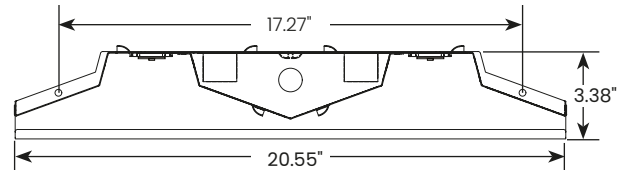


# LHBT SERIES

HIGH LUMEN INDUSTRIAL  
HIGH-BAY LED LUMINAIRE  
DIFFUSER ENCLOSED LED DESIGN



## CROSS SECTIONS



## FEATURES

- High-Bay style linear ambient LED luminaire.
- Performance designed for very high lumen packages.
- Intended for the higher ceilings found in industrial locations as well as warehouses, big box retailing and gymnasiums.
- Ultra-thin thermally designed full body style housing.
- Open LED design maximizes available lumens and performance.
- Standard nominal lumen packages cataloged for a 24" length or a 46" length module.
- Other lumen packages upon request.
- Digital LED technology provides high efficacy and energy efficiency.
- No maintenance required as High Bay LED luminaires require no re-lamping efforts. Extremely important with intended mounting heights up to 35 feet.
- Lumen maintenance; Reported L70 (hours) & L80 (hours) >60,000.
- CRI greater than 80.
- Fixture lumens per watt ratios up to 154.
- For new installations or direct replacement for older HID or fluorescent luminaires.
- American Made.



Fixture type:

Job information:

|  |  |
|--|--|
|  |  |
|--|--|

## NOMINAL LENGHT 2FT

| Nominal Lumen Package | Color | Fixture Power (W) | Delivered Lumens | Fixture LPW |
|-----------------------|-------|-------------------|------------------|-------------|
| 12,000                | 3500K | 82                | 11,858           | 145         |
| 12,000                | 4000K | 82                | 12,006           | 146         |
| 12,000                | 5000K | 82                | 12,316           | 150         |
| 16,000                | 3500K | 112               | 15,556           | 139         |
| 16,000                | 4000K | 112               | 15,788           | 141         |
| 16,000                | 5000K | 112               | 16,166           | 144         |

## NOMINAL LENGHT 4FT

| Nominal Lumen Package | Color | Fixture Power (W) | Delivered Lumens | Fixture LPW |
|-----------------------|-------|-------------------|------------------|-------------|
| 18,000                | 3500K | 122               | 18,056           | 148         |
| 18,000                | 4000K | 122               | 18,316           | 150         |
| 18,000                | 5000K | 122               | 18,752           | 154         |
| 20,000                | 3500K | 136               | 19,812           | 146         |
| 20,000                | 4000K | 136               | 20,096           | 148         |
| 20,000                | 5000K | 136               | 20,576           | 151         |
| 24,000                | 3500K | 166               | 23,932           | 144         |
| 24,000                | 4000K | 166               | 24,272           | 146         |
| 24,000                | 5000K | 166               | 24,856           | 150         |
| 28,000                | 3500K | 196               | 27,768           | 142         |
| 28,000                | 4000K | 196               | 28,164           | 144         |
| 28,000                | 5000K | 196               | 28,840           | 147         |
| 28,000                | 3500K | 196               | 31,132           | 140         |
| 28,000                | 4000K | 196               | 31,576           | 142         |
| 28,000                | 5000K | 196               | 32,332           | 145         |

Actual wattage may differ by +/- 5% when operating between 120V-277V +/- 10%.

