



CHB-S™

Circular High Bay

DESCRIPTION

The CHB-S LED SERIES circular high bay is a durable, heavy-duty construction. High performance, high-efcacy provides a robust solution for high ceiling applications, especially warehouse spaces. CHB-S delivers high output performance and quality illumination with an optional integrated motion sensor. It improves warehouse safety and productivity, lower maintenance cost, and reducing operating costs.

APPLICATIONS

Commercial, Retail, Institution, Warehouse, and Industrial

FEATURES



Not all products are qualified on the DLC® QPL. To view our DLC® qualified products, please consult the DLC® Qualified Products List at www.designlights.org/qpl.



CHB-S™

100W (14,500 lm)
180W (26,100 lm)

Projected L70: 75,000 hours
Warranty: 5 Years
System Efficacy: 140 LpW
1-10V Dimming

Construction

Rugged, die-cast housing with advanced thermal management system ensures reliability and durability. Available in White and Dark Bronze finish.

Electrical

Utilizes high-efcacy Lumileds LED packages maintained at cool temperatures for long life, high efficacy. Input voltage 120-277V for convenient installation. 40W Emergency Inverter (Field Install). [120-347V/Black Finish only] 2kV surge protector comes included. 3ft power cord comes standard.

Optical System

Provides a 120° beam angle.

Installation/ Mounting

Hanging Mount (Standard) and Pendant Mount [3/4"] (Standard- Stem is not included)

Warranty

5 Year Warranty.
Optional 7/10 Year Warranty Available.
See warranty documentation for more information.

Controls/Dimming

1-10V Dimming comes standard. Integrated Bi-level Occupancy/Daylight Harvesting sensor options available.



Suitable for Wet Location



1-10V Dimming



Motion Sensor Option



Ordering Information

EXAMPLE: CHB-S-100W-50K-U-D-W-BAA

Series	Wattage	CCT	Input Voltage	Dimming	Finish	Controls Options	BAA
CHB-S	100W 180W	50K - 5000K 40K - 4000K	U - 120-277VAC	D - 1-10V Dimming	W - White *D - Dark Bronze	(Blank) No Sensor M - Bi-level Occupancy/Daylight Harvesting Sensor W - WATTSTOPPER® Occupancy Sensor	BAA

Accessories

RC-RC-100 (TGS- Wireless Configuration Tool)
WP-EWG-040U (40W Emergency Inverter)

Specifications and Dimensions subject to change without notice.

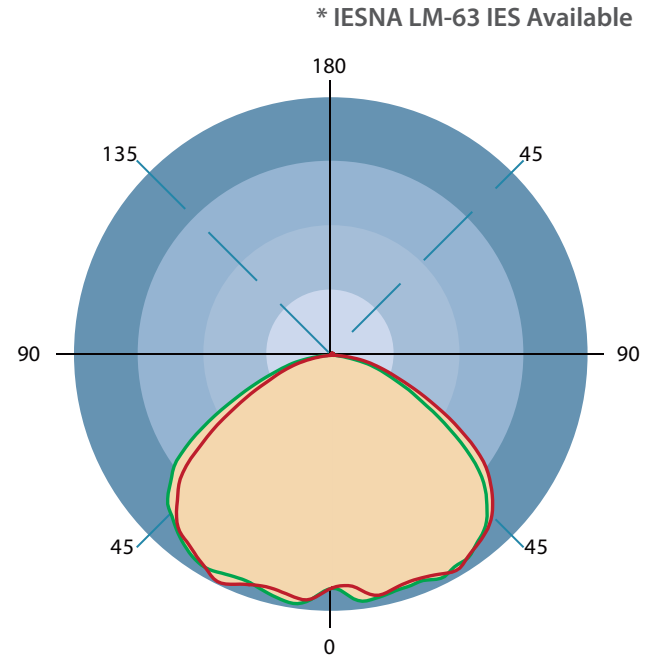
*MOQ and longer lead times may apply, please contact customer service for more information.

Optional accessories are purchased separately.

