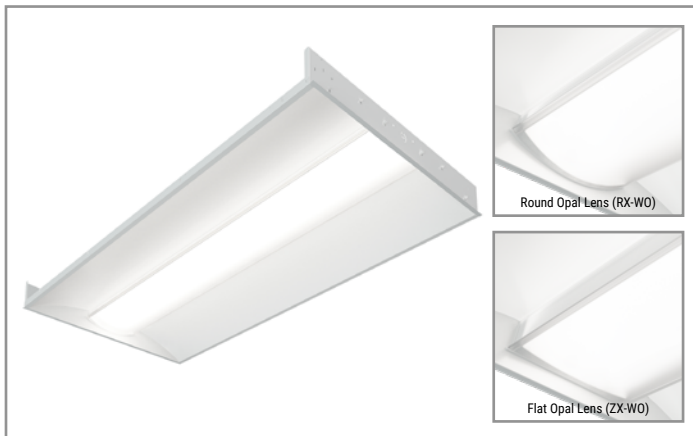


Project		Catalog #		Type	
Prepared by		Notes		Date	



Corelite

Class RX / ZX LED

2' x 4' Recessed
3-1/4" Depth

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 3](#)
- Energy and Performance Data [page 3](#)
- VividTune™ Color Tuning Solutions [page 5](#)
- Product Warranty

Product Certification



Product Features

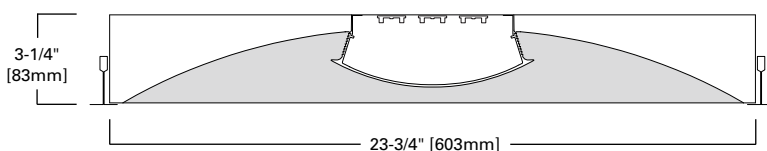


Top Product Features

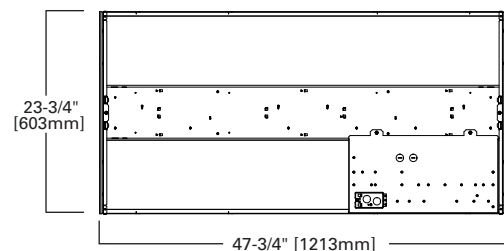
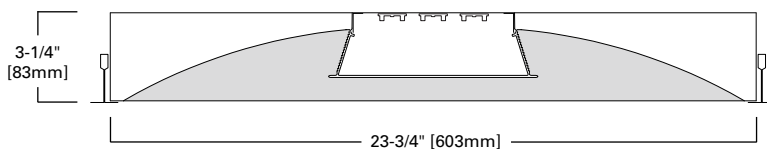
- Architectural quality design with Class R round (R) and flat (Z) lens variations
- Standard and High Performance lumen packages up to 143 lumens per watt
- Three CCT options: 3000K, 3500K and 4000K at 80+ or 90+ CRI
- VividTune CCT tuning options from 3000K–5000K or 2700K-6500K
- Integrated sensor systems - occupancy, daylight and IoT connectivity
- Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details

Class RX Round lens



Class ZX Flat lens



[additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: **RX-WO-50H835-UNV-24-T1-STD-SWPD1**

Domestic Preferences	Series	Shielding	Lumen Package		CRI	Color Temperature	Input Voltage
Domestic Preferences	Series	Shielding	Lumen Package (2x4 Nominal Values)		CRI	Color Temperature	Input Voltage
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	RX=Class RX LED Recessed, Round Lens ZX=Class ZX LED Recessed, Flat Lens	WO=Opal Smooth Lens	High Performance 30H=3000 Lumen, 22W 35H=3500 Lumen, 26W 40H=4000 Lumen, 29W 45H=4500 Lumen, 34W 50H=5000 Lumen, 36W 55H=5500 Lumen, 41W 60H=6000 Lumen, 42W 65H=6500 Lumen, 46W 70H=7000 Lumen, 50W 75H=7500 Lumen, 53W	Standard 30L=3000 Lumen, 22W 35L=3500 Lumen, 27W 40L=4000 Lumen, 31W 45L=4500 Lumen, 35W 50L=5000 Lumen, 39W 55L=5500 Lumen, 43W 60L=6000 Lumen, 44W 65L=6500 Lumen, 49W 70L=7000 Lumen, 51W 75L=7500 Lumen, 55W	8=80+ CRI 9=90+ CRI	30=3000K 35=3500K 40=4000K 3050=Tunable White 3000K-5000K 2765=Tunable White 2700K-6500K	UNV=Universal (120V-277V) 347=347V 48V=48V Low-voltage (Class 2)
Notes Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes	Notes	Notes Refer to performance table on Page 3 for more detail.		Notes White tuning provides correlated color temperatures (CCT) between 3000K (warm) to 5000K (cool) or 2700K (warm) to 6500K (cool). May be combined with Wavelinx (WAA) sensor control systems only. Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. Vivid Tune is not DLC Qualified.		Notes 347V versions are not available with emergency or sensor options.

