

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Metalux

## RBG

Edge Lit 4" Aperture, 6" Width lines of light  
2', 4', 8' Lengths

### Typical Applications

Office • Classroom • Restroom • Corridor • Retail

### Interactive Menu

- Order Information [page 2](#)
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- Control Solutions [page 7](#)
- Product Warranty

### Product Certification



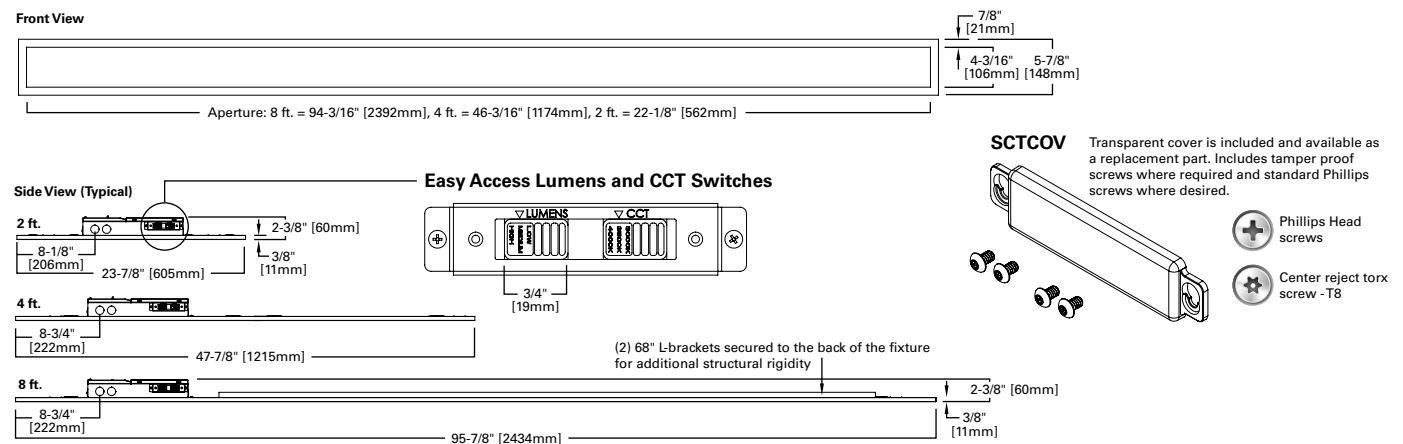
### Product Features



### Top Product Features

- Minimal fixture depth ideal for shallow plenum
- Simple switch to adjust lumens and CCT on site as desired
- Tamper proof cover enables DLC rebates at all wattage levels
- 2', 4', and 8' sizes available
- Continuous row flex accessory enables continuous runs with a single feed point

### Dimensions



[additional product diagrams](#)

## Stock Products

(All stock products feature lumen select (500, 750 or 1000 lumens per foot) and CCT select (3000K, 3500K or 4000K), and 10% - 100% 0-10V dimming)

Catalog Number	UPC	Description
2RBG6-SL1-L8SCT3	080083865826	4 3/16" Aperture Slot, 6" grid spacing, 2' length, lumen and CCT selectable, 10% - 100% 0-10V dimming
4RBG6-SL1-L8SCT3	080083866465	4 3/16" Aperture Slot, 6" grid spacing, 4' length, lumen and CCT selectable, 10% - 100% 0-10V dimming
8RBG6-SL1-L8SCT3	080083866502	4 3/16" Aperture Slot, 6" grid spacing, 8' length, lumen and CCT selectable, 10% - 100% 0-10V dimming

## Order Information

Some combinations are limited. Reference the online Product Configurator to confirm MTO (make-to-order) options.

