

# Day-Brite

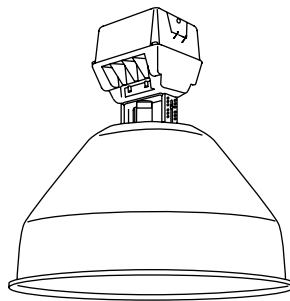
## CFI

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

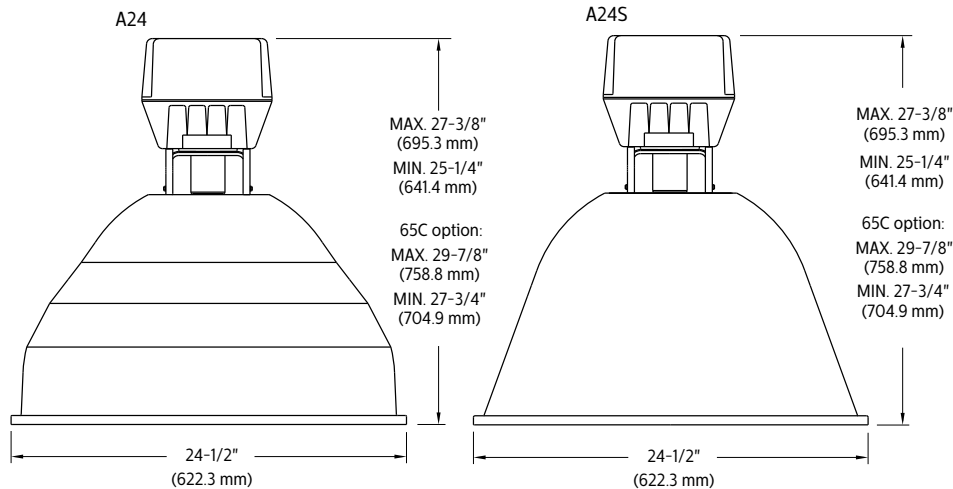
### Application

- HBO400 high bay features open, spun aluminum reflectors for maximum efficiency in general purpose retail, educational and industrial applications.
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Heavy gauge yoke provides positive mounting of reflector to ballast assembly and field adjustable light distribution patterns.

### 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).
- Large wiring access with captive retainer screw.
- Heavy wall, two piece die cast aluminum housing with white polyester powder finish.
- Precision spun heavy gauge aluminum reflector with clear anodized 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

### 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				Degrees				Angle			
				CEIL 80 70 50 30 10				END 45 CROSS				Lumens				Avg. Candela			
				WALL 70 50 30 10 70 50 30 10 50 30 10 50 30 10				45 35047 34950 33157				(0-30) 14753 36.9 47.0				0 26736 95 0			
				RCR				55 20095 18948 18142				(0-40) 21910 54.8 69.9				5 24598 105 0			
				0 93 93 93 93 91 91 91 91 87 87 87 83 83 83 80 80 80				65 6721 6364 5197				(0-60) 30282 75.7 96.5				15 19061 115 0			
				1 88 85 83 81 86 84 81 79 80 79 77 77 76 75 75 73 72				75 2793 2820 2436				(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				COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.53 BASED ON 3000 HRS. AND \$.08 PER KWH. LER=68				(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																			
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)

