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

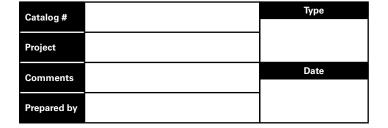
White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

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 in a maximum mounting height of 40' using interchangeable lens caps provided.



Mounting

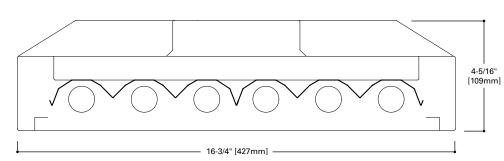
The HBI series is suited for suspension mounting with optional wire hook and chain set or cable mounting. Single monopoint mounting is available with SPM Tong Hanger.

Warranty

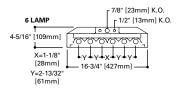
When operated in high ambient conditions, the HBI is supported by a 5 yr/55°C and 3 yr/65°C ballast warranty when used with a high power factor ballast in open, uplight configurations. To maximize your warranty, the HBI should be ordered with a high power factor ballast in ambient environments that typically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

Compliance

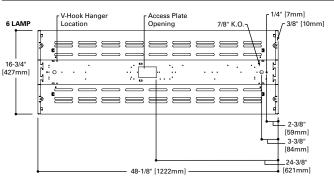
Options to meet Buy American and other domestic preference requirements.



LAMP CONFIGURATIONS



DIMENSION TOP VIEW





Metalux

HBI SERIES

6 T8 LAMPS

High-Bay Industrial Fluorescent Luminaire





ENERGY DATA

Input Watts: EB Ballast 632=169W

EB/Plus Ballast 632=218W

ER Ballast 632=169W

ER/Plus Ballast 632=218W

Luminaire Efficacy Rating LER = FL-84 (Narrow Beam) Catalog Number: HBI-632-N-UPL

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$2.85

*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.



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PHOTOMETRICS

HBI-632-N-UNV-EB82 **Electronic Ballasts** (6) 32WT8 Lamps 2850 lumens Spacing criterion: (II) 1.3 x mounting height, (⊥) 1.1 x mounting height

Candela

Electronic Ballasts				
(6) 32WT8 Lamps	Angle	Along II	45°	Across ⊥
2850 lumens	0	5981	5981	5981
2000 Iumens	5	6000	5958	5900
Spacing criterion:	10	5959	5716	5516
(II) 1.3 x mounting	15	5861	5330	4953
height, (⊥) 1.1 x	20	5702	4832	4572
0	25	5468	4418	4452
mounting height	30	5189	4191	4398
Efficiency 91.3%	35	4862	3996	4222
, Teat Dan aut	40	4491	3834	3894
Test Report:	45	4085	3563	3314
HBI632.IES	50	3649	3169	2953
LER =FL81	55	3186	2598	2657
	60	2699	2220	2469
Yearly Cost of 1000	65	2193	1914	2291
lumens, 3000 hrs at	70	1668	1693	1766
.08 KWH = \$2.95	75	1144	1291	1226
···· •	80	635	760	703
	85	194	274	227
	90	10	14	14

Coefficients of Utilization

rc		80	%			70	%		1	50%			30%			10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
CR																		
0	109	9 109	109	109	106	106	5 106	106	101	101	101	97	97	97	93	93	93	91
1	99	94	90	87	96	92	89	85	89	85	83	85	82	80	82	80	78	76
2	90	82	76	70	87	80	74	69	77	72	68	74	70	66	71	68	65	63
3	82	72	64	58	79	70	63	58	68	62	57	65	60	56	63	58	55	53
4	75	64	55	49	73	62	55	49	60	53	48	58	52	48	56	51	47	45
5	69	57	49	42	67	56	48	42	54	47	42	52	46	41	50	45	41	39
6	64	51	43	37	62	50	43	37	49	42	36	47	41	36	46	40	36	34
7	59	46	38	33	57	46	38	33	44	37	32	43	37	32	42	36	32	30
8	55	42	35	29	53	42	34	29	41	34	29	39	33	29	38	33	29	27
9	51	39	31	26	50	38	31	26	37	31	26	36	30	26	35	30	26	24
10	48	36	29	24	47	36	29	24	35	28	24	34	28	24	33	27	24	22

