

DESCRIPTION

The LHB Series applications include commercial, gymnasium, industrial, large meeting spaces, manufacturing, retail, warehousing, and other applications that utilize a traditional HID or linear fluorescent high bay with mounting heights up to 50'.

Trace*Lite's LHB Series delivers high efficacy, high-output LED lighting with up to 70% energy savings over traditional HID or fluorescent technology. The multiple lumen packages and optical distributions provide the necessary flexibility to meet a wide variety of lighting applications. This product is offered in a 2' by 2' size for the 105w model, and a 2' by 4' size for the 200w and 320w models. The LHB3 version delivers over 43,845 lumens (unlensed). The LHB series high bay is suitable for ambient temperatures up to 55°C. The LHB series is also available with 347/480VAC, battery backup and occupancy control options.

SPECIFICATIONS

Construction:

- Die-formed steel housing with a white finish
- 2' x 2' configuration for the 105w, 2' x 4' configuration for 200w and 320w configurations
- Isolated, vented driver compartment optimizes thermal dissipation

Optics/ LEDs:

- Wide Aisle distribution optical lensing standard to meet both horizontal and vertical light levels
- Available non-lensed (NL) for increased output (general distribution)
- Diffused Lens (LHBX-DL) accessory provides uniform light distribution with no pixelation and less than 15% light loss
- 105w and 200w models feature two light bars, 320w models feature four light bars
- Outer light bars swivel 10°-15° to widen distribution or help direct light where it is needed (200w and 320w only)
- Standard 4000K and 5000K CCT (LEDs available in 3000K, made to order)
- CRI ≥ 80
- L70 rated at 79,000 hrs at 55°C

Electrical:

- Class 2 power supply, voltage sensing 120-277VAC, 0-10V dimming
- One driver in the LHB1, two drivers in the LHB2 and 4 drivers in the LHB3
- 347VAC and 480VAC available

Installation:

- V hook and hanging chain included for pendant mount
- Ability to stem/conduit mount (with optional STMLHB accessory)

Options:

- Battery Backup (BB) option offers 2500lm of emergency powered illumination
- 6' line cord (LC6)
- On/off occupancy sensor wired at factory (OSS)
- Integral 0-10V digital high/low infrared sensor wired at factory, Wattstopper FSP-211 with 360° lens (SC)
- Side mounted 0-10V digital high/low infrared sensor wired at factory, Wattstopper FS-221 with 360° lens (SCE)

Accessories:

- 10' Cable mount with integral y-toggles (CTY10)
- Wattstopper digital high/low infrared sensor controller (TL-FSIR-100)
- On/off occupancy sensor (TL-OCCSNS-120/277)
- Side mounted 0-10V digital high/low infrared sensor, Wattstopper FSP-221 with 360° lens (TL-SCE)
- Stem/conduit mount box (STMLHB)
- Snap-on wireguard kit (LHB1-WG, LHB2-WG, LHB3-WG)
- Snap-in opaque diffused lens kit (LHB1-DL, LHB2-DL, LHB3-DL)

Testing & Compliance:

- UL/cUL for damp locations
- DesignLights Consortium® (DLC) qualified
- IESNA LM-79 and LM-80
- RoHS, TM21
- Operating temperature: -40°C to 55°C (-40°F to 131°F)

Warranty:

- 5 year warranty (terms and conditions apply)

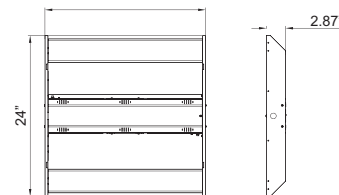
Model: _____ Date: _____
 Accessories: _____
 Job Name: _____ Type: _____



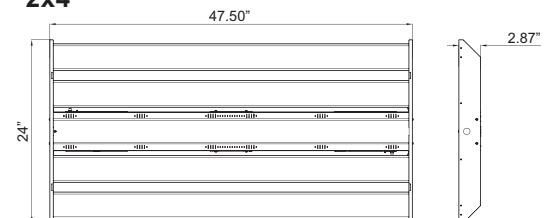
| Specs At A Glance | | | |
|-------------------|--|-----------------|-----------------|
| Wattage (nominal) | 105 Watt | 200 Watt | 320 Watt |
| Lumens (lm) | 12,704 - 13,443 | 22,661 - 24,864 | 38,903 - 43,845 |
| Efficacy (lm/w) | 121 to 130 | 114 to 123 | 121 to 132 |
| Dimensions | 2' x 2' | 2' x 4' | 2' x 4' |
| Distribution | Wide Aisle (A = lensed), General (NL = unlensed) | | |
| CCT (K) | 4000K, 5000K standard (3000K upon request, made to order) | | |
| CRI | ≥80 | | |
| Input Voltage | 120 - 277VAC (347/480VAC available) | | |
| Ambient Temp | -40°C to 55°C (-40°F to 131°F) | | |
| Certifications | UL/ cUL listed for damp locations, DLC | | |
| Warranty | 5 Years | | |

