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 T5 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 HID. 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. Primarv 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 standard with a high ambient Class P electronic ballast and twistlock lampholders. UL/cUL listed for high ambient environments up to 65°C (149°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.



LAMP CONFIGURATIONS



DIMENSION TOP VIEW



Туре Catalog # Project Date Comments Prepared by

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. Includes V Hangers for rapid installation.

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 ambient ballast in open, uplight configurations (T5HO lamping only).

Compliance

Options to meet Buy American and other domestic preference requirements.



Metalux

HBI SERIES

6 T5HO LAMPS

High-Bay Industrial Fluorescent Luminaire





ENERGY DATA

Input Watts: ER Ballast 628 = 189W 654 = 351W

Luminaire Efficacy Rating LER = FL-78 (Narrow Beam) Catalog Number: HBI-654T5-N-UPL

Yearly Cost of 1000 lumens,

3000 hrs. at .08 KWH = \$3.07 * Reference the lamp/ballast data in the

Technical Section for specific lamp/ ballast requirements

- ** Consult Pre Sales Technical
- Support.

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

**Consult Pre Sales Technical Support.







PHOTOMETRICS



HBI-654T5-N-UNV-EHT2-UPL (2) Electronic Ballasts (6) F54T5 54W Lam 3500 lumens Spacing criterion: (II) 1.2 x mounting height, (\perp) 0.9 x mounting height Efficiency 93.3% Test Report: HBI654T5-UPL.IES

Cand	era		
Angle	Along	45°	Across 1
0	10966	10966	10966
5	10911	10991	10971
10	10772	10668	10272
15	10522	9899	9049
20	10184	8864	7762
25	9744	7757	6758
30	9218	6744	5989
35	8601	5860	5790
40	7923	5216	5278
45	7185	4862	4668
50	6381	4278	4184
55	5515	3633	3497
60	4592	3093	3034
65	3633	2415	2693
70	2665	1995	2053
75	1730	1480	1418
80	878	828	725
85	223	274	105
90	10	15	12

Candala

Yearly Cost of 1000 lumens, 3000 hrs a .08 KWH =\$3.07

I FR =FI-78

Coefficients of Utilization

c	80%			70%				50%				30%			10%			
N	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
R																		
0	110	110	110	110	107	107	107	107	101	101	101	96	96	96	91	91	91	89
1	101	97	93	90	98	94	91	88	90	87	84	85	83	81	81	80	78	76
2	92	85	79	74	90	83	77	73	79	74	70	75	72	68	72	69	66	64
3	85	75	68	62	82	73	67	61	70	64	60	67	62	58	64	60	57	54
	78	67	59	53	75	65	58	53	63	56	51	60	55	50	58	53	49	47
5	72	60	52	46	69	59	51	46	56	50	45	54	49	44	52	47	43	41
5	66	54	46	41	64	53	46	40	51	45	40	49	43	39	48	42	38	36
7	62	50	42	36	60	49	41	36	47	40	35	45	39	35	44	38	34	32
3	58	45	38	33	56	45	37	32	43	37	32	42	36	31	40	35	31	29
	54	42	34	29	52	41	34	29	40	33	29	39	33	29	37	32	28	27
)	51	39	32	27	49	38	31	27	37	31	26	36	30	26	35	30	26	24

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	7518	28.5	30.5	45	23633	15992	15354
0-40	11618	44.0	47.1	55	22363	14732	14180
0-60	19142	72.5	77.7	65	19994	13291	14821
0-90	23554	89.2	95.6	75	15546	13300	12743
0-180	24650	93.3	100.0	85	5951	7312	2802



Angle Along II 45° Across ⊥ 7332 7332 7332 7301 7337 7321 10 7231 7258 7265 15 7096 7125 7111 20 6913 6918 6872 25 6671 6634 6601 30 6377 6302 6377 35 40 6033 5963 6148 5651 5632 5832 45 5230 5278 5420 50 4776 4845 4929 55 4282 4331 4338 60 3747 3754 3898 65 70 3159 3113 3517 2512 2647 2750 75 1820 1927 2005 80 1079 1174 1029 85 346 400 183 90 14 40 36

Coefficients of Utilization

C		80%			70%				50%			30%			10%			0%
v	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
R																		
D	109	109	109	109	106	106	106	106	100	100	100	95	95	95	90	90	90	87
1	99	94	90	87	96	92	88	85	87	84	81	82	80	78	78	76	74	72
2	90	82	75	70	87	80	74	68	75	70	66	72	67	64	68	65	62	59
3	81	71	64	57	79	69	62	56	66	60	55	63	57	53	60	55	52	49
4	74	63	54	48	72	61	53	47	58	52	46	55	50	45	53	48	44	42
5	68	56	47	41	66	55	47	41	52	45	40	50	44	39	47	42	38	36
6	63	50	42	36	61	49	41	35	47	40	35	45	39	34	43	37	33	31
7	58	45	37	31	56	44	37	31	42	35	30	41	34	30	39	33	29	27
в	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	26	24
9	50	38	30	25	49	37	30	25	36	29	24	34	28	24	33	27	23	22
0	47	35	27	22	46	34	27	22	33	26	22	32	26	22	31	25	21	20

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	5773	21.9	23.6	45	14044	14173	14555
0-40	9557	36.2	39.1	55	14176	14338	14361
0-60	17462	66.1	71.4	65	14193	13987	15802
0-90	23082	87.4	94.4	75	13352	14710	14137
0-180	24447	92.6	100.0	85	7538	8715	3987

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

© 2023 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice.

ORDERING INFORMATION

SAMPLE NUMBER HBI-654T5-A-UNV-EHT2-MP-UPI-U

Includes V Hangers for rapid installation⁽⁶⁾



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



NOTES: (10) Requires use of Modular cord and plug accessories.



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

© 2023 Cooper Lighting Solutions All Rights Reserved.

Specifications and dimensions subject to change without notice. SHIPPING DATA

HBI-654T5-UPL 16 lbs.