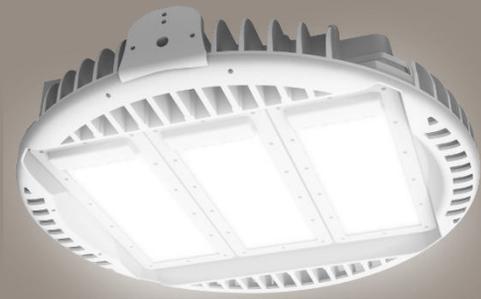




HBDB

INDUSTRIAL FIXTURES

Round high bay



The HBDB series is a functional LED high-bay luminaire that can directly replace HID and fluorescent fixtures. Its UNIQUE rugged, low-profile design and IP66 rating offer great versatility in applications, including industrial facilities, warehouses, big-box retail, gymnasium, and other high-ceiling indoor facilities. The HBDB can be installed in higher temperature settings as high as 55 degrees Celsius offering solutions for harsher environments.

Project: _____

Qty: _____

Notes: _____

OPERATING & ELECTRICAL

Input voltage 120-277V, 347-480V
Power factor 0.9
Total harmonic distortion (THD) <20%
Dimming 0-10V external dimming down to 10%

PERFORMANCE

Lumens per Watt 110-152 LPW at 80CRI
Power 150, 195, 200W
Beam angle Wide 100°

MECHANICAL & HOUSING

Housing Aluminum die-cast for superior thermal heat dissipation, enhanced structural rigidity ensuring long-lasting LED and driver function.

Lens Highly durable polycarbonate lens ensures high efficiency light output for a clean, evenly illuminated surface with minimal glare. High transmittance lens allowing for a smooth, diffused light pattern. Glass lens available

Finish White, matte black (non-visible components post installation are white)

Power Supply Factory wired electronic LED driver

LED Board Light emitted source

APPLICATION CONDITION

Ambient temperature range -40 to 55°C

Protection IP66, 10kV surge protection

COMPATIBLE MOUNTING

Mounting Suspended, 3/4" NPT pole, U-bracket

WARRANTY

System warranty 5 years

Lumen maintenance Rated for 70% initial lumen output at 60,000 hours of operation, operated at 25°C ambient temperature; per guidelines published by the Illuminating Engineering Society (IES). (L70 at 60,000 hours)