Dimensions:

2x2'



2x4'



Weight (unboxed):

| | |
|------|-----------|
| 105w | 11.5 lbs. |
| 200w | 18 lbs. |
| 320w | 27 lbs. |

Performance Data

| Item | Wattage (w) | CCT | Distribution (Optics) | Lumen Output (lm) | Efficacy (lm/w) | HID Equivalency |
|---------------|-------------|-------|-----------------------|-------------------|-----------------|--|
| LHB1-A-VS-5K | 105w | 5000K | Wide Aisle (A) | 12,900 lm | 122 lm/w | 4-lamp T8 4-lamp T5HO Up to 250w HID |
| LHB1-NL-VS-5K | 105w | 5000K | General (NL) | 13,443 lm | 130 lm/w | |
| LHB1-A-VS-4K | 105w | 4000K | Wide Aisle (A) | 12,704 lm | 121 lm/w | |
| LHB1-NL-VS-4K | 105w | 4000K | General (NL) | 13,028 lm | 123 lm/w | |
| LHB2-A-VS-5K | 200w | 5000K | Wide Aisle (A) | 23,061 lm | 115 lm/w | 6-lamp T5HO 8-lamp T8 400w HID |
| LHB2-NL-VS-5K | 200w | 5000K | General (NL) | 24,864 lm | 123 lm/w | |
| LHB2-A-VS-4K | 200w | 4000K | Wide Aisle (A) | 22,661 lm | 114 lm/w | |
| LHB2-NL-VS-4K | 200w | 4000K | General (NL) | 24,414 lm | 121 lm/w | |
| LHB3-A-VS-5K | 320w | 5000K | Wide Aisle (A) | 40,283 lm | 125 lm/w | 10-lamp T5HO 750-1000w HID |
| LHB3-NL-VS-5K | 320w | 5000K | General (NL) | 43,845 lm | 129 lm/w | |
| LHB3-A-VS-4K | 320w | 4000K | Wide Aisle (A) | 38,903 lm | 121 lm/w | |
| LHB3-NL-VS-4K | 320w | 4000K | General (NL) | 42,451 lm | 132 lm/w | |

Ordering Information

Example: LHB2-A-VS-5K

| Series | Distributions | Input Voltage | CCT | Options (Factory Installed) |
|----------------------|-----------------------|-------------------------------|---------------------------|--|
| LHB1 = 2' x 2', 105w | A = Wide Aisle Lens | VS = 120-277VAC | 3K ^{1,2} = 3000K | BB ^{1,3} = Battery Backup |
| LHB2 = 2' x 4', 200w | NL = General, No Lens | HVS ⁴ = 347-480VAC | 4K = 4000K (Std.) | LC6 ¹ = 6' Line Cord |
| LHB3 = 2' x 4', 320w | | | 5K = 5000K (Std.) | OSS ¹ = On/Off Occupancy Sensor |
| | | | | SC ¹ = Integral 0-10V Digital High/Low Infrared Sensor, Wattstopper FSP-211, L7 Lens |
| | | | | SCE ¹ = Side Mounted 0-10V Digital High/Low Infrared Sensor, Wattstopper FSP-221, L7 Lens |

Accessories⁵ (Field Installed)

| |
|--|
| TL-OCCSNS-120/277 = On/Off Occupancy Sensor |
| TL-SCE = Side Mounted 0-10V Digital High/Low Infrared Sensor, Wattstopper FSP-221, L7 Lens |
| TL-FSIR-100 = Wattstopper Digital High/Low Infrared Sensor Controller |
| STMLHB = Stem/Conduit Mount |
| CTY10 = 10' Cable Mount with Integral Y-Toggles |

Notes

¹ Made to order, operating temperature may vary

² 3000K CCT not on DLC QPL

³ Operates at 120V or 277V only

⁴ Step-down transformer

⁵ Order as separate line item - shipped in separate box for final installation in field

