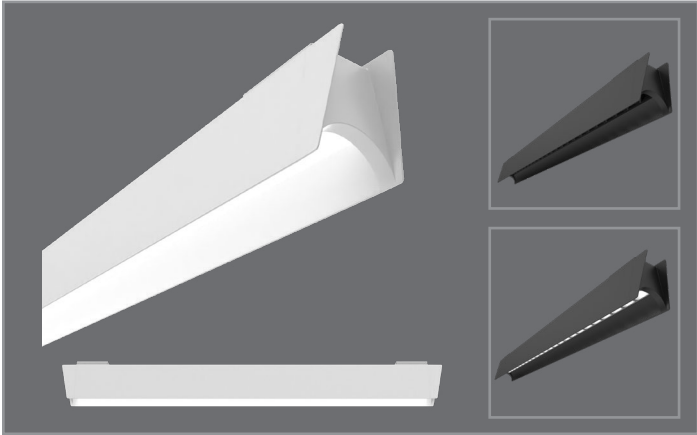


Project		Catalog #		Type	
Prepared by		Notes		Date	



# Corelite

## Vaulta

Surface Mount  
Direct LED

### Typical Applications

- Office • Education • Healthcare • Hospitality • Retail

**Interactive Menu**

- Order Information page 2
- Photometric Data page 4-5
- Energy and Performance Data page 6
- Control Systems page 7
- Product Warranty

### Product Certification



### Product Features

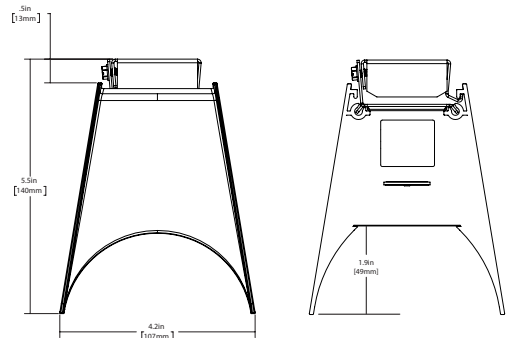


### Top Product Features

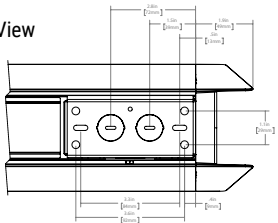
- Open aperture with architectural vault style aesthetics
- Integral electrical components and circuiting options
- Seamless illumination with single-piece luminous roll lens softly lighting open aperture reflectors
- Black and white Discreet glare reducing louvered baffle options
- Batwing and Asymmetric direct distributions with frosted single-piece luminous roll lens
- Up to 139 lumens per watt
- Options to meet Buy American Act requirements

### Dimensions

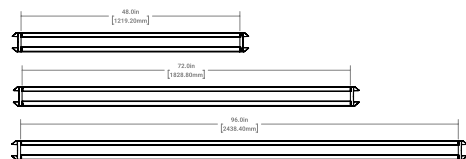
Cross Section Views



Top View



Bottom Views



Note: End caps add 1.9" at each end.

