

PHILIPS

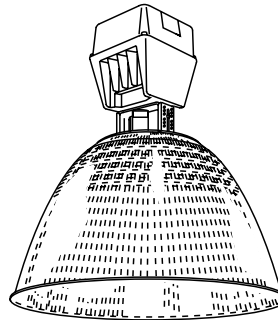
Day-Brite

CFI

Industrial

HCO high bay

Acrylic reflector
210-315W PSMH



Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

The Philips Day-Brite / Philips CFI HCO high bay utilizes an open, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications where uplight is required.

Ordering guide

Example: HCO210P2T-WEB-ADV-OR AR22

Ballast Assembly	Wattage	Lamp Source	Voltage	Ballast Options	Options	Optical
HCO		P	—	WEB-ADV —		
HCO	210 210 315 315	P Pulse Start Metal Ceramic Halide	12 120 2T 208/240/277 34 347 48 480	WEB-ADV Electronic Ballast	CUL UL Listing to meet CSA standards Q Quartz Standby QTD Quartz Time Delay WDF Wired Double Fuse ⁴⁵ WSF Wired Single Fuse ⁴⁶ OR Open Rated Socket (required for metal halide and pulse start metal halide lamps) (Exclusionary "pink" socket)	AR22 Open 22" Acrylic Reflector AR22T Open 22" Translucent Acrylic Reflector (Shipped in separate carton)

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
LMR	Suspension Loop Male
HB-CK-10-3	High Bay Cable Kit, 10' Ballast Safety Cable, 3' Optical Safety Cable
SCB3	Ballast Retainer Chain 3'
WGA22	Wire Guard 22" Acrylic
WCG250	Wire cage for 22" Acrylic (for use with AR22, AR22T)

Footnotes

- ⁴⁵Use with 208, 240, and 480 volt.
⁴⁶Use with 120, 277, and 347 volt.

General Notes

- All accessories are field installed.
- 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 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.



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



HCO High bay

Acrylic reflector, 210–315W PSMH

Application

- An open, acrylic reflector for maximum efficiency in general purpose retail, educational and industrial applications where uplight is required.

Construction/Finish

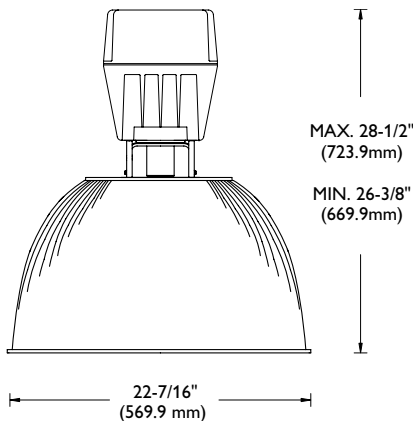
- UL 1598 Listed suitable for damp location and 40°C ambient (55°C for AR22-AR22T) for all lamp wattages listed.
- Philips Electronic Ballast.
- Philips Master Color Elite CDM lamp with 90 CRI.

- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Heavy wall, two piece die cast aluminum ballast housing with white polyester powder finish for excellent corrosion resistance.
- Heavy gauge yoke provides positive mounting of the reflector to the ballast assembly and field adjustable light distribution.
- Injection molded 100% virgin acrylic prismatic reflector.
- Optional NSF Certification for Non food zone.

- Use "O" rated, protected lamps only.
- Large wiring access with captive retainer screw.

Dimensions

AR22/AR22T



Energy Data

2T Input Watts

210 Watts–229 Watts
315 Watts–343 Watts

Note: For 120V add 15 Watts.

HCO High bay

Acrylic reflector, 210-315W PSMH

HCO high bay 315W PSMH

Efficiency – 88.8%

LER – 94

Catalog No.	HCO315P2T-WEB-ADV-OR-AR22T	Candlepower		Light Distribution				Average Luminance			
		Angle	Avg. Candela	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
Test No.	29207	0	9534	0-30	6895	19.0	21.5	45	24438	24622	24535
Wide Spread S/MH	1.4	5	9417	0-40	12208	33.7	38.0	55	11918	11296	10802
Lamp Type	315WCMH	15	7839	0-60	21036	58.1	65.5	65	7162	7126	7147
Lumens/Lamp	36200	25	8156	0-90	25446	70.3	79.2	75	5359	5371	5363
Ballast Factor	1.0	35	8547	90-180	6664	18.4	20.8	85	4278	4278	4207
Input Watts	341	45	7578	0-180	32111	88.8	100.0				
		55	3375								
		65	1981								
		75	1333								
		85	903								
		95	816								
		105	932								
		115	1010								
		125	1104								
		135	1439								
		145	1368								
		155	1783								
		165	733								
		175	653								

Comparative yearly lighting energy cost per 1000 lumens – **\$2.38** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.


Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

	80				70				50				30				10			
Ceil	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	97	97	97	97	88	88	88	81	81	81	74	74	74	74	74	74
1	92	88	84	81	88	84	81	78	77	75	72	71	69	67	65	63	62	65	63	62
2	84	77	72	67	80	74	69	65	68	64	60	62	59	56	57	55	52	57	55	52
3	77	68	61	56	73	66	59	54	60	55	51	56	51	48	51	48	45	51	48	45
4	71	61	53	48	67	58	52	46	54	48	44	50	45	41	46	42	39	46	42	39
5	65	54	47	41	62	52	45	40	48	43	38	45	40	36	41	37	34	41	37	34
6	60	49	41	36	57	47	40	35	44	38	33	40	35	32	38	33	30	38	33	30
7	56	44	37	32	53	43	36	31	40	34	29	37	32	28	34	30	27	34	30	27
8	52	40	33	28	49	39	32	27	36	30	26	34	29	25	31	27	24	31	27	24
9	48	37	30	25	46	36	29	25	33	28	24	31	26	22	29	25	21	29	25	21
10	45	34	27	23	43	33	26	22	31	25	21	29	24	20	27	22	19	27	22	19

ADDITIONAL TEST NUMBERS

REFLECTOR TYPE	NO. OF LAMPS	TEST NUMBER
AR22	1	29201
AR22	2	29200
AR22	3	29199
AR22	4	29198
AR22	5	29197
AR22	6	29196
AR22T	1	29207
AR22T	2	29206
AR22T	3	29205
AR22T	4	29204
AR22T	5	29203
AR22T	6	29202

 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

