

DESCRIPTION

The HBL series is ideal for high mounting height industrial or retail applications. Advanced optical designs provide maximum performance from either T5 or T8 lamps. Optional upright component produces excellent ceiling uniformity. HBL's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. Benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control. Typical HBL applications include retail, shopping malls, light industrial and recreational environments.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

Channel and end plates are constructed of die formed steel. The channel provides strength, numerous KO's for easy installation, and excellent thermal dissipation without any special or proprietary components. Stiffening brackets add additional strength and rigidity to channel and reflectors.

Electrical

The HBL comes with a standard Class "P" electronic ballast and twist-lock lampholders. UL/cUL listed for high ambient environments up to 55°C (131°F) for all lamp and ballast combinations listed. Suitable for damp locations.

Finish

Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

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 upright option is offered to permit ceiling uniformity and allow for ample lamp and luminaire heat dissipation.

High Ambient

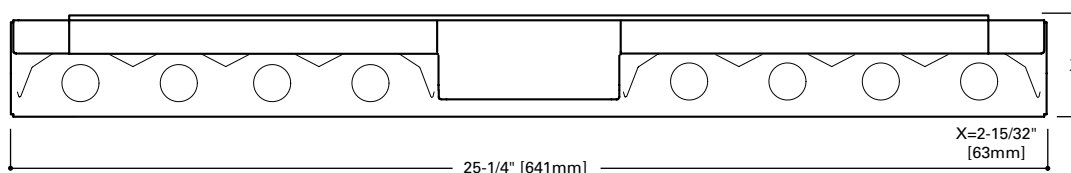
To maximize ballast life, the HBL should be ordered with a high-temperature ballast in ambient environments that typically exceed 40°C (102°F).



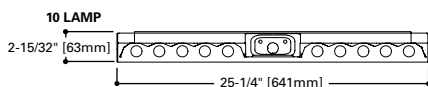
HBL SERIES

8 OR 10 T8 LAMPS

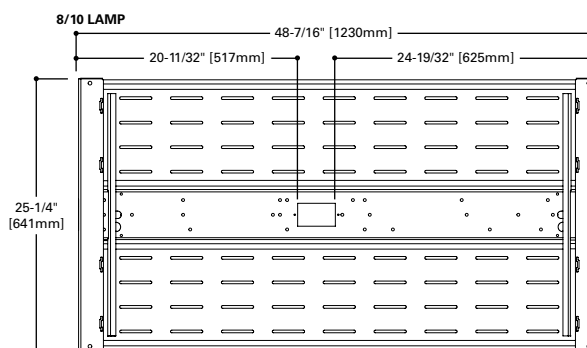
High-Bay Industrial Open Luminaire



LAMP CONFIGURATIONS



DIMENSION TOP VIEW



ENERGY DATA

Input Watts:
EB Ballast and STD Lamps
 832=218

Luminaire Efficacy Rating
LER = 90 (Specular Inserts)
Catalog Number: HBL-832-UPL

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$2.67

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

**Consult Pre Sales Technical Support.

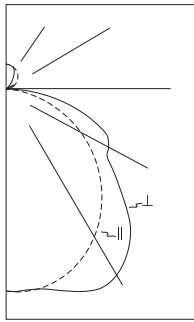
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT

Safe and convenient means of disconnecting power.



PHOTOMETRICS



HBL-832-M-UPL
 (2) Electronic Ballasts
 (8) F32T8 32W lamps
 3100 lumens
 Spacing criterion:
 (||) 1.3 x mounting
 height, (⊥) 1.5 x
 mounting height
 Efficiency 96.5%
 Test Report:
 HBL832MUPL.IES
 LER =92
 Yearly Cost of 1000
 lumens, 3000 hrs at
 .08 KWH = \$2.61

Candela			
Angle	Along	45°	Across ⊥
0	6347	6347	6347
5	6385	6359	6350
10	6348	6321	6379
15	6228	6306	6551
20	6043	6336	6767
25	5786	6363	6926
30	5468	6344	6844
35	5100	6220	6536
40	4681	5905	6090
45	4227	5460	5387
50	3749	4921	4602
55	3247	4177	3952
60	2720	3414	3723
65	2177	2799	3528
70	1631	2566	2933
75	1109	2104	2229
80	629	1406	1489
85	242	716	798
90	9	123	182

