

Day-Brite

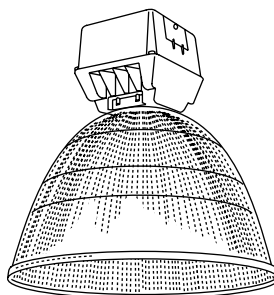
CFI

by @ignify

Industrial

HBA low bay

175-400W MH, HPS, or PSMH



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

Day-Brite / CFI HBA low bay is a high efficiency luminaire for general purpose and retail lighting. This luminaire is ideal for retail stores, warehouse aisles, and industrial applications where upright is required.

Ordering guide

Example: HBA400PMT-PSC-OR AR22

Ballast Assembly	Wattage	Lamp Source ⁸	Voltage	Options	Optical Assembly	Lens Assembly
HBA			—		—	
HBA	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 ballasts 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 2T 208/277 (WEB only)	CUL UL Listing to meet CSA standards WEB Pulse Start Electronic Ballast (Consult factory for available voltages and ambient temperature rating ⁴⁸) OR Option required for metal halide and pulse start metal halide 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	AR16 Open 16" Acrylic Reflector AR22 Open 22" 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
- **HP48-3** 3' Hook-Cord-Plug Assembly 480V
- **HMR** Suspension Hook Male
- **SCB3** Ballast Retainer Chain 3'
- **WGA16** Wire Guard 16" Acrylic
- **WGA22** Wire Guard 22" Acrylic
- **WGA25** Wire Guard 25" Acrylic

(Refer to Section 18000 for additional accessories.)

Footnotes

- ¹ Not available in 480V.
- ⁴ Not available in High Pressure Sodium.
- ⁸ Coated lamp recommended.
- ³⁰ Pulse Start Metal Halide Only.
- ³¹ Not available in standard Metal Halide.
- ⁴⁰ Requires 120 volt secondary power supply.
- ⁴⁵ Use with 208, 240, and 480 volt.
- ⁴⁶ Use with 120, 277, and 347 volt.
- ⁴⁸ May require deep ballast housing.
- ⁵⁶ Must specify voltage.

General Notes

- All accessories are field installed.
- Mogul base lamp only.
- All options factory installed.
- 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 the National Electrical Code.
- A phosphor coated protected lamp is recommended.
- For areas where optical assemblies are subject to impact (gymnasiums, etc.) use appropriate full wire cage. Installation using a hook, cord, and plug for flexibility is also recommended.
- 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.
- **Warning:** Many Metal Halide lamps are rated for enclosed fixtures only. Some lamps are specifically rated for open fixtures 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**



