

## HBH – Economy 17” Partial Cutoff Hi-Bay

### Economy

- The HBH with its rugged design and compact body is one of the most cost effective ways to get a Hi-bay or Lo-Bay lumen package into the air
- Partial cutoff (the lamps partially exposed when viewed from the side) allows some lateral light and helps where “cave effect” is a concern.

### Controls Options

- Accepts end mount occupancy sensor.

### Lens Options

- Please see HBL, HRM, HRW, or HRS series.

### The Usual

- Fast deliveries, custom configurations, expert application support.

### Our Experience

- We’ve been focused on nothing but supporting energy efficient re-lighting projects since 1992. Hit a dead end? Give our application support team a try.

### HBH Partial Cutoff Hi-Bay



### Application

- A versatile Hi-bay or Lo-bay for general commercial, industrial, and distribution applications.
- Can be factory equipped with occupancy sensor.
- Available in 4 or 6 lamp, T5 or T8.
- Enhanced aluminum reflector ideal for Hi-bays.
- Hi-ref white aluminum reflector ideal for Lo-bays.

## HBH – 2x4 – 6L – T8 – UL2 – HP – PS – UE – EA – CD – C8 – SH4

HBH	2x4	6L	T8	UL2	HP	PS	UE	EA	CD	C8	SH4	
Model	Fixt Size	Lamp Qty	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Reflector Material	Body Material	Cord Plug	Occ Sensor	Other

#### Fixture Model

HBH

#### Fixture Size

2x4 = 2x4 Nominal

#### Lamp Qty

xL = x Indicates quantity of lamps

#### Lamp Type

T5HO = Linear T5HO Lamps

T8 = Linear T8 Lamps

#### Voltage (1)

UHx = Universal 347-480

ULx = Universal 120-277

#### Ballast Factor (2)

MN = Neutral Power (.97 - 1.04)

HP = High Power (1.15 - 1.20)

#### Ballast Starting

IS = Instant Start

ISD = Instant Start Step Dimming

PS = Programmed Start

PSD = Program Start Step Dimming

PSH = Program Start Hi-Lo

#### Ballast Grade

ST = Standard Grade

UE = Ultra Efficient T8

#### Reflector Material

EA = Enhanced Aluminum 93-94%

MM = Micro Matte 91-93%

WA = White Aluminum Reflector 90-91%

#### Body Material

CR = 22 Gauge Cold Rolled Steel Body

CD = 20 Gauge Cold Rolled Steel Body

HA = Heavy Duty Aluminum Body

VA = Heavy Duty Vented Aluminum Body

#### Cord & Plug

C8 = 8’ Cord, No Plug

C8/L715 = 8’ Cord & Plug (L7-15P)

PQC15 = 15’ Cord/Quick Connect

#### Occupancy Sensor(3)

SHx = Standard 360 View Hi-Bay

RHx = Rectangular Aisle View Hi-Bay

SLx = Standard 360 View Lo-Bay

RLx = Rectangular Aisle View Lo-Bay

#### Other (Sensor)

DR = Dual Relay, Dual Delay Sensor

DO = Daylight Over Occupancy Sensor

XT = Lo Temp / Wet Location Sensor

LB = Sensor Leveling Box

(Not required for HBH)

PF = Partial/Full Switch

#### Other

LF = Factory Lamps (Lamp spec elsewhere)

WG = Wireguard

#### Numeric Footnotes

(1) Numerical indicates number of ballasts per fixture.

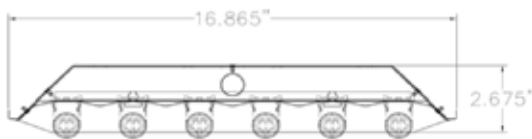
(2) Ballast factors outside ranges shown to be called out numerically.

(3) Numerical indicates number of lamps controlled.

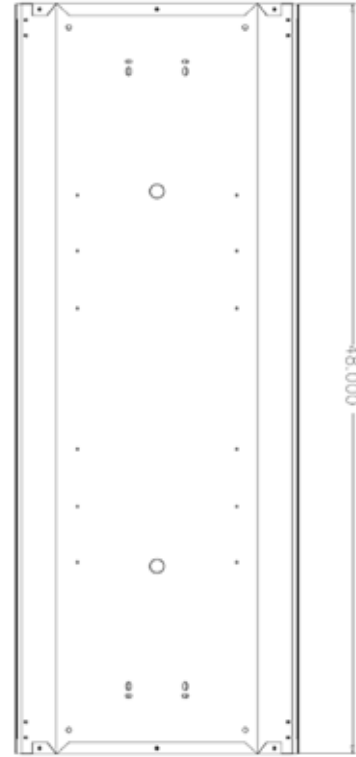
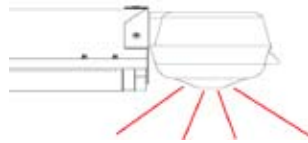
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### Fixture Construction

- Choice of code gauge (20g) steel body, (22g) steel body (standard), or heavy duty (.032) vented aluminum body.
- End mount sensor does not require leveling box.
- Steel endplates for maximum rigidity.
- Environmentally friendly and labor saving bulk project packaging.
- Dottie slot mounting points and V-hangers included.
- Made in the USA: Hudson WI, Gainesville FL, Orange County CA.



End Mount Sensor



### Existing System

Existing Hi-Bay System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens All Lamps	Total Fixture Lumens	Ballast Factor	Fixture Efficiency	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts
MH320PS	1 PS MH320	31,700	62%	19,654	19,654	1.00	0.75	14,741	1.49	20,119	368
MH400	1 Std MH400	38,000	58%	22,040	22,040	1.00	0.75	16,530	1.49	22,561	458
HPS400	1 Std HPS400	50,000	70%	35,000	35,000	1.00	0.75	26,250	0.62	18,080	464

### Re-Lighting Options

Proposed Hi-Bay System	Lamp Qty & Type	Initial Lamp Lumens	Lumen Maintenance	EOL(1) Lumens All Lamps	Total Fixture Lumens	Ballast Factor	Fixture Efficiency	EOL(1) Lumens Per Fixt	S/P (2) Ratio	Net (3) EOL Lumens	Fixt Input Watts
4L-T5HO	4 FP54T5HO	5,000	93%	4,650	18,600	1.00	0.92	17,112	1.62	24,930	234
6L-T5HO	6 FP54T5HO	5,000	93%	4,650	27,900	1.00	0.92	25,668	1.62	37,395	351
4L-T8 Plus	4 F32T8/841	2,950	90%	2,655	10,620	1.14	0.90	10,896	1.62	15,874	147
6L-T8 Plus	6 F32T8/841	2,950	90%	2,655	15,930	1.18	0.90	16,918	1.62	24,647	218

(1) EOL = End of Life (2) S/P Ratio = Scotopic to Photopic Lumens (3) Net EOL Lumens = EOL Lumens Per Fixture x (S/P).78 [.78 exponent]

### General Notes

- Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.
- Values shown are based on normal operating temperatures (25c T8 and 35c T5) and at 277 volts.
- Fixture efficiency percentages are generally representative of each system type, actual values will vary.
- There are many operating variables that affect system output, in addition to rating variances from brand to brand.
- All T8 electronic ballast values shown are based on Ultra Efficient (aka 3rd Generation) T8 ballasts.
- All T5 and T8 lamp values shown are for basic grade lamps. Extended life and higher lumen lamps types are available.
- In addition to those shown there are a wide variety of systems to choose from, each with distinct features and cost points.
- Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.