

HFS – Standard 17” Full Cutoff Hi-Bay

- ▶ **Basic Grade**
 - Re-light with our basic full body, full cutoff Hibay.
- ▶ **Controls Options**
 - End mount occupancy sensor and daylight controls.
- ▶ **Lens and Wireguard Options**
 - Clear acrylic gravity lens.
 - Heavy Duty tool-less mount wire guard.
- ▶ **The Usual**
 - Fast, custom configured, expert application support.
- ▶ **P2's Rapid Turnaround Times...**
 - Your project can't wait 6-8 weeks. We'll deliver, configured to order, fast.
- ▶ **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.

▶ HFS Full Cutoff Hi-Bay



▶ Application

- A versatile Hi-bay or Lo-bay for general commercial, industrial, and distribution applications.
- Can be factory equipped with lens and occupancy sensor.
- Available in 4-Lamp or 6-Lamp T8 and 3-Lamp or 4-Lamp T5HO.
- EA reflector ideal for Hi-bays.
- WA reflector ideal for Lo-bays.

HFS – 2x4 – 4L – T5HO – UL1 – MN – PSH – ST – EA – VA – CA – C8 – SH4

HFS	2x4	4L	T5HO	UL1	MN	PSH	ST	EA	VA	CA	C8	SH4
Model	Fixt Size	Lamp Qty	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Reflector Material	Body Material	Lens	Cord Plug	Occ Sensor

Fixture Model
HFS

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

Numeric Footnotes

- (1) Numeral indicates number of ballasts per fixture.
- (2) Ballast factors outside ranges shown to be called out numerically.
- (3) Numeral indicates number of lamps controlled.
- (4) LB sensor leveling box required on all 3L models and all steel body models. Not required on 4L or 6L aluminum bodies.

Ballast Starting Cont...
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

Lens
CA = Clear Acrylic
CP = Clear Polycarbonate
WG = Wireguard

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

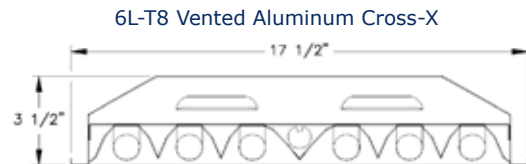
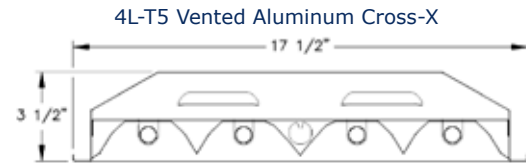
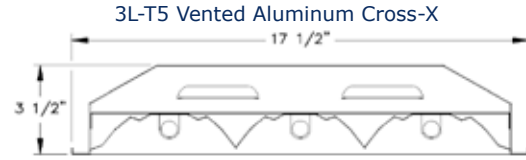
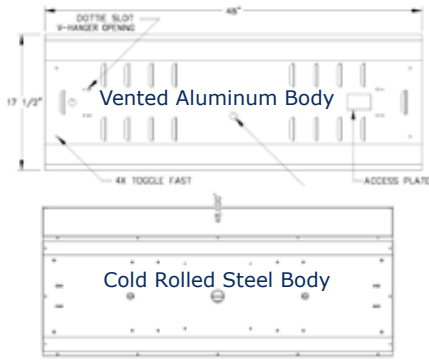
Other (Sensor)
DR = Dual Relay, Dual Delay Sensor
DO = Daylight Over Occupancy Sensor
XT = Lo Temp / Wet Location Sensor
LB = Sensor Leveling Box(4)
PF = Partial/Full Switch

Other
LF = Factory Lamps (Lamp spec elsewhere)
HB = 2 Point Mount Dedicated Hanging Brackets
LRS = Lamp Retainer Strap

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Fixture Construction

- Choose from .032” heavy duty white aluminum body or cold rolled steel body.
- Optional fully ventilated body and endplates help reduce heat in ballast compartment for longer life.
- Environmentally friendly and labor saving bulk project packaging.
- Dottie slot mounting points and V-hangers included.
- Optional gravity lens.
- Made in the USA: Hudson WI, Gainesville FL, Orange County CA.



Existing Systems

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
MH250	1 Std MH250	20,500	58%	11,890	11,890	1.00	0.75	8,918	1.49	12,171	295
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
3L-T5HO	3 FP54T5HO	5,000	93%	4,650	13,950	1.00	0.92	12,834	1.62	18,698	176
4L-T5HO	4 FP54T5HO	5,000	93%	4,650	18,600	1.00	0.92	17,112	1.62	24,930	234
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.