Order Information

SAMPLE ORDER NUMBER: VLT-FB-075D-835-1D-UNV-STD-WAA-BSL6-W-SU-32

Domestic Preferences	Series	Shielding (Direct)	Distribution (Direct)	Lumen Package Down (Lms/ft)	CRI/CCT	Circuiting (In Cross Section)	Specialty Wiring
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act	<b>VLT</b> = Vaulta Surface, Direct	<b>F</b> =Frosted Continuous Roll Lens  <b>BB</b> = Discreet Black Baffles, TIR Optics <b>WB</b> =Discreet White Baffles, TIR Optics	<b>[BLANK]</b> =Standard Lambertian <b>B</b> =Batwing Distribution <b>A</b> =Asymmetric Distribution  <b>M</b> =Medium, 80° <b>N</b> =Narrow, 35° **	<b>050D</b> =500 Lumens/ft Down <b>075D</b> =750 Lumens/ft Down <b>100D</b> =1000 Lumens/ft Down <b>125D</b> =1250 Lumens/ft Down <b>___D</b> =Specify **	<b>830</b> =3000K, 80CRI <b>835</b> =3500K, 80CRI <b>840</b> =4000K, 80CRI  <b>930</b> =3000K, 90CRI <b>935</b> =3500K, 90CRI <b>940</b> =4000K, 90CRI	<b>1</b> =Single Circuit	<b>D</b> =None (Default Dimming) <b>E</b> =Emergency Circuit <b>S</b> =Secondary Circuit <b>N</b> =Secondary + Emergency Circuit
<b>Notes</b> Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	<b>Notes</b>	<b>Notes</b> <b>F</b> : Continuous lens supplied up to 100+ ft.  Consult factory for more information on white and light custom color fixtures with Discreet baffles segmented optics and medium distribution that creates a nonuniform reflector effect on the inside housing.	<b>Notes</b> <b>** N</b> : Narrow Beam Discreet Optic coming soon. Consult factory for availability.	<b>Notes</b> Custom lumen output available. Down (Direct): Min = 150 Lms/ft Max = 1500 Lms/ft  Custom lumens are specified to the nearest 10 lumens/ft  <b>**</b> Consult factory to specify custom lumen package  Not all lumen packages are available for every configuration. See Driver Availability tables for more details.	<b>Notes</b> 80 CRI standard for lensed shielding options. 90 CRI available.  90 CRI is standard for black and white Discreet baffle shielding options (BB, WB).	<b>Notes</b> Refers to wiring in cross section.	<b>Notes</b> Emergency and Secondary circuit section wiring are configured per unit (4ft, 6ft, or 8ft).  Emergency circuit option operates entire downlight portion of a specified unit.

Voltage	Driver/Dimming	Integral Sensor Options	Integral Emergency Device Options	Finish	Mounting	Run Length
<b>UNV</b> =Universal (120V-277V) <b>347</b> =347V	<b>STD</b> =Standard 0-10V (1%-100%) <b>SR</b> =Sensor Ready (1%-100%) <b>5LT</b> =Fifth Light DALI (5%-100%) <b>LH</b> =Lutron HiLume 1% EcoSystems (LDE1)	<b>WAA</b> =WaveLinX Wireless Integrated Sensor <b>WAB</b> =WaveLinX Lite Wireless Integrated Sensor <b>LWIPD1</b> =Enlighted Wireless Integrated Sensor	<b>BSL6</b> =Bodine 6-watt, 120V-277V Emergency Battery Pack, Self-Diagnostic, BSL6LST <b>EPC</b> =LVS Controls EPC UL924 Bypass Relay	<b>W</b> =White <b>S</b> =Silver <b>B</b> =Black <b>CC</b> =Custom Color	<b>SU</b> =Ceiling Surface Mount, Junction Box	<b>4</b> =4 ft <b>6</b> =6 ft <b>8</b> =8 ft <b>XX</b> =Specify Run Length
<b>Notes</b> Integral 347V driver with STD 0-10V option only.	<b>Notes</b> Not all driver options are available for every configuration. See Driver Availability tables for more details.	<b>Notes</b> WAA and WAB sensor must be used with "STD" driver.  LWI sensor must be used with "SR" driver.  Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency fixture.	<b>Notes</b> EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).  Battery operates entire downlight portion of 4ft, 6ft fixtures and 4ft sections of 8ft.	<b>Notes</b> <b>CC</b> =must denote RAL color number  Consult factory for Discreet Baffles with White fixture finish.	<b>Notes</b> Fixture-side surface mount bracket is pre-installed on the luminaire. Ceiling-side brackets are kitted.  Please refer to ceiling interface diagrams for additional detail and dimensions.	<b>Notes</b> See "Standard Row Configurations" table on Page 4 for continuous row length breakdowns.

## Product Specifications

### Construction

- Single-piece extruded aluminum housing
- 4" x 5" profile
- Die-formed 20 gauge cold rolled steel LED tray
- Driver accessible from above.

### End Caps

- Die cast aluminum end caps allow for expansion of roll lens to eliminate light leak
- Attach mechanically to the end of the fixture without exposed fasteners
- Standard end cap adds 1.9" at each end.