SAMPLE ORDER NUMBER: 4RBG6-SL1-L8SCT3-SWPD1-U

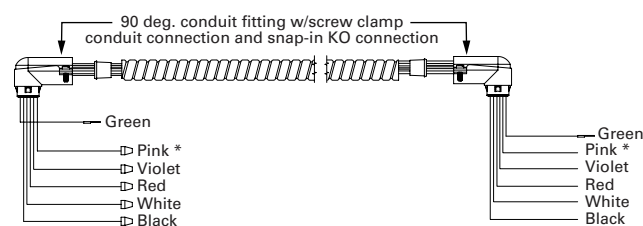
Rating	Series	Mounting	Lumen Output	Efficacy	Voltage	Emergency <sup>(5), (6)</sup>
[Blank]=Standard	2RBG6=2' Length, 6" Grid 4RBG6=4' Length, 6" Grid 8RBG6=8' Length, 6" Grid	[Blank]=Recessed or Surface/Suspension Mounting <sup>(1)</sup> RMK2=Regress Mount Kit, Installed <sup>(2)</sup>	SL1=Selectable Lumens 500, 750 and 1000 lumens per foot <sup>(2), (3)</sup> 50D=500 lms/ft. 75D=750 lms/ft. 100D=1000 lms/ft.	[Blank]=Standard	[Blank]=Universal Voltage 120-277 347V=347 Volt <sup>(4)</sup>	[Blank]=None EL7W=7-watt 120V-277V emergency battery pack <sup>(7)</sup> EL10W=10-watt 120V-277V emergency battery pack <sup>(7)</sup> EL14W=14-watt 120V-277V emergency battery pack <sup>(7)</sup> EL10WSD=10W emergency battery pack with self-diagnostic installed <sup>(7), (8)</sup> EL14WSD=14W emergency battery pack with self-diagnostic installed <sup>(7), (8)</sup> ETRD=Emergency Transfer Relay with dimming control
		<b>Notes</b> (1) With optional mount kit. (23) Factory installed regress mount kits only available in stock product SKUs.	<b>Notes</b> (2) Available with standard driver only. (3) Lumen selectable and CCT selectable only available together, with a standard 0-10V dimming (10%) driver.		<b>Notes</b> (4) Offered with UNV (Blank) and HCD drivers only.	<b>Notes</b> (5) In Emergency mode the fixture will default to 4000K regardless of the CCT setting. (6) Integrated Emergency is not available on the 2 foot length option, or with any alternate driver options. (7) Factory installed with integral test switch/indicator/laser test. 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 7=700 lumens). IES-format photometry for luminaire under emergency operation available. Battery option increases total height by 1 inch. (8) EL10WSD and EL14WSD not available with 347V.

CCT	Factory Wiring	Driver Type	Integrated Sensing Systems <sup>(15)</sup>	Packaging
L8SCT3=80CRI, Selectable CCT 3000K, 3500K, 4000K <sup>(9)</sup> L830=80 CRI, 3000K L835=80 CRI, 3500K L840=80 CRI, 4000K	90-A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads 90-A3/8-5/18GDIM=3/8" Flex with 0-10V Dimming Leads, with red wire for EM control	[Blank]=10% dimming with Lumen and CCT selection switches (10%-100%) HCD=0-10V Driver (1%-100% Dimming) <sup>(10)</sup> SR=Sensor-ready Driver (1%-100% Dimming) <sup>(11)</sup> 5LTD=DALI Driver (5%-100% Dimming) <sup>(11), (12)</sup> 5LTHD=DALI Driver (1%-100% Dimming) <sup>(13)</sup> SD=Step Dimming Driver (50% or 100% Dimming) <sup>(14)</sup> LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming <sup>(7)</sup>	[Blank]=No Sensor WLS (formerly WAB)=WaveLinX LITE Wireless Sensor, Occupancy w/ photocell, Independent & Networked <sup>(17), (8)</sup> WPS (formerly WAA)=WaveLinX PRO Wireless Sensor, Occupancy w/ photocell, Networked <sup>(16), (A)</sup> WLN=WaveLinX LITE Wireless Control Node, without sensor <sup>(17), (8)</sup> WPN=WaveLinX PRO Wireless Control Node, without sensor <sup>(18), (A)</sup>	[Blank]=Unit Pack
<b>Notes</b> (9) Lumen selectable and CCT selectable only available together, with a standard 0-10V dimming (10%) driver.	<b>Flexible Metal Conduit Options</b> Most common options listed. Multiple flex options are available for use in 0-10V dimming control, DALI dimming control and/or emergency. Use online configurator to specify other options. This option is factory-installed and pre-wired to driver, fitted to luminaire junction box with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. Also available as an accessory for field installation for row mounting with 14Ga. wires. See notes in accessories section.  <b>Notes:</b> Factory installed dimming option 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires.	<b>Notes</b> (10) 2' unit only at 1000 lms/ft. (11) Not available on the 2' version. (12) 347V 1% dimming not available at 750 or 1000 lm/ft for the 8' version. (13) 1% DALI driver not available at 1000 lm/ft for 8' version. (14) Step dimming (SD) not available in 2' version and limited to 750 and 1000 lm/ft settings on the 4' version. (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com	<b>Notes</b> (15) Sensor and Nodes available with the 4' and 8' versions. (16) WPS sensor and WPN node to be used with CD or HCD driver. (17) WLS sensor and WLN node to be used with CD or HCD driver. (18) WPN/WLN node not available with SL1-L8SCT3.  (A) Consult WaveLinX PRO system pages for additional details and compatibility. (B) Consult WaveLinX LITE system pages for additional details and compatibility.	

