Alphalite Inc.

SLIM LINEAR LED HIGH BAY

EHB Series
High / Low Bays

DESCRIPTION

The Alphalite EHB Series Slim Linear LED High Bay delivers high lumen output, long life, economic solution, and no restrike time. This energy-efficient LED luminaire offers one-to-one replacement of existing HID or fluorescent high bays. Precision-formed reflectors delivers adequate light in high mounting applications. Modular driver and LED arrays. Economic solution to optimize payback. Capable of being operated with occupancy sensor

APPLICATION

Various commercial industrial applications with high ceilings: warehouse, manufacturing facilities, retail, gymnasiums, grocery.

7 YEAR WARRANTY   **c UL us LISTED**

Quick Ship Product

EHB2-90/840
EHB2-110/840
EHB2-162/840
EHB2-162/850

SPECIFICATION FEATURES

Construction
Rigid, low-profile steel housing. Precision-engineered and manufactured optics to optimize light delivery to the working plane. Convenient mounting options and sufficient knockouts for controls integration and multiple connection options. Housing features radiator slots for heat dissipation and low temperature LED operation. LED module and driver are replaceable. Housing and optics maintain damp location rating with all internal components.

Mounting
Comes standard equipped with V-hooks for mounting. Various mounting options available: surface, suspension, air craft cable, and chain.

Finish
Highly reflective finish. Baked white paint, applied after fabrication.

Electrical
Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 120V-277V input voltage for increased versatility. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code.

Optics
Die formed, 95% reflectivity optical reflectors optimizes performance and light delivery. Comes standard with high transmission frosted lens.

Certifications / Regulatory
cULus listed. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty
7-year limited warranty. See complete warranty terms for details.

ORDERING INFORMATION

Sample Number: EHB2-162/850

EHB	2	162	8	50	(Blank)	(Blank)
Series	**Form Factor**	**Lumen Package**	**CRI**	**CCT**	**Input Voltage**	**AUX power**
EHB - Slim Linear LED High Bay	**2** - 2' **4** - 4'	**90** - 90W **110** - 110W **162** - 162W **223** - 223W **321** - 321W	**8** - 82+ CRI	**40** - 4000K **50** - 5000K	**(Blank)** - 120-277V **C** - 120-347V **480** - 480V	**(Blank)** - Without AUX Power **12V** - With DC12V

Options

Accessories
WG - Wire Guard (see pg. 2 for details)
PMK - Single-point pendant mount kit
SMK - Surface mount kit
ACC - Aircraft cable suspension kit
CHS - S-chain set (4 1/4")
CRD-x - SJTOW black cord, 18/3, x=length
TLP - Nema locking plug

Driver Options
CT - Cold temperature driver, -40°F-131°F(-40°C-55°C)

Controls
PIR - On/off PIR High Bay motion sensor
PIRD - On/off PIR High Bay motion and daylight sensor
DL - Integrated daylight harvesting
SMC - Smart Control System
OS - Step dimming PIR motion sensor and daylight sensor
SPD - 10KV Surge Protection Device
Remarks: Sensor configuration tool remote control required,not incuded

Emergency Backup
(Lumen will maintain over the 90-minute duration)
EM700 - 700lm
EM1400 - 1400lm
EM2000 - 2000lm

Assembly in USA
BAA - Assembly in USA

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SUMMARY

Input Voltage	120-277V
Input Frequency	50/60 Hz
Power Factor	>0.95
THD (Max.)	20%
Efficacy	>130 LPW
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	10-100%
CRI	>80
CCT	4000K and 5000K
Operating Temp.	-4°F ~ 131°F (-20°C ~ +55°C)
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA

Form Factor	Part No.	Rated Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2' Frostd Lens	EHB2-90/840 EHB2-90/850	90	11700	130
	EHB2-110/840 EHB2-110/850	110	14300	130
	EHB2-162/840 EHB2-162-850	162	21060	130
4' Frosted Lens	EHB4-223/840 EHB4-223/850	223	28990	130
	EHB4-321/840 EHB4-321/850	321	41730	130

*The delivered lumens above are based on 4000K.
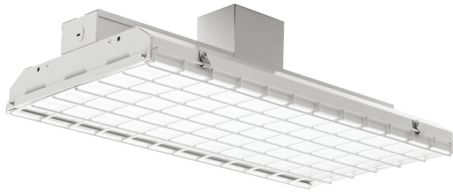**Default setting at time of shipping are highest wattage and highest CCT.

