



PROJECT NAME

CATALOG NO.

TYPE

DATE

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 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.

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

HEB4-201/840

HEB4-201/850

HEB4-281/850

ORDERING INFORMATION

Sample Number: HEB4-201/850

HEB	4	201	8	50	(Blank)	(Blank)	(Blank)
Series	Form Factor	Lumen Package	CRI	CCT	Input Voltage	Dimming	Optic
HEB - High Efficacy LED High Bay	2 - 2' 4 - 4'	2' length: 81 - 81W 101 - 101W 141 - 141W 161 - 161W 4' length: 201 - 201W 281 - 281W 321 - 321W 481 - 481W	8 - 82+ CRI	35 - 3500K 40 - 4000K 50 - 5000K	(Blank) - 120V-277V 480 - 480V	(Blank) - 0-10V Continuous Dimming	(Blank) - clear 90° optic (see pg. 3 for details)

Options

Accessories

WG - Wire Guard (see pg. 3 for details)
PMK - Single-point pendant mount kit
ACC - Aircraft cable suspension kit
CRD-x - SJTOW black cord, 18/3, x=length
TLP - Nema locking plug
SMK - Surface Mount Kit
LN - Frosted Lens

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. (Requires OS-618-RC101 Sensor Configuration Tool. Not included)
SG10 - 10KA Surge Protection

Emergency Backup

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

Assembly in USA

BAA - Assembly in USA



11920 Altamar Pl., Santa Fe Springs, CA 90670
Tel: 888.287.9228 | Fax: 888.258.9183 | support@alphalite.com | alphalite.com

SUMMARY

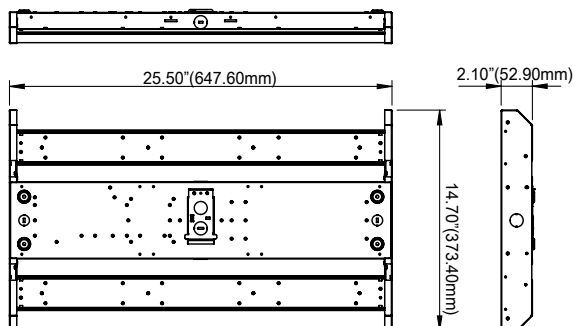
Input Voltage	120V-277V
Input Frequency	50/60 Hz
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 150 LPW
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	10-100%
CRI	83+, R9 > 0
CCT	3500K, 4000K and 5000K
Operating Temp.	-20- +55C
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA

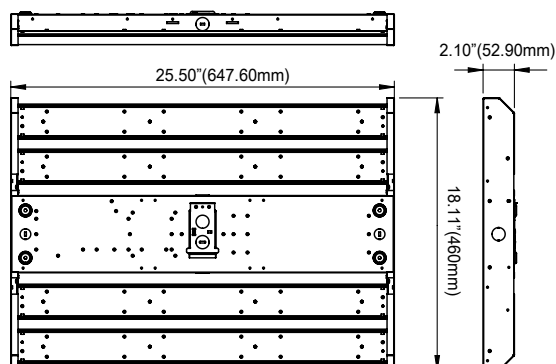
Form Factor	Part No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2' clear 90° optic	HEB2-81/835	81	78	11931	147
	HEB2-81/840			12158	150
	HEB2-81/850			12287	152
	HEB2-101/835	101	100	14836	147
	HEB2-101/840			15119	150
	HEB2-101/850			15291	151
	HEB2-141/835	141	141	20995	149
	HEB2-141/840			21403	152
	HEB2-141/850			21643	154
	HEB2-161/835	161	161	23731	147
	HEB2-161/840			24214	150
	HEB2-161/850			24488	152
4' clear 90° optic	HEB4-201/835	201	190	29285	146
	HEB4-201/840			29647	148
	HEB4-201/850			29989	149
	HEB4-281/835	281	281	41250	147
	HEB4-281/840			42515	151
	HEB4-281/850			43077	153
	HEB4-321/835	321	313	47026	147
	HEB4-321/840			47957	149
	HEB4-321/850			48567	151
	HEB4-481/835	481	481	71188	148
	HEB4-481/840			74555	155
	HEB4-481/850			76479	159

PHYSICAL PARAMETERS
DIMENSION
HEB2-81 & 101

9.15 Lbs.


HEB2-141 & 161

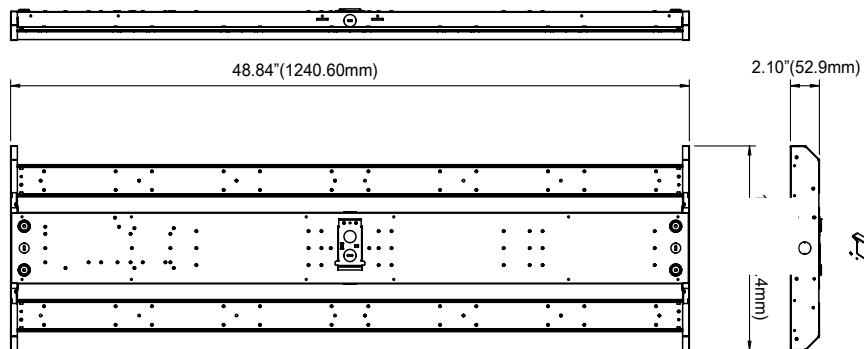
13.23 Lbs.