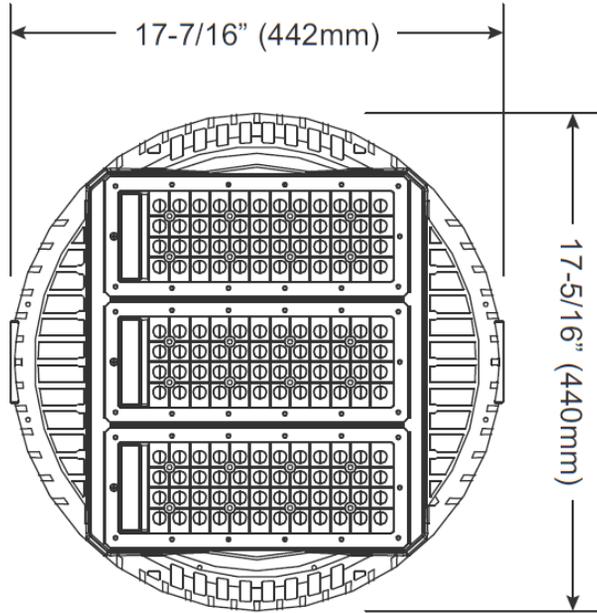
ORDERING GUIDE

EXAMPLE: HBDBF4H00U

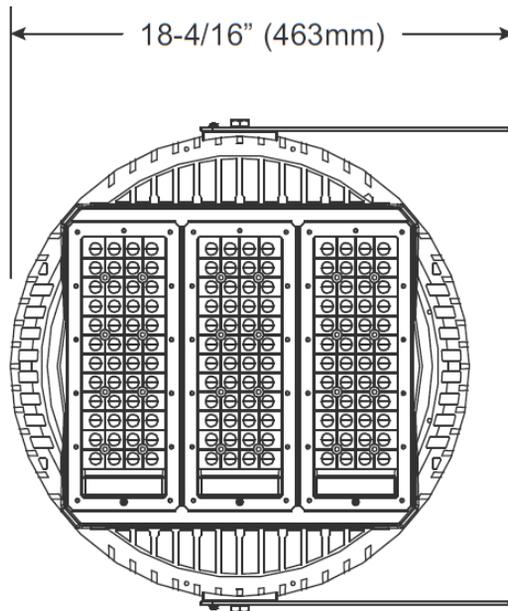
ORDER CODE	CCT	POWER	INPUT VOLTAGE	ORDER CODE	CCT	POWER	INPUT VOLTAGE
HBDBF4H00U	4000K (80CRI)	150 Watts – 18,000 lms	120-277V	HBDBN4H00UH	4000K (80CRI)	210 Watts – 23,100 lms	347-480V
HBDBF5H00U	5000K (80CRI)	150 Watts – 18,500 lms	120-277V	HBDBN5H00UH	5000K (80CRI)	210 Watts – 24,000 lms	347-480V
HBDBJ4H00U	4000K (80CRI)	195 Watts – 23,500 lms	120-277V				
HBDBJ5H00U	5000K (80CRI)	195 Watts – 24,000 lms	120-277V				



PRODUCT DIMENSIONS



With U-Bracket



LUMEN ESTIMATE

Lumen output varies based on CCT and CRI. An estimate of lumen output of the various CCT/CRI combinations, use correction factors as per table below:

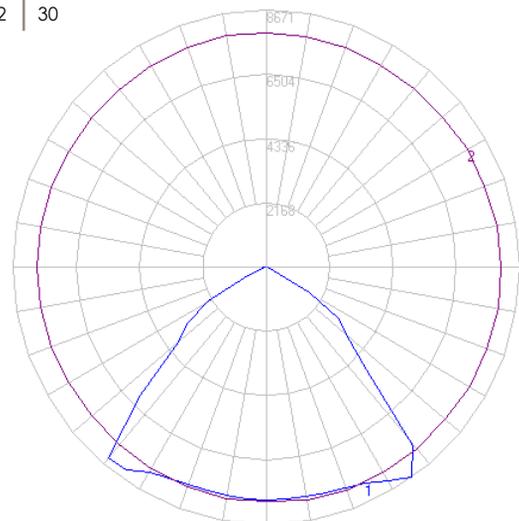
Lumen estimate adjustment factors				
CCT	2700K	3000K	3500K	4000K
NORMAL (80CRI)	0.91	0.94	0.97	1

PHOTOMETRIC DATA

HBDBF5H00U

Coefficients of utilization											
Ceiling	80%				70%		50%		30%		0%
Wall	70%	50%	30%	10%	50%	10%	50%	10%	50%	10%	0
RCR	Zonal Cavity Method – Effective floor reflectance = 20%										
	119	119	119	119	116	116	111	111	106	106	100
1	111	108	105	102	106	100	101	97	98	94	89
2	103	97	91	87	95	86	92	84	88	82	78
3	96	87	80	75	85	74	83	73	80	72	68
4	88	78	71	65	77	64	74	64	72	63	60
5	82	71	63	57	69	57	67	56	66	55	53
6	76	64	56	50	63	50	61	50	60	49	47
7	70	58	50	45	57	44	56	44	54	44	42
8	66	53	45	40	52	40	51	40	50	39	37
9	61	49	41	36	48	36	47	36	46	35	34
10	57	45	37	33	44	32	43	32	43	32	30

Zonal lumen			
Zone	Lumens	Zone	Lumens
0-10	748.98	90-100	2
10-20	2221.22	100-110	2.27
20-30	3673.64	110-120	3
30-40	5095.63	120-130	3.63
40-50	4815.36	130-140	3.81
50-60	2453.36	140-150	3.58
60-70	730.15	150-160	2.98
70-80	101.64	160-170	1.98
80-90	21.78	170-180	0.68





INTEGRATED THERMAL MANAGEMENT

Heat sink integrated into the fixture's structure allows for superior thermal management while maintaining structural strength.

PROTECTION

IP66 wet location rated, and 10kV surge protection standard provides excellent protection against surgest and industrial environmental conditions.



MOUNTING

Multiple mounting methods including suspended mount, 3/4" NPT pole mount, and U-bracket.



DISTRIBUTION

Wide 100-degree beam angle provides a unique beam distribution enhancing project space.