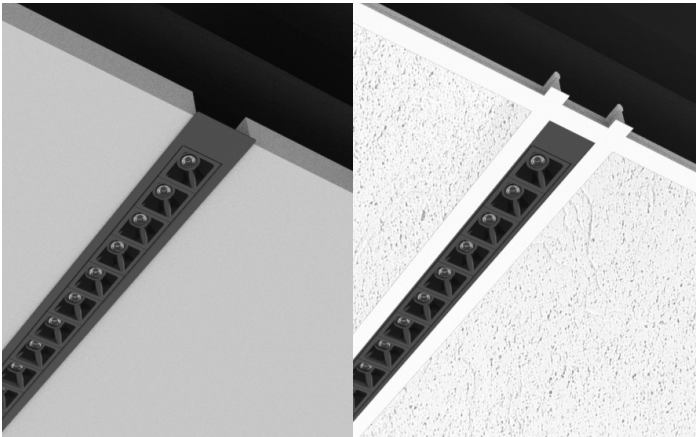


Project		Catalog #		Type	
Prepared by		Notes		Date	



# Corelite

## Discreet™

LED Recessed

### Typical Applications

- Office • Education • Healthcare • Hospitality • Retail

### Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 6](#)
- Energy and Performance Data [page 7](#)
- Connected Systems [page 9](#)
- Product Limited Warranty

### Product Certification



### Product Features

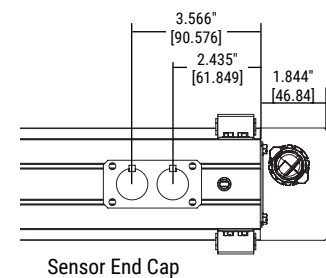
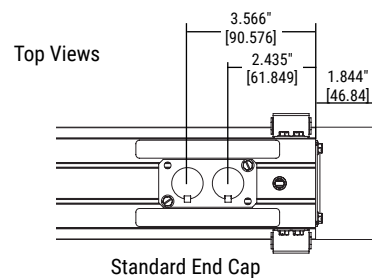
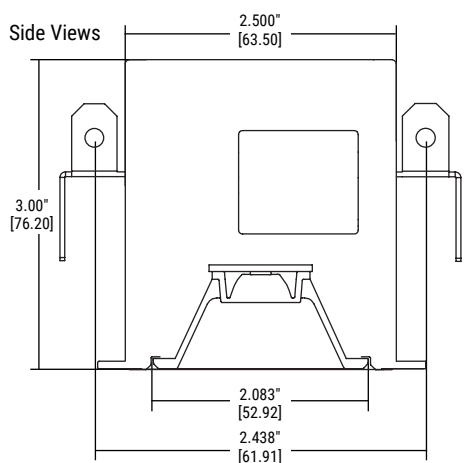


\*Self-tested by Cooper Lighting. Not a third party certification.

### Top Product Features

- Sleek design with integral electrical components and circuiting options
- Low glare illumination with precision-engineered optical system
- Black (UGR<6) and White (UGR<13) baffle options
- Architectural ceiling integrations
- Up to 121 lumens per watt