Coefficients of Utilization

rc	Effective floor cavity reflectance								20%															
	80%				70%				50%				30%				10%				0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	113	113	113	113	110	110	110	110	104	104	104	98	98	98	92	92	92	90	90	90	90	90	90	90
1	103	98	93	89	99	95	91	87	89	86	83	84	82	79	80	78	76	73	73	73	73	73	73	73
2	93	84	77	71	89	82	75	70	77	72	67	73	69	65	69	66	62	60	60	60	60	60	60	60
3	84	73	65	59	81	71	64	58	68	61	56	64	59	54	61	56	52	50	50	50	50	50	50	50
4	77	65	56	49	74	63	55	49	60	53	47	57	51	46	54	49	44	42	42	42	42	42	42	42
5	70	58	49	42	68	56	48	41	53	46	40	51	44	39	48	43	38	36	36	36	36	36	36	36
6	65	52	43	36	62	50	42	36	48	41	35	46	39	34	43	38	33	31	31	31	31	31	31	31
7	60	47	38	32	58	45	37	32	43	36	31	41	35	30	40	34	29	27	27	27	27	27	27	27
8	56	42	34	28	54	41	33	28	40	32	27	38	31	27	36	30	26	24	24	24	24	24	24	24
9	52	39	31	25	50	38	30	25	36	29	25	35	29	24	33	28	24	22	22	22	22	22	22	22
10	49	36	28	23	47	35	28	23	33	27	22	32	26	22	31	25	21	20	20	20	20	20	20	20

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	5330	21.5	22.3
0-40	9071	36.6	37.9
0-60	16597	66.9	69.3
0-90	22265	89.8	93.0
0-180	23941	95.5	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	8316	10742	10599
55	7876	10131	9585
65	7166	9214	11614
75	5961	11309	11981
85	3863	11429	12738

Modular F-Bay Power Supply Option

Cooper Lighting Solutions' 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

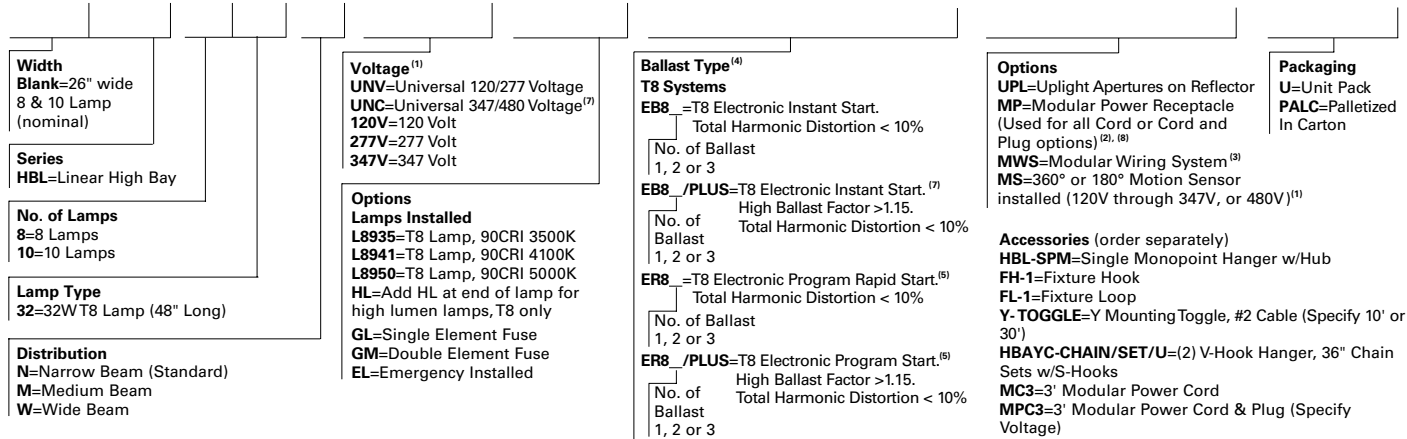
Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

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: HBL-832-N-UNV-EB82-UPL-U **Includes V Hangers for rapid installation⁽⁶⁾**



NOTES: ⁽¹⁾Voltage must be specified when ordered with plugs or emergency ballasts. For MS option, indicate UNV (for 120V or 277V), 347V or 480V. ⁽²⁾Requires use of MC_ or MPC_ cord accessories, specify voltage for plugs. ⁽³⁾Cannot be combined with Modular Power Receptacle (MP). ⁽⁴⁾T8 ballast systems suitable for operation in ambient environments up to 131°F (55°C) in upright configuration. ⁽⁵⁾Recommended when using motion sensor options. ⁽⁶⁾Can be used in high abuse applications such as gymnasiums. ⁽⁷⁾2/3 lamp ballast configuration in EB8/PLUS only for UNC version. ⁽⁸⁾For MWS with MP, choose MP in fixture logic and then choose MWS accessory such as MDS6.

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

SHIPPING DATA

Catalog No.	Wt.
HBL-832-UNV-UPL	20.5 lbs.



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