

Project		Catalog #		Type	
Prepared by		Notes		Date	



Corelite

Vertechs-VB

WaveStream™ LED
Suspended
Direct / Indirect

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

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Product Certification



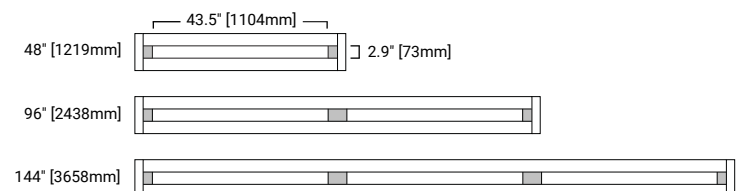
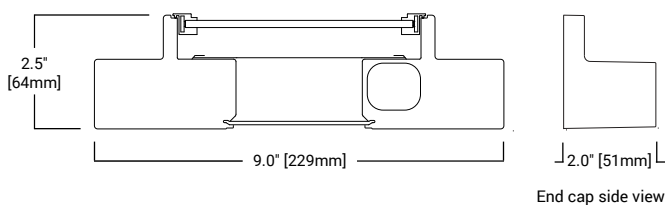
Product Features



Top Product Features

- Powered by a WaveStream™ LED light engine inside
- Superior optical control with multiple up/down distributions
- Over 50% energy savings when compared to fluorescent equivalent
- Individual or continuous mounting with 4', 8' and 12' lengths
- Integral daylight/occupancy sensor option

Dimensions and Fixture Lengths



Order Information

SAMPLE ORDER NUMBER: VB-WS-3L35-1D-UNV-AC48-T1-56-STD-DM8-W

Series	Optics	Light Level (per 4' section, 3500K)	Color Temperature	Number of Circuits	Wiring	Input Voltage	Suspension/ Power Feed
Series	Optics	Light Level (per 4' section, 3500K)	Color Temperature	Number of Circuits	Wiring	Input Voltage	Suspension/ Power Feed
VB=Vertechs Suspended	WS=WaveStream with frosted lens	1=Light Level 1 (3,019 Lms, 26.1W) 2=Light Level 2 (3,767 Lms, 35.5W) 3=Light Level 3 (5,005 Lms, 46.3W) 4=Light Level 4 (6,190 Lms, 63.7W) 5=Light Level 5 (7,351 Lms, 79.2W)	L30=LED 3000K L35=LED 3500K L40=LED 4000K	1=1 Circuit	C=Switched Circuit ⁽¹⁾ D=Dimming ⁽¹⁾ B=Battery Pack ⁽³⁾ E=Emergency Circuit T=Nightlight Y=Daylight	UNV=Universal (120V-277V) 347=347V ⁽⁴⁾	AC=Aircraft cable with straight power cord
					Notes (1) Dimming wires come standard in all LED fixtures but can be capped in the field for standard switched operation. (3) For approximate delivered lumens, take lumens per watt of desired fixture and multiply by 12 watts (100 lp/W x 12 = 1200 lumens delivered).	Notes (4) Integral 347V electronic driver with STD 0-10V option only. Two drivers required for Light Level 5. Factory supplied remote transformer for all other driver/dimming options.	