### Dimensions



## Order Information

SAMPLE ORDER NUMBER: **DLR2-WB-M-075D-935-1BSL6-UNV-STD-WAA-W-T1-8**

**Icon Key:** ∅ Consult factory for availability  
Orange bar denotes coming soon

Domestic Preferences	Series	Shielding	Distribution	Lumen Package (Lms/ft)	CRI/CCT	Circuiting	Emergency
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act	<b>DL2R</b> = Discreet Linear 2" Recessed	<b>BB</b> = Black Baffle, TIR Optic <b>WB</b> = White Baffle, TIR Optic	<b>M</b> = Medium, 80° <b>N</b> = Narrow, 35° ∅ <b>WW</b> = Wall Wash ∅	<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>U</b> = Specify ∅	<b>930</b> = 3000K, 90CRI <b>935</b> = 3500K, 90CRI <b>940</b> = 4000K, 90CRI	<b>1</b> =Single Circuit <b>S</b> =Secondary Circuit	<b>D</b> = No Emergency <b>E</b> = Emergency Circuit <b>BSL6</b> = Bodine 6-watt, 120V-277V Emergency Battery Pack, BSL6LST <b>EPC</b> = LVS Controls EPC UL924 Bypass Relay Device
<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>Notes</b> ∅ Coming soon	<b>Notes</b> Custom lumen output available. Down (Direct): Min = 150 Lms/ft Max = 1500 Lms/ft  Consult factory to specify custom lumen package.  See Driver Availability tables for more details.  Outputs above 1000 lumens/ft are not for IC installation  Batteries are only allowed up to 1000 lumens/ft.	<b>Notes</b>	<b>Notes</b> Secondary circuit not available with integrated sensor options.	<b>Notes</b> See page 8 for Battery Integration Battery available in fixtures up to a combined 2000 lms/ft.  EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).  4ft Fixture with uplight not available with integrated battery and sensor in same fixture.  4ft Fixture with uplight not available with integrated battery and SR and SLT drivers in same fixture.

Voltage	Driver/Dimming	Integral Sensor Options	Options	Finish	Ceiling Type	Run Length
<b>UNV</b> =Univeral (120V-277V) <b>347</b> =347V	<b>STD</b> = Standard 0-10V (1%-100%) <b>SR</b> = Sensor Ready (1%-100%) <b>SLT</b> = Fifth Light DALI (1%-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>CP</b> =Chicago Plenum	<b>W</b> = White <b>S</b> = Silver <b>B</b> = Black <b>CC</b> = Custom Color	<b>T1</b> = 15/16" T-Grid, 9/16" T-Grid <b>T2</b> = 9/16" Slot T-Grid, 9/16" Tegular T-Grid, 9/16" Interlude T-Grid <b>FG</b> = Flanged (Gypsum Board) <b>MD</b> = Mud-in Flange	<b>2</b> = 2 ft <b>4</b> = 4 ft <b>6</b> = 6 ft <b>8</b> = 8 ft <b>XX</b> = Specify Run Length
<b>Notes</b> Integrated 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> Meets CCEA requirements	<b>Notes</b> CC=must denote RAL color number  Consult factory for custom finishes.	<b>Notes</b>	<b>Notes</b> See 'Standard Row Configurations' table on Page 9 for continuous row length breakdowns.

## Product Specifications

### Construction

- Single-piece extruded aluminum housing
- 2.63" x 3" profile
- Die-formed 20 gauge cold rolled steel LED tray
- Driver accessible from below

### End Caps

- Sheet metal steel end caps with laser cut features for precision alignment to housing
- Attach mechanically to the end of the fixture without exposed fasteners above ceiling
- Integrated sensor and battery end caps add 1.88" at each end

### Lengths

- Available in 2-ft, 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 9 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

- Recessed lay-in T-grid or visible flange gypsum installations with 1/2" flange or 1" mud-in flange available
- Fixtures can be joined for straight continuous runs using rigid alignment features

### Shielding

- **BB**(Black) and **WB**(White): Injection molded, contoured, segmented baffles with for low UGR values and improved visual comfort

### Optics

- Precision engineered TIR optics on upper and lower LED light engines for optimal light distribution and low glare
- 110° peak candela angle in indirect distribution
- 80° beam angle direct distribution with 45° cutoff

### LED and Light Engine

- LEDs are available in 3000K, 3500K, 4000K
- CRI standard  $\geq 90$ CRI
- Lumen output will be affected - please refer to the lumen adjustment factor tables
- TM21 life at 60,000 hours up to L85 and calculated theoretical L70 exceeds 135,000 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)
- See table on page 8 for battery integration details

- 90-minute backup period for code compliance
- Test switch is located either in the endcap, or tile mount ceiling plate
- 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

