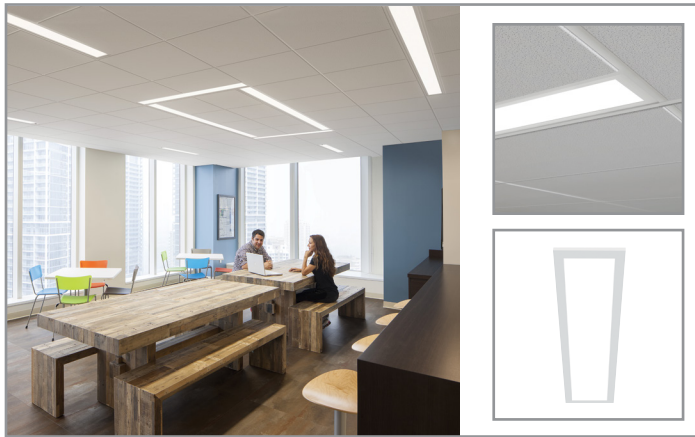


Project		Catalog #		Type	
Prepared by		Notes		Date	



# Metalux

## RBG

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

### Typical Applications

Office • Classroom • Restroom • Corridor • Retail

### Interactive Menu

- Order Information page 2
- Photometric Data page 3
- Control Solutions page 5
- Connected Systems page 5
- Product Warranty

### Product Certification



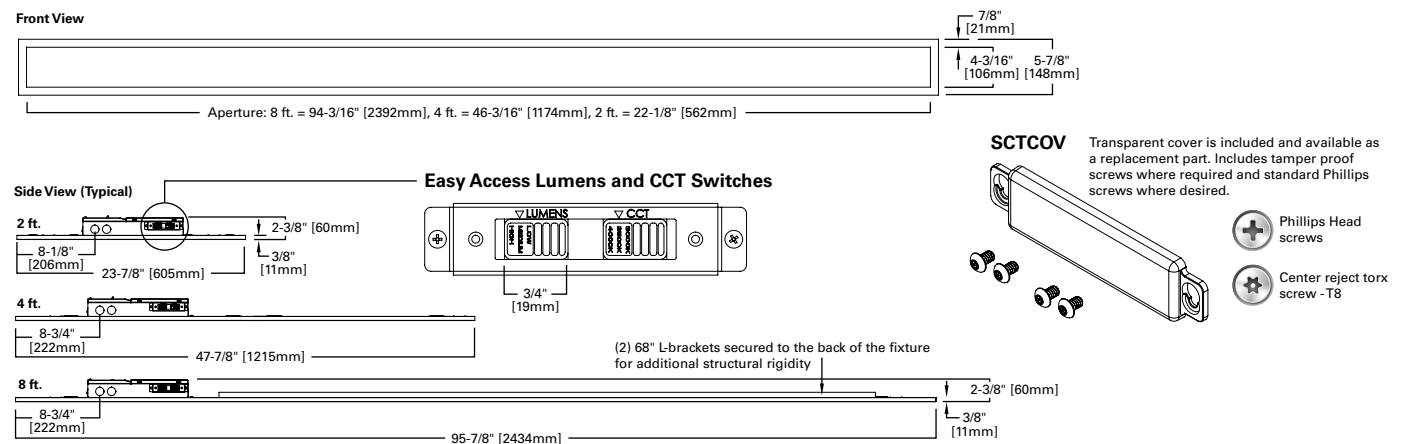
### Product Features



### 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>(6), (7)</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>	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> 48V=48 Volt Low-voltage (Class 2) <sup>(5), (6)</sup>	[Blank]=None EL7W=7-watt 120V-277V emergency battery pack <sup>(20)</sup> EL10W=10-watt 120V-277V emergency battery pack <sup>(20)</sup> EL14W=14-watt 120V-277V emergency battery pack <sup>(20)</sup> EL10WSD=10W emergency battery pack with self-diagnostic installed <sup>(20), (21)</sup> EL14WSD=14W emergency battery pack with self-diagnostic installed <sup>(20), (21)</sup> ETRD=Emergency Transfer Relay with dimming control
		<b>Notes</b> (1) With optional mount kit.	<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. (5) 2' unit only at 1000 lms/ft. (6) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.	<b>Notes</b> (6) In Emergency mode the fixture will default to 4000K regardless of the CCT setting. (7) Integrated Emergency is not available on the 2 foot length option, or with any alternate driver options. (20) 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. (21) EL10WSD and EL14WSD not available with 347V.