Suspension Length	Ceiling Type	Run Length	Driver/Dimming Options	Integral Sensor (Optional)	Distribution Modifier Kit (DM Kit)	Finish
Suspension Length	Ceiling Type	Run Length	Driver/Dimming Options	Integral Sensor (Optional)	Distribution Modifier Kit (DM Kit)	Finish
Adjustable Cable 48", 120", 240", 300", or 360"	T1=15/16" T-Bar T9=9/16" T-Bar TS=Slotted T-Bar JB=Junction Box / Structure UM=Universal Ceiling Kit (T1, T9, JB) S=Swivel at Canopy (S = T1, T9, TS or JB)	4=4 ft. 8=8 ft. 12=12 ft. XX=Specify Row Length ⁽⁵⁾	STD=Standard 0-10V (10%-100%) HCD=0-10V (1%-100%) ⁽⁷⁾ SLT=Fifth Light DALI (10%-100%) ⁽⁶⁾⁽⁸⁾ STP=Step Dimming (Bi-Level, 40%) ⁽⁹⁾ SR=Sensor Ready (5%-100%)	SVDPD1=Integrated Occupancy/Daylight Sensor for Local Control ⁽¹⁰⁾ LWIPD1=Enlighted Wireless Integral Sensor ⁽¹¹⁾ WAA=WaveLinX Wireless Integrated Sensor ⁽¹²⁾⁽¹³⁾⁽¹⁴⁾	(blank)=Std. 65% up / 35% down DM5=50% up / 50% down DM8=80% up / 20% down	W=White S=Silver C=Custom Color
	Notes UM mounting accommodates 15/16" Grid, 9/16" Grid, 4" Octagonal J-Box, and Structure - Adder applies. White mounting hardware standard, for black mount- ing hardware, add "B" after ceiling type.	Notes (5) Standard row configurations over 12" consist of 8' and 12' luminaires.	Notes (6) Must be used in conjunction with a DALI control system. For a complete listing of Fifth Light Technology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com (7) Two HCD drivers required per 4' section for Light Levels 4 and 5. (8) Two Fifth Light (SLT) drivers required per 4' section for Light Level 5. (9) Step-dim not available in Light Level 1. Two step-dim drivers required per 4' section for Light Level 5.	Notes (10) SV sensor works only with 0-10V drivers and is factory prewired to the driver for stand-alone control. Individual fixtures only. Order #ISHH-01 for Programming Remote and #ISHH-02 for Personal Control Remote. (11) LWI sensor requires use of SR driver. Must be used in conjunction with a Enlighted control system. For complete Enlighted wireless solutions, visit www.cooperlighting.com (12) WAA sensor works only with STD and HCD 0-10V drivers. Designed for use with the WaveLinX Wireless Connected Lighting system. For complete WaveLinX wireless solutions, visit www.cooperlighting.com/global/brands/wavelinx.html . (13) Emergency circuit option not available with WAA or LWI integral sensor options. (14) SWPD1 has been renamed to WAA, but remains the same sensor.	Notes Nominal distributions. Refer to photometric tests for exact distributions	

Product Specifications

Construction

- Extruded aluminum housing forming a 9" x 2-1/2" rectilinear profile
- Modular 4'-0", 8'-0" and 12'-0" sections combine for continuous runs

End Caps

- Standard end caps are precision die-cast aluminum
- Mechanically attached without exposed fasteners
- End cap adds 2" at each end

Lengths

- Available in 4-ft, 8-ft, and 12-ft sections
- All sections are modular eliminating the need for starter, joiner and end sections
- Standard row configurations over 12-ft consist of 8-ft and 12-ft luminaires unless otherwise specified

Finish

- Electrostatically applied polyester powder coat paint
- White finish standard
- Silver, Black, and RAL custom colors are available

Mounting

- Aircraft cable mounts on 4'-0", 8'-0" and 12'-0" centers
- Refer to installation instructions for various ceiling interface details

Shielding / Optics

- Bottom lens is a high light transmission 0.08" thick linear prismatic frosted acrylic material
- Precision formed optical assembly with optical grade acrylic lenses
- Direct / Indirect optical distribution using WaveStream technology

- Low-voltage WaveStream LED light engine is field-replaceable
- Standard distribution 50% up / 50% down
- Distribution Modification Kit for 40% up / 60% down (DM5) or 70% up / 30% down (DM8)

LED and Light Engine

- LEDs are available in 3000K, 3500K and 4000K
- Typical CRI ≥ 85
- Five light level choices (see ordering information for details)
- Projected life is 100,000 hours at 81% lumen maintenance
- Electronic driver 120-277V dimming driver standard; Available with 347V optional driver
- 0-10V continuous dimming down to 10%; Works with any 0-10V control / dimmer
- Optional dimming driver down to 1%
- Digital Addressable Lighting Interface (DALI) driver options for use with Fifth Light controls (see ordering information for all driver options)

Integrated Controls

- WaveLinX sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- Integrated Occupancy / Daylight sensor for local control

Emergency Options

- Optional 120-277V emergency battery available in 12W
- 90 minute output, and powers a 4-foot section
- Test switch/indicator button located on the top side of the luminaire
- Approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of

the emergency battery pack (100 lm/W x 12 = 1200 lumens)

- The combination of integrated sensor and emergency circuit options require an EPC UL924 bypass relay that disables sensor control of emergency fixtures when normal power is lost

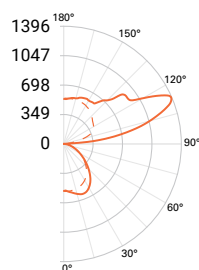
Compliance

- cULus listed for damp locations, 25°C ambient environments
- Tested to IESNA LM-79 and LM-80
- RoHS compliant
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

Warranty

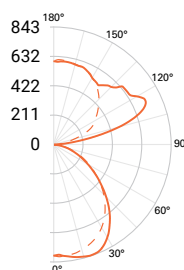
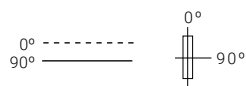
- Five year warranty standard.
www.cooperlighting.com/legal