- 2.6 lbs. per foot

### Compliance

- cULus listed for damp locations
- Tested to IESNA LM-79 and LM-80
- RoHS compliant
- Can be used for State of California Title 24 high efficacy luminaire
- Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions
- L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

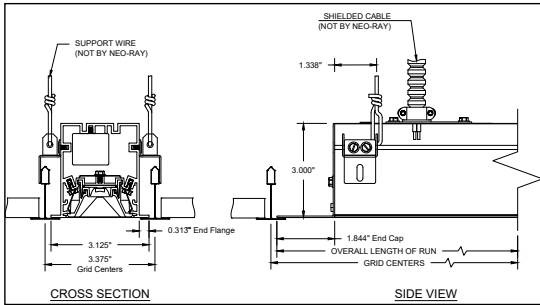
### Warranty

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

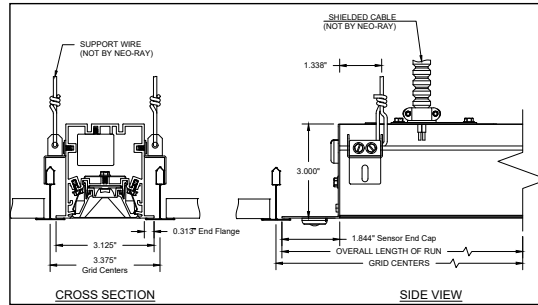
Ceiling Type

Extruded Trim Flange Details - Refer to submittal drawings for detailed flange information - for additional options consult factory.

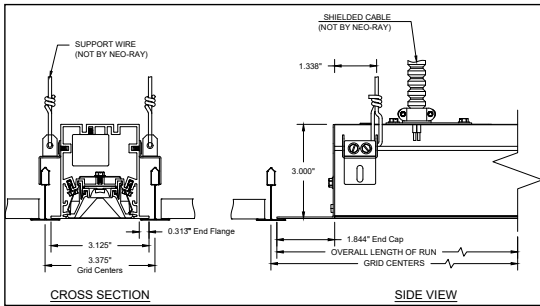
15/16 Tee (T1)



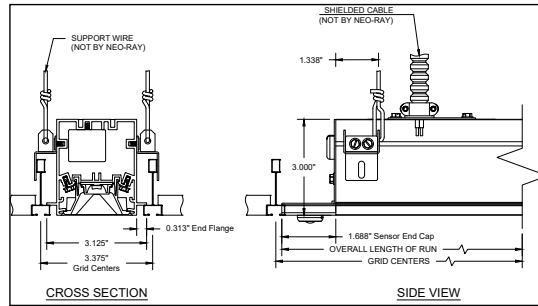
15/16 Tee (T1 w/ Sensor)



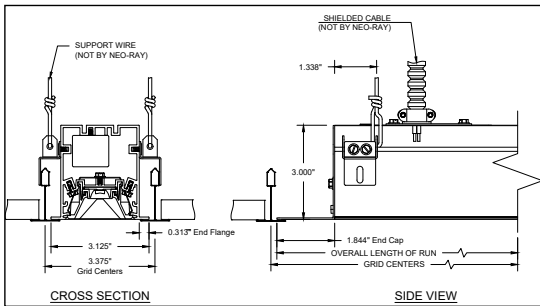
9/16 Tee (T2)



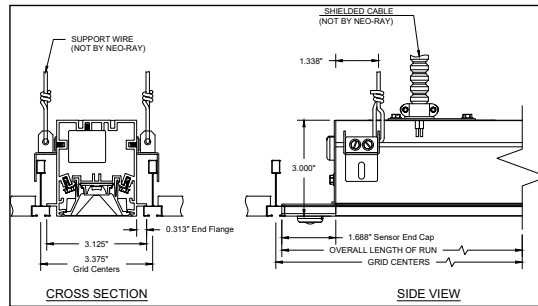
9/16 Tee (T2 w/ Sensor)