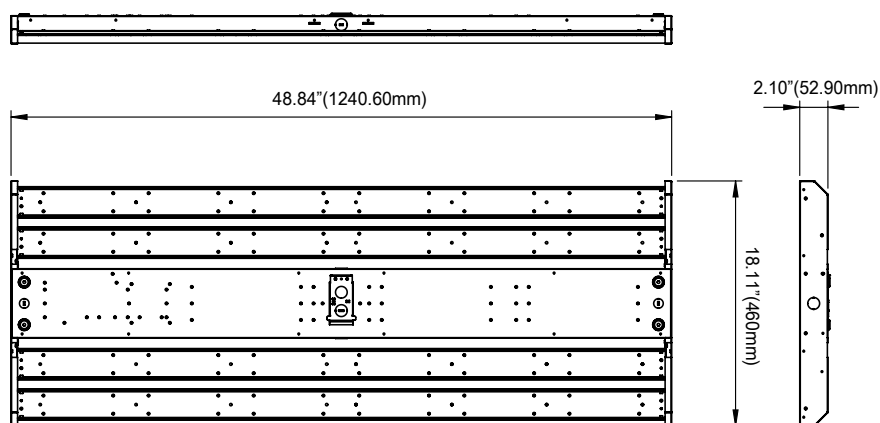
PHYSICAL PARAMETERS

DIMENSION

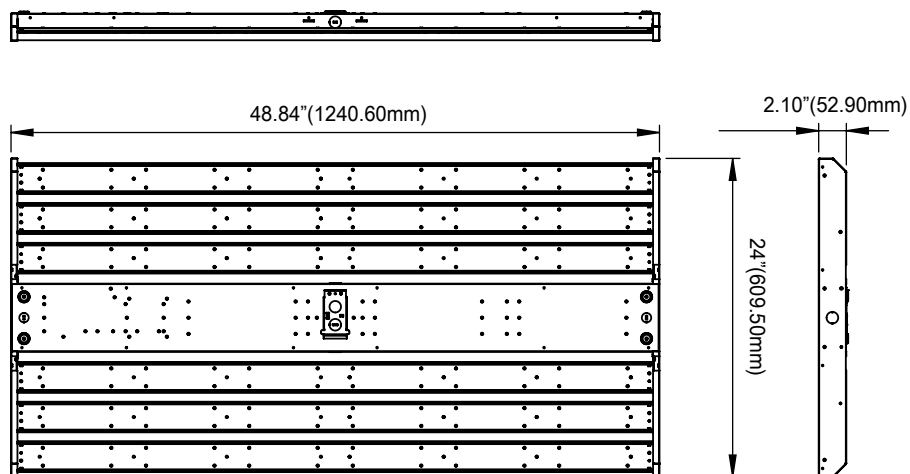
HEB4-201
15.87 Lbs.



HEB4-281 & 321
20.72 Lbs.

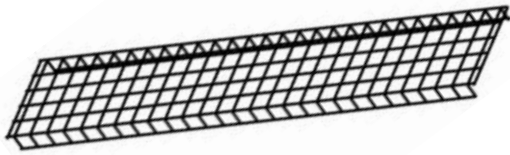


HEB4-481



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-4L2M	(Wire guard for HEB4-201)
HEB-WG-4L4M	(Wire guard for HEB4-281 & 321)

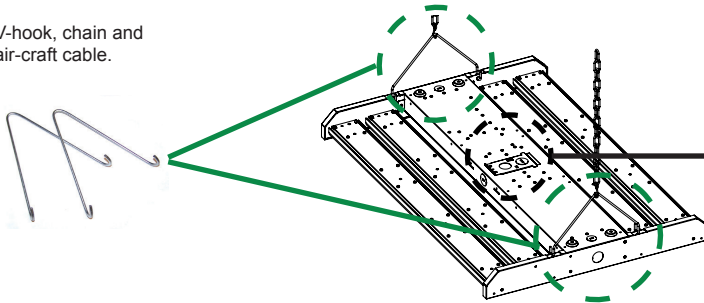
Lens



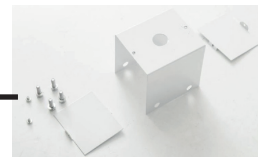
Part # for ordering separately:

(2) LN-HEB2/FRST	(Lens and qty for HEB2-81 & 101)
(4) LN-HEB2/FRST	(Lens and qty for HEB2-141 & 161)
(2) LN-HEB4/FRST	(Lens and qty for HEB4-201)
(4) LN-HEB4/FRST	(Lens and qty for HEB4-281 & 321)

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)
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.