# LHBT SERIES

HIGH LUMEN INDUSTRIAL  
HIGH-BAY LED LUMINAIRE  
DIFFUSER ENCLOSED LED DESIGN



## PRODUCT DEFINITION SHEET

Ex: LHBT-4-28000HL-40K-1-U

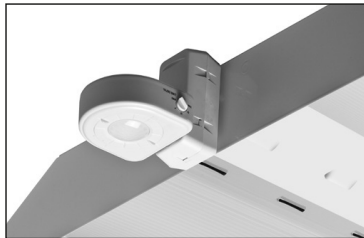
|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|   | - |   | - |   | - |   | - |

| 1                             | 2                                                                              | 3                                                                                                                                                                                                                                                                  | 4                                                                                                              | 5                                                                                      | 12                                      |
|-------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------|
| SERIES                        | NOMINAL LENGHT (FT)                                                            | NOMINAL LUMENS                                                                                                                                                                                                                                                     | COLOR TEMP-CCT (90 CRI)                                                                                        | DRIVER                                                                                 | VOLTAGE                                 |
| <input type="checkbox"/> LHBT | <input type="checkbox"/> 2 24" Length<br><input type="checkbox"/> 4 46" Length | 24" L<br><input type="checkbox"/> 12,000<br><input type="checkbox"/> 16,000<br>46"L<br><input type="checkbox"/> 18,000<br><input type="checkbox"/> 20,000<br><input type="checkbox"/> 24,000<br><input type="checkbox"/> 28,000<br><input type="checkbox"/> 32,000 | <input type="checkbox"/> 30K 3000K<br><input type="checkbox"/> 40K 4000K<br><input type="checkbox"/> 50K 5000K | <input type="checkbox"/> 1 0-10V 1% Dimming<br><input type="checkbox"/> - As specified | <input type="checkbox"/> U Uni 120-277V |

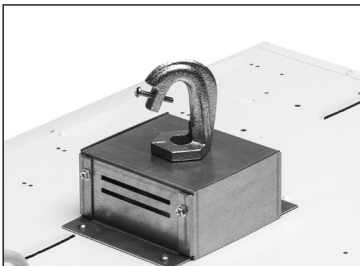
| 7                                                                                                                    | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STANDBY MODULES                                                                                                      | OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> EM10 Emergency Battery Pack 10W<br><input type="checkbox"/> EM12 Emergency Battery Pack 12W | <input type="checkbox"/> MB Mounting Box, For Stern, Conduit, Pipe.<br><input type="checkbox"/> MBH Mounting Box with Locking-Hook, For Chain.<br><input type="checkbox"/> O1 Levitan OSFHU or equal Occupancy Sensor, 360 Degree Lens Inst. Aisle Pattern Incl.<br><input type="checkbox"/> 18/3CP 120V 18/3 SJT Cord & Plug Set/Others on Request.<br><input type="checkbox"/> 16/3CTP 120V 16/3 SJT Cord & NEMA L5-15P Twist-Lock Plug Set/Others on Request.<br><input type="checkbox"/> 277V-16/3CTP 277 16/3 SJT Cord & NEMA L7-15P Twist-Lock Plug Set/Others on Request. |