Performance Information

Input Voltage	120-277VAC
Input Frequency	50/60Hz
Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	See Performance Table
CRI	>70
Available CCT	4000K, 5000K
Projected L70	75,000+ hours
Power Factor	>0.9
THD	<20%
Dimming	1-10V
Operating Temp.	-40°~131°F
IP Rating	Suitable for wet location

Photometric Data

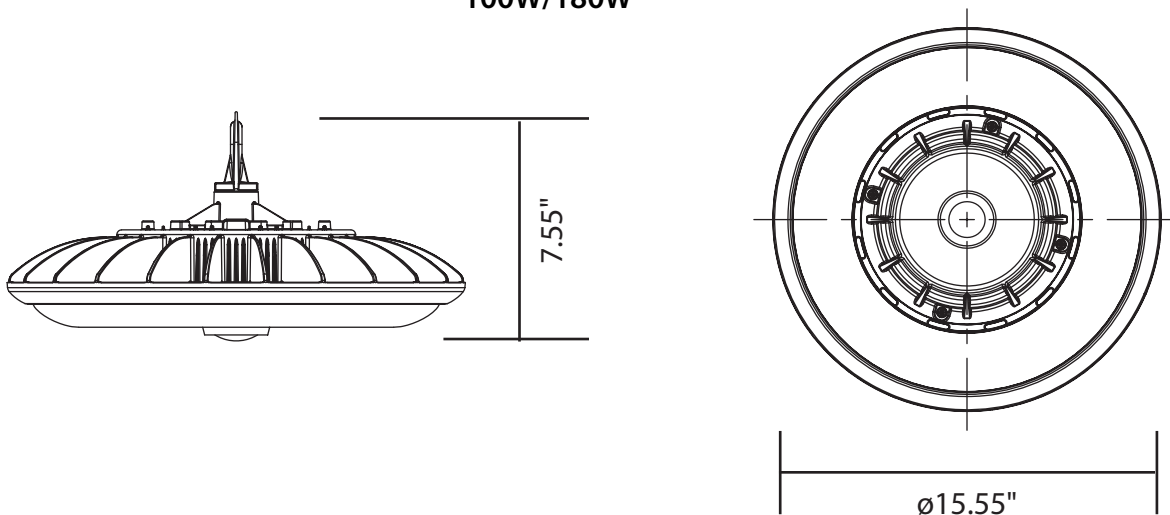


Performance Table

SKU	Wattage (W)	5000K	
		Delivered Lumens (lm)	Efficacy (lm/W)
CHB-S-100W-50K-U-D-W-BAA	100	14500	145
CHB-S-180W-50K-U-D-W-BAA	180	25500	140

Product Dimensions

100W/180W

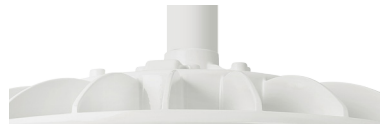


100W Weight: 8 lbs.
180W Weight: 9 lbs.

Mounting and Controls Options



Hang Hook
(Standard)
[HM]



Pendant Mount
(Stem is not included)
[PM]



Bi-level Occupancy/
Daylight Harvesting Sensor
[M]



WATTSTOPPER® Occupancy
Motion Sensor (FSP-311)
[W]



TGS- Wireless Configuration Tool
(Sold Separately)
[RC-RC-100]



40W Emergency Inverter
(Field Install)
(120-347VAC/In Black Only)
[WP-EWG-040U]

Control Pre-Commissioning

Default settings are indicated by *

High-End Trim/ Tuning	Sensitivity Range	Time Delay	Daylight Harvesting	Stand-by Light Level Setting	Stand-by Time Setting
70%	20%	10s	*Light sensor disabled	0%	∞
80%	50%	1min	1 FC (10 lux)	*10%	1min
90%	75%	*10min	3 FC (30 lux)	30%	30min
*100%	*100%	15min	5 FC (50 lux)	50%	*60min

High-End Trim/Tuning:

Setting that determines the maximum lumen output through high-end trim tuning, can be reduced by up to 30 percent.

Sensitivity Range:

Setting that determines the sensitivity range of the motion sensor when the daylight sensor is disabled.

Time Delay:

The light can be set to stay ON for any period of time between approx. 10 sec. to a maximum of 60 min. Any movement detected before this time elapse will re-start the timer.

Daylight Harvesting:

The chosen light response threshold can be disabled or respond when photocell detects foot candle levels 1-5 FC

Stand-by Light Level:

Setting determines how much lumen output is dimmed down to when no motion is detected.