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	4244	24.8	27.2	45	12912	11262	10475
0-40	6874	40.2	44.0	55	12415	10124	10353
0-60	12002	70.2	76.9	65	11598	10122	12116
0-90	15606	91.3	100.0	75	9879	11148	10587
0-180	15606	91.3	100.0	85	4975	7027	5821

Luminance Data

UPL الے

HBI-632-N-UNV-EBT2- Candela Electronic Ballasts (6) 32WT8 Lamps 2850 lumens Spacing criterion: (II) 1.0 x mounting height, (⊥) 1.1 x mounting height Efficiency 94.5% Test Report: HBI632-UPL.IES LER =FL84 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$2.85

Angle	Along II	45°	Across 1
0	6096	6096	6096
5	6103	6109	6097
10	6057	6018	5933
15	5952	5772	5528
20	5776	5383	5054
25	5542	4954	4556
30	5252	4442	4306
35	4916	4027	4025
40	4529	3719	3653
45	4117	3379	3251
50	3665	2969	2984
55	3186	2542	2597
60	2686	2231	2288
65	2169	1823	2045
70	1634	1539	1588
75	1105	1147	1089
80	602	660	616
85	174	218	158
90	5	6	7

Coefficients of Utilization

		80	%			70	%		Į	50%			30%			10%		0%
7	0	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
1	12	112	112	112	109	109	109	109	103	103	103	98	98	98	93	93	93	9
1	02	98	94	90	99	95	91	88	90	87	85	86	84	82	82	80	78	7
9	93	85	79	73	90	83	77	72	79	74	70	75	71	68	72	69	66	6
6	35	75	67	61	82	73	66	60	70	64	59	67	62	57	64	60	56	5
7	8	66	58	52	75	65	57	51	62	55	50	59	54	49	57	52	48	4
7	1	59	51	45	69	58	50	44	56	49	44	54	47	43	51	46	42	4
6	6	54	45	39	64	52	45	39	50	43	38	49	42	38	47	41	37	3
6	61	49	40	35	59	48	40	34	46	39	34	44	38	33	43	37	33	3
5	57	44	37	31	55	44	36	31	42	35	30	41	35	30	39	34	30	2
5	53	41	33	28	52	40	33	28	39	32	28	38	32	27	36	31	27	2
5	50	38	30	25	49	37	30	25	36	30	25	35	29	25	34	28	25	2

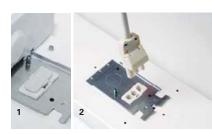
Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	4812	26.4	27.9	45	13013	10680	10276
0-40	7183	42.0	44.5	55	12415	9905	10120
0-60	12252	71.7	75.8	65	11471	9641	10815
0-90	15556	91.0	96.3	75	9542	9905	9404
0-180	16155	94.5	100.0	85	4462	5590	4052

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
- 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



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.

