

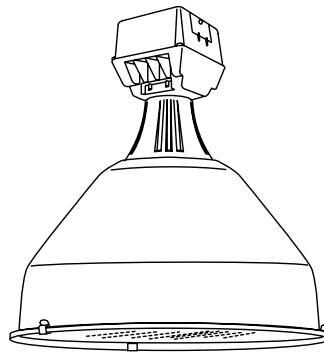
Day-Brite CFI

by Signify

Industrial

HBE high bay

Aluminum reflector
400W MH, 400W HPS,
320-400W PSMH



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

The Day-Brite / CFI HBE high bay features an enclosed, spun aluminum reflector with a tempered glass lens for use in applications requiring dust tight or wet location (optional) construction.

Ordering guide

Example: HBE400PMT-PSC A24 24BE

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical	Optical Options	Lens Assembly
HBE			—		A24 —		24BE
HBE	320 320 ^{1,30} 350 350 ^{1,30} 400 400	M Metal Halide S High Pressure Sodium P Pulse Start Metal Halide (PSC Ballast option must be specified to comply with EISA for 175W-400W)	12 120 20 208 24 240 27 277 34 347 48 480 2T 208/240/277 MT 120/208/240/277 TT 120/277/347 5T 120/208/240/277/480 ⁹⁹	CUL UL Listing to meet CSA standards WEB Pulse Start Electronic Ballast. Consult factory for available voltages and ambient temperature rating. PSC Pulse Start CWA Ballast Q Quartz Standby QEM Quartz Emergency ⁴⁰ QTD Quartz Time Delay WDF Wired Double Fuse ⁴⁵ WSF Wired Single Fuse ⁴⁶ 65 65°C Ambient ⁴⁸ NFZ Non Food Zone WL Wet Location	A24 Open 24" Aluminum Reflector	WT Reflector finished inside and out with White Polyester Powder Coating	24BE Bottom Enclosure for A24

Accessories (order separately)

CH Cover Half for Power Hook (use with PB)
PB Power Box for Power Hook (use with CH)
HP12-3 3' Hook-Cord-Plug Assembly 120V
HP25-3 3' Hook-Cord-Plug Assembly 208-240V
HP27-3 3' Hook-Cord-Plug Assembly 277V
HP48-3 3' Hook-Cord-Plug Assembly 480V
HMR Suspension Hook Male
SCB3 Ballast Retainer Chain 3'
WGN24 Wire Guard
(Refer to Section 18000 for additional accessories.)

Footnotes

¹ Not available in 480V.
³⁰ Pulse Start Metal Halide Only.
⁴⁰ Requires 120 volt secondary power supply.
⁴⁵ Use with 208, 240, and 480 volt.
⁴⁶ Use with 120, 277, and 347 volt.
⁹⁹ Consult factory for availability.

General Notes

- All accessories are field installed.
- Mogul base lamp only.
- All options factory installed.
- Ballast assembly and optical assembly to be ordered and shipped separately.

WARNING: Refer to and follow the lamp manufacturer's warnings and instructions.



Standard Metal Halide
Between 175W and 400W
Not available in USA



HBE High bay

Aluminum reflector, 400W MH, 400W HPS, 320-400W PSMH

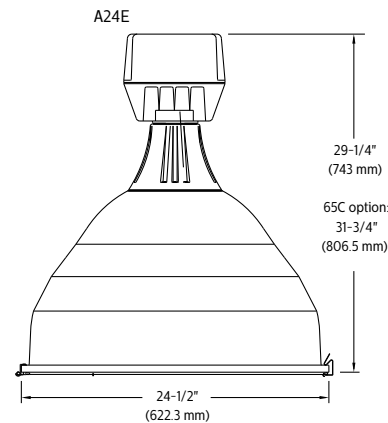
Application

- HBE high bay features an enclosed, spun aluminum reflector with a tempered glass lens for use in applications requiring dust tight or wet location (optional) construction.

Construction/Finish

- UL 1598 Listed suitable for damp location and 55°C ambient for all lamp wattages listed with magnetic ballast. Consult factory for ambient temperature rating for electronic ballast (WEB option).
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Large wiring access with captive retainer screw.
- Heavy wall, two piece die cast aluminum housing with white polyester powder finish.
- Day-Brite "Slant 2" ballast mounting for cooler operation. Ballast has high temperature class H insulation and a minimum starting temperature of -40°C (-40°F) for HPS and Pulse Start MH or -30°C (-20°F) for MH.
- Die cast aluminum neck provides positive mounting of reflector to ballast assembly and field adjustable light distribution patterns.
- Precision spun heavy gauge aluminum reflector with clear anodized finish.
- Hinged door with tempered glass lens.

Dimensions



Energy Data

HIGH PRESSURE SODIUM

CWA BALLAST INPUT WATTS
400 Watt-464 Watts

METAL HALIDE

CWA BALLAST INPUT WATTS	
CWA	WEB
320 Watt-368 Watts	
350 Watt-400 Watts	363 Watts
400 Watt-458 Watts	413 Watts

HBE High bay

Aluminum reflector, 175–400W MH, 200–400W HPS, 175–400W PSMH

Photometry

HBE high bay 400W MH

Efficiency – 72.2%

LER – 63

Catalog No.		HBE400MMT-A24-24BE (Position 6)	
Test No.		18952	
Medium Spread S/MH		0.8	
Lamp Type		400W MH	
Lumens/Lamp		40,000	
Ballast Factor		1.0	
Input Watts		458	
Comparative yearly lighting energy cost per 1000 lumens – \$3.81 based on 3000 hrs. and \$.08 pwr KWH.			
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.			

Candlepower	
Angle	Avg. Candela
0	25600
5	24126
10	20477
15	17970
20	16261
25	14575
30	12632
35	10654
40	8609
45	6632
50	4489
55	2658
60	1250
65	669
70	324
75	138
80	38
85	0

Light Distribution			
Degrees	Lumens	% Lamp	% Luminaire
0-30	13934	34.8	48.2
0-40	20537	51.3	71.1
0-60	28005	70.0	96.9
0-90	28895	72.2	100.0
90-180	0	0.0	0.0
0-180	28895	72.2	100.0

Average Brightness			
Zone	End	45	Cross
45	31762	32683	31961
55	16768	15812	15059
65	5497	5480	5286
75	1800	1800	1867
85	0	0	0

Coefficients of Utilization												
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)												
Ceil	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	
RCR	70	50	30	10	70	50	30	10	50	30	10	
0	86	86	86	86	84	84	84	84	80	80	80	
1	81	79	77	75	79	77	75	73	74	73	71	
2	76	72	68	65	74	70	67	64	68	65	63	
3	71	65	61	57	69	64	60	57	62	59	56	
4	66	60	55	51	65	59	54	51	57	53	50	
5	62	55	50	46	61	54	49	46	53	48	45	
6	58	50	45	42	57	50	45	41	49	44	41	
7	55	47	41	38	54	46	41	38	45	41	37	
8	51	43	38	35	50	43	38	35	42	37	34	
9	48	40	35	32	48	40	35	32	39	35	32	
10	46	38	33	29	45	37	33	29	37	32	29	

Comparative yearly lighting energy cost per 1000 lumens – \$3.81 based on 3000 hrs. and 5.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