### Flex Assembly (Conduit)

3/8" metal conduit with snap-in 90 degree fitting used for continuous runs from one electrical feed. See notes in accessories for more details.

Catalog	UPC	Description
90-5-14GDIM-6	080083909766	90 Degree connector, 5 wire with EM and Dimming, 6' length
90-5-14GDIM-9	080083909780	90 Degree connector, 5 wire with EM and Dimming, 9' length



\* Constructions built before Jan 2022 may have gray wire for 0-10 dimming control present. In these cases, the installer will label the gray building wire as a 0-10 dimming wire and connect to our product's pink 0-10V dimming control wire. Reference NFPA70 (2020 NEC), section 410.69.

## Product Specifications

### Construction

- Ideal for use in shallow plenum or low ceiling spaces
  - under 2-3/8" with room to spare in tight spaces
- Aluminum extruded frame, precision welded and ground for a seamless appearance
- Architectural matte white powder coat paint
- Steel back plate, attached to the frame with multiple screws to ensure a tight fit
- Integral grid clips
- Junction / wiring box incorporates 8 qty. 7/8" KO's (2 on the top, 2 each on 3 sides of the box) for quick and easy electrical entry from a variety of directions
- Factory or field installed flexible conduit with dimming leads options available.

### Integrated Controls

- Standard with 0-10V dimming driver (10% standard, 1% optional)
- Integrated WaveLinX options provide wireless individual fixture control and enable code compliance, increased energy savings, grouping of fixtures, and connection to WaveLinX control systems
- DALI 2.0, Lutron, and step-dimming available

### LED and Light Engine

- Stock driver enables selectable lumens and color
  - approximately 500, 750 or 1000 lumens per foot AND 3000K, 3500K or 4000K CCT with easy access selector switch
- UNV 120 - 277V driver with 0-10V dimming to 10% standard
- 347V version available
- 48V - Low Voltage version available
- DALI 2.0, 1% dimming, Lutron and Step dimming versions available in fixed lumens and fixed colors in 3000K, 3500K or 4000K.

### Emergency Battery Options

- 120V-277V integral emergency battery pack comes in 7-watts, 10-watt, or 14-watts
- Self-diagnostic emergency battery available in 10 or 14-watts (NFPA 101® Life Safety Code®)
- Constant power to the LED system for controlled, predictable discharge
- Integrated test switch/indicator light visible from floor
- Min. 90-minute backup period for code compliance
- Integral emergency transfer relay available for generator equipped power systems

### Compliance

- cULus listed for 25C ambient environments
- IC rated for direct insulation contact
- RoHS compliant
- Damp location listed standard
- IP40 - ingress protection
- IESNA LM-79 and LM-80 compliant
- NEMA 410 compliant
- DesignLights Consortium qualified and classified for DLC Standard
- Can be used for State of California Title 24 high efficacy luminaire