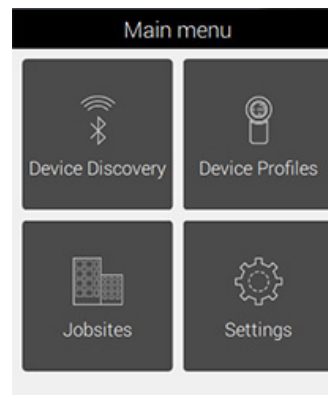
Stand-by Time:

Setting determines how long after stand-by light level occurs the light will shut off. Up to 60 minutes.

Control Pre-Commissioning - WATTSTOPPER®



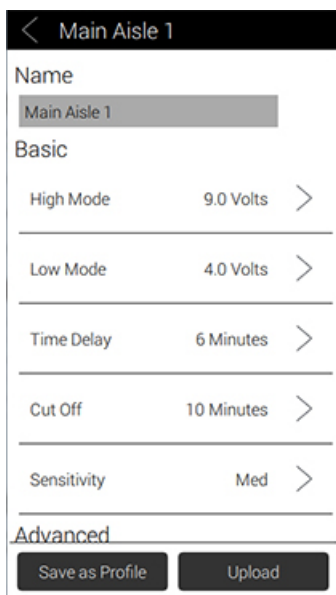
1. High Mode: When the sensor detects motion the dimming control output ramps up to the selected HIGH light level (default is 10V).
2. Low Mode: After the sensor stops detecting motion and the time delay expires the dimming control output fades down to the selected LOW light level (default is 1V).
3. Time Delay: The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode (default is 5 minutes).
4. Cut Off: The time period that must elapse after the lights fade to LOW mode and the sensor detects no motion for the electric lights to turn OFF (default is 1 hour).
5. Sensitivity: The response of the PIR detector to motion within the sensor's coverage area (default is max).
6. Setpoint: When enabled, the selectable ambient light level threshold that will hold the electric lights off or at LOW level when the sensor detects motion (default is disabled). The Auto option invokes an automatic calibration procedure to establish an appropriate setpoint based upon the contribution of the electric light. As part of this procedure, the controlled load is turned on for two minutes to warm up the lamp, and then switched off and on eight times, terminating in an off state. After this process, a new setpoint value is automatically calculated.



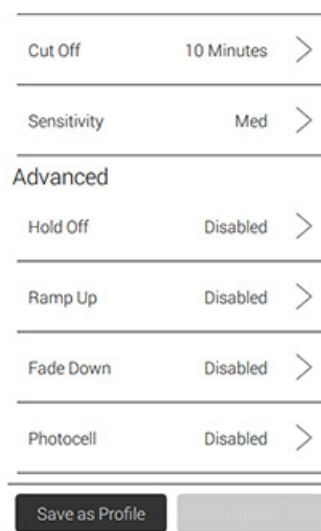
The Sensor Configuration App is a convenient tool for setting up FSP-3x1 sensors. Adjustable settings can be changed as needed for specific applications.



7. Hold Off: The selectable ambient light level threshold that will hold the lights off or at LOW level when the sensor detects motion (default is Disabled). A switch allows you to Enable or Disable this feature. If enabled, select Auto Format or Custom Value. If Custom is selected, the Range is 1 fc to 250 fc. The Auto option invokes an automatic calibration procedure to establish an appropriate setpoint based upon the contribution of the electric light. As part of this procedure, the controlled load is turned on to warm up the lamp, and then it is switched off and on eight times, terminating in an off state. After this process, a new setpoint value is automatically calculated. During this time, communication to the FSP-3x1 is disabled.
8. Ramp Up Time: Time period for light level to increase from LOW to HIGH (default is disabled; lights switch instantly).



9. Fade Down Time: Time period for light level to decrease from HIGH to LOW (default is disabled; lights switch instantly).
10. Photocell On/Off: When enabled, the sensor will force the load OFF after the light level has exceeded the selected photocell setpoint for at least a minute. It will also force the load ON when the light level goes below the setpoint, even if no motion is detected (default if disabled).



Once ON (initially at High), the load will dim to Low following the Time Delay, and to OFF following the Cut Off time. To ensure dusk to dawn control, Cut Off must be disabled.

The photocell On/Off setpoint is automatically set to maintain a deadband of at least 10 fc above the Hold Off Setpoint to prevent cycling if the two features are used together.