

Day-Brite

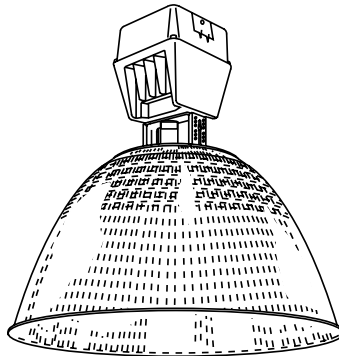
CFI

by Signify

Industrial

HBO high bay

Acrylic reflector
400-1000W MH, 400-1000W HPS,
400-875W PSMH



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

Day-Brite / CFI HBO high bay features an open, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications where upright is required.

Ordering guide

Example: HBO10XMMT AR25

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical
HBO					AR25
HBO	400 400 750 750 ³⁰ 875 875 ^{29,20} 10X 1000 ³³	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 MT 120/208 240/277 TT 120/277 347 5T 120/208/240/ 277/480 ⁹⁹	CUL UL Listing to meet CSA standards OR Open Rated Socket (required for metal halide and pulse start metal halide lamps) (Excursionary "pink" socket) 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 NFZ Non Food Zone	AR25 Open 25" Acrylic Reflector

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'
WGA25 Wire guard for 25" Acrylic Reflectors

Lens accessories: order separately

25FL 25" Flat Acrylic Lens (450W max)
25DL 25" Drop Acrylic Lens (450W max)
(Refer to Section 18000 for additional accessories.)

Footnotes

⁸Coated lamp recommended.
²⁹BT37 or ED37 lamps required.
³⁰Pulse Start Metal Halide Only.
³³Not available in Pulse Start Metal Halide.
⁴⁰Requires 120V secondary power supply.
⁴⁵Use with 208, 240, and 480 volt.
⁴⁶Use with 120, 277, and 347 volt.
⁴⁷Consult factory for availability of 750 & 1000W.

General Notes

- All accessories are field installed.
- Mogul base lamp only.
- All options factory 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.
- For areas where optical assemblies are subject to impact (gymnasiums, etc.) use appropriate full wire cage. Installation using a hook, cord and plug are also recommended.
- A phosphor protected lamp is recommended.
- Use "O" rated, protected metal halide lamps only.
- Ballast assembly and optical assembly to be ordered and shipped separately.
- For open luminaires, open rated lamp and excursionary socket "OR" option are required to meet National Electrical Code.

WARNING: Many Metal Halide lamps are rated for enclosed luminaires only. Some lamps are specifically rated for open luminaires and require an open rated socket (option code - "OR"). Refer to and follow the lamp manufacturer's warnings and instructions.



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



HBO High bay

Acrylic reflector, 400-1000W MH, 400-1000W HPS, 400-875W PSMH

Application

- HBO high bay features an open, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications where uplight is required.

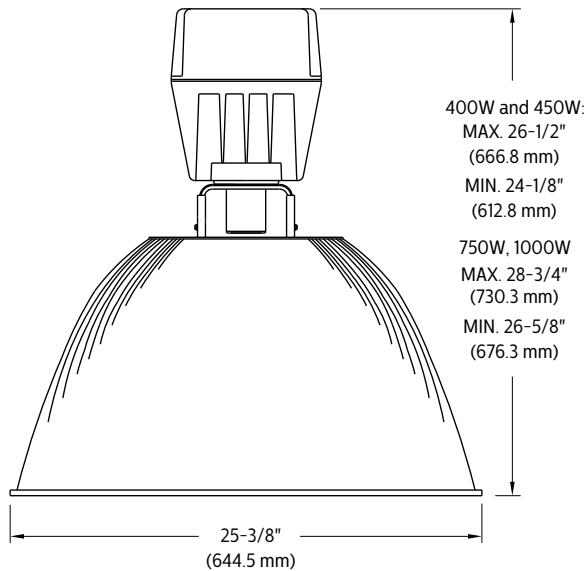
Construction/Finish

- UL 1598 Listed suitable for damp location and 40°C ambient (55°C ambient for 400W).
- 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.

