



PROJECT

TYPE

DATE

ITEM NO.

NOTE

## HIGH EFFICACY LED HIGH BAY

## HEB Series

High / Low Bays

### DESCRIPTION

The Alphalite HEB Series High Efficacy 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 deliver 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.

### 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 with V-hook and chain. Various mounting options available: surface, suspension, air craft cable, and 1/2" NPS pendent mount.

#### Finish

Highly reflectivity 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 clear 90° optic. Frosted lens option available.

#### Certifications / Regulatory

All components used have UL approval. 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.

### Quick Ship Product

HEB2-101/840

HEB2-101/850

HEB2-141/840

HEB2-141/850

HEB4-281/850

## ORDERING INFORMATION

### Sample Number: HEB4-81/835

Series	Form Factor	Lumen Package		CRI	CCT	Input Voltage
HEB - High Efficacy LED High Bay	2 - 2' 4 - 4'	2' 81 - 81W, 12158lm 101 - 101W, 15119lm 141 - 141W, 21403lm 161 - 161W, 24214lm	4' 281 - 281W, 42515lm	8 - 82+ CRI	35 - 3500K 40 - 4000K 50 - 5000K	(Blank) - 120V-277V 480 - 480V
Dimming	Optic	Accessories			Emergency Backup	
(Blank) - 0-10V Continuous Dimming	(Blank) - clear 90° optic (see pg. 3 for details)	HEB-WG - Wire guard. (-2L2M for 81&101, 2L4M for 141&161, 4L4M for 281) HEB-PMK - Pendant mounting kit ACC - 1/16 Air Craft Cable 120" toggle kit (set of 2) LN-HEB2/FRST - Frosted lens (2 for 81&101W and 4 for 141&161W) LN-HEB4/FRST - Frosted lens (4 for 281W)			(Lumen will maintain over the 90-minute duration) EM700 - 700lm EM1400 - 1400lm EM2000 - 2000lm	

### Controls Options

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. (Requires OS-618-RC101 Sensor Configuration Tool. Not included)  
MMS - Microwave motion sensor and daylight sensor, field install in 5 seconds. (Required RC-HB006 Sensor Configuration Tool)  
SG10 - 10KA Surge Protection

### Assembly in USA

BAA - Assembly in USA

## SUMMARY

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 150 LPW
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	10-100%
CRI	83+, R9 > 0
CCT	3500K, 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)	Tested Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2' clear 90° optic	HEB2-81/835	81	78	12158	150
	HEB2-81/840				
	HEB2-81/850				
	HEB2-101/835	101	100	15119	150
	HEB2-101/840				
	HEB2-101/850				
	HEB2-141/835	141	141	21403	152
	HEB2-141/840				
	HEB2-141/850				
	HEB2-161/835	161	161	24214	150
4' clear 90° optic	HEB2-161/840				
	HEB2-161/850				
	HEB4-281/835	281	281	42515	151
	HEB4-281/840				
	HEB4-281/850				

\*The delivered lumens above are based on highest wattage and 4000K.

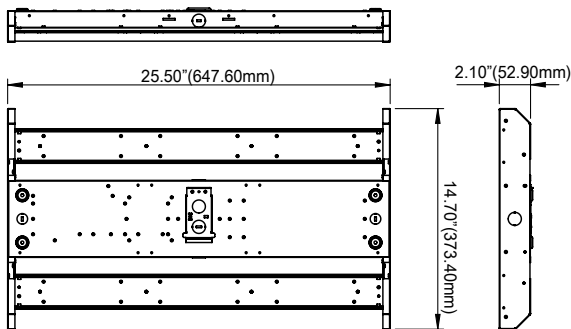
\*\*Default setting at time of shipping are highest wattage and highest CCT.

