

# Day-Brite

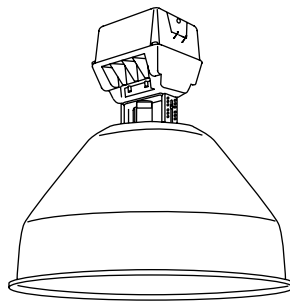
## CFI

by Signify

### Industrial

HBO high bay

Aluminum reflector  
400W MH or HPS,  
320-450W PSMH



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

Day-Brite / CFI HBO high bay features open, spun aluminum reflectors for maximum efficiency in general purpose retail, educational and industrial applications.

#### Ordering guide

Example: HBO400PMT-PSC A24

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical	Optical Options
<b>HBO</b>			—		—	
<b>HBO</b>	<b>320</b> 320 <sup>30</sup> <b>350</b> 350 <sup>30</sup> <b>400</b> 400 <b>450</b> 450 <sup>30</sup>	<b>M</b> Metal Halide <b>S</b> High Pressure Sodium <b>P</b> Pulse Start Metal Halide (PSC Ballast option must be specified to comply with EISA for 175W-400W)	<b>12</b> 120 <b>20</b> 208 <b>24</b> 240 <b>27</b> 277 <b>34</b> 347 <b>48</b> 480 <b>2T</b> 208/240/277 <b>MT</b> 120/208/240/277 <b>TT</b> 120/277/347 <b>5T</b> 120/208/240/277/480 <sup>99</sup>	<b>CUL</b> UL Listing to meet CSA standards <b>WEB</b> Pulse Start Electronic Ballast Consult factory for available voltages and ambient temperature rating. <b>OR</b> Open Rated Socket (required for metal halide and pulse start metal halide lamps) (Exclusionary "pink" socket) <b>PSC</b> Pulse Start CWA Ballast <b>Q</b> Quartz Standby <b>QEM</b> Quartz Emergency <sup>40</sup> <b>QTD</b> Quartz Time Delay <b>WDF</b> Wired Double Fuse <sup>45</sup> <b>WSF</b> Wired Single Fuse <sup>46</sup> <b>65</b> 65°C Ambient <sup>48</sup> <b>NFZ</b> Non Food Zone	<b>A24</b> Open 24" Aluminum Reflector (MH only) <b>A24S</b> Open 24" Aluminum Reflector (HPS only)	<b>WT</b> Reflector finished inside and out with White Polyester Powder Coating

#### Accessories (order separately)

**24BE** Flat Tempered 24" Glass Bottom Enclosure  
**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  
**LMR** Suspension Loop Male  
**SCB3** Ballast Retainer Chain 3'  
**WGN24** Wire Guard  
 (Refer to Section 18000 for additional accessories.)

#### Footnotes

<sup>30</sup>Pulse Start Metal Halide Only.  
<sup>40</sup>Requires 120 volt secondary power supply.  
<sup>45</sup>Use with 208, 240, and 480 volt.  
<sup>46</sup>Use with 120, 277, and 347 volt.  
<sup>99</sup>Consult factory for availability.

#### General Notes

- All accessories are field installed.
- Mogul base lamp only.
- All options factory installed.
- 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 exclusionary 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

## Aluminum reflector, 400W MH or HPS, 320-450W PSMH

### Application

- HBO400 high bay features open, spun aluminum reflectors for maximum efficiency in general purpose retail, educational and industrial applications.

