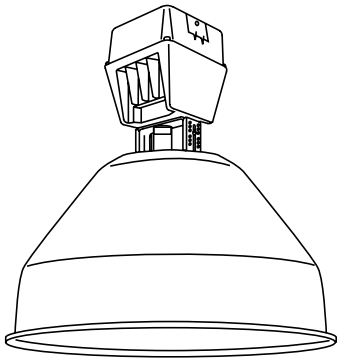
Day-Brite CFI by signify

Industrial

HBO high bay

Aluminum reflector
1000W MH, 1000W HPS,
875W 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: HBO10XMMT A24

Ballast Assembly	Wattage	Lamp Source	Voltage	Options	Optical	Optical Options
HBO			–			
HBO	**750** 750[30] **875** 875[30] **10X** 1000[33]	**M** Metal Halide **S** High Pressure Sodium **P** Pulse Start Metal Halide (PSC Ballast option must also be specified)	**12** 120 **20** 208 **24** 240 **27** 277 **34** 347 **48** 480 **MT** 120/208 240/277 **TT** 120/277 347 **5T** 120/208/240/ 277/480[99]	**CUL** UL Listing to meet CSA standards **OR** Open Rated Socket (required for metal halide and pusle start metal halide lamps) (Exculsionary "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] **65** 65˚C Ambient **NFZ** Non Food Zone	**A24** Open 24" Aluminum Reflector (MH only) **A24S** Open 24" Aluminum Reflector (HPS only)	**WT** 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

[30]Pulse Start Metal Halide Only.
[33]Not available in Pulse Start 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..
[99]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 luminiares, open rated lamp and exculsionary 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.

E **Standard Metal Halide**
Between 175W and 400W
Not available in USA

c UL us

HBO High bay

Aluminum reflector, 1000W MH, 1000W HPS, 875W PSMH

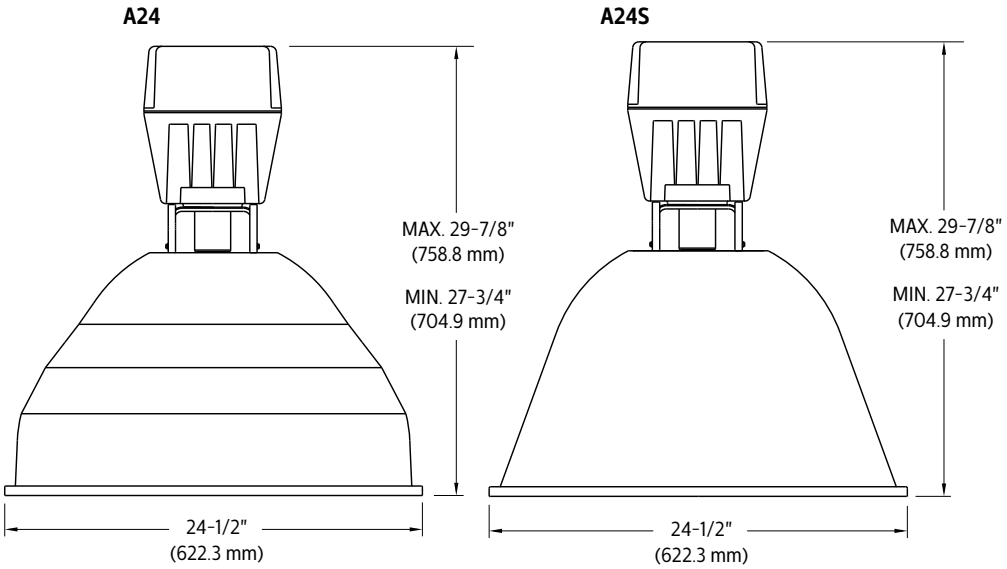
Application

- HBO high bay Luminaire features open spun aluminum reflectors for maximum efficiency in general purpose retail, educational and industrial applications.

