Project	Catalog #	Туре	
Prepared by	Notes	Date	



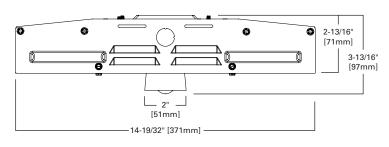
Interactive Menu

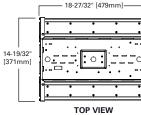
- Order Information page 2
- Photometric Data page 3
- Control Systems page 5
- Integrated Sensors page 6
- Product Warranty

Top Product Features

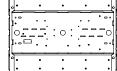
- Compact, lightweight design for ease of installation
- High Impact Polycarbonate optical lens
- 5 lumen packages available (9,000, 12,000, 15,000, 18,000 and 24,000)
- High-Performance efficacy up to 147 lm/W
- · Occupancy and daylight sensor for added savings
- · Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details



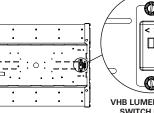


TANGENT EDGES VISIBLE



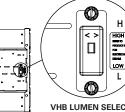
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TOP VIEW TANGENT EDGES NOT VISIBLE



VHB LUMEN SELECT SWITCH DETAIL





Product Certification

LED High Bay Luminaire

Metalux

VHB



Product Features

CLICK HERE

Safe and convenient means of disconnecting power

Typical Applications



Industrial
 Commercial Manufacturing
 Gymnasium

Order Information

SAMPLE ORDER NUMBER: VHB-12-HA-W-UNV-L840-CD-U Includes V Hangers for rapid installation

Domestic Preferences	Series	LED Lumen Output	Ambient	Distribution	Shielding	Voltage	CRI/CCT
Domestic Preferences (1)	Series (2)	LED Lumen Output	Ambient	Distribution	Shielding	Voltage (5)	CRI/CCT
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	VHB=LED High Bay	9=9,000 Lumens 12=12,000 Lumens 15=15,000 Lumens 18=18,000 Lumens 24=24,000 Lumens 1215= Lumen Select 12000,15000 ⁽⁹⁾ 1824=Lumen select 18,000, 24000 ⁽⁹⁾	[Blank]=Standard 45°C HA=Highy Ambient 55°C ⁽⁴⁾	N=Narrow (Aisle) W=Wide (General)	[Blank]=High Impact Polycarbonate Lens	UNV=Universal Voltage 120-277 UNC=Universal Voltage 347/480 ⁽⁶⁾	L735=70 CRI, 3500K L740=70 CRI, 4000K L750=70 CRI, 5000K L835=80 CRI, 3500K L840=80 CRI, 4000K L850=80 CRI, 4000K L935=90 CRI, 3500K L940=90 CRI, 4000K
Notes	Notes	Notes	Notes			Notes	
(1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	(2) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www. designlights.org for details.	(3) 18% lower lumen output when connected to wall controller for dimming.	(4) Emergency Battery Pack available up to 50° C Ambient only.			(5) Voltage must be specified when ordering accessory cord and plug. (6) Y-toggle mounting is required when combining UNC, 347V, 480V with a sensor.	