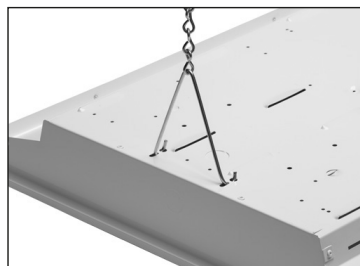
Twist lock plug set



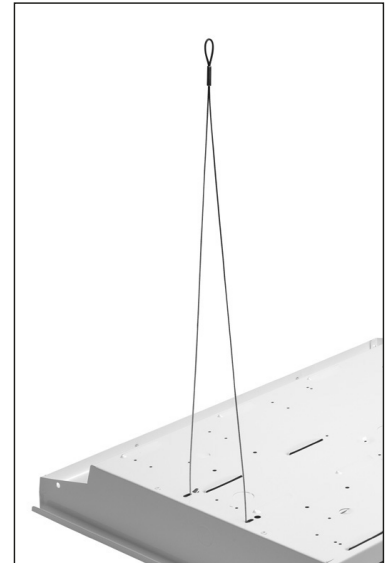
Sensor Detail, Levitan OSFHU



Mounting Box, shown with additional locking-hook



V Hanger w/chain



Y shaped cable

# LHBT SERIES

## HIGH LUMEN INDUSTRIAL HIGH-BAY LED LUMINAIRE DIFFUSER ENCLOSED LED DESIGN



### LED MODULES

- High performance linear configured LED module boards.
- Each board consists of multiple mid-power, high efficacy LEDs in a precise layout eliminating the need for supplemental heat sinking.
- The boards produce an even and diffuse light which maximizes optical efficiency.
- Compatible with the dimming performance of the LED driver.
- Color temperatures available: 3500K, 4000K and 5000K.

### LED DRIVERS

- Factory programmable constant current LED power supply.
- Multiple standard drive current outputs (factory set by Mercury) are cataloged with their corresponding lumen package offerings. Upon request, custom drive current outputs and lumen packages are available.
- Note: Certain cataloged lumen packages may be provided with a non-programmable constant current LED power supply at Mercury's discretion. Contact factory if critical.
- Universal voltage input, 120V-277V, 50HZ-60HZ.
- Specification grade dimming down to 1% on 0-10V dimming controls.

### LED LUMEN PACKAGES

- Cataloged standard lumen packages. See attached chart for full details.
- Custom lumen packages pre-set are optional. Contact factory for details.

### HOUSING

- Fabricated from heavy gauge code grade cold rolled steel with parts securely held into place with a combination of rivets and screws.
- Vented housing for additional heat management.
- White polyester powder coating finish on all parts for long lasting durability.
- Sufficient electrical knockouts are provided on the housing back and ends.
- Wiring access plate on back for easy installations.

### OPEN LED DESIGN

- Intended use with open LED modules maximizes lumen output.
- For very high mounting heights this may be beneficial and acceptable.
- If enclosed or diffused LED modules are required or desirable, See LHBT/R or LHBT/S series.

### HANGING ACCESSORIES

| PART # | DESCRIPTION                                   |
|--------|-----------------------------------------------|
| CH-18  | Y-Shaped 18"L Cable/ Paddle Hanger.           |
| ACXX   | Aircraft Cable/ XX= 48"L, 96"L, 150"L         |
| VH-XX  | "V" Hanger w/XX=48"L or 72"L Chain & "S" Hook |

Other lengths available.

### INSTALLATIONS AND OPTIONS

- Intended to be suspended on aircraft cable, chain or stems. Cataloged on accessory matrix.
- Optional top mounting box accepts a single stem, conduit, pipe, or add additional locking-hook to box which accepts chain.
- Optional wired-in flex, cord and plug sets, and twist-lock plug sets.

### STANDBY LIGHTING OPTION

- Self-contained module, 10W or 12W as specified. Mounts on top of housing. Battery backup upon loss of power.

### OPTIONAL OCCUPANCY SENSOR

- Self-contained sensor (Leviton #OSFHU or equal) mounts directly to luminaire.
- Passive infrared (PIR) technology for individual luminaire control.
- Reliable coverage up to 40Ft. height.
- 360 degree detection.

### STANDBY LIGHTING OPTION

- Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.

### CERTIFICATE OF SAFETY COMPLIANCE AND LISTINGS

- Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.

### WARRANTY

- 5-year limited warranty is standard. Special 10-year warranty available on a job-to-job basis. Complete LED warranty terms available at [www.mercltg.com](http://www.mercltg.com)
- Actual performance may differ as a result of end-user environment and application.
- LED luminaire is suitable to operate in ambient temperatures from -40C (-40F) to 40C (104F).
- The following exclusions apply: Luminaires with standby lighting option, integral lighting controls options, or wireless control options. Consult factory.

### PHOTOMETRICS

- All photometrics reports are available at [www.mercltg.com](http://www.mercltg.com)