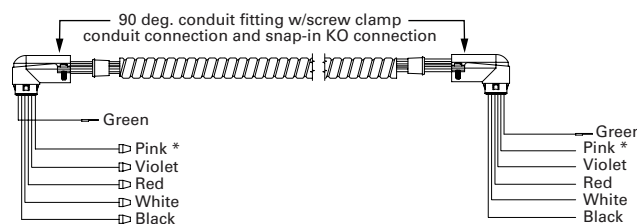
CCT	Factory Wiring	Driver Type	Integrated Sensing Systems <sup>(15)</sup>	Packaging
L8SCT3=80CRI, Selectable CCT 3000K, 3500K, 4000K <sup>(8)</sup> L830=80 CRI, 3000K L835=80 CRI, 3500K L840=80 CRI, 4000K	90-A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads 90-A3/8-5/18GDIM=3/8" Flex with 0-10V Dimming 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>(9)</sup> SR=Sensor-ready Driver (1%-100% Dimming) <sup>(10)</sup> SLTD=DALI Driver (5%-100% Dimming) <sup>(10), (11)</sup> SLTHD=DALI Driver (1%-100% Dimming) <sup>(12)</sup> LV=Low-voltage System Driver (0%-100% Dimming) <sup>(12)</sup> SD=Step Dimming Driver (50% or 100% Dimming) <sup>(13)</sup> LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming <sup>(1)</sup>	[Blank]=No Sensor WAA=WaveLinX PRO Wireless Integrated Sensor <sup>(16), (A)</sup> WPN=WaveLinX PRO Wireless Node without Sensor <sup>(16), (22), (A)</sup> WAB=WaveLinX LITE Wireless Integrated Sensor <sup>(17), (B)</sup> WLA=Low-voltage Integrated Sensor <sup>(18), (C)</sup>	[Blank]=Unit Pack
<b>Notes</b> (8) 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> (9) 2' unit only at 1000 lms/ft. (10) Not available on the 2' version. (11) 347V 1% dimming not available at 750 or 1000 lm/ft for the 8' version. (12) 1% DALI driver not available at 1000 lm/ft for 8' version. (13) Step dimming (SD) not available in 2' version and limited to 750 and 1000 lm/ft settings on the 4' version. (C) Consult WaveLinX Low-Voltage or DLVP 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) WAA sensor and WPN node to be used with CD or HCD driver. (17) WAB sensor to be used with CD driver. (18) WLA sensor to be used with LV driver. (22) WPN node not available with SL1-L8SCT3. (A) Consult WaveLinX PRO system pages for additional details and compatibility. (B) WaveLinX LITE devices are not currently compatible with the WaveLinX Wireless Area Controller. Consult WaveLinX LITE system pages for additional details and compatibility. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.	

Accessories
2RBSURF6=2' surface/suspension mount kit 4RBSURF6=4' surface/suspension mount kit 8RBSURF6=8' surface/suspension mount kit DF-62W-U=Drywall Flange Kit, 6" x 2" DF-64W-U=Drywall Flange Kit, 6" x 4" DF-68W-U=Drywall Flange Kit, 6" x 8" SCTCOV-PK=Selectable CCT and lumen switch, tamper-resistant replacement cover accessory. Kit is included with each product. 90-5-14GDIM-6=Five 14 gauge conductor conduit assembly 72" for use with 2' and 4' versions <sup>(19)</sup> 90-5-14GDIM-9=Five 14 gauge conductor conduit assembly 108" for use with 8' version <sup>(19)</sup> FPEQ=Earthquake clip kit for use where required
<b>Notes</b> (19) 14A Rated, max. units per feed @120V: 2=23, 4=17, 8=10; @277V: 2=66, 4=47, 8=26.

