

Day-Brite

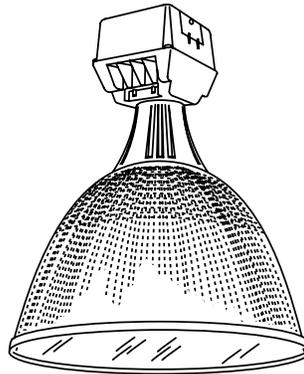
CFI

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
HBE			—			
HBE	175 175 ⁴ 200 200 ³¹ 250 250 320 320 ^{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 ³⁹	CUL UL Listing to meet CSA standards WEB Pulse Start Electronic Ballast Consult factory for available voltages and ambient temperature rating. OR Open Rated Socket (required for MH and PSMH lamps) (Exclusionary "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	AR16 Open 16" Acrylic Reflector AR22 Open 22" Acrylic Reflector AR22T Open 22" Translucent Acrylic Reflector AR25 Open 25" Acrylic Reflector	16FL 16" Flat Acrylic Lens 16CL 16" Conical Acrylic Lens 16DL 16" Drop Acrylic Lens 22FL 22" Flat Acrylic Lens 22CL 22" Conical Acrylic Lens 22DL 22" Drop Acrylic Lens 25FL 25" Flat Acrylic Lens 25DL 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

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

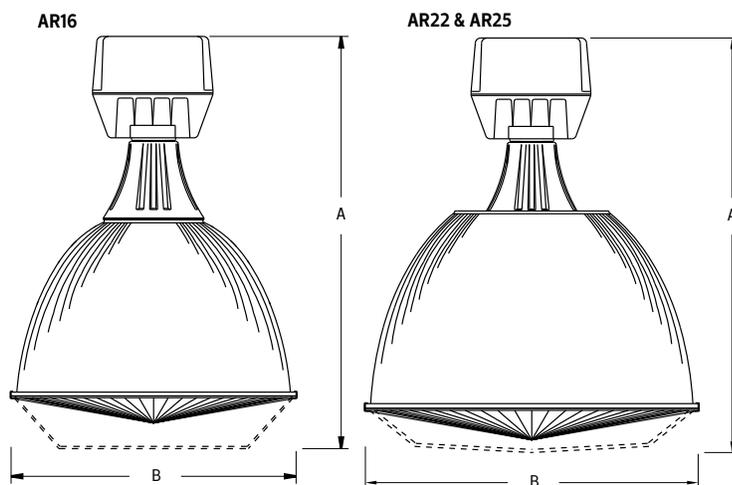
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Large wiring access with captive retainer screw.
- Heavy wall, two piece die cast aluminum housing with white polyester powder finish.
- Day-Brite "Slant 2" ballast mounting for cooler operation. Ballast has high temperature class 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	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	44
	4	67	58	51	46	64	56	50	45	52	47	43	48	44	41	45	41	39	39
	5	62	52	45	40	59	50	44	39	47	42	38	44	39	36	41	37	34	34
	6	57	47	40	36	55	46	39	35	43	37	33	40	35	32	37	33	30	30
	7	53	43	36	32	51	42	35	31	39	34	30	37	32	28	34	30	27	27
8	50	39	33	28	48	38	32	28	36	30	27	34	29	26	32	28	25	25	
9	46	36	30	25	44	35	29	25	33	28	24	31	26	23	29	25	22	22	
10	43	33	27	23	42	32	26	22	30	25	22	29	24	21	27	23	20	20	
AVERAGE BRIGHTNESS ZONE END 45 CROSS 45 21528 20183 20683 55 7244 6976 7495 65 4517 4375 4418 75 4838 4748 4806 85 6128 6109 6080											ZONAL SUMMARY Degrees Lumens % Lamp % Fixture (0-30) 7529 20.9 25.4 (0-40) 13534 37.6 45.6 (0-60) 20306 56.4 68.5 (0-90) 24173 67.1 81.5 (90-180) 5491 15.3 18.5 (0-180) 29664 82.4 100.0		CANDLEPOWER Angle Avg Candela 45 6372 145 499 55 2133 155 478 65 1216 165 429 75 1176 175 471 85 1274						
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.69 BASED ON 3000 HRS. AND \$.08 PER KWH. LER-65													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