HBA Low bay

175-400W MH, HPS, or PSMH

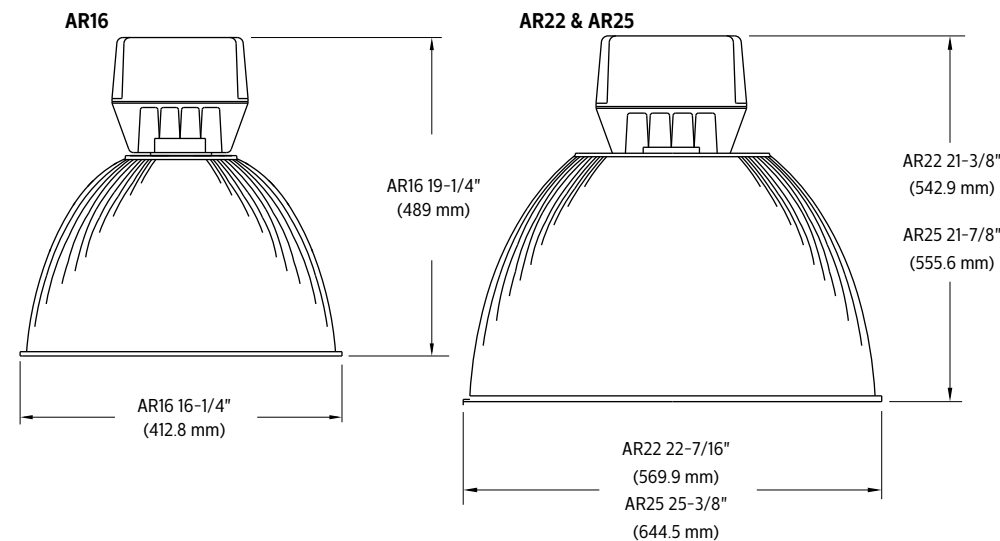
Application

- The Day-Brite / CFI HBA low bay is a high efficiency luminaire for general purpose and retail lighting. This luminaire is ideal for retail stores, warehouse aisles, and industrial applications where uplight is required.
- Heavy wall, one 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.
- Injection molder 100% virgin acrylic prismatic reflector.
- Large wiring access with captive retainer screw.

Construction/Finish

- UL 1598 Listed suitable for damp location.
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Use "O" rated, protect metal halide lamps only.

Dimensions



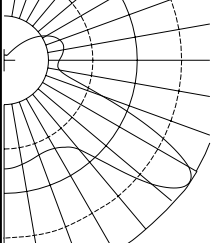
Energy Data

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	333 watts
350 watt	400 watts	363 watts
400 watt	458 watts	413 watts

HBA Low bay

175-400W MH, HPS, or PSMH

Photometry

HBA COATED 400W MH AR22																									
MEDIUM SPREAD S/MH = 1.5										TEST NO. 20643															
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	16573	17167	16893	(0-30)	2969	8.2	8.5	0	3760	95	1997
				WALL 70 50 30 10 70 50 30 10 50 30 10 50 30 10										55	25828	26018	25153	(0-40)	5314	14.8	15.1	5	3732	105	2085
				RCR										65	20632	20730	20063	(0-60)	16145	44.8	46.0	15	3563	115	1906
				0	110	110	110	105	105	105	105	95	95	95	86	86	86	78	78	78	78	78	78	78	
				1	98	92	86	82	78	75	71	71	68	65	63	61	59				25	3453	125	1447	
				2	87	77	69	63	62	73	66	60	66	60	55	59	54	50	53	49	35	3697	135	808	
				3	78	66	57	49	73	62	54	47	56	49	43	50	44	40	44	40	45	5171	145	262	
				4	70	57	47	40	66	54	45	38	48	41	35	43	37	32	38	33	29	55	7564	155	166
				5	63	49	40	32	59	47	38	31	42	34	28	37	31	26	33	28	24	65	5612	165	172
6	58	43	34	27	54	41	32	26	37	29	24	33	27	22	29	24	20	75	2375	175	185				
7	53	39	29	23	50	37	28	22	33	25	20	29	23	18	26	21	17	85	1890						
8	49	35	26	20	46	33	25	19	30	22	17	26	20	16	24	18	14								
9	45	31	23	17	43	30	22	16	27	20	15	24	18	14	21	16	12								
10	42	29	20	15	40	27	20	14	25	18	13	22	16	12	20	15	11								
										COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS															
										= \$3.12 BASED ON 3000 HRS. AND \$.08 PER KWH.															
										LER=77															
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

DESCRIPTION	S/MH	TEST NUMBER
HBA400M-AR16	1.8	20435 (COATED LAMP)
HBA400M-AR25	2.3	20644 (COATED LAMP)

AMBIENT TEMPERATURE GUIDELINES (°C)								
OPTICAL ASSEMBLY	LENS ASSEMBLY	LAMP WATTAGE						
		50-150	175	200	250	320	350	400
AR16	(OPEN)	40	40	40	40	n/a	n/a	n/a
	16FL	35	35	35	35	n/a	n/a	n/a
	16CL	35	35	35	35	n/a	n/a	n/a
	16DL	35	35	35	35	n/a	n/a	n/a
AR22	(OPEN)	40	40	40	40	40	40	40
	22FL	40	40	40	40	30	30	30
	22CL	40	40	40	40	30	30	30
	22DL	40	40	40	40	30	30	30
AR25	(OPEN)	40	40	40	40	40	40	40
	25FL	40	40	40	40	35	35	35
	25DL	40	40	40	40	35	35	35



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

