





Project:	
Location:	
Cat.No:	
Type:	
Lamps:	Qty:
Notes:	

Day-Brite / CFI HBX LED high bay provides durability in an appealing compact form. With a range of lumen packages, optical distributions, and accessories available, this luminaire can be used in many different applications ranging from warehouses and manufacturing facilities to retail outlets and natatoriums.

Ordering guide Example: HBX24LL40-UNV-M-WT

Family	Lumen Package	Source	Color Temperature	Voltage	Distribution	Paint Colors	Options
нвх		L	40 –	_	_	_	
нвх	13L 13,000 nominal delivered lumens 17L 17,000 nominal delivered lumens 24L 24,000 nominal delivered lumens	L LED	40 4000K (CRI 80)	UNV Universal voltage 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	N Narrow M Medium W Wide A¹ Aisle	BZ Dark Bronze WT White BK Black AL Silver Aluminum	WP6 Wired 6' 16/3 Cord & NEMA Twist Lock Plug² WP6D Wired 6' 16/3 Cord & NEMA Twist Lock Plug for Line Voltage and Wired 6' 16/3 Cord & Plug for Dimming Control² WC6D Wired 6' 16/3 Cord for Line Voltage and Wired 6' 16/3 Cord for Dimming Control MD360¹ 360° Motion Detector (ON/OFF) MD360D¹ 360° Motion Detector (ON/DIM) XTM Extreme Environment (see specs for details) (WC6 cord is standard)

Footnotes

- Not available with XTM Extreme Environment option
- Must specify line voltage
- Do not use with XTM option luminaire in natatoriums or other corrosive environments

Accessories (order separately, see last page for details)

• HBX-GRIP53 5' cables with snap hooks • HBX-GRIP103 10' cables with snap hooks

• HBX-PENHGR3 Pendant hanger

• HBX-ADJHGR3 Adjustable surface/pendant yoke bracket

• HBX-ADJHGR-WT-XR Adjustable surface/pendant yoke bracket for Extreme Environment

• HBX-PENHGR-XTR Pendant hanger for Extreme Environment • HBX-IND3 Hanging bracket pair for indirect suspension

• HBX-IND-XTR Hanging bracket pair for indirect suspension for Extreme Environment

Wiring Notes

· Standard cords have 3 wires. Consult factory for other cord options.

General Notes

- All options factory installed.All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Predicted L₇₀ **Lifetime**

• 45°C Ambient or 55°C Ambient option > 100,000 hours (based upon LED manufacturer's supplied LM-80 data and in-situ laboratory testing)



HBX LED high bay

13,000, 17,000, or 24,000 lms

Application

· This luminaire can be used to illuminate manufacturing, warehousing, gymnasiums, arenas and many other large indoor spaces with control and precision.

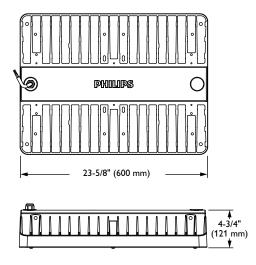
Construction/Finish

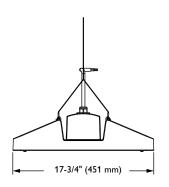
- · Die cast aluminum housing provides excellent thermal transfer to extend component life.
- Tempered glass lens with molded gasket seals the optical compartment.
- · May be cable or pendant mounted.

- · Polyester powder finish on all die cast parts for excellent impact and corrosion resistance.
- · Each unit comes standard with 6' 16/3 wired cord (see options for other wiring configurations)
- · LED light engines and drivers are field replaceable.
- · 5 Year Limited Warranty
- Components are RoHS compliant.
- · Listed by ETL to meet UL 1598 standards for wet location and -40°C to 45°C ambient (55°C for XTM option).

- · Standard construction is IP65 without motion detector option
- · Dimming drivers are standard. Control is 0-10V DC.
- · Optional motion detector.
- · DLC Listed. Please check the DLC Qualified Products List to confirm (www.design lights.org/QPL).
- · XTM Extreme Environment option provides extra protection from heat and chemicals. Finish coating, stainless steel hardware, and LED upgrades allow use in areas such as natatoriums and in ambients up to 55°C.

Dimensions





Photometry

HBX LED high bay, Narrow Distribution, 24,000 nominal delivered lumens

		Candle	power			Light [Distribution			Ave	age Lu	minan	ce
Catalog No.	HBX24LL40-UNV-N	Angle	End	45	Cross	Degree	s Lumens	% Lumi	inaire	Angle	End	45°	Cross
Test No.	32766	0	29172	29172	29172	0-30	18459	76		45	6341	3404	3125
S/MH	0.8	5 10	29075 28605	28817 27652	28530 26747	0-40 0-60	22536 23672	92. 97.		55 65	7403 5382	2906 2837	2832 2744
Lamp Type	LED	15	27618	25821	24069	0-80	24215	99.	8	75	2683	2389	2225
Lumens	24,256	20 25	25524 22438	22931 18808	20566 15873				1026				
Input Watts	213	30	17262	13545	10762	Coefficients of Utilization							
Efficacy	114	35 40	7306 2119	5997 1275	5282 1380	pcc 80 70 50				0			
Commonstive vestive	lighting analysis sast nov 1000	45 50	1262 1145	677 587	622 530	pw RCR	70 50	30	70	50	30	50	30
Comparative yearly lighting energy cost per 1000 lumens – \$2.11 based on 3000 hrs. and \$.08 pwr KWH.		55 60	1195 786	469 408	457 392	0	119 119	119	116		116	111	111