Options	Driver Type	Options	Motion Sensors	Packaging	Accessories
Options	Driver Type	Options	Motions Sensors	Packaging	Accessories (order separately) (19)
Emergency EL20W-REM=20-watt, 120V-277V emergency battery pack remote mounted (7)	CD=0-10V Dimming Driver SLTD=Fifth Light DALI (not available in 24,000 lumens or lumen select)	MP=Modular Power Receptacle (used for all Cord or Cord and Plug options) ⁽⁹⁾ PAF=Painted After Fabrication GRY=Gray BLK=Gloss Black MBK=Matte Black	MS=360° or 180° Motion Sensor Installed, (specify voltage) ^{(9), (10)} SVPD3=Integrated occupancy and daylight dimming sensor, 1200 sq. ft. coverage ^{(6), (10)} LWR=Enlighted Wireless Sensor system ^{(9), (10)} ZW-SWPD3=Integrated Wavelinx Wireless Sensor, 1200 sq.ft. coverage ZW=WaveLinx Wireless Ready (does not include sensor)	U=Unit Pack PALC=Job Pack, in carton	VHB-SPM=Single Point Mount Adapter Kit (^{12), (13), (15)} LOOP-10=Ten Foot Loop Hanger, #2 Cable (¹⁶⁾ LOOP-30=Thirty Foot Loop Hanger, #2 Cable (¹⁶⁾ FL-1=Fixture Loop (¹⁷⁾ SHK=Fixture Loop (¹⁷⁾ SHK=Fixture Look (¹⁷⁾ Y-TOGGLE=Y Mounting Toggle, #2 Cable (Specify 10' or 30") (order two per fixture) (¹⁸⁾ HBAYC-CHAIN/SET/U=(2) V-Hook Hangers, 36" Chain Sets w/S-Hooks VHB-WG=Field Installable, Wireguard for VHB (¹⁴⁾ MPC3=3' Modular Power Cord & Plug (Specify Voltage) MC6=6' Modular Power Cord & Plug (Specify Voltage) ISHH-01=Programming Remote for Integrated Sensor ISHH-02=Personal Control Remote for Integrated Sensor SWPD3=WaveLinx Sensor (for field installation into WaveLinx enabled fixture)
Notes		Notes	Notes		Notes
(7) EL20EM-REM requires remote mount only.		(8) Requires use of MC or MPC cord accessories.	(9) When ordering MS, SVPD3, or LWR option, specify as UNV (for 120 or 277V), or 347V, or 480V. (10) Y-toggle mounting is required when installing the VHB 24K lumen combined with UNC, 347V, 480V, and a motion sensor. (11) SVPD3 sensor rated for -25°C to 55°C ambient.		(12) Fixture cannot be surfaced mounted and must be a minimum of 18 inches below ceiling surface. (13) Single point mounting requires counterbalance weight which is included in the VHB-SPM kit: (14) Wirequard option is field installable only. (15) Rigid mount not for use in gymnasiums. (16) The accessory Loop Hanger shall be utilized only as a secondary safety and not the primary means of mounting. (17) Must be used in conjunction with VHB-SPM accessory for proper attachment to fixture. (18) Y-toggle mounting is required when installing the VHB when combining a sensor with UNC, 347V, or 480V. (19) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Product Specifications

Construction

- Durable CRS and extruded aluminum housing provides added protection for LED components and optimal performance
- Compact 15in x 18in low-profile design for a less
 obtrusive installation

Electrical

- Long-life LED system coupled with electrical driver to deliver optimal performance
- LED's available in 3500K, 4000K and 5000K with a CRI ≥ 80
- cULus listed
- Electronic drivers are available for 120-277V, 347V and 480V applications
- Standard 0-10V dimming
- Or, specify the Digital Addressable Lighting Interface (DALI) drivers for use with Fifth Light controls

Finish

 White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation

Optics

- Precision designed, high-impact polycarbonate optics deliver even illumination
- Narrow and wide distribution ensures superior performance to key areas within an application

Options

 Integral Occupancy Sensor available and provides 1200 sq. ft. of coverage in a maximum mounting height of 30'

Mounting

- The VHB LED series is ideally suited for suspension mounting with standard V Hangers (included) and optional chain set, or cable mounting
- Single-point mounting is also available with SPM adapter kit

Compliance

- Luminaires are cULus listed for damp locations -40°C to 55°C ambient environments with 0-10V drivers (see chart)
- RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards
- DesignLights Consortium® Qualified and classified for DLC Standard and DLC Premium (refer to www. designlights.org)

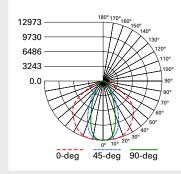
Warranty

· Five-year warranty

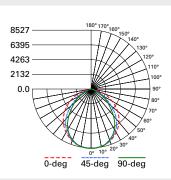
VHB LED

Photometric Data

🖋 View IES files



VHB-18-N-UNV-L840-CD-U Electronic Driver Linear LED 4000K Spacing criterion: (II) $1.29 \times mounting$ height, (\perp) 0.77 x mounting height Lumens: 18284 Input Watts: 133.8W Efficacy: 140 LPW Test Report: VHB-18-N-UNV-L840-CD-U.IES



