| Catalog #: | Project: |
|---------------|----------|
| Prepared By : | Date : |



CHB Compact High Bay

The CHB Compact High Bay is designed for a wide variety of commercial, industrial and retail settings such as warehouses, manufacturing plants, sporting venues, big-box stores and more. The housing material and finish provide high levels of durability and performance. Energy and maintenance cost savings are achievable via the CHB's high efficacy

Features & Specifications

Optical System

- · Optional Less Lens version provides high efficacy.
- Use of closely spaced medium-power, high brightness chips provide uniform lens luminance with no dead spots.
- Available in 4000K color temperature.
- Minimum CRI of 80.

Electrical

- High-performance drivers feature over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (10% 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz
- L70 Calculated Life: >122K Hours
- Total harmonic distortion: <20%
- Operating temperature: -20°C to +50°C (-4°F to +122°F), 30°C (86°F) when equipped with EM option, 35°C (95°F) if surface mounted.
- Power factor: >.90
- Optional 120v-277v integral emergency battery pack is available to meet critical life safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance.
- Surge protector is integral to driver and not field replaceable. Device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

Construction

- Rigid housing is die-formed thick gauge steel for consistency and strength.
- · Access panel provides quick access to wiring and driver connections.
- All metal parts are painted after fabrication following treatment with phosphate rust inhibitor. Finish coating of housing reflecting surfaces is with high-reflectance white (minimum 92%) polyester powder.
- Shipping weight: 13 lbs. in carton.





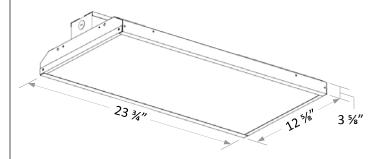








Dimensions





CHB Compact High Bay

Features & Specifications (cont.)

Installation

- Chain mounting with V-hooks is standard.
- Optional surface mounting kit provides attachment to flat ceilings.
- Optional pendant mounting kit provides pendant attachment to junction hoxes
- Optional cable mounting kits provide suspension at two lengths (i.e., 3 & 5 meters).

Warranty

- LSI LED Fixtures carry a 5-year warranty.
- 1 Year warranty on optional Battery Back Up. Test regularly in accordance with local codes.

Listings

- cETLus listed to UL 1598 and UL 8750.
- RoHS Compliant.
- Suitable For Damp Locations.
- DLC qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Performance

| DELIVERED LUME | DELIVERED LUMENS* | | | | |
|------------------|-------------------|---------------------|----------|---------|--|
| 1 | | 4000K CCT | | | |
| Lumen Package | CRI | Delivered Lumens | Efficacy | Wattage | |
| 18L DA | 80 | 17186 | 130 | 132 | |
| 18L LL | 80 | 18729 | 142 | 132 | |
| 24L DA | 80 | 22679 | 130 | 174 | |
| 24L LL | 80 | 24821 | 142 | 174 | |

^{*}LED Chips are frequently updated therefore values are nominal

| RECOMMENDE | RECOMMENDED LUMEN MAINTENANCE - 24L | | | | |
|-------------------|-------------------------------------|---------------------|---------------------|---------------------|----------------------|
| AMBIENT TEMP C | INITIAL ² | 25K HR ² | 50K HR ² | 75K HR ³ | 100K HR ³ |
| 0 C | 100% | 94% | 87% | 81% | 75% |
| 10 C | 100% | 94% | 87% | 81% | 75% |
| 20 C | 100% | 94% | 87% | 81% | 75% |
| 25 C | 100% | 94% | 87% | 81% | 75% |
| 35 C | 100% | 92% | 85% | 78% | 72% |
| 40 C | 100% | 89% | 79% | 69% | 62% |

^{*}Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

| RECOMMENDE | RECOMMENDED LUMEN MAINTENANCE - 18L | | | | |
|-------------------|-------------------------------------|---------------------|---------------------|---------------------|----------------------|
| AMBIENT TEMP C | INITIAL ² | 25K HR ² | 50K HR ² | 75K HR ³ | 100K HR ³ |
| 0 C | 101% | 94% | 87% | 81% | 75% |
| 10 C | 101% | 94% | 87% | 81% | 75% |
| 20 C | 101% | 94% | 87% | 81% | 75% |
| 25 C | 101% | 94% | 87% | 81% | 75% |
| 35 C | 101% | 94% | 87% | 81% | 75% |
| 40 C | 101% | 94% | 87% | 81% | 75% |
| 50 C | 100% | 93% | 86% | 80% | 74% |

- 1 Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 2 In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
- 3 In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.



