



## 18" ALUMINUM HIGHBAY

*The 18" Highbay is ideal for large areas with high-mounting heights that require high efficiencies and horizontal illumination. Ideal for manufacturing areas, warehouses and large retail spaces.*

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

**REFLECTOR** Anodized, spun aluminum reflector. Ventilated design carries contaminants out of the top of the reflector. Optical system is adjustable and accommodates the full range of light distributions.

**BALLAST** All ballasts are Tri-Tap 120,277,347 volts. For 208 and 240 CWI options please consult factory. Available wattages are 250HPS and 400HPS and 250MH and 400MH. Pulse start also available in 250MHP, 320MHP, 350MHP, 400MHP and 450MHP. 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 nickel-plated screw shell and a spring-loaded centre contact. Also available is an open rated socket for 175MH, 250MH, 250MHP, 320MHP, 350MHP, 400MHP, and 450MHP lamps.

**OPTIONS** Quartz standby, wire guard, upper dust cover, single and double fusing. Standard unit comes with 4 feet of cable. For other lengths please consult factory.



[www.rabdesign.ca](http://www.rabdesign.ca)

## Catalog Code

**HB-18**

LAMP

VOLTAGE

OPTIONS

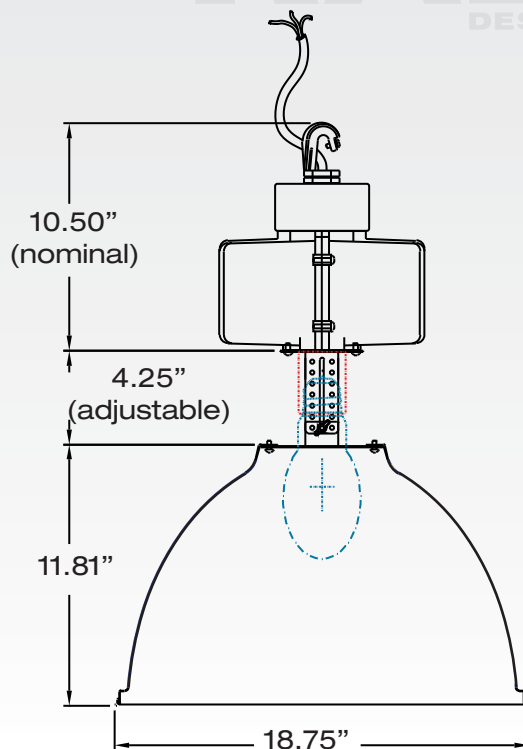
250HPS 400HPS  
175MH\* 250MH\* 400MH  
250MHP\* 320MHP\* 400MHP\*  
450MHP\*

120, 277, 347  
208CWI\*\*, 240CWI\*\*

DC - DUST COVER  
AS - QUARTZ RE-STRIKE  
(LAMP INCLUDED)  
SF - SINGLE FUSE  
DF - DOUBLE FUSE  
WG - WIRE GUARD

\* MUST USE EITHER AN OPEN RATE LAMP OR LENS  
\*\* NOT AVAILABLE ON ALL WATTAGES

## Dimensions



CATALOG NUMBER: HB-18-400MHPOS1

FILENAME: HB-18-400MHPOS1.IES

IESNALM-63-1995

(MANUFAC) RAB DESIGN

(LUMINAIRE) HI-BAY

(LUMCAT) HB-18-400MHPOS1

(LAMP) 400W MH

SUMMARY DATA

EFFICIENCY (Total): 82.1 %

EFFICIENCY (Downlight): 81.8 %

EFFICIENCY (Uplight): 0.3 %

CIE CLASSIFICATION: DIRECT

SPACING CRITERION (0-Deg.): 1.97

LUMENS/LAMP: 40000

NO. OF LAMPS: 1

LUMINOUS OPENING: RECTANGULAR

Width: 0.47 (Meters)

Length: 0.47

Height: 0.00

INPUT WATTS: 440

RP-1-93 VDT CONFORMANCE: NON-CONFORMING

ZONAL LUMEN SUMMARY

AVERAGE LUMINANCE

(Candelas / Square Meter)

Zone Lumens % Lamp % Luminaire

0 - 30 17724.1 44.3 55.5

0 - 40 23325.4 58.3 73.0

0 - 60 29313.2 73.3 91.8

60 - 90 1436.3 3.6 4.5

0 - 90 30749.5 76.9 96.3

90 - 180 1185.6 3.0 3.7

0 - 180 31935.1 79.8 100.0

COEFFICIENT OF UTILIZATION TABLE

Effective Floor cavity Reflectance = 20%

Pcc ... 80 70 50 30 10 0

Pw ... 70 50 30 10 0

RCR

0 .98 .98 .98 .98 .95 .95 .95 .95 .91 .91 .91 .87 .87 .87 .84 .84 .84 .82

1 .90 .86 .83 .80 .87 .84 .81 .78 .81 .78 .76 .77 .75 .73 .74 .73 .71 .69

2 .81 .75 .69 .65 .79 .73 .68 .64 .70 .66 .62 .67 .64 .61 .65 .62 .59 .58

3 .74 .65 .58 .53 .72 .64 .58 .53 .61 .56 .52 .59 .54 .51 .57 .53 .50 .48

4 .67 .57 .50 .44 .65 .56 .49 .44 .54 .48 .43 .52 .47 .43 .50 .46 .42 .40

5 .61 .51 .43 .37 .60 .50 .43 .37 .48 .42 .37 .46 .41 .36 .45 .40 .36 .34

6 .56 .45 .37 .32 .55 .44 .37 .32 .43 .36 .32 .41 .36 .31 .40 .35 .31 .29

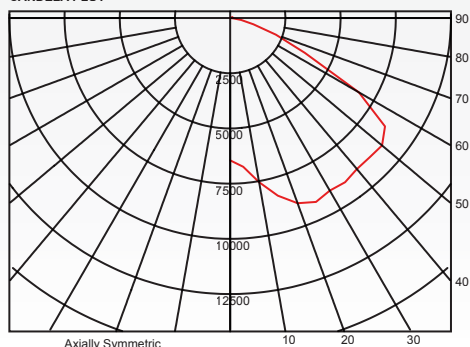
7 .52 .40 .33 .28 .50 .40 .33 .28 .38 .32 .27 .37 .31 .27 .36 .31 .27 .25

8 .48 .37 .29 .24 .47 .36 .29 .24 .35 .29 .24 .34 .28 .24 .33 .28 .24 .22

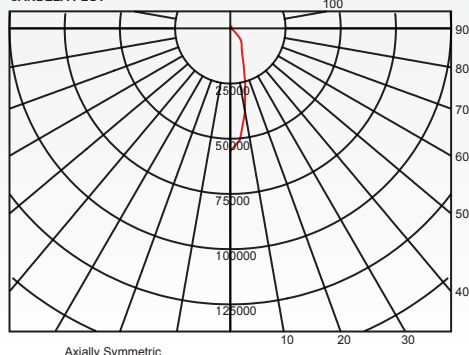
9 .45 .33 .26 .22 .43 .33 .26 .21 .32 .26 .21 .31 .25 .21 .30 .25 .21 .20

10 .42 .30 .24 .19 .41 .30 .24 .19 .29 .23 .19 .28 .23 .19 .28 .22 .19 .17

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