500K HL=Add HL at end of lamp for high lumen lamps, T8 only GL=Single Element Fuse EL=Emergency Installed ⁽²⁾	Ballast Type ⁽³⁾ EB8 = T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 2 or 3 EB8 _/PLUS= T8 Electronic Instant Start. Mo. of Total Harmonic Distortion < 10% Ballast 1, 2 or 3 ER8 ==T8 Electronic Program Rapid Start. ^{(9), (11)} Total Harmonic Distortion < 10% No. of Ballast 2 or 3 ER8 _/PLUS=T8 Electronic Program Start. ^{(9), (11)} High Ballast Factor >1.15. No. of Ballast 2 or 3 ER8 _/PLUS=T8 Electronic Program Start. ^{(9), (11)} High Ballast Factor >1.15. No. of Total Harmonic Distortion < 10% Ballast 2 or 3 DIM=Consult Factory ⁽⁷⁾	Options MP=Modular Power Receptacle (Used for all Cord or Cord and Plug options) ^{(1), (10)} NUA=No uplight apertures in housing. (Cannot be combined w/UPL) UPL=Uplight Apertures MWS=Modular Wining System MS=360° or 180° Motion Se 120 through 347, or 480V ^{(4), (1)} G2=Gasketed Door (Require Lensed Doorframe) SDF=Slotted Doorframe (Re Lensed Doorframe) Accessories (order separatel HB-SPM=Single Monopoint FH-1=Fixture Loop Y-TOGGLE-=Y Mounting Tor (Specify 10' or 30', requires HBAYC-CHAIN/SET/U=(2) V 36° Chain Sets w/S-Hooks MC3=3' Modular Power Cor MC5=6' Modular Power Cor	nsor, ¹¹ s Selection of quires Selection y) ⁽¹³⁾ Hanger w/Hub ggle, #2 Cable ⁽⁸⁾ 2 per fixture) Hook Hangers, d rd & Plug
A/WG=Acrylic Lens, Wireguard & Doorf CL=Clear Acrylic Lens & Doorframe CL/WG=Clear Lens, Wireguard & Doorfr NOTES: ^(II) Requires use of MC_ or MPC_cord acce	ame ssories, specify voltage for plugs. ⁽²⁾ Voltage must be speci		MPC6=6' Modular Power Co (Specify Voltage) MMS=360° or 180° Aisle Mo Modular Power Receptacle I MDS6=6' Modular Power Co	rd & Plug tion Sensor with (120-277V) ⁽¹⁾ ord with MWS
specify UNV (for 120 or 277V), 347 or 480V. ⁽⁵⁾ 2/3 such as gymnasiums. ⁽⁷⁾ Dimming ballast must be WWS with MP, choose MP in fixture logic and the	ion in ambient environments up to 122°F (50°C) in open 1 lamp ballast configurations in EB8/PLUS only for T8 UN specified at time of order. ^{(®} Two required. ^{(®} Cannot be c n choose MWS accessory such as MDS6. ^(III) Recomme de prefixes are built to be compliant with the Buy Americi	VC versions. ⁽⁶⁾ Can be used in high abuse applications combined with Modular Power Receptacle (MP). ⁽¹⁰⁾ For	27DS18/2G06MP Connector SWG =Heavy Duty Wireguar Installation N, respectively.	

(12) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respective Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. (113) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting SolutionsRepresentative for availability and ordering information.



Quick Ship Ordering Information Sample Number: HBI432-MP-UPL-L5 Quick Ship orders ship in 5 days in order quantities not to exceed 200 pieces. Includes V Hangers for rapid installation⁽⁶⁾

der NOTE: Orders received after noon are entered on the following day.

Family HBI	Distribution Blank=Narrow Beam W=Wide Beam	Ballast Type Blank=(1) 120/277V 4 Lamp T8 Instant Start Electronic, 1.15 BF PS=(1) 120/277V 4 Lamp T8	Power Receptacle Blank=Standard Wiring to Access Plate MP=Modular Power Receptacle ⁽¹⁰⁾	Uplight Blank=No Uplight UPL=Uplight
Lamp Oty 4=4 Lamps		Electronic Program Rapid Start, 1.15 BF ⁽⁹⁾	,	Lamping Blank=No Lamps L4=Lamps Installed 85+CRI 4100K ⁽¹¹⁾
Lamp Type 32=32W T8 Lamps (48")				L5=Lamps Installed 85+CRI 5000K

NOTES: ⁽⁹⁾Recommended when utilizing Motion Sensor option. ⁽¹⁰⁾Requires use of Modular cord and plug accessories. ⁽¹¹⁾High lumen (3100 initial) lamps supplied for 4100K.

L5HL=Lamps Installed 85+CRI 5000K, High Lumen

Catalog No.	
HBI-432-UPL	
HBI-532-UPL	

Wt. 16 lbs. 16 lbs.



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