CHB Compact High Bay

Luminaire Ordering Guide

TYPICAL ORDER EXAMPLE: CHB LED 24L DL UNV DIM 40 EM10

| Family/ Size | LED Gen | Lumen Package | Lens | Voltage | Driver | Color Temperature | Options | Packaging |
|-----------------|------------|-----------------------------------|-----------------------|---------------------------------------|--------------------------------------|----------------------|--|--------------|
| СНВ | LED | 24L - 24,000 Lumens ¹² | DA - Diffused Acrylic | UNV - Universal Voltage (120-277V) | DIM - Dims to 10% (0-10v dimming) | 40 - 4000K | EM10 - 10 Watt Emergency Battery 3C - 3' 120V Cord (No Plug) 3T - 3' 120V Cord & Plug 3E - 3' 208V Cord & Plug 3F - 3' 240V Cord & Plug 3S - 3' 277V Cord & Plug | Blank - Unit |

FOOTNOTES:

- 1 No lens
- 2 Diffused lens
- 3 Also Available in 6', 10', 15' and 20' lengths

Accessory Ordering Information (Accessories are field installed)

| Nomenclature | Description | Part Number |
|--------------|-----------------------|-------------|
| WG | Wire Guard Kit | 689137 |
| PMK | Pendant Mount Kit | 689138 |
| SMK6 | Surface Mount Kit | 689139 |
| HCH10 | Cable Mount Kit (10') | 460149 |
| HCH15 | Cable Mount Kit (15') | 460772 |

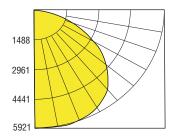


Photometry

All published luminaire photometric testing performed to IESNA LM-79 standards by NVLAP, certified laboratory. ISO footcandle plots below demonstrate the CBR7 light patterns only. Not for total fixture output. For complete specifications and IES files, see website.

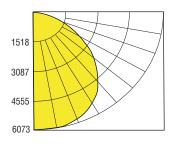
CHB 18L LL 40

| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|----------------|--|
| Zone | Lumens | % of Luminaire | |
| 0-20 | 2,213 | 11.8% | |
| 0-30 | 4,826 | 25.8% | |
| 0-40 | 8,112 | 43.3% | |
| 0-60 | 14,926 | 79.7% | |
| 0-80 | 18,536 | 99.0% | |
| 0-90 | 18,728 | 100.0% | |
| 10-90 | 18,167 | 97.0% | |
| 20-40 | 5,899 | 31.5% | |
| 20-50 | 9,423 | 50.3% | |
| 40-70 | 9,251 | 49.4% | |
| 60-80 | 3,610 | 19.3% | |
| 70-80 | 1,174 | 6.3% | |
| 80-90 | 192 | 1.0% | |
| 90-180 | 0 | 0.0% | |
| 0-180 | 18,728 | 100.0% | |



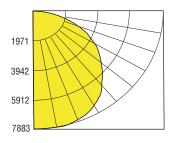
CHB 18L DA 40

| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|----------------|--|
| Zone | Lumens | % of Luminaire | |
| 0-20 | 2,255 | 13.1% | |
| 0-30 | 4,860 | 28.3% | |
| 0-40 | 8,024 | 46.7% | |
| 0-60 | 13,982 | 81.4% | |
| 0-80 | 16,922 | 98.5% | |
| 0-90 | 17,186 | 100.0% | |
| 10-90 | 16,611 | 96.7% | |
| 20-40 | 5,769 | 33.6% | |
| 20-50 | 8,982 | 52.3% | |
| 40-70 | 7,884 | 45.9% | |
| 60-80 | 2,940 | 17.1% | |
| 70-80 | 1,014 | 5.9% | |
| 80-90 | 264 | 1.5% | |
| 90-180 | 0 | 0.0% | |
| 0-180 | 17,186 | 100.0% | |