### Limited Warranty

- Five year limited warranty standard
- Ten year limited warranty available

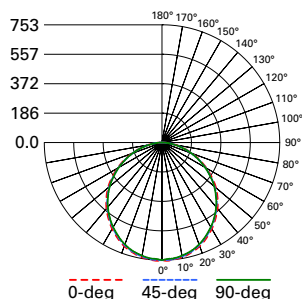
### Optical System

- Acrylic light guide with embossed optical control features optimizes light extraction
- Scratch and impact resistant diffuser provides uniformity and reduced glare at the aperture

## Photometric Data

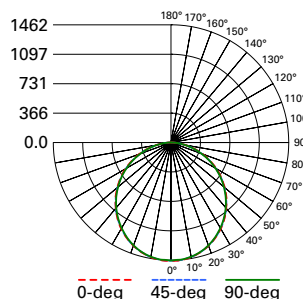
**Note:** The suffix "-HI", "-LO", "-MID" represents the lumen selector switch setting. This is not part of the catalog number.

 View IES files



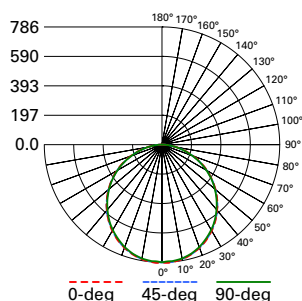
### 2RBG6-SL1-L8SCT3-3500K-HI

Electronic Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.26 x mounting height, (⊥) 1.24 x mounting height  
Lumens: 2090  
Input Watts: 19.4W  
Efficacy: 107.7 LPW  
Test Report: 2RBG6-SL1-L8SCT3-3500K-HI.IES



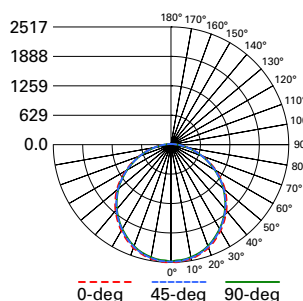
### 4RBG6-SL1-L8SCT3-3500K-HI

Electronic Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.25 x mounting height, (⊥) 1.24 x mounting height  
Lumens: 4174  
Input Watts: 36.1W  
Efficacy: 115.6 LPW  
Test Report: 4RBG6-SL1-L8SCT3-3500K-HI.IES



### 4RBG6-SL1-L8SCT3-3500K-LO

Electronic Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.25 x mounting height, (⊥) 1.24 x mounting height  
Lumens: 2241  
Input Watts: 18.3W  
Efficacy: 122.5 LPW  
Test Report: 4RBG6-SL1-L8SCT3-3500K-LO.IES



### 8RBG6-SL1-L8SCT3-3500K-MID

Electronic Driver  
Linear LED 3500K  
Spacing criterion: (II) 1.26 x mounting height, (⊥) 1.24 x mounting height  
Lumens: 7052  
Input Watts: 62.1W  
Efficacy: 113.5 LPW  
Test Report: 8RBG6-SL1-L8SCT3-3500K-MID.IES

## Energy and Performance Data by Catalog Number

Catalog No.                      UPC		Lumen Output					Wattage			Efficacy		
		Size	CCT	Lumen Setting			Lumen Setting			Lumen Setting		
				Low	Medium	High	Low	Medium	High	Low	Medium	High
2RBG6-SL1-L8SCT3	080083865826	2FT	3000	1176	1722	2031	10.9	16.1	19.4	107.9	107	104.7
			3500	1207	1763	2090	10.8	16.1	19.4	111.8	109.5	107.7
			4000	1223	1790	2107	10.8	16	19.4	113.2	111.9	108.6
4RBG6-SL1-L8SCT3	080083866465	4FT	3000	2203	3258	4100	18.3	27.6	36.1	120.4	118	113.6
			3500	2241	3315	4147	18.3	27.7	36.1	122.5	119.7	114.9
			4000	2262	3339	4195	18.2	27.5	35.9	124.3	121.4	116.9
8RBG6-SL1-L8SCT3	080083866502	8FT	3000	4704	6888	8124	41.7	62.1	74.8	112.8	110.9	108.7
			3500	4828	7052	8360	41.4	62.1	74.8	116.6	113.5	111.8
			4000	4892	7160	8428	41.4	62.1	74.8	118.1	115.3	112.7