VHB-18-W-UNV-L850-CD-U Electronic Driver Linear LED 5000K Spacing criterion: (II) $1.26 \times mounting$ height, (\perp) $1.19 \times mounting$ height Lumens: 19160 Input Watts: 133.8W Efficacy: 143 LPW Test Report: VHB-18-W-UNV-L850-CD-U.IES



Energy and Performance Data by Catalog Number

Catalog Number	Description	Delivered Lumens		Watts		Effic (Im	cacy /W)	
Narrow								
VHB-9-N-UNV-L835-CD-U	Value High Bay, 9K Lumen, Narrow Dist, 120-277V, 3500K, Dim	88	342	64	4.6	1:	37	
VHB-9-N-UNV-L840-CD-U	Value High Bay, 9K Lumen, Narrow Dist, 120-277V, 4000K, Dim	9016		64.6		14	40	
VHB-9-N-UNV-L850-CD-U	Value High Bay, 9K Lumen, Narrow Dist, 120-277V, 5000K, Dim	92	264	64.6		143		
VHB-12-N-UNV-L835-CD-U	Value High Bay, 12K Lumen, Narrow Dist, 120-277V, 3500K, Dim	119	953	87	7.0	1:	37	
VHB-12-N-UNV-L840-CD-U	Value High Bay, 12K Lumen, Narrow Dist, 120-277V, 4000K, Dim	12	188	87	7.0	14	40	
VHB-12-N-UNV-L850-CD-U	Value High Bay, 12K Lumen, Narrow Dist, 120-277V, 5000K, Dim	12	524	87	7.0	14	14	
VHB-15-N-UNV-L835-CD-U	Value High Bay, 15K Lumen, Narrow Dist, 120-277V, 3500K, Dim	14	824	11	1.6	1:	33	
VHB-15-N-UNV-L840-CD-U	Value High Bay, 15K Lumen, Narrow Dist, 120-277V, 4000K, Dim	15 [.]	117	11	1.6	1:	35	
VHB-15-N-UNV-L850-CD-U	Value High Bay, 15K Lumen, Narrow Dist, 120-277V, 5000K, Dim	15	533	11	1.6	1:	39	
VHB-18-N-UNV-L835-CD-U	Value High Bay, 18K Lumen, Narrow Dist, 120-277V, 3500K, Dim	179	931	13	3.8	1:	34	
VHB-18-N-UNV-L840-CD-U	Value High Bay, 18K Lumen, Narrow Dist, 120-277V, 4000K, Dim	18:	284	13	3.8	1:	37	
VHB-18-N-UNV-L850-CD-U	Value High Bay, 18K Lumen, Narrow Dist, 120-277V, 5000K, Dim	18	787	13	3.8	14	40	
VHB-24-N-UNV-L835-CD-U	Value High Bay, 24K Lumen, Narrow Dist, 120-277V, 3500K, Dim	22	172	17	4.1	1:	27	
VHB-24-N-UNV-L840-CD-U	Value High Bay, 24K Lumen, Narrow Dist, 120-277V, 4000K, Dim	220	608	17	4.1	1:	30	
VHB-24-N-UNV-L850-CD-U	Value High Bay, 24K Lumen, Narrow Dist, 120-277V, 5000K, Dim	233	231	17	4.1	1:	33	
Narrow, Lumen Select		Level 1 Lumen	Level 2 Lumen	Level 1 Watt	Level 2 Watt	Level 1 Efficacy	Level 2 Efficacy	
VHB-1215-N-UNV-L835-CD-U	Value High Bay, 12K/15K Lumen Select, Narrow Dist, 120-277V, 3500K, Dim	11771	15357	80.6	109.9	146.	139.7	
VHB-1215-N-UNV-L840-CD-U	Value High Bay, 12K/15K Lumen Select, Narrow Dist, 120-277V, 4000K, Dim	12011	15670	80.6	109.9	149	142.6	
VHB-1215-N-UNV-L850-CD-U	Value High Bay, 12K/15K Lumen Select, Narrow Dist, 120-277V, 5000K, Dim	12011	15670	80.6	109.9	149	142.6	
VHB-1824-N-UNV-L835-CD-U	Value High Bay, 18K/24K Lumen Select, Narrow Dist, 120-277V, 3500K, Dim	18040	21887	125.5	158.3	143	138.3	