### Lengths

- Available in 4-ft, 6-ft, and 8-ft sections
- Modular design eliminates the need for starter, intermediate, and end of run sections
- See table on page 4 for standard continuous row length breakdowns

### Finish

- Electrostatically applied polyester powder coat paint
- White, silver, and black finishes are standard.
- RAL custom colors are available

### Mounting

- Surface mount fixture mounts directly to structure over a 2"x4" standard electrical box
- All sections are continuously wired with push-in connectors for fast installation
- Fixtures can be joined for straight continuous runs
- Refer to installation instructions for various ceiling interface details

### Shielding

- **F:** Continuous lens supplied up to 100+ ft. Consult factory for more information on white and light custom color fixtures with Discreet baffle's segmented optics and medium distribution that creates a nonuniform reflector effect on the inside housing.
- **BB(Black)** and **WB(White):** Injection molded, contoured, segmented baffles with for low UGR values and improved visual comfort.
- **FB, FA:** Frosted continuous flexible roll lens and light shaping lens combo creates seamless illumination along entire row length. Each lens is a single piece roll lens up to 100+ ft.

### Optics

- **BB, WB:** 80° beam angle direct distribution with 45° cutoff

### LED and Light Engine

- LEDs are available in 3000K, 3500K, 4000K
- CRI options of either ≥80CRI or ≥90CRI
- Lumen output will be affected - please refer to the lumen adjustment factor tables
- TM21 life at 60,000 hours up to L84 and calculated L70 exceeds 121,000 hrs.
- Drivers available in 120-277V and 347V

### Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinx sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- DALI 2.0 and Lutron dimming available

### Emergency Options

- Emergency circuit option operates entire downlight portion of a specified unit (4 ft, 6 ft, or 8 ft)
- Optional 6-watt 120-277V integral emergency battery illuminates a 4 ft. down-light section
- 90-minute backup period for code compliance
- Test switch/indicator button located on the top side of the luminaire
- For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 6 = 600 lumens)
- Battery is self-testing
- UL 924 emergency/generator transfer options available

### Weight

- < 3.75 lbs. per foot

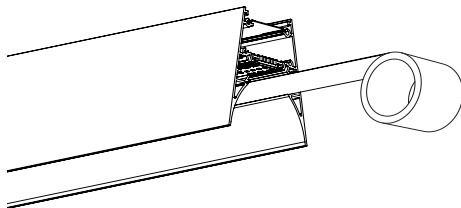
### Compliance

- cULus listed for damp locations
- Tested to IESNA LM-79 and LM-80
- RoHS compliant
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard (refer to [www.designlights.org](http://www.designlights.org))

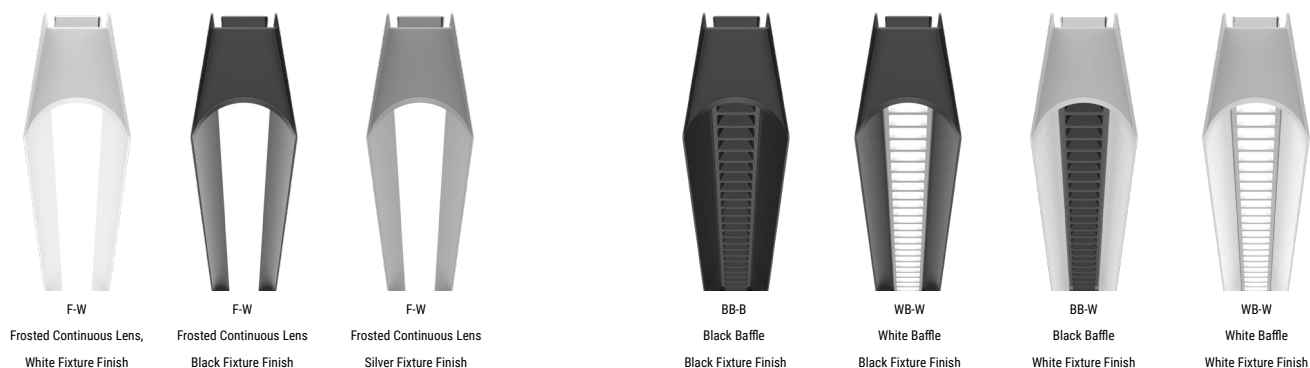
### Warranty

- Five year warranty standard
- [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

## Continuous Lens



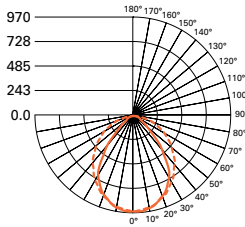
## Shielding & Finish Options



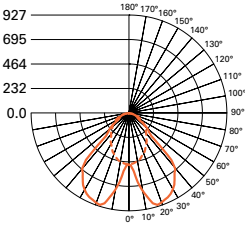
Note: All Finish and Shielding combinations are available. Not all are shown. Custom color housing finishes are also available.

