PRECISION P2 PARAGON
EFFICIENCY, ECONOMY, SUSTAINABILITY.

www.P-2.com

(714) 386-5550 CA
(715) 381-2971 WI
(352) 692-5900 FL

HAW–Center Sensor Aisle Lighter, Wide

Maximum Off Time

- Infrequently occupied, high piled storage aisles often yield as much as 65% off time when individual fixture occupancy sensors are deployed.
- Zone strategies typically yield only one-half of the savings.

Durable Aisle Configuration

- The low profile allows the fixture to be mounted closer to the ceiling than a standard HID Hi-bay, thus reducing the possibility of forklift hits. The linear 1x8 configuration and choice of optics provide improved uniformity and excellent vertical foot-candles in aisle applications.
- Fire sprinkler clearance an issue? At 7.0" wide, clearing obstructions is no problem.
- Full body center sensor design is extremely resistant to forklift strikes.

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.

HAW–Aisle Lighter

Application

- Durable aisle lighter ideally suited for distribution and high piled storage applications.
- Fixture built around the center mounted sensor.
- Perfect for infrequently occupied storage aisles.
- EA reflector ideal for Hi-bays.
- WA reflector ideal for Lo-bays.
- Available in 3 lamp cross section. 6 lamps per 8' fixture.
- See HAL series for 1 or 2 lamp cross sections and 2 or 4 lamps per 8' fixture.

HAW–1x8–6L–T8–UL2–HP–PS–UE–EA–C8–RH6

HAW	1x8	6L	T8	UL2	HP	PS	UE	EA	C8	RH6		
Model	Fixt Size	Lamp Qty	Lamp Type	Voltage	Ballast Factor	Ballast Starting	Ballast Grade	Reflector Material	Cord Plug	Occ Sensor	Other	Other

Fixture Model
HAW

Fixture Size
1x4 = 1x4 Nominal
1x8 = 1x8 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%

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

Other (Lens)
CA = Clear Acrylic
WG = Wireguard

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

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.

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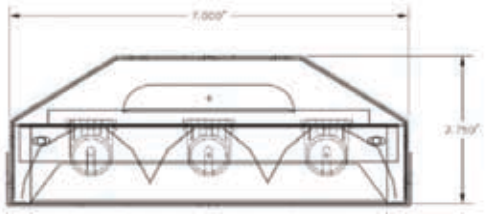
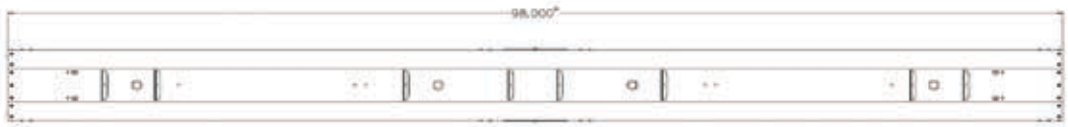
Fixture Construction

- Heavy duty white aluminum body dissipates heat at 4x the rate of steel.
- Ventilated body and endplates help reduce heat in ballast compartment for longer life.
- Fixture built around the center mounted sensor.
- 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.





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
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
MH1000 (16k Hours)	1 MH1000/U	110,000	26%	28,600	28,600	1.00	0.75	21,450	1.49	29,276	1080
MH1000 (12k Hours)	1 MH1000/U	110,000	37%	40,700	40,700	1.00	0.75	30,525	1.49	41,662	1080
MH1000 (8k Hours)	1 MH1000/U	110,000	50%	55,000	55,000	1.00	0.75	41,250	1.49	56,300	1080
MH1000 (4k Hours)	1 MH1000/U	110,000	72%	79,200	79,200	1.00	0.75	59,400	1.49	81,072	1080

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
6L-T8 Plus	6 F32T8/841	2,950	90%	2,655	15,930	1.18	0.90	16,918	1.62	24,647	218
6L-T5HO	6 FP54T5HO	5,000	93%	4,650	27,900	1.00	0.92	25,668	1.62	37,395	351

(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.