VHB-1824-N-UNV-L840-CD-U	Value High Bay, 18K/24K Lumen Select, Narrow Dist, 120-277V, 4000K, Dim	18408	22334	125.5	158.3	146	141.1	
VHB-1824-N-UNV-L850-CD-U	Value High Bay, 18K/24K Lumen Select, Narrow Dist, 120-277V, 5000K, Dim	18408	22334	125.5	158.3	146	141.1	
Wide								
VHB-9-W-UNV-L835-CD-U	Value High Bay, 9K Lumen, Wide Dist, 120-277V, 3500K, Dim	90	18	64.6		140		
VHB-9-W-UNV-L840-CD-U	Value High Bay, 9K Lumen, Wide Dist, 120-277V, 4000K, Dim	91	95	64.6		142		
VHB-9-W-UNV-L850-CD-U	Value High Bay, 9K Lumen, Wide Dist, 120-277V, 5000K, Dim	94	48	64.6		146		
VHB-12-W-UNV-L835-CD-U	Value High Bay, 12K Lumen, Wide Dist, 120-277V, 3500K, Dim	12	191	87.0		140		
VHB-12-W-UNV-L840-CD-U	Value High Bay, 12K Lumen, Wide Dist, 120-277V, 4000K, Dim	124	430	87.0		143		
VHB-12-W-UNV-L850-CD-U	Value High Bay, 12K Lumen, Wide Dist, 120-277V, 5000K, Dim	12	2773 87.0		.0 147		47	
VHB-15-W-UNV-L835-CD-U	Value High Bay, 15K Lumen, Wide Dist, 120-277V, 3500K, Dim	15 ⁻	15120 1		111.6		135	
VHB-15-W-UNV-L840-CD-U	Value High Bay, 15K Lumen, Wide Dist, 120-277V, 4000K, Dim	154	417	111.6		138		
VHB-15-W-UNV-L850-CD-U	Value High Bay, 15K Lumen, Wide Dist, 120-277V, 5000K, Dim	158	15841 11		1.6	14	42	
VHB-18-W-UNV-L835-CD-U	Value High Bay, 18K Lumen, Wide Dist, 120-277V, 3500K, Dim	18	18287 13		133.8		137	
VHB-18-W-UNV-L840-CD-U	Value High Bay, 18K Lumen, Wide Dist, 120-277V, 4000K, Dim	180	8647 133.8		133.8 139		39	
VHB-18-W-UNV-L850-CD-U	Value High Bay, 18K Lumen, Wide Dist, 120-277V, 5000K, Dim	19 ⁻	160	133.8		133.8 143		
VHB-24-W-UNV-L835-CD-U	Value High Bay, 24K Lumen, Wide Dist, 120-277V, 3500K, Dim	22613		174.1		130		
VHB-24-W-UNV-L840-CD-U	Value High Bay, 24K Lumen, Wide Dist, 120-277V, 4000K, Dim	23057		174.1		132		
VHB-24-W-UNV-L850-CD-U	Value High Bay, 24K Lumen, Wide Dist, 120-277V, 5000K, Dim	23692		174.1		136		
Wide, Lumen Select		Level 1 Lumen	Level 2 Lumen	Level 1 Watt	Level 2 Watt	Level 1 Efficacy	Level 2 Efficacy	
VHB-1215-W-UNV-L835-CD-U	Value High Bay, 12K/15K Lumen Select, Wide Dist, 120-277V, 3500K, Dim	12004	15661	80.6	109.9	149	142	
VHB-1215-W-UNV-L840-CD-U	Value High Bay, 12K/15K Lumen Select, Wide Dist, 120-277V, 4000K, Dim	12249	15980	80.6	109.9	152	145	
VHB-1215-W-UNV-L850-CD-U	Value High Bay, 12K/15K Lumen Select, Wide Dist, 120-277V, 5000K, Dim	12249	15980	80.6	109.9	152	145	
VHB-1824-W-UNV-L835-CD-U	Value High Bay, 18K/24K Lumen Select, Wide Dist, 120-277V, 3500K, Dim	18397	22321	125.5	158.3	146	141	
VHB-1824-W-UNV-L840-CD-U	Value High Bay, 18K/24K Lumen Select, Wide Dist, 120-277V, 4000K, Dim	18772	22776	125.5	158.3	149	144	
VHB-1824-W-UNV-L850-CD-U	Value High Bay, 18K/24K Lumen Select, Wide Dist, 120-277V, 5000K, Dim	18772	22776	125.5	158.3	149	144	