Size	Ceiling Type	Driver Type	Integrated Sensing Systems	Emergency Options	Options
Size	Ceiling Type	Driver Type	Integrated Sensing Systems	Emergency Options	Options
24=2'x4'	T1=Grid/Lay-in (Flush), Concealed T, and Slot Grid T9T=9/16" Grid Tegular Trim	STD=Standard 0-10V (1%-100%) SR=Sensor-ready for LWIPD1 (1%-100%) SLT=Fifth Light DALI (5%-100%) LV1=Low-voltage dimming driver (0-100%) STP=Step Dimming (Bi-Level, 50%) LH=Lutron HiLume 1% EcoSystems (LDE1) L5=Lutron 5-Series 5% EcoSystems (LDE5) W2A=White Tuning, 2ch, 0-10V Intensity and CCT control	[Blank]=No Sensor WAA=WaveLinX Wireless Integrated Sensor (A) WAB=WaveLinX Lite Wireless Integrated Sensor (B) WLA=Low-voltage Integrated Sensor (C) SVPD1=0-10V Stand-alone Integrated Sensor (D)	[Blank]=No Emergency EL7W=7-watt 120V-277V Integral EM Battery EL14W=14-watt 120V-277V Integral EM Battery ETRD=lota Emergency Transfer Relay with dimming control	[Blank]=None AR=Air Return CP=Chicago Plenum W6=3/8" Flex Installed, A3/8-4/18GDIM
Notes EQ Grid Clips are recommended for all 9/16" ceiling systems. Four required per fixture. See Accessories for ordering details.	Notes Two drivers are required for the following packages: 75L 347 STD, 75H 347 STD. 5LTHD driver not available with 75H lumen package. Consult DLVP system pages for additional details and compatibility.	Notes Matching width lens endcap on other side of sensor endcap may be supplied for symmetrical appearance. Required for use with sensor and emergency combination. Add "D" to sensor ordering as shown - WAAD, WABD, SDVDPD1. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinX 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 DLVP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.	Notes Battery option increases total height by 1 inch. ETRD used to bypass local control during outage; must be used in conjunction with UL 1008 device (provided by others); must specify voltage as 120V or 277V when ordering. 347V not available.	Notes See specification features for flexible metal conduit details.	

Product Specifications

Construction

- 3-1/4" housing depth constructed of die-formed, code gauge cold rolled steel
- Full length die-formed stiffeners and unibody endplate for added strength
- Back reflector is 90% reflective matte white using electrostatically applied polyester powder coat paint for durability and luminous uniformity

Shielding

- Smooth opal acrylic lens with round (R) or flat (Z) profile
- Provides low-glare ambient illumination with evenly luminous side reflectors
- Lens secured to housing via injection molded ends for easy tool-free access

Mounting

- Endplates provided with Grid-Lock feature for safety
- Optional earthquake clips available
- Four auxiliary fixture end suspension points
- Consult local code for appropriate tie-wire recommendations
- See Accessories section for drywall frame kit and surface mount kit options

LED and Light Engine

- Standard version equipped with two light engines
- Available High Performance version provides optimal lens uniformity and increased luminous efficacy with increased light engine count

- LED's are available in 3000K, 3500K, 4000K
- Dynamic tunable white options available with Cooper Lighting Solutions' VividTune
- 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 L94 and calculated L70 exceeds 290,000 hrs
- Drivers available in 120-277V and 347V

Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinX wireless sensor compatible for standalone, controlled, connected, and IoT capability
- SVPD sensor compatible for standalone functionality
- Low-voltage sensor and driver compatible for DLVP applications
- DALI 2.0, Lutron, and step-dimming available
- Emergency Options
- Optional 120-277V emergency battery available in 7W or 14W
- 90-minute backup period for code compliance
- Test switch with laser pointer and testing from floor feature for ease of use
- EZ Key feature prevents accidental discharge during construction
- 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 14 = 1400 lumens)
- UL 924 emergency/generator transfer options available

Flexible Metal Conduit Options

- Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions
- 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector
- Default flex option is A3/8-4/18GDIM; 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires
- Not all options may be combined and installation rating vary by type

Weight

- 17.0 lbs.