Construction/Finish

- UL 1598 Listed suitable for damp location and 55°C ambient for all lamp wattages listed.
- 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.
- Precision spun heavy gauge aluminum reflector with clear anodized finish.

Dimensions



Energy Data

HIGH PRESSURE SODIUM

CWA BALLAST INPUT WATTS
1000 watt–1100 watts

METAL HALIDE

CWA BALLAST INPUT WATTS
750 watt–820 watts
875 watt–940 watts
1000 watt–1080 watts

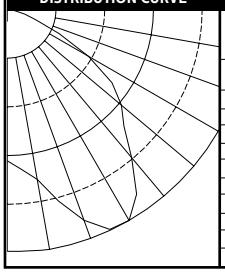
HBO High bay

Aluminum reflector, 1000W MH, 1000W HPS, 875W PSMH

HBO 1000W MH A24/POSITION 4

MEDIUM SPREAD S/MH = 1.8 **TEST NO. 18714**

DISTRIBUTION CURVE



COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

CEIL	80				70				50				30				10			
WALL	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	
RCR																				
0	96	96	96	96	94	94	94	94	90	90	90		86	86	86		82	82	82	
1	89	86	83	80	87	84	81	79	81	78	76		77	76	74		75	73	72	
2	82	76	71	66	80	74	70	66	71	67	64		69	66	63		66	64	61	
3	75	67	61	56	73	66	60	55	63	58	54		61	57	54		59	56	53	
4	69	59	53	48	67	58	52	47	56	51	47		55	50	46		53	49	45	
5	63	53	46	41	61	52	46	41	51	45	40		49	44	40		47	43	40	
6	58	48	41	36	57	47	40	36	46	40	35		44	39	35		43	38	35	
7	54	43	36	31	52	43	36	31	41	35	31		40	35	31		39	34	31	
8	50	39	33	28	49	39	32	28	38	32	28		37	31	27		36	31	27	
9	47	36	29	25	45	35	29	25	34	29	25		34	28	25		33	28	24	
10	44	33	27	22	43	33	26	22	32	26	22		31	26	22		30	26	22	

AVERAGE BRIGHTNESS

ZONE	END	45	CROSS
45	89139	85501	83994
55	85161	84894	81117
65	51640	50156	44699
75	26658	22624	22510
85	8244	7750	6669

ZONAL SUMMARY

Degrees	Lumens	% Lamp	%Fixture
(0-30)	25469	23.2	28.7
(0-40)	44852	40.8	50.5
(0-60)	78172	71.1	87.9
(0-90)	88868	80.8	100.0
(90-180)	22	0.0	0.0
(0-180)	88891	80.8	100.0

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = $2.93 BASED ON 3000 HRS. AND $.08 PER KWH. LER=82

CANDLEPOWER

Angle	Avg. Candela	Angle	Avg. Candela
0	21484	95	0
5	22463	105	0
15	26856	115	0
25	33078	125	0
35	31091	135	0
45	22654	145	0
55	17846	155	20
65	7669	165	13
75	2302	175	0
85	245		

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 1000 WATT — METAL HALIDE

SOCKET	S/MH	TEST NUMBER
POSITION 1	0.9	18717
POSITION 2	1.1	18716
POSITION 3	1.2	18715
POSITION 4	1.7	18714
POSITION 5	1.9	18713
POSITION 6	2.1	18712

A24-WT 1000 WATT — METAL HALIDE

SOCKET	S/MH	TEST NUMBER
POSITION 1	1.2	19151
POSITION 2	1.3	19150
POSITION 3	1.4	19149
POSITION 4	1.5	19148
POSITION 5	1.5	19147
POSITION 6	1.5	19146

A24S 1000 WATT — HPS

SOCKET	S/MH	TEST NUMBER
POSITION 4	0.5	18325
POSITION 5	0.8	18324
POSITION 6	1.2	18323

Hg

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

Signify

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