Photometric values based on test performed in

HBX LED high bay

13,000, 17,000, or 24,000 lms

HBX LED high bay, Wide Distribution, 24,000 nominal delivered lumens

		Candlep	ower			Light	Distrib	ution			Ave	rage Lui	minanc	e
Catalog No.	HBX24LL40-UNV-W	Angle	End	45	Cross	Degre	ees Li	umens	% Lum	inaire	Angle	End	45°	Cross
Test No.	32769	0	5342	5342	5342	0-30)	5925	24	.7	45	36743	40686	44625
S/MH	2.2	5	5615	5617	5471	0-40 0-60		11060 22253	46 92		55 65	28782 6402	35928 7434	31789 4963
Lamp Type	LED	10 15	6130 6699	6054 6541	5736 6181	0-80 0-80 0-90) :	22255 23918 23969	92 99 100	.8	75 85	4401 2050	3325 939	2642 351
Lumens	23,969	20 25	7412 8166	7190 7974	6807 7589	25505 100.0								
Input Watts	212	30	8070	8160	8444	Coefficients of Utilization								
Efficacy	113	35	7783	8122	8718		IVE FLOOR		REFLECT	ANCE 20 PE).20)		
		40	7678	8276	9040	pcc	70	80 50	30	70	70 50	30	50 50	30
6 " 1"		45 50	7312 6165	8096 7433	8880 7520	pw RCR	70	50	30	70	50	30	50	30
	ting energy cost per 1000 on 3000 hrs. and \$.08 pwr KWH.	55	4646	5799	5131	0	119	119	119	116	116	116	111	111
iumens – \$2.12 based o	on 3000 hrs. and 3.08 pwr kwh.	60	2909	3150	1986	1	111		103	108		101	100	97
The photometric recults	were obtained in the Day-Brite	65	761	884	590	2	101	94	88	99	92	87	89	84
	AP accredited by the National	70	559	439	352	3	93	83	76	90	82	75	79	73
Institute of Standards a		75 80	321 163	242 106	192 76	4	85 78	74 66	65 57	83 76	72 64	65 56	70 62	63 55
mistrate of Starragius a		85	50	23	9	6	72	59	50	70	58	49	56	49
Photometric values bas	ed on test performed in	65	30	23	3	7	66	53	44	64	52	44	50	43
compliance with LM-79).					8	61	48	39	60	47	39	46	38
						9	57	43	35	55	43	35	42	34
						10	53	40	32	52	39	32	38	31

Photometric Test List

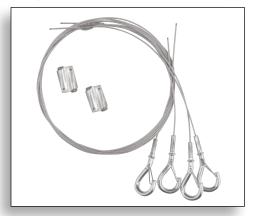
Catalog No.	Test No.	Delivered Lumens	Input Watts	Efficacy
HBX13LL40-UNV-N	32767	12284	106	116
HBX13LL40-UNV-M	32763	12264	106	115
HBX13LL40-UNV-W	32770	12118	106	115
HBX13LL40-UNV-A	32773	12348	106	117
HBX17LL40-UNV-N	32765	17088	142	120
HBX17LL40-UNV-M	32762	17077	142	121
HBX17LL40-UNV-W	32768	16950	143	119
HBX17LL40-UNV-A	32771	17436	142	123
HBX24LL40-UNV-N	32766	24256	213	114
HBX24LL40-UNV-M	32760	24295	212	115
HBX24LL40-UNV-W	32769	23969	212	113
HBX24LL40-UNV-A	32772	24456	213	115
HBX24LL40-UNV-M-XTM	38176	24638	194	127
HBX17LL40-UNV-M-XTM	38177	17901	135	133
HBX13LL40-UNV-M-XTM	38178	12423	97	128
HBX24LL40-UNV-N-XTM	38179	24265	193	126
HBX17LL40-UNV-N-XTM	38180	17715	134	132
HBX13LL40-UNV-N-XTM	38181	12411	97	128
HBX24LL40-UNV-W-XTM	38182	24525	194	127
HBX17LL40-UNV-W-XTM	38183	17741	134	132
HBX13LL40-UNV-W-XTM	38184	12212	97	126

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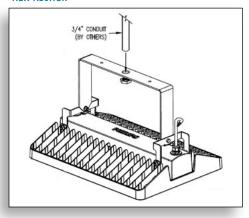
13,000, 17,000, or 24,000 lms

Accessories

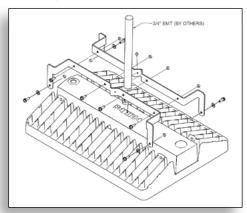
HBX-GRIP



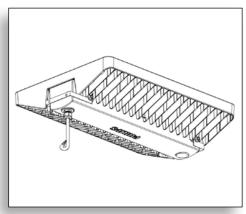
HBX-ADJHGR



HBX-PENHGR



HBX-IND



Accessory Catalog Code	Description
HBX-GRIP5	5' hanging pair of cables with snap hooks
HBX-GRIP10	10' hanging pair of cables with snap hooks
HBX-PENHGR	Pendant hanger kit -galvanized steel (pendant supplied by others)
HBX-PENHGR-XTR	Pendant hanger kit for Extreme Environment - painted white (pendant supplied by others)
HBX-ADJHGR	Adjustable surface/pendant yoke kit - galvanized steel (pendant supplied by others)
HBX-ADJHGR-WT-XTR	Adjustable surface/pendant yoke kit for Extreme Environment - painted white (pendant supplied by others)
HBX-IND	Hanging bracket pair for indirect suspension
HBX-IND-XTR	Hanging bracket pair for indirect suspension for Extreme Environment