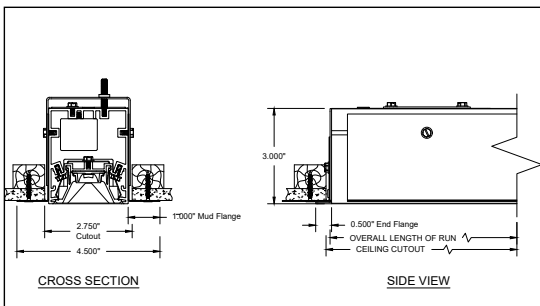
(FG)



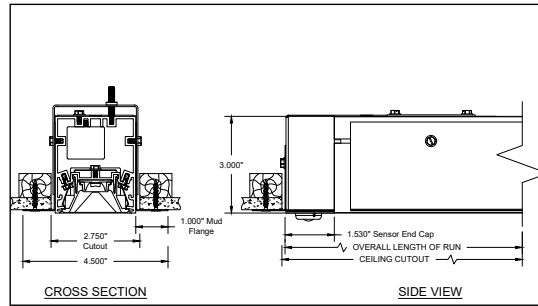
(FG w/ Sensor)



(MD)



(MD w/ Sensor)



FG/MD Length

Nominal fixture length	Extruded housing length	Standard fixture enclosure length	Standard fixture flange length	Ceiling cut length	Ceiling cut width	Adder for 1 sensor or batt endcap
2	24.000	24.375	25.000	24.500	2.750	1.375
4	48.000	48.375	49.000	48.500	2.750	1.375
6	72.000	72.375	73.000	72.500	2.750	1.375
8	96.000	96.375	97.000	96.500	2.750	1.375

Note: - Actual dimensions and cutout length varies from Nominal Length as shown in the FG/MD Length Table.

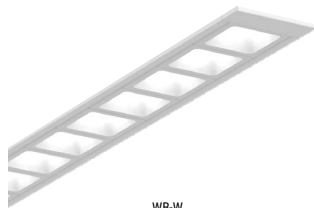
Discrete Optical System



Baffle & Finish Options



BB-B  
Black Baffle  
Black Fixture Finish



WB-W  
White Baffle  
White Fixture Finish



BB-W  
Black Baffle  
White Fixture Finish



WB-B  
White Baffle  
Black Fixture Finish



BB-S  
Black Baffle  
Silver Fixture Finish

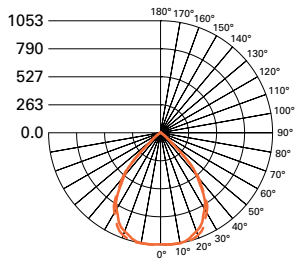


WB-S  
White Baffle  
Silver Fixture Finish

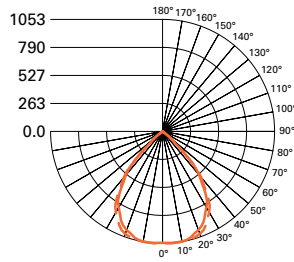
Note: All Finish and Baffle combinations are available. Not all are shown. Custom color housing finishes are also available.

Photometric Data

[View IES files](#)



**FILE NAME:**  
DL2-BB-M-OU-075D-935-UNV-STD-W-4.ies  
**CCT/CRI:** 3500K / 90 CRI  
**LUMENS:** 2988 Lm  
**WATTS:** 27.6 W  
**EFFICACY:** 108 Lm/W  
**TEST NO.:** P559652  
0% UP /100% DOWN  
0° (H) -----  
90° (L) -----