### 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	80083909766	90 Degree connector, 5 wire with EM and Dimming, 6' length
90-5-14GDIM-9	80083909780	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)
- WaveLinX wireless sensor compatible for standalone, controlled, connected, and IoT capability
- Low-voltage sensor and driver compatible for WaveLinX Low-Voltage and DLVP applications
- 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

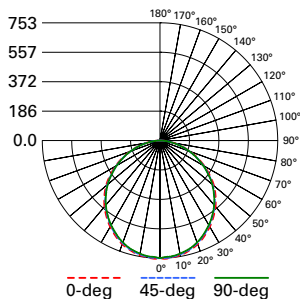
### Optical System

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

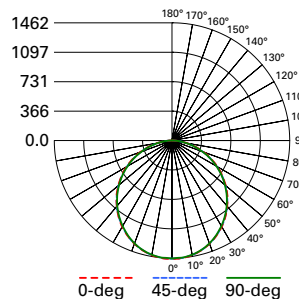
## Photometric Data

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

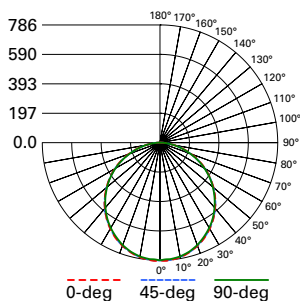
[View IES files](#)



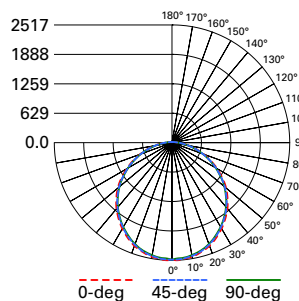
**2RBG6-SL1-L8SCT3-3500K-HI**  
 Electronic Driver  
 Linear LED 3500K  
 Spacing criterion: (II) 1.26 x mounting height, (⊥) 1.24 x mounting height  
 Lumens: 2090  
 Input Watts: 19.4W  
 Efficacy: 107.7 LPW  
 Test Report: 2RBG6-SL1-L8SCT3-3500K-HI.IES



**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	Size	Lumen Output			Wattage			Efficacy			
			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

## Control Systems

- WaveLinX PRO Wireless
- WaveLinX LITE Wireless
- WaveLinX Wired

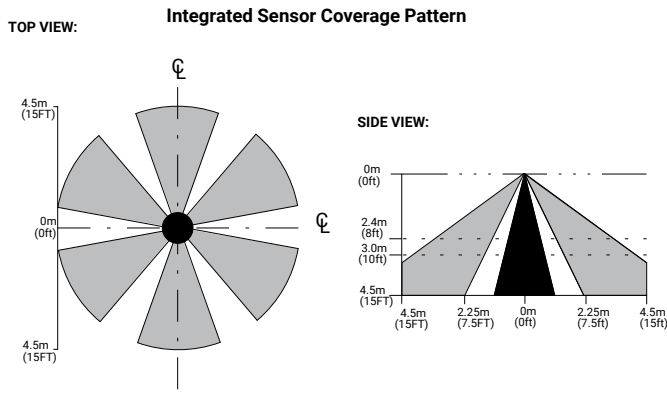
The RBG with WaveLinX offers no-hassle lighting control with multiple luminaire level control solutions.

**WaveLinX PRO** is used for applications where spaces need to be connected to a lighting or building management system and to help building owners improve their operations, building environment, and tenants' experience by leveraging the data generated by the sensors. The WaveLinX PRO devices communicate with each other via the WaveLinX Area Controller which coordinates the data traffic between the devices, lighting apps and CORE platform. The WaveLinX Area Controller also hosts the time clock required if spaces need to be turned on/off at a specific time.

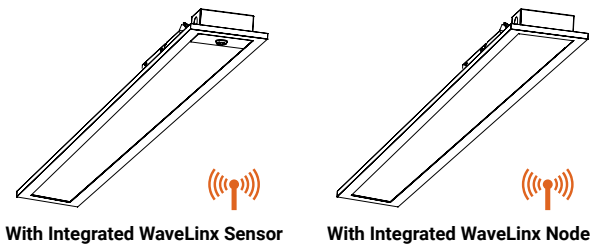
The WaveLinX PRO Sensor offers built-in occupancy and daylighting controls as well as luminaire level control including white tuning while the WaveLinX PRO Node offers luminaire level control and white tuning. If opting for the WaveLinX PRO Node option, a PRO Ceiling Sensor will most likely be needed within the space to control the lights based on occupancy and daylight levels.