- Heavy gauge yoke provides positive mounting of reflector to ballast assembly and field adjustable light distribution patterns.
- Injection molded 100% virgin acrylic prismatic reflector.

Dimensions



Energy Data

HIGH PRESSURE SODIUM

CWA BALLAST INPUT WATTS
400 watt-464 watts
1000 watt-1100 watts

METAL HALIDE

CWA BALLAST INPUT WATTS
400 watt-458 watts
750 watt-810 watts
1000 watt-1080 watts

HBO High bay

Acrylic reflector, 400-1000W MH, 400-1000W HPS, 400-875W PSMH

HBO COATED 1000W MH AR25/POSITION 4																									
MEDIUM SPREAD S/MH = 1.9				TEST NO. 18448																					
DISTRIBUTION CURVE		COEFFICIENTS OF UTILIZATION						AVERAGE BRIGHTNESS				ZONAL SUMMARY			CANDLEPOWER										
	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																								
	CEIL 80 70 50 30 10																								
	WALL 70 50 30 10 70 50 30 10 50 30 10 50 30 10																								
	RCR																								
	0 101 101 101 101 97 97 97 97 89 89 89 82 82 82 75 75 75																								
	1 91 87 83 80 88 84 80 77 77 75 72 71 69 67 66 64 62																								
	2 83 76 71 66 80 73 68 64 68 64 60 63 59 56 58 55 53																								
	3 76 67 60 55 73 65 59 53 60 55 51 56 51 48 52 48 45																								
	4 70 60 52 47 67 58 51 45 53 48 43 50 45 41 46 42 39																								
	5 64 53 46 40 61 51 44 39 48 42 37 45 39 36 41 37 34																								
6 59 48 40 35 56 46 39 34 43 37 32 40 35 31 37 33 30																									
7 55 43 36 30 52 42 35 30 39 33 29 36 31 27 34 30 26																									
8 51 39 32 27 48 38 31 26 35 30 25 33 28 24 31 27 23																									
9 47 36 29 24 45 35 28 23 32 27 23 30 25 22 29 24 21																									
10 44 33 26 21 42 32 25 21 30 24 20 28 23 19 26 22 19																									
ZONE		END		45		CROSS		Degrees		Lumens		% Lamp		% Fixture		Angle		Avg. Candela		Angle		Avg. Candela			
45		47463		40176		46265		(0-30)		19138		18.2		20.8		0		17602		95		3832			
55		30838		24857		29295		(0-40)		35474		33.8		38.6		5		17500		105		3751			
65		15371		12413		15435		(0-60)		62481		59.5		67.9		15		19565		115		3291			
75		10308		7989		10429		(0-90)		75803		72.2		82.4		25		25655		125		2561			
85		13653		9958		13491		(90-180)		16204		15.4		17.6		35		26429		135		1695			
								(0-180)		92007		87.6		100.0		45		20739		145		975			
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.82 BASED ON 3000 HRS. AND \$.08 PER KWH. LER=85																		55		12427		155		720	
																		65		5754		165		604	
																		75		3328		175		691	
																		85		3526					
These photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.																									

ADDITIONAL TEST NUMBERS

AR25 400 WATT		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	1.0	18444	
POSITION 2	1.1	18443	
POSITION 3	1.2	18442	
POSITION 4	1.5	18441	
POSITION 5	1.6	18440	
POSITION 6	1.7	18439	

AR25 1000 WATT		HPS	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	0.8	18456	
POSITION 2	1.0	18455	
POSITION 3	1.1	18454	
POSITION 4	1.8	18453	
POSITION 5	2.0	18452	
POSITION 6	2.2	18451	

AR25 1000 WATT		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	1.7	18450	
POSITION 2	1.8	18449	
POSITION 3	1.8	18448	
POSITION 4	2.0	18447	
POSITION 5	2.0	18446	
POSITION 6	2.1	18445	



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