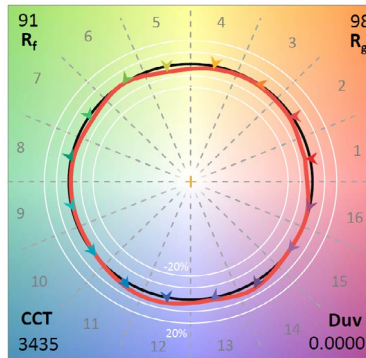


**FILE NAME:**  
DL2-WB-M-OU-075D-935-UNV-STD-W-4.ies  
**CCT/CRI:** 3500K / 90 CRI  
**LUMENS:** 3263 Lm  
**WATTS:** 27.6 W  
**EFFICACY:** 118 Lm/W  
**TEST NO.:** P559736  
0% UP /100% DOWN  
0° (H) -----  
90° (L) -----

Note: Refer to IES files for more product data.

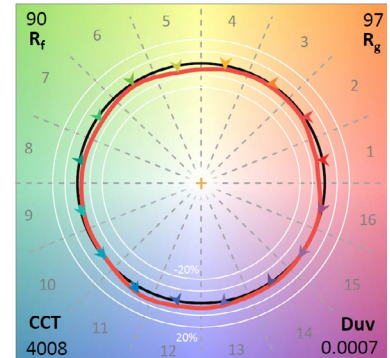
Color Data (3500K)

		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>	68.1



Luminance Data

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - Black Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	8851	13345	18250	22995
55	1012	1575	2025	2559
65	0	0	0	38
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	10220	15010	20554	25071
55	1912	2897	3797	4809
65	802	1221	1641	2023
75	748	1184	1558	1932
85	740	1110	1296	1666

Note: Refer to IES files for more product data.

Nominal 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.

Energy and Performance Data - Black Baffle

Discreet Recessed Performance (3500K)				Glare
Lumen Package	Lumens/ft Down	W/ft Total	Lm/W	UGR (1-2)(4-6)
050D	502	4.5	111	2
075D	748	6.9	108	3.4
100D	999	9.5	105	4.4
125D	1250	12.5	100	5.1



Energy and Performance Data - White Baffle

Discreet Recessed Performance (3500K)				Glare
Lumen Package	Lumens/ft Down	W/ft Total	Lm/W	UGR (1-2)(4-6)
050D	549	4.5	121	9.6
075D	816	6.9	118	11.1
100D	1091	9.5	115	12
125D	1363	12.5	109	12.8



KEY:

	Meets WELL v2
TEXT	Meets LEED v4.1

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 and most accurate data please see the IES files in the photometric section on website or click link at top-right

Lumen Adjustment & Melanopic Ratios

	3000K	3500K	4000K
<b>CRI</b>	<b>90+</b>	<b>90+</b>	<b>90+</b>
<b>Lumen Multiplier</b>	0.962	1.000	1.058
<b>Melanopic Ratio</b>		0.645	0.75

Lumen Adjustment Example Calculation:

075D / 3500K / 90 CRI

Lumen Output selected = 748 lms/ft

4000K / 90 CRI Desired

Lumen Adjustment Factor = 1.058

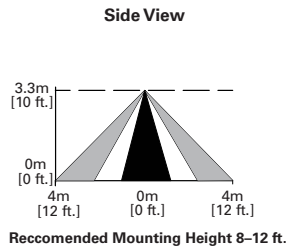
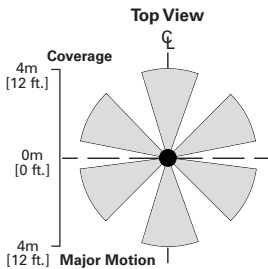
Adjusted Lumen Output = 748 lms/ft x 1.058 = 791 lms/ft

**Control Systems**

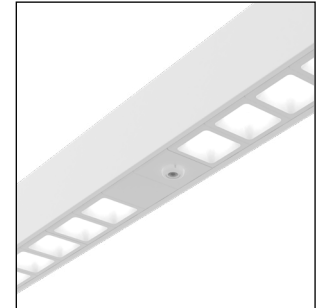
- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune



The Discreet with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Discreet 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 delivers potential 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](#).