**WaveLinX LITE** is used for single spaces where there is no need to manage the spaces remotely or exchange the sensor data with other sub-systems within the building or smart applications.

The WaveLinX LITE Sensor offers built-in occupancy and daylighting controls as well as luminaire level control.



**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.

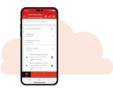


## Systems comparison chart

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**



**Networked Spaces WaveLinX PRO**



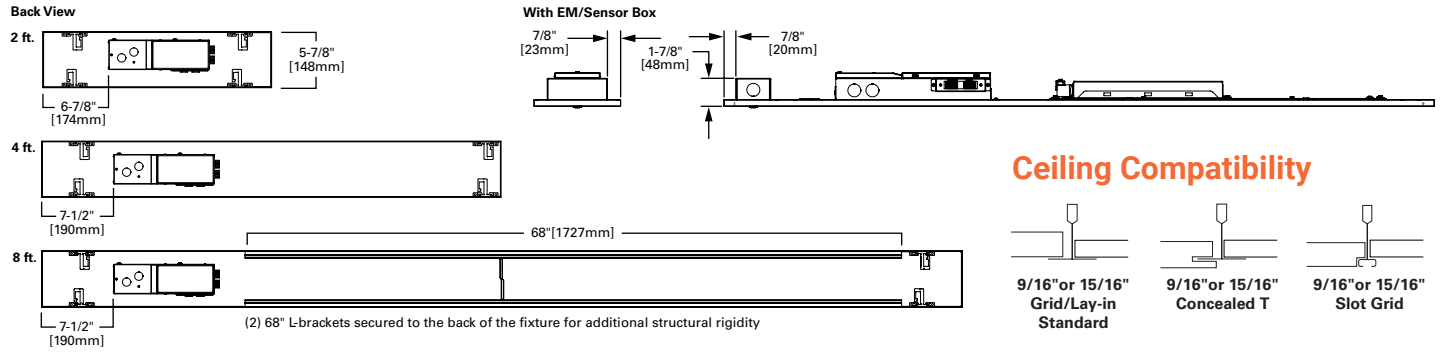
**Enterprise WaveLinX CORE**

	Luminaire with standalone sensor	Standalone Spaces WaveLinX LITE	Networked Spaces WaveLinX PRO	Enterprise WaveLinX CORE
<b>Occupancy</b>	Yes	Yes	Yes	Yes
<b>Daylighting</b>	Yes	Yes	Yes	Yes
<b>Wallstations</b>	-	Yes	Yes	Yes
<b>Gateways</b>	-	-	1 WAC	300 WACs
<b>Devices (MAX)</b>	-	50 per Area (1400 per site)	200 per WAC2	32,500 per CORE Enterprise
<b>Software</b>	-	WaveLinX LITE Mobile App	WaveLinX Mobile App	CORE
<b>Areas</b>	-	28 per Site	50 per WAC2	up to 3,000
<b>Zones</b>	-	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
<b>Low-Voltage Power</b>	-	-	Yes	Yes
<b>Integration</b>	-	-	-	BACnet, API
<b>Dashboards</b>	-	-	-	Energy, Occupancy
<b>Configuration</b>	-	Installer	Technician	Technician / IT

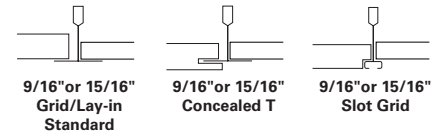
## SCALABILITY



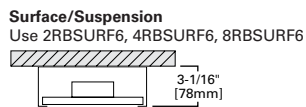
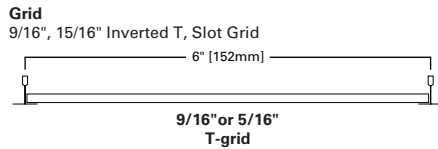
## Back Details



## Ceiling Compatibility



## Mounting Choices



(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]