Photometric Data - Frosted Lens

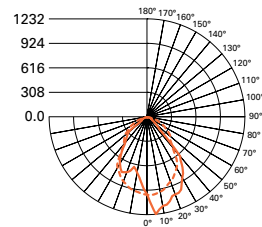
[View IES files](#)



**FILE NAME:**  
**VLT-F-0U-050D-835-1D-UNV-STD-W-4.ies**  
**CCT/CRI:** 3500K / 80 CRI  
**LUMENS:** 1973 Lm  
**WATTS:** 14.4 W  
**EFFICACY:** 137 Lm/W  
**TEST NO.:** P621482  
 0% UP / 100% DOWN  
 0° (H) - - - - -  
 90° (L) \_\_\_\_\_



**FILE NAME:**  
**VLT-FB-0U-050D-835-1D-UNV-STD-W-4.ies**  
**CCT/CRI:** 3500K / 80 CRI  
**LUMENS:** 1763 Lm  
**WATTS:** 14.4 W  
**EFFICACY:** 122 Lm/W  
**TEST NO.:** P621818  
 0% UP / 100% DOWN  
 0° (H) - - - - -  
 90° (L) \_\_\_\_\_



**FILE NAME:**  
**VVLT-FA-0U-050D-835-1D-UNV-STD-W-4.ies**  
**CCT/CRI:** 3500K / 80 CRI  
**LUMENS:** 2027 Lm  
**WATTS:** 14.4 W  
**EFFICACY:** 141 Lm/W  
**TEST NO.:** P621650  
 0% UP / 100% DOWN  
 0° (H) - - - - -  
 90° (L) \_\_\_\_\_

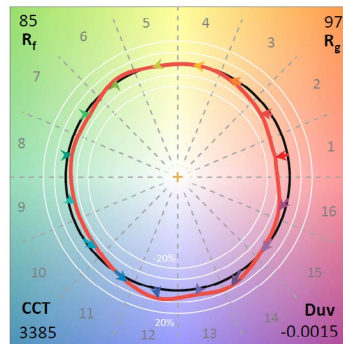


Note: Refer to IES files for more product data.

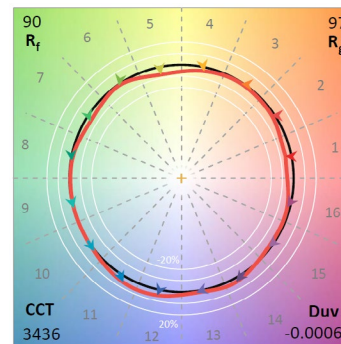
Color Data (3500K)

		80CRI	90CRI
TM-30-15	R <sub>f</sub>	85	90.1
	R <sub>g</sub>	96.6	97.4
CRI/CIE	R <sub>a</sub>	84.6	94.3
	R <sub>g</sub>	16.1	59.8

80CRI



90CRI



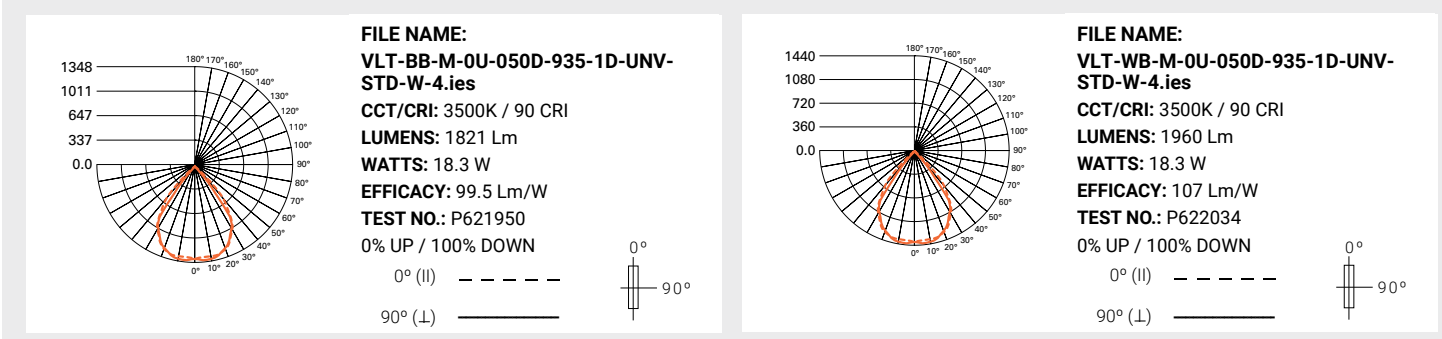
Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	Theoretical L70 (Hours) <sup>(2)</sup>
25°C	>85%	135,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Photometric Data - Discreet Baffles