**Note:** DLC listings are separate for each wattage selection.

## Lumen Maintenance

Size		Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	Theoretical L70 (hours) <sup>(2)</sup>
2'	4'	25°C	90%	200,000
8'		25°C	89%	175,000

**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.

## Load Data (Stock UNV Products)

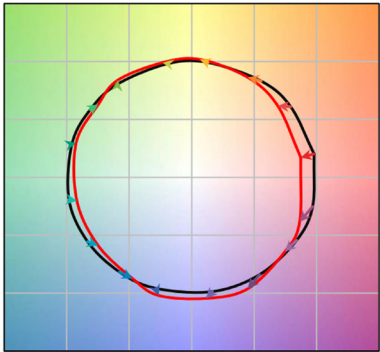
	2'	4'	8'
Thd	< 20%		
Power Factor	> .9		
Weight (lbs.)	3.8	6.6	15
Low Temp. Start	-20°C		

## Shipping Data (Stock UNV products)

Size	Pallet Size	Wt.	Units per Pallet
2'	54" x 48"	4.6 lbs.	140
4'	54" x 48"	6.7 lbs.	75
8'	100" x 48"	13.7 lbs.	65

TM-30 DATA FOR 80 CRI, SELECTABLE CCT  
(3000K SETTING)

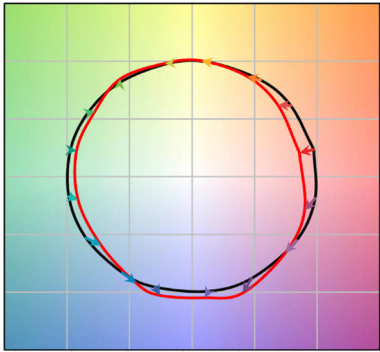
ANSI/IES TM-30-18 Color Rendition Report



Reference Illuminant      Test Source

TM-30 DATA FOR 80 CRI, SELECTABLE CCT  
(3500K SETTING)

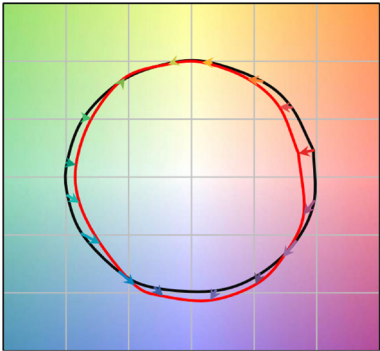
ANSI/IES TM-30-18 Color Rendition Report



Reference Illuminant      Test Source

TM-30 DATA FOR 80 CRI, SELECTABLE CCT  
(4000K SETTING)

