



PROJECT

TYPE

DATE

ITEM NO.

NOTE

## 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.

### 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. 10kA Surge Protection available upon request.

#### Optics

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

#### Certifications / Regulatory

cULus listed for damp locations.  
DLC listed (Not all items listed, please check it with us).

#### Warranty

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

### Quick Ship Product

EHB2-90/840  
EHB2-90/850  
EHB4-400/850

## ORDERING INFORMATION

Sample Number: EHB2-90/840

| Series                         | Form Factor      | Lumen Package           |                           | CRI         | CCT                      |
|--------------------------------|------------------|-------------------------|---------------------------|-------------|--------------------------|
| EHB - Slim Linear LED High Bay | 2 - 2'<br>4 - 4' | 2'<br>90 - 90W, 12150lm | 4'<br>400 - 400W, 54000lm | 8 - 80+ CRI | 40 - 4000K<br>50 - 5000K |

| Input Voltage                                    | AUX Power                                       | Driver Options                                              | Assembly in USA       |
|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------|-----------------------|
| (Blank) - 120-277V<br>C - 120-347V<br>480 - 480V | (Blank) - Without AUX Power<br>12V - With DC12V | CT - Cold temperature driver,<br>-40°F-131°F ( -40°C-55°C ) | BAA - Assembly in USA |

| Accessories                                                                                                                                                                                                                                            | Control Options                                                                                                                                                                                                                                                                                                                                     | Emergency Backup                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| WG - Wire guard (see pg. 2 for details)<br>PMK - Single-point pendant mount kit<br>SMK - Surface mount kit<br>ACC - Aircraft cable suspension kit<br>CHS - S-chain set (4 1/4")<br>CRD-x - SJTOW black cord, 18/3, x=length<br>TLP - Nema locking plug | PIR - On/off PIR High Bay motion sensor<br>PIRD - On/off PIR High Bay motion and daylight sensor<br>DL - Integrated daylight harvesting<br>SMC - Smart Control System<br>OS - Step dimming PIR motion sensor and daylight sensor.<br>SPD - 10KV Surge Protection Device<br>Remarks: Sensor configuration tool remote control required, not included | EM15W - 15W constant power with integrated self-diagnostic test |

## SUMMARY

|                   |                                   |
|-------------------|-----------------------------------|
| Input Voltage     | 120-277V                          |
| Input Frequency   | 50/60 Hz                          |
| Power Factor      | >0.95                             |
| THD (Max.)        | 20%                               |
| Efficacy          | 135 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

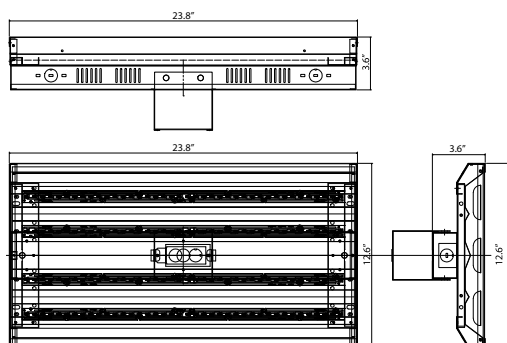
| Form Factor     | Part No.     | Rated Wattage (W) | Delivered Lumens (lm) | Efficacy (lm/W) |
|-----------------|--------------|-------------------|-----------------------|-----------------|
| 2' Frosted Lens | EHB2-90/840  | 90                | 12150                 | 135             |
|                 | EHB2-90/850  |                   |                       |                 |
| 4' Frosted Lens | EHB4-400/840 | 400               | 54000                 | 135             |
|                 | EHB4-400/850 |                   |                       |                 |

The delivered lumens above are based on 5000K.  
Default setting at time of shipping are highest wattage and highest CCT.

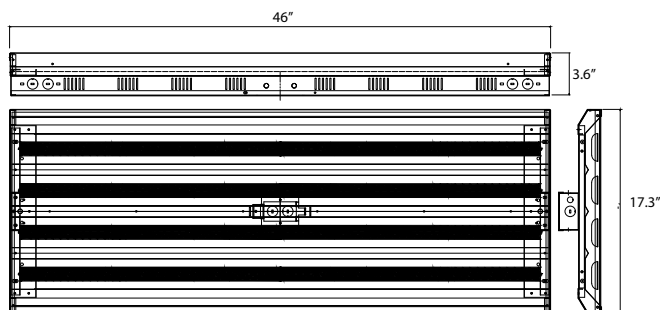
## PHYSICAL PARAMETERS

## DIMENSION

EHB2-90



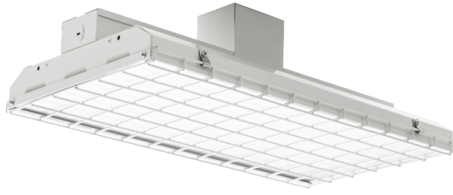
EHB4-400



## OPTION

### ACCESSORY

#### Wire Guard



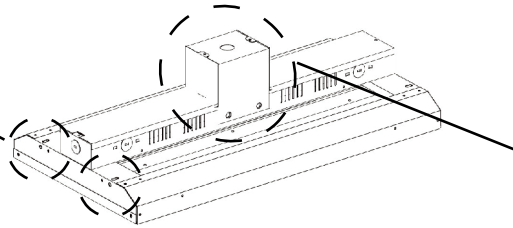
Part # for ordering separately:

EHB-WG-2L3M

EHB-WG-4L6M

#### 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)                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|-----------------|------------------------|-------------------|-------------------|-------------------------|
| <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      |                   |                   |                         |
| <p><b>High Mode:</b> The selected high light level when motion detected.</p> <p><b>Hold Time:</b> Time period the luminaire remains at "High Mode" after no motion detected.</p> <p><b>Low Mode:</b> The selected low light level after the hold time.</p> <p><b>Stand-by Period:</b> Time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people.</p> <p>When set to "∞" mode, the low light level is maintained until motion is detected.</p> <p><b>Ramp Up:</b> Time period for light level to increase from LOW to HIGH.</p> <p><b>Fade Down:</b> Time period for light level to decrease from HIGH to LOW.</p> <p><b>Photocell On/Off:</b> 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.</p> |                  |                  |                 |                        |                   |                   |                         |