Energy and Performance Data

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)		
50°C	> 85%	> 152,000		

Ambient Ratings

Lumen Package	Ambient Rating	EM Battery (Remote)
VHB-9	40°C	40°C
VHB-12	40°C	40°C
VHB-15	40°C	40°C
VHB-18	40°C	40°C
VHB-24	40°C	40°C
VHB-1215	40°C	40°C
VHB-1824	40°C	40°C

Shipping Data

Catalog No.	Wt.
VHB-9	13 lbs.
VHB-12	13 lbs.
VHB-15	13 lbs.
VHB-18	13 lbs.
VHB-24	13 lbs.
VHB-1215	13 lbs.
VHB-1824	13 lbs.

Modular F-Bay Power Supply Option

Cooper Lighting's F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time saver in installation – *simply plug & power*.



No internal fixture access required

for installation or disconnecting power

- 1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
- 2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- · Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap



Control Systems

- WaveLinx
- DLVP
- · iLumin Plus
- VividTune

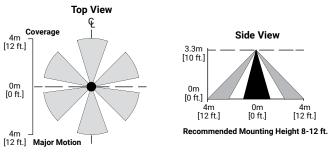
The VHB with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The VHB delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the VHB delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

The integral sensor can be offered in both standalone (SVPD3) and networked (SWPD3) for application versatility.





Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended.

Connected Systems CLICK HERE

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.

	Distributed Low-Voltage Power System	WaveLinx	Enlighted		
Space type	Interior	Interior/Outdoor	Any		
Stand-alone or Network	Stand-alone	Both	Network		
Need-based feature progression					
Basic compliance only	•	\bullet	\bullet		
Occupancy sensing	•	\bullet	•		
Daylight harvesting	•	\bullet	•		
Zone control	•	\bullet	•		
Scheduling	•	\bullet	•		
0-10V dimming	•	\bullet	•		
Individual fixture control	•	\bullet	•		
Retrofit+Building Integration	•	\bullet	•		
Total wireless connectivity		\bullet	•		
A/V integration		\bullet	•		
BMS integration		\bullet	•		
UI options (touchscreen, apps, etc.)		\bullet	•		
Enterprise level building integration		•	•		
Facility management & tools		•	•		
Floor plan & reporting tools			•		
Value-added services			•		
Asset tracking			•		
API integration			•		
Analytics/higher problem solving			•		



Metalux

VHB LED

Integrated Sensor

The VHB with SVPD3 Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The VHB delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the VHB delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

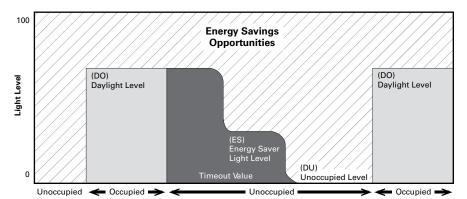
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

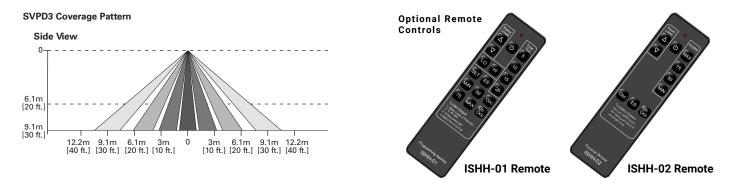
The VHB with SVPD3 Integrated Sensor is easy to install with no special wiring and ensures energy savings outof-the-box with default control settings.

How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- · At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Default daylight harvesting set using 36,000 lumen unit at 30 ft. mounting height, 20 ft. spacing for 50 footcandles.





Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com © 2021 Cooper Lighting Solutions All Rights Reserved. Specifications and dimensions subject to change without notice.