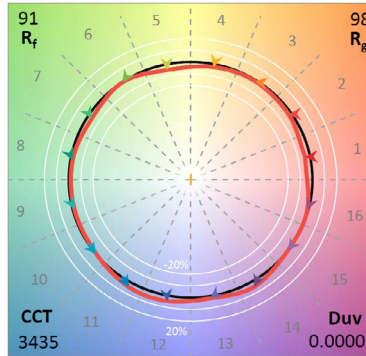
[View IES files](#)



Note: Refer to IES files for more product data.

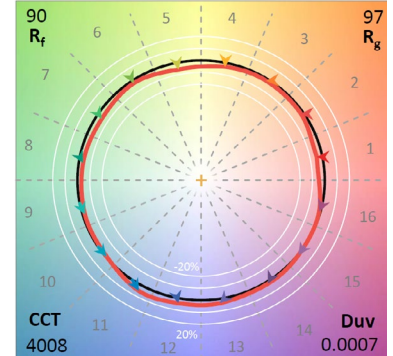
Color Data (3500K)

		90CRI
TM-30-15	R <sub>f</sub>	91.3
	R <sub>g</sub>	98.4
CRI/CIE	R <sub>a</sub>	94.6
	R <sub>9</sub>	70.2



Color Data (4000K)

		90CRI
TM-30-15	R <sub>f</sub>	89.7
	R <sub>g</sub>	97.2
CRI/CIE	R <sub>a</sub>	93.7
	R <sub>9</sub>	69.1



Luminance Data

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - Black Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	3704	5506	7334	9263
55	408	606	807	1018
65	17	25	34	42
75	0	0	0	0
85	0	0	0	0

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - White Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	4272	6352	8461	10684
55	801	1190	1585	2003
65	357	530	706	891
75	333	494	660	832
85	329	486	650	823

Note: Refer to IES files for more product data.

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	Theoretical L70 (Hours) <sup>(2)</sup>
25°C	>99%	>60,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

## Energy and Performance Data - Frosted Lens

Vaulta Suspended Performance - 80CRI, 3500K <sup>6</sup>							Glare	
Lumen Package	Lumens/ft Up	Lumens/ft Down	Lumens/ft Total	W/ft Total	Lm/W	Distribution (up%/down%)	UGR <sup>1,2,4,5,6</sup>	MAX LUMINANCE <sup>3,4,5,6</sup>
050D	0	493	493	3.6	137	0%/100%	21.2	5835
075D	0	751	751	5.4	139	0%/100%	22.7	8883
100D	0	999	999	7.3	137	0%/100%	23.7	11821
0U-125D	0	1255	1255	9.7	130	0%/100%	24.5	14841



## Energy and Performance Data - Discreet Optics, Black Baffles

Vaulta Suspended Performance - 90CRI, 3500K <sup>6</sup>							Glare	
Lumen Package	Lumens/ft Up	Lumens/ft Down	Lumens/ft Total	W/ft Total	Lm/W	Distribution (up%/down%)	UGR <sup>1,2,4,5,6</sup>	
0U-050D	0	456	456	4.6	100	0%/100%	0	
0U-075D	0	678	678	7.0	97	0%/100%	0.4	
0U-100D	0	903	903	9.6	94	0%/100%	1.4	
0U-125D	0	1140	1140	12.4	92	0%/100%	2.2	



