

# Day-Brite

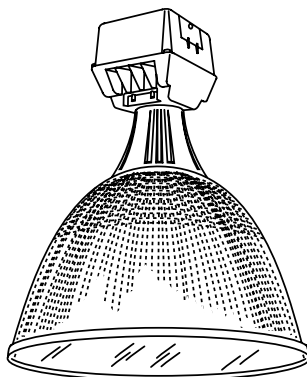
## CFI

by Signify

### Industrial

HBE high bay

Acrylic reflector  
175-400W MH, 200-400W HPS,  
175-400W PSMH



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

The Day-Brite / CFI HBE high bay features an enclosed, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications requiring upright and enclosed construction.

#### Ordering guide

Example: HBE400PMT-PSC-OR AR22 22FL

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical	Lens Assembly
<b>HBE</b>			—			
<b>HBE</b>	175 175 <sup>4</sup> 200 200 <sup>31</sup> 250 250 320 320 <sup>1,30</sup> 350 350 <sup>1,30</sup> 400 400	<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>39</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 MH and PSMH 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>NFZ</b> Non Food Zone	<b>AR16</b> Open 16" Acrylic Reflector <b>AR22</b> Open 22" Acrylic Reflector <b>AR22T</b> Open 22" Translucent Acrylic Reflector <b>AR25</b> Open 25" Acrylic Reflector	<b>16FL</b> 16" Flat Acrylic Lens <b>16CL</b> 16" Conical Acrylic Lens <b>16DL</b> 16" Drop Acrylic Lens <b>22FL</b> 22" Flat Acrylic Lens <b>22CL</b> 22" Conical Acrylic Lens <b>22DL</b> 22" Drop Acrylic Lens <b>25FL</b> 25" Flat Acrylic Lens <b>25DL</b> 25" Drop Acrylic Lens

#### 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  
**HMR** Suspension Hook Male  
**SCB3** Ballast Retainer Chain 3'  
**WGA16** Wire Guard 16" Acrylic  
**WGA22** Wire Guard 22" Acrylic  
**WGA25** Wire Guard 25" Acrylic

#### Footnotes

<sup>1</sup>Not available in 480V.  
<sup>4</sup>Not available in High Pressure Sodium.  
<sup>8</sup>Coated lamp recommended.  
<sup>30</sup>Pulse Start Metal Halide Only.  
<sup>31</sup>Not available in standard Metal Halide.  
<sup>40</sup>Requires 120V secondary power supply.  
<sup>45</sup>Use with 208, 240, and 480 volt.  
<sup>46</sup>Use with 120, 277, and 347 volt.  
<sup>39</sup>Consult factory for availability.

#### 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.

**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

Acrylic reflector, 175-400W MH, 200-400W HPS, 175-400W PSMH

## Application

- HBE high bay features an enclosed, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications requiring upright and enclosed construction.

## Construction/Finish

- UL 1598 Listed suitable for damp location and 40°C ambient for all lamp wattages listed with magnetic ballast. Consult factory for ambient temperature rating for electronic ballast (WEB option).

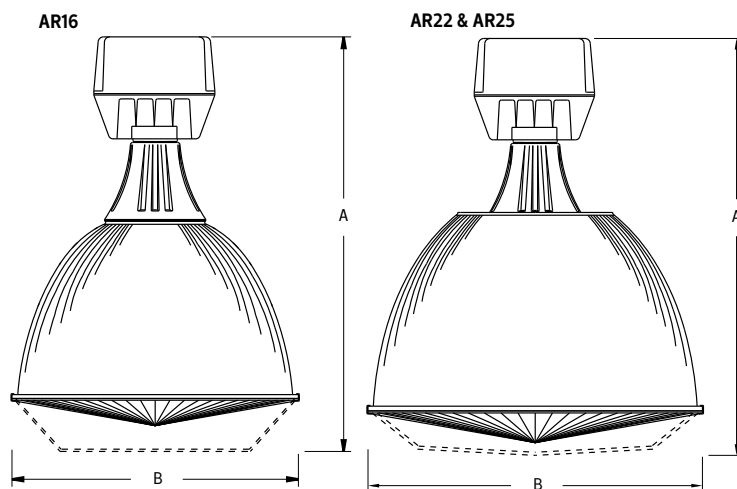
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Large wiring access with captive retainer screw.
- Heavy wall, two piece die cast aluminum housing with white polyester powder finish.
- Day-Brite "Slant 2" ballast mounting for cooler operation. Ballast has high temperature class 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.
- Injection molded 100% virgin acrylic prismatic reflector.
- Acrylic lens: conical, drop or flat.