HBI T8

Domestic Preferences ⁽¹²⁾ [Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act Series HBI=HB Industrial No. of Lamps 6=6 Lamps Lamp Type 32=32WT8 Lamps (48") Distribution N=Narrow Beam (Standard) M=Medium Beam W=Wide Beam Shielding Blank=None	Voltage ⁽²⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage ⁽⁶⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt Options Lamps Installed L8930=T8 Lamp, 90CRI 3000K L8935=T8 Lamp, 90CRI 3000K L8941=T8 Lamp, 90CRI 3000K L8945=T8 Lamp, 90CRI 4100K L8950=T8 Lamp, 90CRI 5000K HL=Add HL at end of lamp for high lumen lamps, T8 only GL=Single Element Fuse GM=Double Element Fuse GM=Double Element Fuse	Ballast Type ⁽⁹⁾ EB8 =18 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 2 or 3 EB8 _/PLUS=18 Electronic Instant Start. No. of Total Harmonic Distortion < 10% Ballast 1, 2 or 3 ER8 _=18 Electronic Program Rapid Start. ⁽¹¹⁾ Total Harmonic Distortion < 10% No. of Ballast 2 or 3 ER8 _/PLUS=18 Electronic Program Start. ⁽¹¹⁾ Mo. of Ballast 2 or 3 ER8_/PLUS=18 Electronic Program Start. ⁽¹¹⁾ Mo. of Total Harmonic Distortion < 10% Ballast 2 or 3 EIA DIM=Consult Factory ⁽⁷⁾	Options MP=Modular Power Receptacle (Used for all Cord or Cord and Plug options) ^{10, (10)} NUA=No uplight apertures in housing. (Cannot be combined w/UPL) UPL=Uplight Apertures MWS=Modular Wiring System ⁽¹⁰⁾ MS=360° or 180° Motion Sem 120 through 347, or 480V ^{(4), (1)} G2=Gasketed Door (Requires Lensed Doorframe) SDF=Slotted Doorframe (Req Lensed Doorframe) SDF=Slotted Doorframe (Req Lensed Doorframe) Accessories (order separately HB-SPM=Single Monopoint H FH-1=Fixture Hook FL-1=Fixture Loop Y-TOGGLE2PK=(2) Y-Togg (Specify 10 or 30 for length in HBAYC-CHAIN/SET/U=(2) V-F 36° Chain Sets w/S-Hooks	Isor, 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)
	ambient environments up to 122°F (50°C) in ope ballast configurations in EB8/PLUS only for T8	ecified when ordered with plugs or emergency ballasts. In uplight configuration. ⁽⁴⁰ When ordering MS option, UNC versions. ⁽⁶⁰ Can be used in high abuse applications e combined with Modular Power Receptacle (MP). ⁽¹⁰⁹ For	MC3=3' Modular Power Cord MPC3=3' Modular Power Cord (Specify Voltage) MC6=6' Modular Power Cord MPC6=6' Modular Power Cor (Specify Voltage) MMS=360° or 180° Aisle Moti Modular Power Receptacle (1 MDS6=6' Modular Power Cor 27DS18/2G06MP Connector ¹⁰⁰ SWG=Heavy Duty Wireguard Installation	rd & Plug I rd & Plug cion Sensor with 120-277V) ⁽¹⁾ rd with MWS

such as gymnasiums. ⁽¹¹⁾Umming ballast must be specified at time of order. ^(a) Iwo required. ^(a)Cannot be combined with Modular Yower Receptacle (MP). ⁽¹⁰⁾ For MVS with MP, choose MP in fixture logic and then choose MVS accessory such as MDS6. ⁽¹¹⁾ Recommend Program Rapid Start Ballast when using MS option. ⁽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), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may 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: HBI632-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⁾ NOTE: Orders received after noon are entered on the following day.

Family HBI	Distribution Blank=Narrow Beam W=Wide Beam	Ballast Type Blank=(2) 120/277V 4L and 2L High Ballast Factor > 1.15T8 Instant Start Electronic	Power Receptacle Blank=Standard Wiring to Access Plate MP=Modular Power Receptacle ⁽¹⁰⁾	Uplight Blank=No Uplight UPL=Uplight
Lamp Qty 6=6 Lamps Lamp Type 32=32W T8 Lamps (48")		PS=(2) 120/277V 4L and 2L High Ballast Factor > 1.15 T8 Electronic Program Rapid Start ⁽⁹⁾		Lamping Blank=No Lamps L4=Lamps Installed 85+CRI 4100K ⁽¹¹⁾ L5=Lamps Installed 85+CRI 5000K L5HL=Lamps Installed 85+CRI 5000K, High Lumen

NOTES: ⁽⁸⁾Recommended when utilizing Motion Sensor option. ⁽¹⁰⁾Requires use of Modular cord and plug accessories. ⁽¹¹⁾High lumen (3100 initial) lamps supplied for 4100K.

Catalog No.	
HBI-632-UPL	

Wt 16 lbs.



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