## Energy and Performance Data - Discreet Optics, White Baffles

Vaulta Suspended Performance - 90CRI, 3500K <sup>6</sup>							Glare	
Lumen Package	Lumens/ft Up	Lumens/ft Down	Lumens/ft Total	W/ft Total	Lm/W	Distribution (up%/down%)	UGR <sup>1,2,4,5,6</sup>	
0U-050D	0	491	491	4.6	107	0%/100%	5	
0U-075D	0	729	729	7.0	104	0%/100%	6.4	
0U-100D	0	971	971	9.6	101	0%/100%	7.4	
0U-125D	0	1227	1227	12.4	99	0%/100%	8.2	



### Notes:

- (1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane
- (2) For other UGR data for room or reflective ceiling plans please see technical data on website.
- (3) Luminance measured at 45-90 degrees from nadir.
- (4) UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell. (UGR < 16, Luminance < 6,000, Indirect-only)
- (5) UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text. (UGR < 19, Luminance < 7,000, Indirect-only)
- (6) For technical data of other configurations please see photometric section on website or click link at top-right

### KEY:

	Meets WELL v2
TEXT	Meets LEED v4.1

### Lumen Adjustment & Melanopic Ratios (Frosted Lenses)

CCT	3000K		3500K		4000K	
CRI	80+	90+	80+	90+	80+	90+
Lumen Multiplier	0.999	0.843	1.000	0.884	1.029	0.924
Melanopic Ratio	0.518	0.582	0.597	0.661	0.661	0.735

### Example Calculation:

075D / 3500K / 80 CRI  
Lumen Output selected = 1008 lms/ft

3500K / 90 CRI Desired  
Lumen Adjustment Factor = 0.884

Adjusted Lumen Output = 751 lms/ft x 0.884 = 664 lms/ft

### Lumen Adjustment & Melanopic Ratios (Discreet Optics)

CCT	3000K	3500K	4000K
CRI	90+	90+	90+
Lumen Multiplier	0.987	1.000	1.028
Melanopic Ratio	0.569	0.620	0.773

### Lens Lumen Multipliers (applied to Direct/Down output)- Light Shaping Lenses

Batwing Distribution Lens	0.893
Asymmetric Distribution Lens	0.793

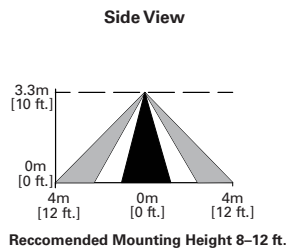
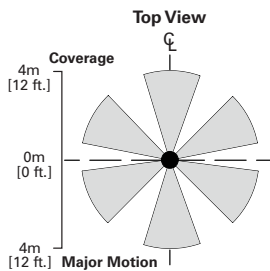
**Control Systems**

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune

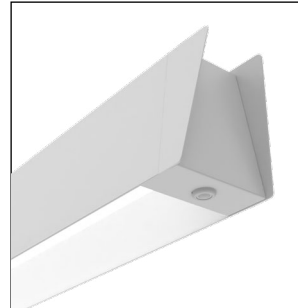


The Vaulta with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Vaulta delivers superior lighting with integrated occupancy and daylighting controls. For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed. When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings. The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

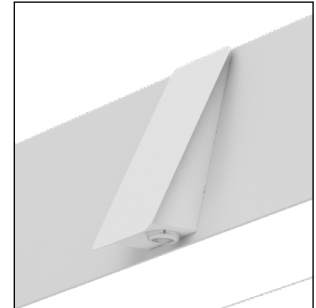
For additional information integrated sensors and connected lighting, please visit [Cooper Lighting Solutions' Connected Lighting Website](#).



Note: Discreet Baffle configurations may have a small cutoff of coverage pattern perpendicular to the fixture.