## Enclosed Acrylic Temperature Guidelines

Lamp Wattage	175	200/250/320/350/400
Ambient Temp	40°C	40°C
Reflector/Lens		
AR16/16FL	X	
AR16/16CL	X	
AR16/16DL	X	
AR22/22FL	X	X
AR22/22CL	X	X
AR22/22DL	X	X
AR25/25FL	X	X
AR25/25DL	X	X

## Dimensions



### A DIMENSION

**AR16**  
 FL - 24-5/16" (617.5mm)  
 CL - 26-1/16" (661.9mm)  
 DL - 27-5/8" (701.6mm)

**AR22**  
 FL - 26-3/16" (665.1mm)  
 CL - 28-5/16" (719.1mm)  
 DL - 28-15/16" (735mm)

**AR25**  
 FL - 28-15/16" (735mm)  
 DL - 32" (812.8mm)

### B DIMENSION

**AR16**  
 16-1/4" (412.8mm)

**AR22**  
 22-7/16" (569.9mm)

**AR25**  
 25-3/8" (644.5mm)

## Energy Data

### HIGH PRESSURE SODIUM

CWA BALLAST INPUT WATTS
200 watt-240 watts
250 watt-295 watts
400 watt-464 watts

### METAL HALIDE

BALLAST INPUT WATTS		
CWA	WEB	
175 watt	210 watts	-
200 watt	232 watts	213 watts
250 watt	295 watts	263 watts
320 watt	368 watts	-
350 watt	400 watts	363 watts
400 watt	458 watts	413 watts

# HBE High bay

Acrylic reflector, 175-400W MH, 200-400WHPS, 175-400W PSMH

HBE COATED 400W MH AR22-22FL/POSITION 3																			
MEDIUM SPREAD S/MH = 1.7						TEST NO. 19333													
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	ZONE	END	45	CROSS	Degrees	Lumens	% Lamp	% Fixture	Angle	Avg Candela	Angle	Avg Candela	
	WALL	70	50	30	10	50	45	21528	20183	20683	(0-30)	7529	20.9	25.4	0	7754	95	1296	
	RCR	0	94	94	94	90	90	90	83	83	83	76	76	76	70	70	70	70	
	1	86	82	79	76	82	79	76	73	70	68	67	65	63	61	60	59	55	53
	2	79	73	67	63	75	70	65	61	64	61	57	60	57	54	55	53	50	47
	3	73	65	59	54	69	62	57	52	58	53	49	53	50	47	50	47	44	41
	4	67	58	51	46	64	56	50	45	52	47	43	48	44	41	45	41	39	37
	5	62	52	45	40	59	50	44	39	47	42	38	44	39	36	41	37	34	32
	6	57	47	40	36	55	46	39	35	43	37	33	40	35	32	37	33	30	28
	7	53	43	36	32	51	42	35	31	39	34	30	37	32	28	34	30	27	25
8	50	39	33	28	48	38	32	28	36	30	27	34	29	26	32	28	25	22	
9	46	36	30	25	44	35	29	25	33	28	24	31	26	23	29	25	22	20	
10	43	33	27	23	42	32	26	22	30	25	22	29	24	21	27	23	20	18	
AVERAGE BRIGHTNESS: ZONE 45, END 21528, CROSS 20183, 20683 ZONE 55, END 7244, CROSS 6976, 7495 ZONE 65, END 4517, CROSS 4375, 4418 ZONE 75, END 4838, CROSS 4748, 4806 ZONE 85, END 6128, CROSS 6109, 6080												ZONAL SUMMARY: (0-30) 7529 Lumens, 20.9% Lamp, 25.4% Fixture; (0-40) 13534 Lumens, 37.6% Lamp, 45.6% Fixture; (0-60) 20306 Lumens, 56.4% Lamp, 68.5% Fixture; (0-90) 24173 Lumens, 67.1% Lamp, 81.5% Fixture; (90-180) 5491 Lumens, 15.3% Lamp, 18.5% Fixture; (0-180) 29664 Lumens, 82.4% Lamp, 100.0% Fixture							
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.69 BASED ON 3000 HRS. AND \$.08 PER KWH. LER-65												45 6372 145 499 55 2133 155 478 65 1216 165 429 75 1176 175 471 85 1274							
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

AR22-22FL 250W		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	1.4	19292	
POSITION 2	1.5	19293	
POSITION 3	1.6	19294	
POSITION 4	1.9	19295	
POSITION 5	2.1	19296	
POSITION 6	2.2	19297	

AR22-22FL 400W		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	1.5	19331	
POSITION 2	1.6	19332	
POSITION 3	1.7	19333	
POSITION 4	2.0	19334	
POSITION 5	2.1	19335	
POSITION 6	2.2	19336	

AR25-25FL 400W		METAL HALIDE	
SOCKET	S/MH	TEST NUMBER	
POSITION 1	1.0	19355	
POSITION 2	1.1	19356	
POSITION 3	1.2	19357	
POSITION 4	1.5	19358	
POSITION 5	1.6	19359	
POSITION 6	1.7	19360	



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)

