



16" PRISMATIC HIGHBAY

The 16" Prismatic Highbay is ideal for use in areas where both horizontal and vertical illumination is important. Ideal for use in areas being used for manufacturing, retail or large open areas.

BALLAST HOUSING Two-piece, heavy duty die cast aluminum with heat fins and an integral splice box mounting flange. Ballast housing is painted white using a powder coat paint finish.

REFLECTOR Prismatic UV-stabilized, high efficiency acrylic reflector provides high vertical foot candles while maintaining low brightness. Upper collar is painted white. Reflector system is fully adjustable to provide a wide range of light distributions while providing approximately 20% uplight.

OPTIONS FOR REFLECTOR SYSTEM

The prismatic highbay has several options for bottom lens. A flat acrylic bottom lens, conical lens or a drop lens. All options are UV-stabilized.

BALLAST All ballasts are Tri-Tap 120,277,347 volts. For 208 and 240 CWI options please consult factory. Available wattages for High Pressure Sodium are 250HPS and 400HPS. For Metal Halide 175MH, 250MH and 400MH Also available are 250MHP, 320MHP, 400MHP and 450MHP watt Pulse Start Metal Halide. Ballasts are factory wired to customers choice of voltage.



LAMP All units come complete with lamp.

SOCKET Mogul base 4KV pulse-rated socket with a nickle-plated screw shell and a spring-loaded centre contact. Also available is an open rated socket for 175MH, 250MH, 250MHP, 320MHP, 400MHP and 450MHP and lamps.

OPTIONS Quartz standby and single and double fusing. Standard unit comes with 4 feet of cab tire. For other lengths please consult factory.

Catalog Code

HB-PR16

LAMP

250HPS 400HPS 175MH*
250MH* 400MH 250MHP*
320MHP* 400MHP 450MHP

VOLTAGE

120 277 347 208CWI**
240CWI**

LENS

CL - CONICAL LENS
FL - FLAT LENS
DL - DROP LENS

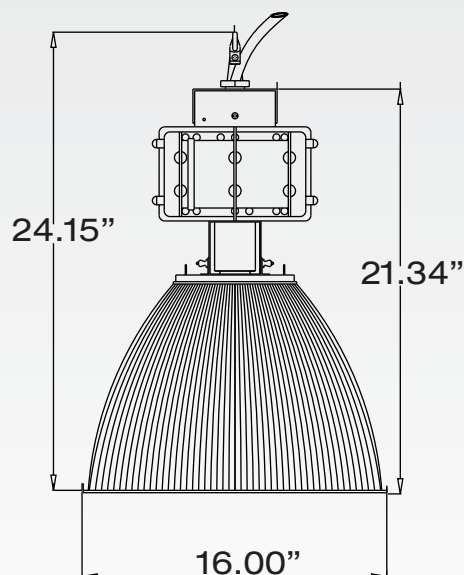
OPTIONS

AS - QUARTZ RE-STRIKE
(LAMP INCLUDED)
SF - SINGLE FUSE
DF - DOUBLE FUSE

*** MUST USE EITHER AN OPEN RATED LAMP OR A LENS**

**** NOT AVAILABLE ON ALL WATTAGES**

Dimensions



CATALOG NUMBER:

FILENAME: HB-400MH-PR16.IES

WITH PLASTIC PRISMATIC REFRACTOR 16" OPEN BOTTOM
ONE 400W CLEAR METAL HALIDE LAMP. LUMEN RATING = 36000 LMS.

SUMMARY DATA

EFFICIENCY (Total): 86.6 %
EFFICIENCY (Downlight): 74.4 %
EFFICIENCY (Uplight): 12.2 %
CIE CLASSIFICATION: SEMI-DIRECT
SPACING CRITERION (0-Deg.): 2.31
LUMENS/LAMP: 36000
NO. OF LAMPS: 1
LUMINOUS OPENING: RECTANGULAR

Width: 1.01 (Feet)
Length: 1.29
Height: 0.88

INPUT WATTS: 440
RP-1-93 VDT CONFORMANCE: NON-CONFORMING

ZONAL LUMEN SUMMARY

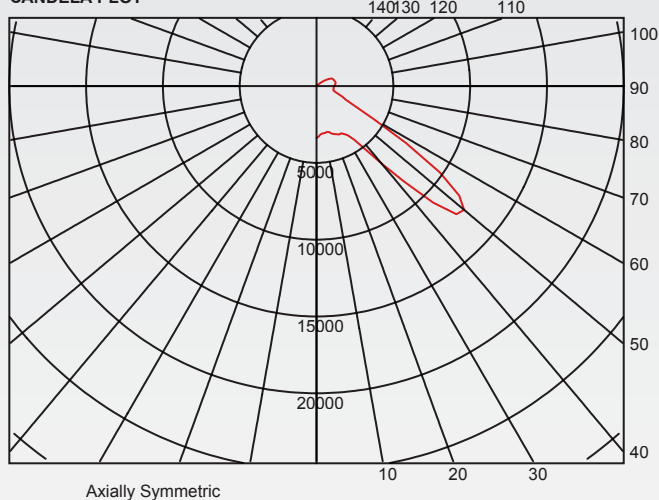
Zone	Lumens	% Lamp	% Luminaire
0 - 30	2800.5	7.8	9.0
0 - 40	5708.8	15.9	18.3
0 - 60	21919.0	60.9	70.3
60 - 90	4883.9	13.6	15.7
0 - 90	26802.9	74.5	85.9
90 - 180	4385.8	12.2	14.1
0 - 180	31188.8	86.6	100.0

AVERAGE LUMINANCE

(Candelas / Square Meter)

Angle	0
0	27944
45	74631
55	71565
65	16658
75	10487
85	12130

CANDELA PLOT



COEFFICIENT OF UTILIZATION TABLE

Effective Floor cavity Reflectance = 20%

Pcc ...	80	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Pw ...	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	1.00	1.00	1.00	1.00	.96	.96	.96	.96	.89	.89	.89	.83	.83	.83	.77	.77	.77	.74	
1	.90	.86	.82	.78	.87	.83	.79	.76	.77	.74	.71	.71	.69	.67	.66	.64	.63	.60	
2	.81	.74	.67	.62	.78	.71	.65	.60	.66	.61	.57	.61	.57	.54	.57	.54	.51	.48	
3	.73	.63	.56	.50	.70	.61	.54	.49	.57	.51	.46	.53	.48	.44	.49	.45	.42	.39	
4	.66	.55	.47	.40	.63	.53	.45	.39	.49	.43	.38	.46	.40	.36	.42	.38	.34	.32	
5	.60	.48	.39	.33	.57	.46	.38	.32	.43	.36	.31	.40	.34	.29	.37	.32	.28	.26	
6	.54	.42	.34	.28	.52	.40	.33	.27	.38	.31	.26	.35	.29	.24	.32	.27	.23	.21	
7	.50	.37	.29	.23	.47	.36	.28	.23	.33	.26	.22	.31	.25	.21	.29	.24	.20	.18	
8	.46	.33	.25	.20	.43	.32	.24	.19	.30	.23	.18	.28	.22	.17	.26	.20	.17	.15	
9	.42	.30	.22	.17	.40	.29	.21	.16	.27	.20	.16	.25	.19	.15	.23	.18	.14	.12	
10	.39	.27	.19	.15	.37	.26	.19	.14	.24	.18	.14	.22	.17	.13	.21	.16	.12	.11	

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