Vaulta Suspended with Integrated Sensor - Endcap



Vaulta Suspended with Integrated Sensor - Side Mount



**Standalone**



**Controlled**  
WaveLinx Lite



**Connected**  
WaveLinx Wireless



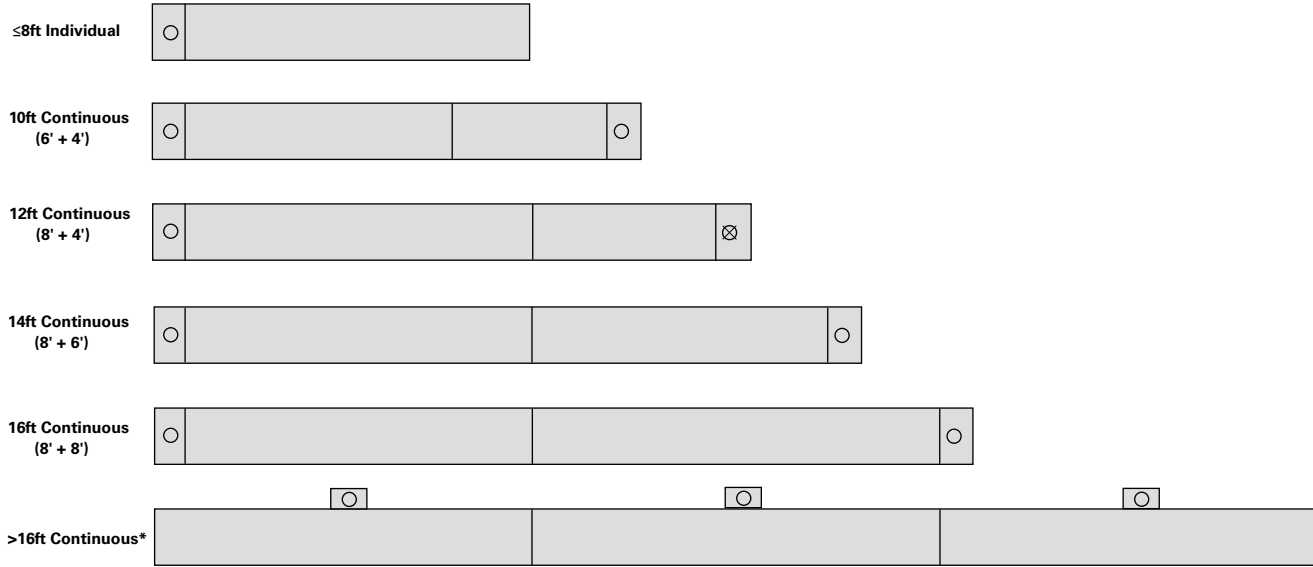
**Enterprise**  
Trellix

<b>Occupancy</b>	Yes	Yes	Yes	Yes
<b>Daylighting</b>	Yes	Yes	Yes	Yes
<b>Gateways</b>	-	-	1 WAC	300 WACs
<b>Devices</b>	-	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
<b>Software</b>	-	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
<b>Areas</b>	-	28 per Site	16 per WAC	up to 4,800
<b>Zones</b>	-	16 per Area	16 per Area	up to 76,800
<b>Scheduling</b>	-	-	Local	Global
<b>VividTune™</b>	-	-	Yes	Yes
<b>Plug-Load Control</b>	-	-	Yes	Yes
<b>Integration</b>	-	-	-	BACnet, API
<b>Dashboards</b>	-	-	-	Energy, Occupancy
<b>Configuration</b>	-	Installer	Technician	Technician / IT