ANSI/IES TM-30-18 Color Rendition Report

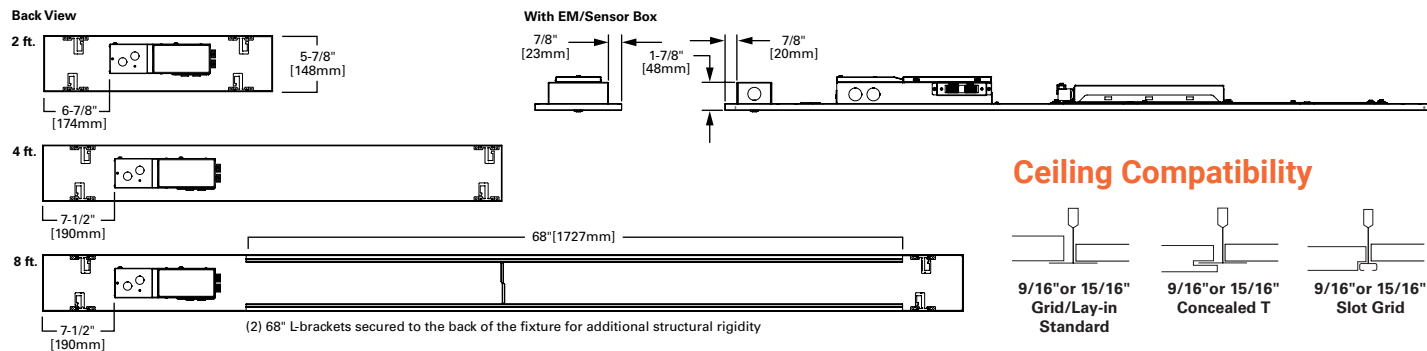


Reference Illuminant      Test Source

TM-30 data is extrapolated from LM-79 integrating sphere tests.  
Contact factory for specific TM-30 data.

CRI	CCT	CRI	R <sub>f</sub>	R <sub>g</sub>	R <sub>9</sub>
80	3000K	83	84	96.1	7
	3500K	83	83	95	8.5
	4000K	82	81	94	5.8

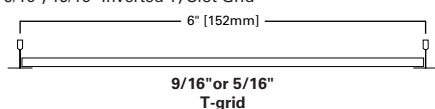
## Back Details



## Mounting Choices

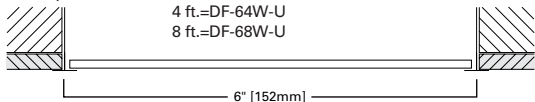
## Grid

9/16", 15/16" Inverted T, Slot Grid



## Hard Ceiling Recessed

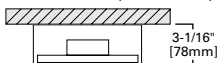
Use drywall frame kit: 2 ft.=DF-62W-U  
4 ft.=DF-64W-U  
8 ft.=DF-68W-U



See accessory section for ordering information

## Surface/Suspension

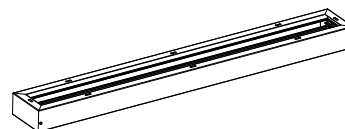
Use 2RBSURF6, 4RBSURF6, 8RBSURF6



(Surface mount box may be suspended. One CCA-48-PFSDIM-U and one CCA-48-NPF-U are recommended for 2 point suspension up to 48 inches. Other lengths are available. See website for details.

## Surface/Suspension Mount Box Detail

Length	Catalog	UPC	Distance between slots on the long rail (center-to-center)	Distance between slots on the short rails (center-to-center)	Slot quantity on the long rail	Slots size
2 ft.	2RBSURF6	080083873937	16" [406mm]	22-13/16" [579mm]	2	1/4" [6mm] x 13/16" [20mm]
4 ft.	4RBSURF6	080083873951	16" [406mm]	46-13/16" [1189mm]	3	1/4" [6mm] x 13/16" [20mm]
8 ft.	8RBSURF6	080083873982	16" [406mm]	94-13/16" [2408mm]	6	1/4" [6mm] x 13/16" [20mm]

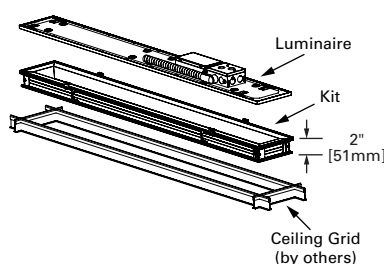


## Regress Mount Kit

Catalog No.	Description	UPC
RMK2-62-W	2' Regress Mount Kit	080083288045
RMK2-64-W	4' Regress Mount Kit	080083288069
RMK2-68-W	8' Regress Mount Kit	080083288083

**Note:** Regress Mount Kit can be assembled and installed on all stock products.

## Regress Linear Field Assembly



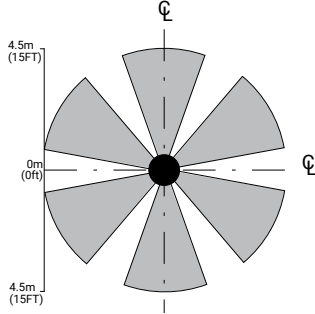
## Control Solutions

- WaveLinX LITE wireless
- WaveLinX PRO wireless
- WaveLinX CAT wired
- WaveLinX Wired

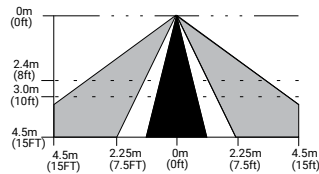


### Integrated Sensor Coverage Pattern

TOP VIEW:



SIDE VIEW:



**Note:** Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

The RBG with WaveLinX offers no-hassle lighting control with multiple luminaire level control solutions.