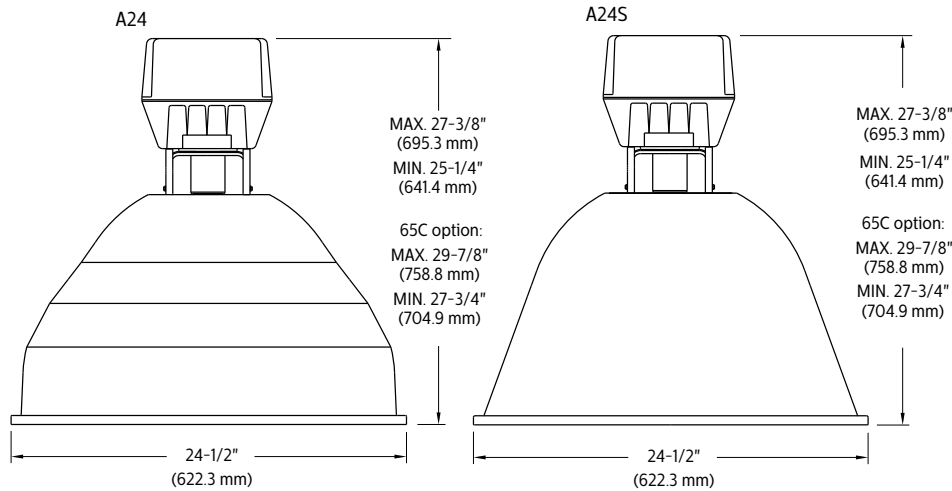
### Construction/Finish

- 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

- Heavy gauge yoke provides positive mounting of reflector to ballast assembly and field adjustable light distribution patterns.
- Precision spun heavy gauge aluminum reflector with clear anodized finish.

### Dimensions



### Energy Data

#### HIGH PRESSURE SODIUM

CWA BALLAST INPUT WATTS  
400 watt-464 watts

#### METAL HALIDE

BALLAST INPUT WATTS		
CWA		WEB
320 watt	368 watts	-
350 watt	400 watts	363 watts
400 watt	458 watts	413 watts
450 watt	508 watts	465 watts

# HBO High bay

Aluminum reflector, 400W MH or HPS, 320-450W PSMH

HBO 400W MH A24/POSITION 6																																					
NARROW SPREAD S/MH = 0.8							TEST NO. 18915																														
DISTRIBUTION CURVE			COEFFICIENTS OF UTILIZATION				AVERAGE BRIGHTNESS				ZONAL SUMMARY				CANDLEPOWER																						
			EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)											ZONE		END		45		CROSS		Degrees		Lumens		% Lamp		% Fixture		Angle		Avg. Candela		Angle		Avg. Candela	
			CEIL 80 70 50 30 10											45		35047		34950		33157		(0-30)		14753		36.9		47.0									
			WALL 70 50 30 10 70 50 30 10 50 30 10 50 30 10											55		20095		18948		18142		(0-40)		21910		54.8		69.9		0		26736		95		0	
			RCR											65		6721		6364		5197		(0-60)		30282		75.7		96.5		5		24598		105		0	
			0 93 93 93 93 91 91 91 91 87 87 87 83 83 83 80 80 80											75		2793		2820		2436		(0-90)		31328		78.3		99.9		15		19061		115		0	
			1 88 85 83 81 86 84 81 79 80 79 77 77 76 75 75 73 72											85		1258		1219		943		(90-180)		37		0.1		0.1		25		15384		125		0	
			2 82 78 74 70 80 76 73 70 73 71 68 71 69 66 69 67 65																			(0-180)		31365		78.4		100.0		35		11534		135		0	
			3 77 71 66 62 75 69 65 61 67 63 60 65 62 59 63 61 58																											45		7096		145		2	
			4 72 64 59 55 70 63 58 55 62 57 54 60 56 53 58 55 53																											55		3191		155		27	
			5 67 59 53 49 66 58 53 49 57 52 49 55 51 48 54 50 48																											65		752		165		0	
6 63 54 49 44 61 54 48 44 52 48 44 51 47 44 50 46 43																											75		203		175		0				
7 59 50 44 40 58 50 44 40 48 44 40 47 43 40 46 43 40																											85		29								
8 55 46 41 37 54 46 41 37 45 40 37 44 40 36 43 39 36																																					
9 52 43 38 34 51 43 37 34 42 37 34 41 37 34 40 36 33																																					
10 49 40 35 31 48 40 35 31 39 34 31 39 34 31 38 34 31																																					
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.53 BASED ON 3000 HRS. AND \$.08 PER KWH. LER=68														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

A24 400 WATT		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	0.3	18910	
POSITION 2	0.3	18911	
POSITION 3	0.4	18912	
POSITION 4	0.4	18913	
POSITION 5	0.5	18914	
POSITION 6	0.8	18915	

A24S 400 WATT		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	0.4	19041	
POSITION 2	0.4	19040	
POSITION 3	0.6	19039	
POSITION 4	1.1	19038	
POSITION 5	1.3	19037	
POSITION 6	1.6	19036	

A24S 400 WATT		HPS	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	0.3	18322	
POSITION 2	0.3	18321	
POSITION 3	0.4	18320	
POSITION 4	0.8	18319	
POSITION 5	1.2	18318	
POSITION 6	1.5	18317	



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](http://www.lamprecycle.org)