## PHYSICAL PARAMETERS

### DIMENSION

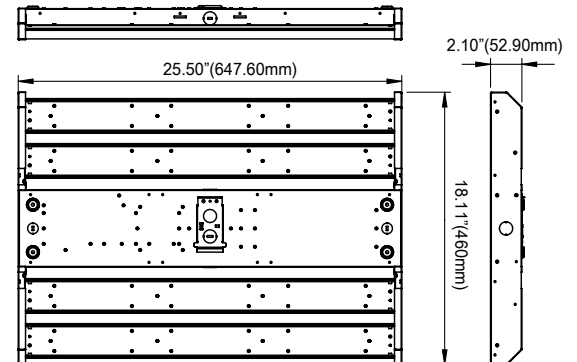
#### HEB2-81 & 101

9.15 Lbs.



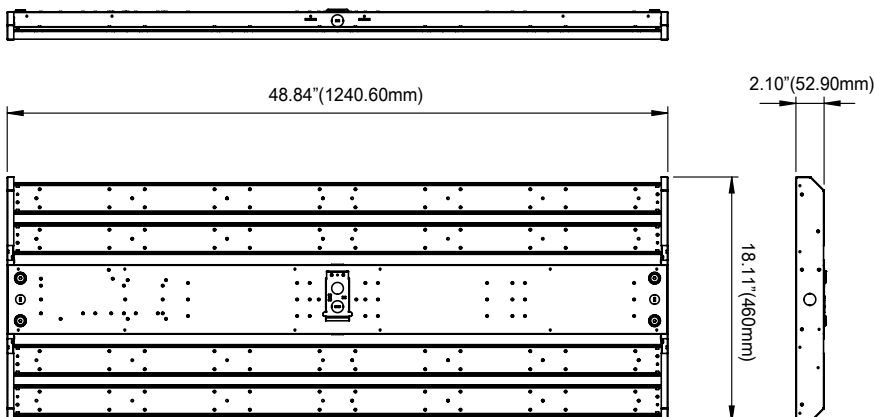
#### HEB2-141 & 161

13.23 Lbs.



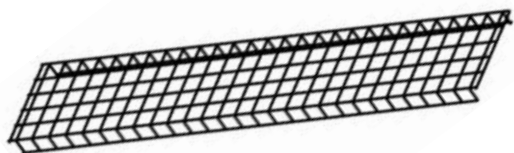
#### HEB4-281

20.72 Lbs.



## ACCESSORY

## Wire Guard



Part # for ordering separately:

HEB-WG-2L2M (Wire guard for HEB2-81 & 101)  
 HEB-WG-2L4M (Wire guard for HEB2-141 & 161)  
 HEB-WG-4L4M (Wire guard for HEB4-281)

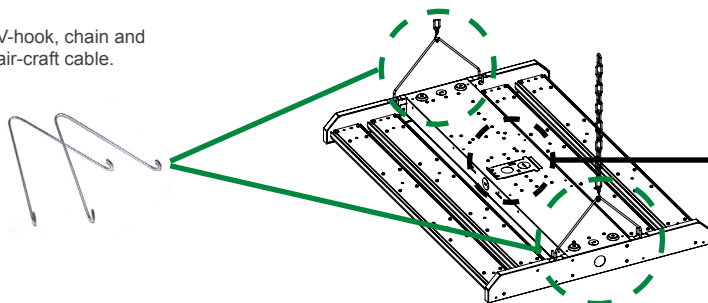
## Lens



Part # for ordering separately:

(2) LN-HEB2/FRST (Lens and qty for HEB2-81 & 101)  
 (4) LN-HEB2/FRST (Lens and qty for HEB2-141 & 161)  
 (4) LN-HEB4/FRST (Lens and qty for HEB4-281)

## Mounting

V-hook, chain and  
air-craft cable.

Pendant Hanger



## -OS control pre-commissioning

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

L2	(Blank)	5M	L3	S10M	(Blank)	(Blank)	(Blank)
<b>Lens / Coverage</b>	<b>High Mode</b>	<b>Hold Time</b>	<b>Low Mode</b>	<b>Stand-by Period</b>	<b>Ramp Up</b>	<b>Fade Down</b>	<b>Photocell On/Off</b>
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.