LHB1-WG = Snap-on Wireguard Kit for LHB1

LHB2-WG = Snap-on Wireguard Kit for LHB2

LHB3-WG = Snap-on Wireguard Kit for LHB3

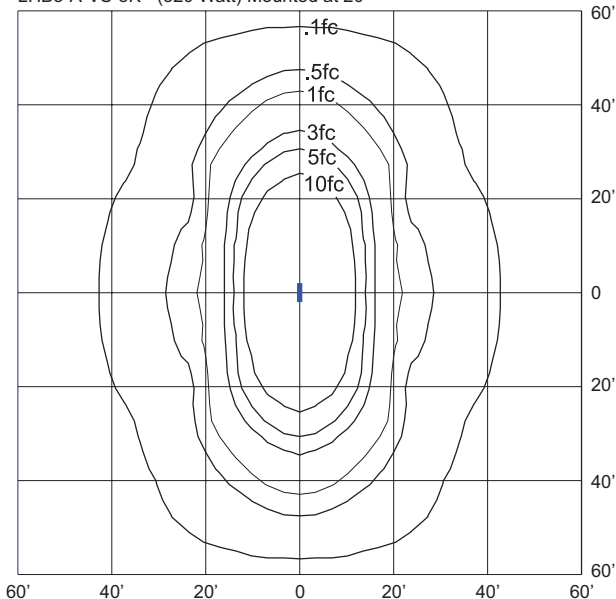
LHB1-DL = Snap-in Diffused Lens Kit for LHB1

LHB2-DL = Snap-in Diffused Lens Kit for LHB2

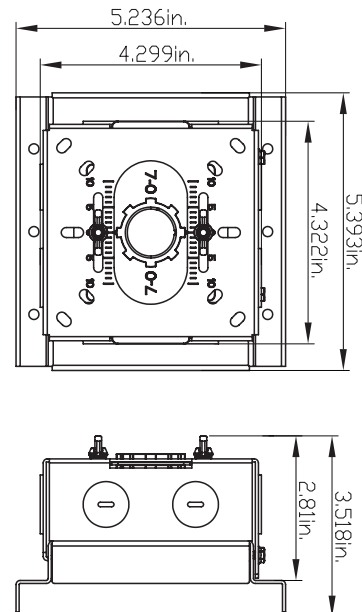
LHB3-DL = Snap-in Diffused Lens Kit for LHB3

Sample Photometry

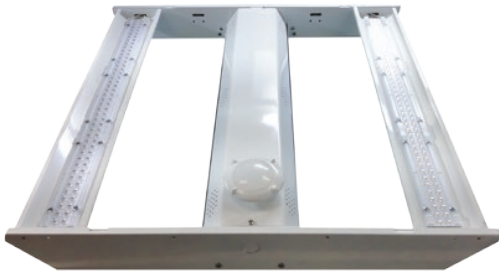
LHB3-A-VS-5K - (320 Watt) Mounted at 20'



Pendant Box Details

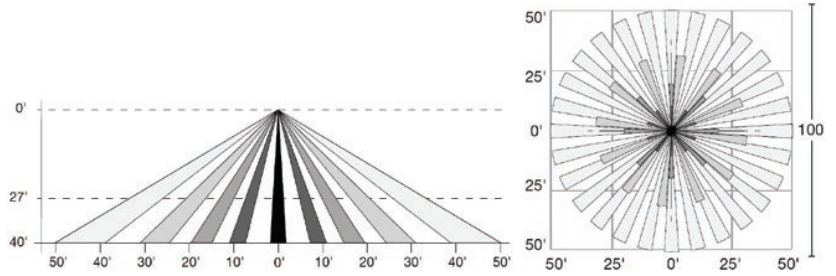


Sensor Details (Option: SC)



Side and Top Sensor Coverage Pattern:

With FSP-L7 lens (included) 360deg lens



Settings for SC and SCE option:

| | Settings | Default |
|-----------------|-------------------------|----------|
| High Mode: | 0-10V | 10V |
| Low mode: | Off, 0-9.8V | 1V |
| Time Delay: | 30 Sec; 5-30 Min | 5 Min |
| Cut off delay: | None, 1-60 Min, 1-5 Hrs | 1 Hour |
| Sensitivity: | None, Low, Medium, Max | Max |
| Setpoint: | None, 1-250 fc, Auto | Disabled |
| Ramp up time: | None, 1-60 Sec | Disabled |
| Fade down time: | None, 1-60 Sec | Disabled |

NOTE:

To change settings in the field, please order TL-FSIR-100 controller.



Battery Box (Option: BB)



Pendant Mount Box