CHB 24L LL 40

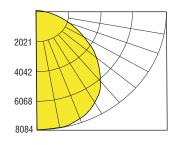
| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|----------------|--|
| Zone | Lumens | % of Luminaire | |
| 0-20 | 2,946 | 11.9% | |
| 0-30 | 6,422 | 25.9% | |
| 0-40 | 10,815 | 43.6% | |
| 0-60 | 19,881 | 80.1% | |
| 0-80 | 24,580 | 99.0% | |
| 0-90 | 24,821 | 100.0% | |
| 10-90 | 24,074 | 97.0% | |
| 20-40 | 7,869 | 31.7% | |
| 20-50 | 12,585 | 50.7% | |
| 40-70 | 12,202 | 49.2% | |
| 60-80 | 4,700 | 18.9% | |
| 70-80 | 1,564 | 6.3% | |
| 80-90 | 241 | 1.0% | |
| 90-180 | 0 | 0.0% | |
| 0-180 | 24,821 | 100.0% | |



CHB 24L DA 40

ZONAL LUMEN SUMMARY

| Lumens | % of Luminaire | | |
|--------|---|--|--|
| 3,000 | 13.2% | | |
| 6,464 | 28.5% | | |
| 10,667 | 47.0% | | |
| 18,523 | 81.7% | | |
| 22,344 | 98.5% | | |
| 22,679 | 100.0% | | |
| 21,913 | 96.6% | | |
| 7,667 | 33.8% | | |
| 11,917 | 52.5% | | |
| 10,368 | 45.7% | | |
| 3,822 | 16.9% | | |
| 1,310 | 5.8% | | |
| 334 | 1.5% | | |
| 0 | 0.0% | | |
| 22,679 | 100.0% | | |
| | 3,000 6,464 10,667 18,523 22,344 22,679 21,913 7,667 11,917 10,368 3,822 1,310 334 0 | | |





Occupancy Sensor Specifications (OCSUE)



Electrical

- Input Voltage: 120/227/347/VAC
 Operational Frequencies: 50/60Hz
- Wire Designation: Line Black, Load Red, Neutral White
- Load Rating: 800VA@120VAC 1200VA@277VAC 1500VA@347VAC
- Mounted: 1/4 HP Motor Load @ 120V

Environmental

• Operating Temperature Range: 14°F to 160°F

Construction

- · High Impact Housing
- Injection Molded Plastic
- Color Coded Wire Leads are 42" Long

Specifications

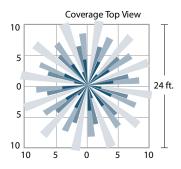
- Size: 3.5"W x 3.5"H x 1.25"D (8.89cm x 8.89cm x 3.175cm)
- · Color: White
- UL and cUL certified, Photoelectric Switch, CEC Title 24 Compliant

Controls

Timer Setting: 30 seconds - 20 minutes

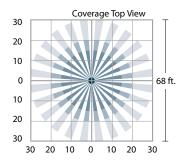
Range & Coverage

The 360° PIR lens provides a 2:1 spacing to mounting height coverage under 25 ft. mounting and a 1.5:1 for heights up to 40 ft. mounting. The aisle lens is designed to provide detection of 60 ft. long by 20 ft. wide for heights up to 40 ft. mounting.



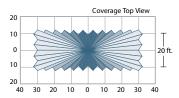
High Bay Lens

Typical Mounting Height: 20-40'
Optimal Coverage
24' diameter at 20' height;
increased coverage density
Application
high bay, open area



Low Bay Lens

Typical Mounting Height: 8-20'
Optimal Coverage
40' diameter at 20' height;
increased coverage density
Application
low bay, open area



Aisle Lens

Typical Mounting Height: 20-40'
Optimal Coverage
60' linear x 20' width
Application
high bay, aisle ways

Note: Ships standard with all three lens configurations

