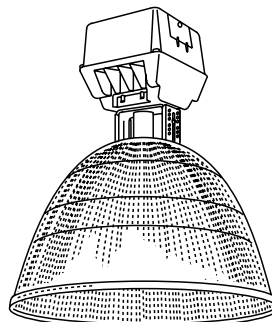


Industrial

HBO high bay

Acrylic reflector
175-400W MH, 200-400W HPS,
175-450W PSMH



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

Day-Brite / CFI HBO high bay features an open, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications where upright is required.

Ordering guide

Example: HBO400PMT-PSC-OR AR22

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical
HBO			—		
HBO	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 ⁹⁹	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 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 NFZ Non Food Zone	AR16 Open 16" Acrylic Reflector AR22 Open 22" Acrylic Reflector AR22T Open 22" Translucent Acrylic Reflector

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

Lens accessories: order separately

16FL	16" Flat Acrylic Lens (250W max)
16CL	16" Conical Acrylic Lens (250W max)
16DL	16" Drop Acrylic Lens (250W max)
22FL	22" Flat Acrylic Lens (400W max)
22CL	22" Conical Acrylic Lens (400W max)
22DL	22" Drop Acrylic Lens (400W max)

(Refer to Section 18000 for additional accessories.)

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.
⁹⁹Consult 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.
- 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 the National Electrical Code.
- A phosphor protected lamp is recommended.

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

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

Application

- HBO high bay features an open, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications where uplight is required.

Construction/Finish

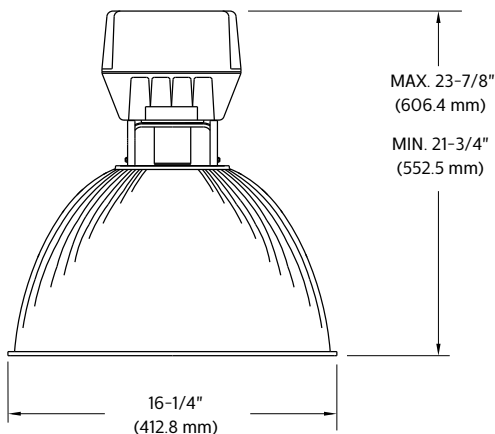
- UL 1598 Listed suitable for damp location and 40°C ambient for all lamp wattages listed with magnetic ballast. Consult factory for ambient temperature rating for electronic ballast (WEB option). (55°C ambient for AR22 400 watt and below.)

- 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.

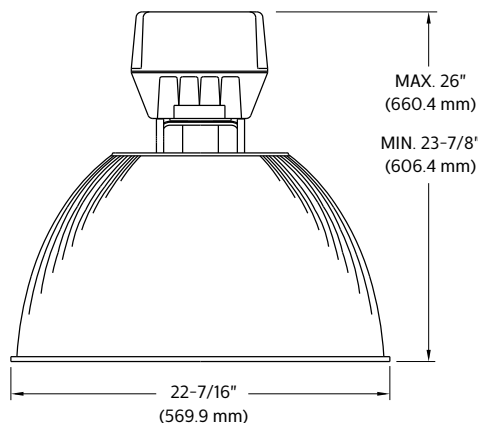
- Heavy gauge yoke provides positive mounting of reflector to ballast assembly and field adjustable light distribution patterns.
- Injection molded 100% virgin acrylic prismatic reflector.

Dimensions

AR16



AR22



Energy Data

HIGH PRESSURE SODIUM

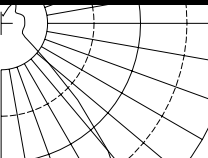
CWA BALLAST INPUT WATTS	
200 watt	240 watts
250 watt	295 watts
400 watt	464 watts

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

HBO High bay

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

HBO COATED 400W MH AR22/POSITION 1																							
MEDIUM SPREAD S/MH = 1.5										TEST NO. 18438													
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	15448	13112	15629	(0-30)	9421	26.2	29.4	0	10338	95	1205	
	WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	5	10133	105	1192	
	RCR														(0-60)	16047	44.6	50.1	0	10303	115	1023	
	0	102	102	102	82	79	97	97	97	89	89	89	82	82	82	75	75	75	25	11572	125	822	
	1	93	89	86	82	89	85	82	79	79	76	74	72	70	68	66	65	64	35	10888	135	881	
	2	86	79	74	69	82	76	71	67	70	66	63	65	62	59	60	57	55	45	5452	145	1009	
	3	79	71	65	59	76	68	62	58	63	59	55	59	55	52	54	51	49	55	1928	155	697	
	4	73	64	57	52	70	62	55	50	57	52	48	53	49	46	50	46	43	65	1168	165	379	
	5	68	58	51	45	65	56	49	44	52	47	42	49	44	41	45	42	39	75	1144	175	450	
	6	63	53	45	40	60	51	44	40	48	42	38	45	40	36	42	38	35	85	1197			
	7	59	48	41	36	56	46	40	35	44	38	34	41	36	33	38	34	31					
	8	55	44	37	32	53	43	36	32	40	35	31	38	33	30	36	31	28					
	9	51	41	34	29	49	39	33	29	37	32	28	35	30	27	33	29	26					
10	48	37	31	27	46	36	30	26	34	29	25	32	28	24	31	27	24						
										COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.43 BASED ON 3000 HRS. AND \$.08 PER KWH. LER=70													
These photometric results were obtained in the Philips Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.																							