PHYSICAL PARAMETERS

DIMENSION

EHB2-90 and 110

EHB2-162

EHB4-223

EHB4-321

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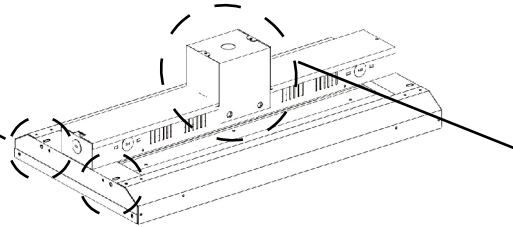Rev. EHB_080625
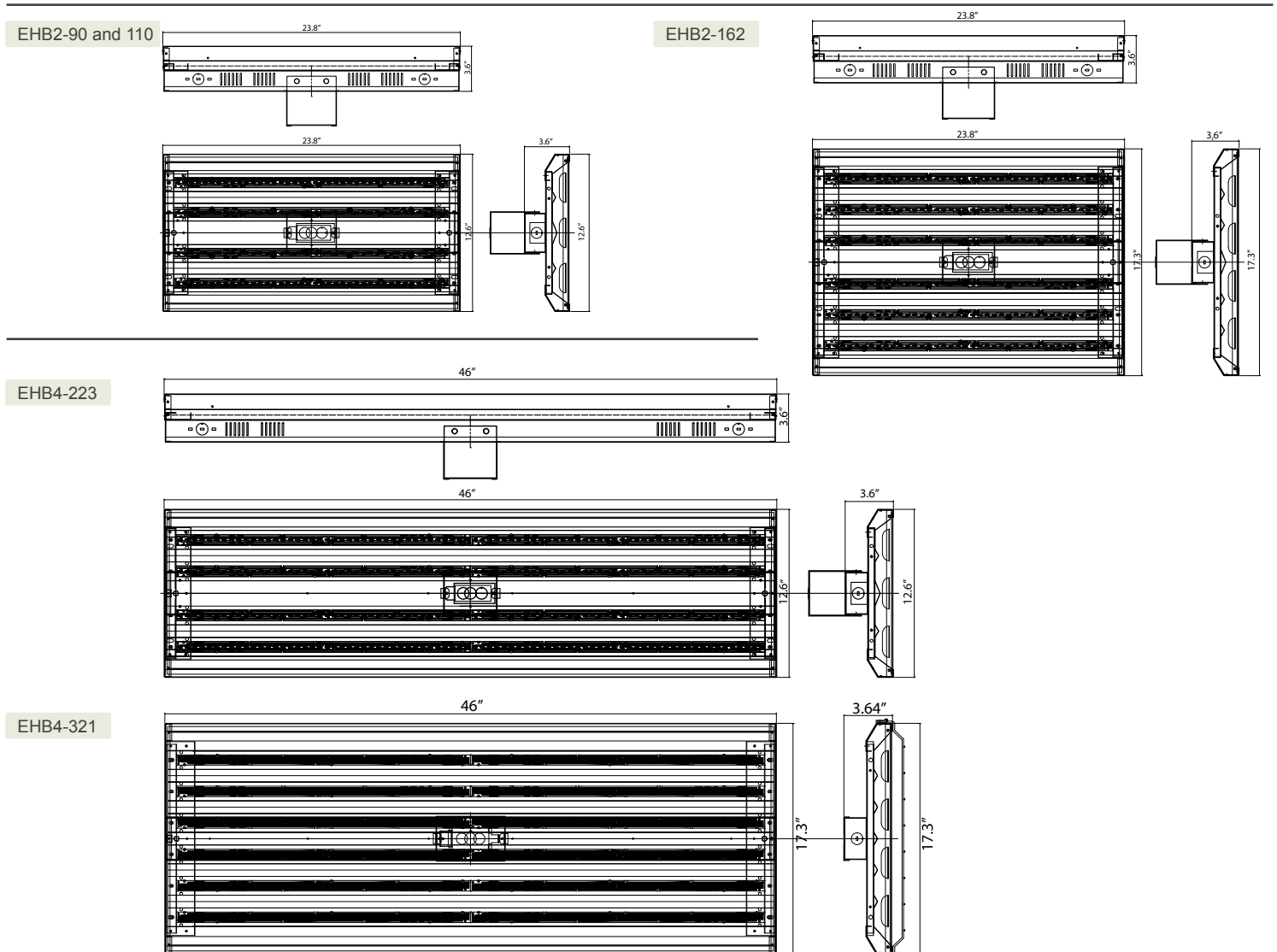
ACCESSORY

Wire Guard

Part # for ordering separately:
EHB-WG-2L4M   (Wire guard for EHB2-110)
EHB-WG-2L6M   (Wire guard for EHB2-162)
EHB-WG-4L4M   (Wire guard for EHB4-223)
EHB-WG-4L6M   (Wire guard for EHB4-321)

Mounting

V-Clips, air-craft cable, and chain.

Pendant Hanger

-OS control pre-commissioning

Sample Number: -OS (L2-5M-L3-S10M)

L2	(Blank)	5M	L3	S10M	(Blank)	(Blank)	(Blank)
Lens / Coverage	**High Mode**	**Hold Time**	**Low Mode**	**Stand-by Period**	**Ramp Up**	**Fade Down**	**Photocell On/Off**
L2 - 8'H (48' dia.)	(Blank) - 100%	#M - 1-30 min.	L5 - 50%	SN - ∞	(Blank) - Disable	(Blank) - Disable	(Blank) - Disable
L3 - 20'H (40' dia.)	H9 - 90%	30S - 30 sec.	L3 - 30%	S#H - 1-5 hrs.	#Up - 1-60 sec.	#Dn - 1-60 sec.	PS - Active
L4 - 40'H (60' dia.)	H8 - 80%		L2 - 20%	S#M - 1-59 min.			
L7 - 40'H (100' dia.)	H7 - 70%		L1 - 10%	(Blank) - Disable			

High Mode: The selected high light level when motion detected.

Hold Time: Time period the luminaire remains at "High Mode" after no motion detected.

Low Mode: The selected low light level after the hold time.

Stand-by Period: Time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people.

When set to "∞" mode, the low light level is maintained until motion is detected.

Ramp Up: Time period for light level to increase from LOW to HIGH.

Fade Down: Time period for light level to decrease from HIGH to LOW.

Photocell On/Off: When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for a short period of time in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default. If using this setting in combination with the Hold Off set-point, there must be at least 10fc of dead band between the two settings. The Photocell set-point is automatically set to maintain at least 10fc of dead band above the Hold time set-point to help avoid load cycling.

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