Compliance

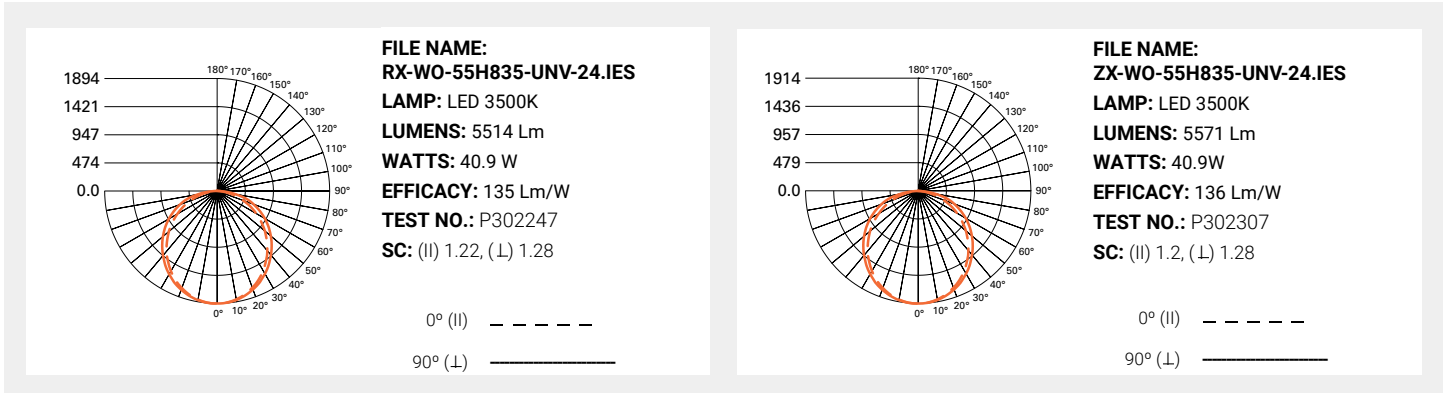
- IC rated for insulation contact
- cULus listed for damp locations
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

Warranty

- Five year warranty standard. Optional ten year warranty available.

Photometric Data

[View IES files](#)



Note: Refer to IES files for more product data.

Energy and Performance Data

High Performance 2x4 – RX Light Level Outputs (3500K, 80 CRI)					Standard 2x4 – RX Light Level Outputs (3500K, 80 CRI)				
Series	Lumen Package	Delivered Lumens	Wattage	Efficacy (LPW)	Series	Lumen Package	Delivered Lumens	Wattage	Efficacy (LPW)
RX-WO Round	30H	2855	21.6	132	RX-WO Round	30L	2857	22.3	128
	35H	3452	25.6	135		35L	3397	26.9	126
	40H	3908	29.2	134		40L	3821	30.6	125
	45H	4509	33.5	135		45L	4344	35.3	123
	50H	4966	36.3	137		50L	4761	38.6	123
	55H	5514	40.9	135		55L	5276	43.5	121
	60H	5815	41.5	140		60L	5699	44.1	129
	65H	6399	46.1	139		65L	6249	48.9	128
	70H	6892	49.9	138		70L	6654	51.0	130
	75H	7440	52.6	141		75L	7179	55.4	130
ZX-WO Flat	30H	2885	21.6	134	ZX-WO Flat	30L	2887	22.3	129
	35H	3488	25.6	136		35L	3433	26.9	128
	40H	3949	29.2	135		40L	3860	30.6	126
	45H	4556	33.5	136		45L	4390	35.3	124
	50H	5018	36.3	138		50L	4811	38.6	125
	55H	5571	40.9	136		55L	5331	43.5	123
	60H	5875	41.5	142		60L	5759	44.1	131
	65H	6466	46.1	140		65L	6314	48.9	129
	70H	6964	49.9	140		70L	6723	51.0	132
	75H	7518	52.6	143		75L	7254	55.4	131

Lumen Adjustment Factors

CCT	80 CRI	90 CRI
3000K	0.981	0.806
3500K	1.000	0.836
4000K	1.021	0.853

Example Calculation:

ZX / 55L / 3500K / 80 CRI

Lumen Output selected = 5331 lms

3500K / 90 CRI Desired

Lumen Adjustment Factor = 0.836

Adjusted Lumen Output = 5331 lms x 0.836 = 4490 lms

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>94%	290,000

Color Data (3500K)