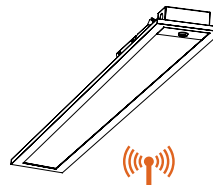


**WaveLinX PRO** is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinX PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinX CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinX PRO offers a rich portfolio of wireless devices, WaveLinX PRO-enabled luminaires, and an intuitive WaveLinX mobile app for office, education, warehouse, and parking garage applications.

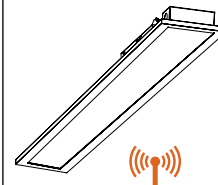


**WaveLinX LITE** is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

With Integrated WaveLinX Sensor



With Integrated WaveLinX Node



Add a hidden WaveLinX sensor node (WPN, WLN) to your space lighting design!

Allows to:

- Keeps luminaire aesthetics
- Connect fixtures without the realstate to include sensor option such as downlights
- Connect sealed fixtures without a standard sensor option such as products for clinical space.

### Integrated Controls Options

Option	Out of the Box Functionality	Luminaire Level Lighting Control (LLC)	Automatic Dimming Photocell	Occupancy Sensing	CCT Control*
WLS	X	X	X	X	
WLN		X			
WPS		X	X	X	X
WPN		X			X

**Note:** \*WaveLinX utilizes scenes to allow users to change an area's fixtures Correlated Color Temperature (CCT) and intensity using a commissioned wireless wallstation scene controller. To enable CCT adjustments through WaveLinX, include WPS or WPN devices in addition to VividTune or BioUp technologies for integrated fixture control. WPS with CCT controls the intensity of the fixture; an additional, externally mounted control device is needed to control the CCT. See [RSP-P-010-347](#)

The WPN option is available with WLS or WPS sensors. Must be specified when ordered. Also note that WLS and WPS are also compatible with ESP-L-010-347 and ESP-P-010-347, respectively. Learn more about WaveLinX EM [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.



**Luminaire with standalone sensor**



**Standalone Spaces**  
WaveLinX LITE



**Standalone Spaces**  
WaveLinX CAT



**Networked Spaces**  
WaveLinX PRO



**Enterprise**  
WaveLinX CORE

	Luminaire with standalone sensor	Standalone Spaces WaveLinX LITE	Standalone Spaces WaveLinX CAT	Networked Spaces WaveLinX PRO	Enterprise WaveLinX CORE
<b>Occupancy</b>	Yes	Yes	Yes	Yes	Yes
<b>Daylighting</b>	Yes	Yes	Yes	Yes	Yes
<b>Wallstations</b>	–	Yes	Yes	Yes	Yes
<b>Gateways</b>	–	–	–	1 WAC	300 WACs
<b>Devices (MAX)</b>	–	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
<b>Software</b>	–	WaveLinX LITE Mobile App	WaveLinX CAT Mobile App	WaveLinX Mobile App	CORE
<b>Areas</b>	–	28 per Space	Unlimited	50 per WAC2	up to 3,000
<b>Zones</b>	–	16 per Area	16 per Area	16 per Area	up to 9,000
<b>Scheduling</b>	–	–	–	Local	Global
<b>VividTune™</b>	–	–	–	Yes	Yes
<b>Plug-Load Control</b>	–	Yes	Yes	Yes	Yes
<b>Low-Voltage Power</b>	–	–	Yes	Yes	Yes
<b>Integration</b>	–	–	–	–	BACnet, API
<b>Dashboards</b>	–	–	–	–	Energy, Occupancy
<b>Configuration</b>	–	Installer	Installer	Technician	Technician / IT