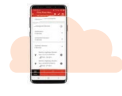
Discreet Recessed with Integrated Sensor - Endcap



Discreet Recessed with Integrated Sensor - Center Mount



**Standalone**



**Controlled**  
WaveLinx Lite



**Connected**  
WaveLinx Wireless



**Enterprise**  
Trellix

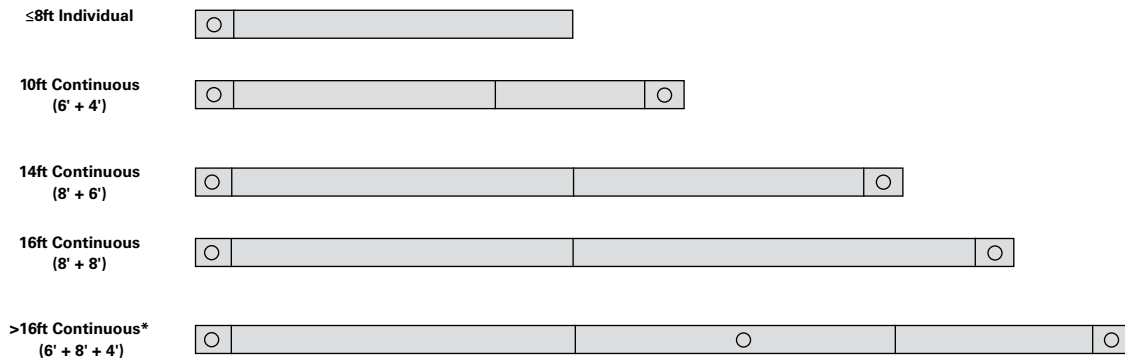
<b>Occupancy</b>	Yes	Yes	Yes	Yes
<b>Daylighting</b>	Yes	Yes	Yes	Yes
<b>Gateways</b>	-	-	1 WAC	300 WACs
<b>Devices</b>	-	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
<b>Software</b>	-	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
<b>Areas</b>	-	28 per Site	16 per WAC	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

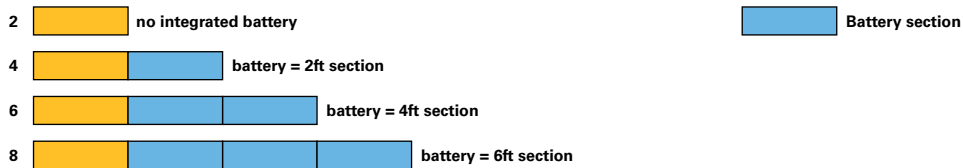


○ Standard Sensor with Luminaire Control

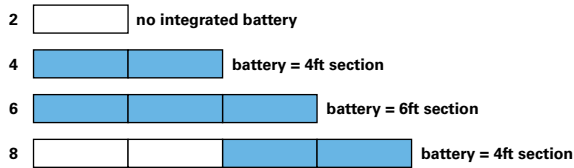
Note: \*See Standard Row Configuration table on Page 4.  
8' sensor spacing for continuous runs using 8' max units.  
4' and 6' units at the ends of runs will utilize sensor end caps.

Battery Integration

IND/BOR



MID/EOR



MID/EOR (with in-line sensor)



**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**

Grid Fixture	'STD' 0-10V, UNV Qty of Drivers				'5LT' DALI / 'SR' Qty of Drivers				'L5' / 'LH' Lutron Qty of Drivers				'STD' 0-10V, 347V Qty of Drivers			
	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'
Lumen Package	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'
050D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
075D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
100D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
125D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Non-Grid Fixture	'STD' 0-10V, UNV Qty of Drivers				'5LT' DALI / 'SR' Qty of Drivers				'L5' / 'LH' Lutron Qty of Drivers				'STD' 0-10V, 347V Qty of Drivers			
	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'
Lumen Package	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'	2'	4'	6'	8'
050D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
075D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
125D	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2