		80CRI	90CRI
TM-30-15	R _f	82.4	90.8
	R _g	95.2	99.5
CRI/CIE	R _a	82.7	95.7
	R ₉	6.3	65.9

Shielding Options



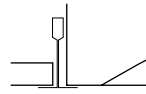
Round Opal Lens (RX-WO)



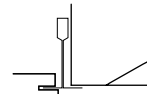
Flat Opal Lens (ZX-WO)

Ceiling Compatibility

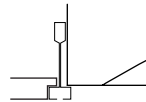
Grid/Lay-in Flush



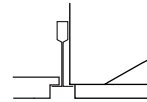
Concealed T



Slot Grid



9/16" Tegular*



*Requires T9T ceiling type option

Accessories (Ordered Separately)

CZ2-EQCLIP-U = T-BAR Safety Earthquake Clip Kit (4 clips per bag kit)

DF-24-W = 2' x 4' Drywall Frame Kit

SK-24-WS = 2' x 4' Field Install Surface Mount Kit, Shallow

Control Systems

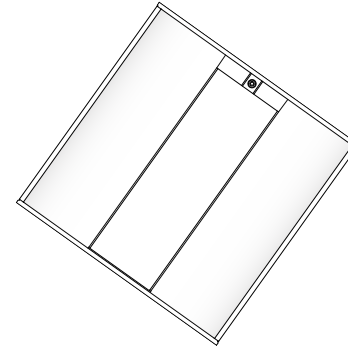
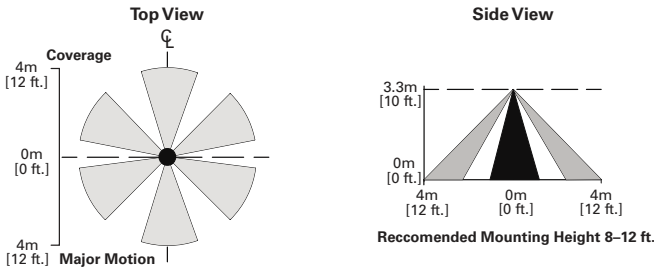
- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- DVL
- VividTune



The Class RX with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Class RX 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.



Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



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

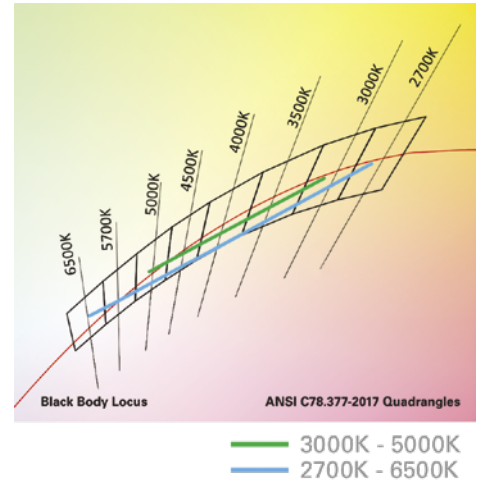
SCALABILITY





Class RX with VividTune Tunable White

VividTune tunable white luminaires from Cooper Lighting Solutions deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.



Energy and Performance Data

Tunable White - Lumen Adjustment Factors				
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.878	0.75
3000K	0.904	0.744	0.903	0.779
3500K	0.956	0.813	0.934	0.819
4000K	1.004	0.878	0.954	0.844
4500K	1.014	0.893	0.972	0.866
5000K	1.014	0.893	0.985	0.884
6500K	-	-	0.999	0.908

2'x 4' Class RX LED - Example of Approximate Lumen Calculation			
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
CCT Setting	RX-WO-55H835-UNV-24-STD	RX-WO-55H83050-UNV-24-W2A	RX-WO-55H93050-UNV-24-W2A
3000K	-	4985	4102
3500K	5514	5271	4483
4000K	-	5536	4841
4500K	-	5591	4924
5000K	-	5591	4924

Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V dimming input is used to adjust CCT.

Example of Lumen Adjustment Calculation

RX-WO-55H83050-UNV-STD-24 at 80 CRI tuned to 3500K

$$\text{Adjusted Lumen} = \text{published lm} \times \text{adjusted lm factor}$$

$$\text{Adjusted Lumen} = 5514 \times 0.956$$

$$\text{Adjusted Lumen} = 5271$$

* Lumen adjustment factors are for reference and may be different for each product selected. Refer to IES files for actual performance data on each.