**SCALABILITY**



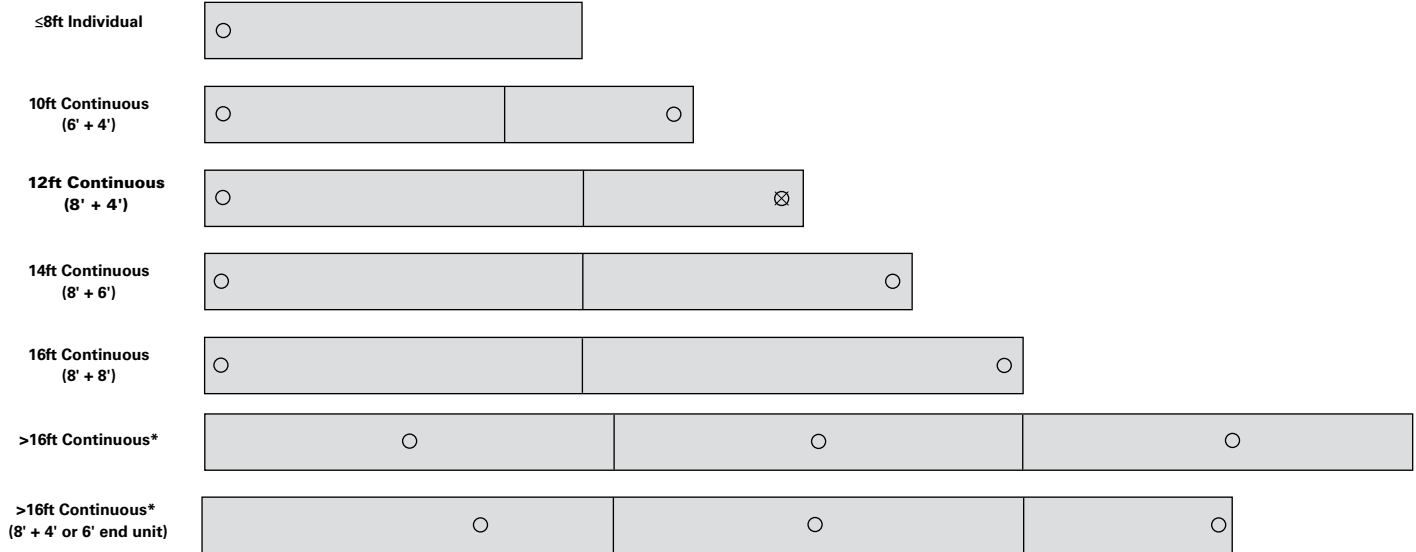
Default Integral Sensor Placement - Frosted Lens



Note: \*See Standard Row Configuration table on Page 4.

- Standard Sensor with Luminaire Control
- ⊗ Auxiliary Sensor used for Sensor Coverage (wireless systems only)

Default Integral Sensor Placement - Discreet Baffles



- Standard Sensor with Luminaire Control
- ⊗ Auxiliary Sensor used for Sensor Coverage (wireless systems only)

Note: \*See Standard Row Configuration table on Page 4.  
8' sensor spacing for continuous runs using 8' max units.  
4' and 6' units at the ends of runs will utilize sensor end caps.



**Standard Row Configurations**

**8' Unit Max**

Fixture Length	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'
4'	1			1	1			1	1			1	1			1	1			1	1			1
6'		1		1		1		1		1		1		1		1		1		1		1		1
8'			1		1	1	2	1	2	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5

Fixture Length	52'	54'	56'	58'	60'	62'	64'	66'	68'	70'	72'	74'	76'	78'	80'	82'	84'	86'	88'	90'	92'	94'	96'	98'	100'
4'	1			1	1			1	1			1	1			1	1			1	1			1	1
6'		1		1		1		1		1		1		1		1		1		1		1		1	
8'	6	6	7	6	7	7	8	7	8	8	9	8	9	9	10	9	10	10	11	10	11	11	12	11	12

**Driver Availability - Frosted Lens**

Lumen Package	'STD' 0-10V, UNV Qty of Drivers			'5LT' DALI / 'SR' Qty of Drivers			'LH' Lutron Qty of Drivers			'STD' 0-10V, 347V Qty of Drivers		
	4'	6'	8'	4'	6'	8'	4'	6'	8'	4'	6'	8'
0U-050D	1	1	1	1	1	1	1	1	1	1	1	1
0U-075D	1	1	1	1	1	1	1	1	1	1	1	1
0U-100D	1	1	1	1	1	1	1	1	1	1	1	1
0U-125D	1	1	1	1	1	1	1	1	1	1	1	1

**Driver Availability - Discreet Baffles**

Lumen Package	'STD' 0-10V, UNV Qty of Drivers			'5LT' DALI / 'SR' Qty of Drivers			'LH' Lutron Qty of Drivers			'STD' 0-10V, 347V Qty of Drivers		
	4'	6'	8'	4'	6'	8'	4'	6'	8'	4'	6'	8'
0U-050D	1	1	1	1	1	1	1	1	1	1	1	1
0U-075D	1	1	1	1	1	1	1	1	1	1	1	1
0U-100D	1	1	1	1	1	1	1	1	1	1	1	1
0U-125D	1	1	2	1	1	2	1	1	2	1	1	2

**Notes:**

When battery option is selected:

- 8ft fixtures contain 2 downlight drivers in all configurations