Photometric Data

 View IES files


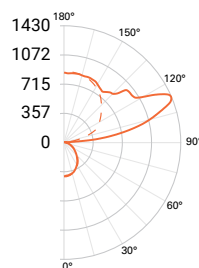
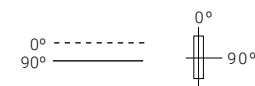
FILE NAME:
VB-WS-3L35-1D-UNV-4-STD.ies
CCT: (LD1) LED 3500K
LUMENS: 5005 Lm
WATTS: 46.3 W
EFFICACY: 108 Lm/W
TEST NO.: P183488

65% UP / 35% DOWN



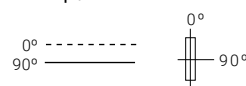
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VB-WS-3L35-1D-UNV-4-STD-DM5.ies
CCT: (LD1) LED 3500K
LUMENS: 4681 Lm
WATTS: 46.3 W
EFFICACY: 101 Lm/W
TEST NO.: P183548

51% UP / 49% DOWN



FILE NAME:
VB-WS-3L35-1D-UNV-4-STD-DM8.ies
CCT: (LD1) LED 3500K
LUMENS: 4876 Lm
WATTS: 46.3 W
EFFICACY: 105 Lm/W
TEST NO.: P183428

80% Up / 20% DOWN



Note: Refer to IES files for more product data.

Energy and Performance Data

4' – VB WaveStream Light Level Outputs and Distributions (3500K)						
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)	Distribution	
					% Up	% Down
VB-WS	1	3019	26.1	116	65%	35%
	2	3767	35.5	106		
	3	5005	46.3	108		
	4	6190	63.7	97		
	5	7351	79.2	93		
VB-WS w/ DM5	1	2824	26.1	108	51%	49%
	2	3524	35.5	99		
	3	4681	46.3	101		
	4	5790	63.7	91		
	5	6876	79.2	87		
VB-WS w/ DM8	1	2941	26.1	113	80%	20%
	2	3670	35.5	103		
	3	4876	46.3	105		
	4	6031	63.7	95		
	5	7161	79.2	90		

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
25°C	>81%	181,000

Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- Enlighted
- iLumin Plus



Connected Systems
CLICK HERE

SVPD1 Integrated Sensor

The Vertechs 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 Vertechs delivers superior lighting with integrated PIR occupancy sensing and daylighting controls.

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

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

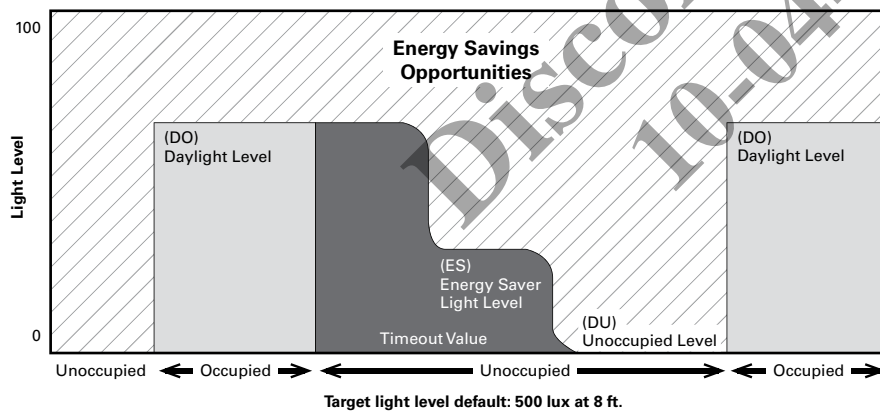
Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote

(Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Vertechs with Integrated Sensors is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

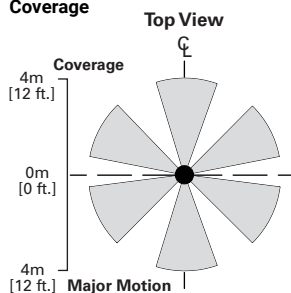
How it works:

- When a user enters under an integral sensor, the luminaire controlled by that sensor turns ON to the daylight level (default 500 lux).
- Lighting will remain at 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 (default matches occupied daylight level). This adjustable light level is often set to 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.

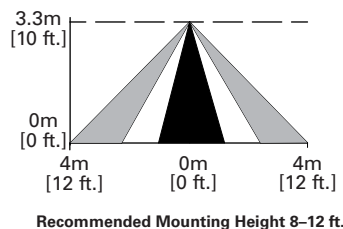


ISHH-01 Programming Remote

Coverage



Side View



ISHH-02 Personal Control Remote