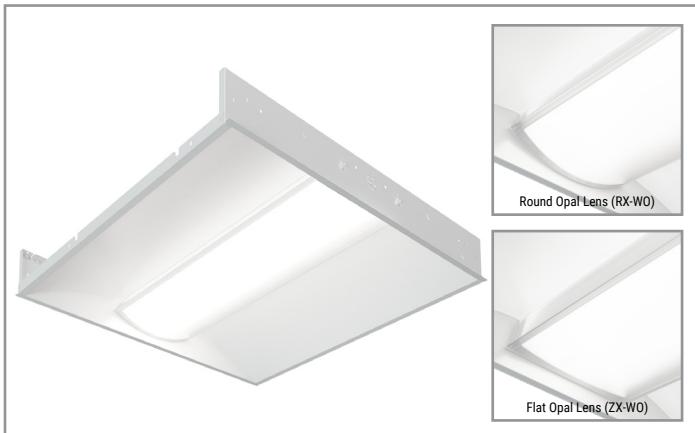


| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



Corelite

Class RX / ZX LED

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

Typical Applications

• Commercial Office Spaces • Schools • Hospitals • Retail Merchandising Areas

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 3](#)
- Energy and Performance Data [page 3](#)
- Control Systems [page 4](#)
- VividTune™ Color Tuning Solutions [page 5](#)
- Product Warranty

Product Certification



Product Features

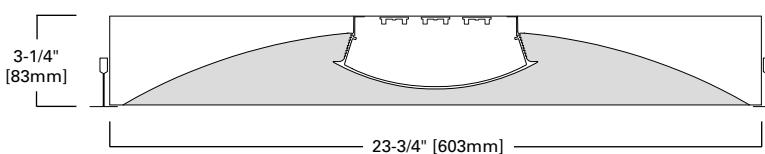


Top Product Features

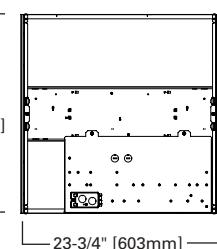
- Architectural quality design with Class R round (R) and flat (Z) lens variations
- Standard and High Performance lumen packages up to 132 lumens per watt
- Three CCT options: 3000K, 3500K and 4000K at 80+ or 90+ CRI
- VividTune CCT tuning options from 3000K-5000K or 2700K-6500K
- Integrated sensor systems - occupancy, daylight and IoT connectivity
- Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details

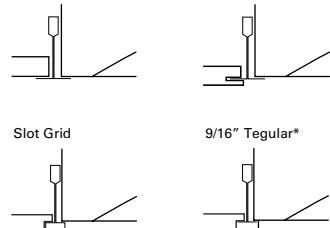
Class RX Round lens



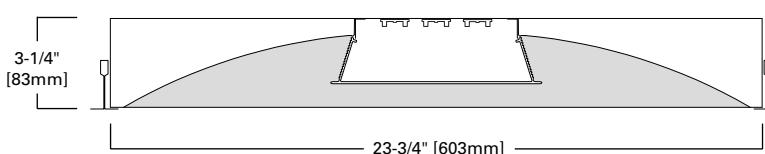
Grid/Lay-in Flush



Concealed T



Class ZX Flat lens



*Requires T9T ceiling type option

 [additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: RX-WO-34H835-UNV-22-T1-STD-SWPD1

| Domestic Preferences | Series | Shielding | Lumen Package | | CRI | Color Temperature | Input Voltage |
|---|---|------------------------|---|---|---|--|---|
| Domestic Preferences | Series | Shielding | Lumen Package (2x2 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 20H=2000 Lumen, 15W 24H=2400 Lumen, 18W 29H=2900 Lumen, 21W 34H=3400 Lumen, 25W 39H=3900 Lumen, 29W 44H=4400 Lumen, 33W | Standard 20L=2000 Lumen, 16W 24L=2400 Lumen, 19W 29L=2900 Lumen, 22W 34L=3400 Lumen, 26W 39L=3900 Lumen, 30W 44L=4400 Lumen, 35W | 8=80+ CRI 9=90+ CRI | 30=3000K 35=3500K 40=4000K 3050=Tunable White 3000K-5000K 2765=Tunable White 2700K-6500K | UN=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. | Notes |

| Size | Ceiling Type | Driver Type | Integrated Sensing Systems | Emergency Options | Options |
|--------------|---|---|---|---|--|
| Size | Ceiling Type | Driver Type | Integrated Sensing Systems | Emergency Options | Options |
| 22=2'x2' | T1=15/16" Grid/ Lay-in (Flush), Concealed T, and Slot Grid T9T=9/16" Grid Teugular Trim | STD=Standard 0-10V (1%-100%) SLT=DALI (1%-100%) LV1=Low-voltage dimming driver (0-100%) STP=Step Dimming (Bi-Level, 50%) LH=Lutron HiLume 1% EcoSystems (LDE1) 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) | =No Emergency EL7W=7-watt 120V-277V Integral EM Battery EL14W=14-watt 120V-277V Integral EM Battery ETRD=Iota Emergency Transfer Relay with dimming control | =None AR=Air Return CP=Chicago Plenum W6=3/8" Flex Installed, A3/8- 4/18GDIM |
| Notes | Notes EQ Grid Clips are recommended for all 9/16" ceiling systems. Four required per fixture. See Accessories for ordering details. | Notes LH driver option not available in 20H 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: WAA, WABD, SVPD1. 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

- 12.0 lbs.

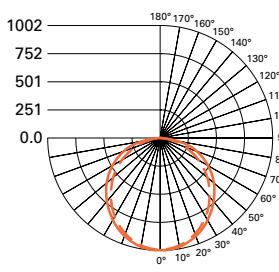
Compliance

- 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

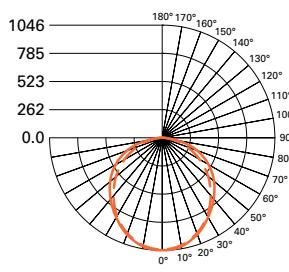
- Five year warranty standard. Optional ten year warranty available.

Photometric Data

[!\[\]\(4729e517bc6a7cd81c8025b9646574fb_img.jpg\) View IES files](#)


FILE NAME:
RX-WO-29L835-UNV-22.IES
LAMP: LED 3500K
LUMENS: 2865 Lm
WATTS: 22.2 W
EFFICACY: 129 Lm/W
TEST NO.: P302170
SC: (II) 1.22, (L) 1.26

0° (II) ——————
90° (L) ——————



FILE NAME:
ZX-WO-29L835-UNV-22.IES
LAMP: LED 3500K
LUMENS: 2904 Lm
WATTS: 22.2 W
EFFICACY: 131 Lm/W
TEST NO.: P302205
SC: (II) 1.2, (L) 1.22

0° (II) ——————
90° (L) ——————

Note: Refer to IES files for more product data.

Energy and Performance Data

| High Performance 2x2 - RX Light Level Outputs (3500K, 80 CRI) | | | | |
|--|---------------|------------------|---------|----------------|
| Series | Lumen Package | Delivered Lumens | Wattage | Efficacy (LPW) |
| RX-WO Round | 20H | 1894 | 14.9 | 127 |
| | 24H | 2293 | 17.7 | 130 |
| | 29H | 2749 | 21.1 | 130 |
| | 34H | 3181 | 24.5 | 130 |
| | 39H | 3732 | 28.9 | 129 |
| | 44H | 4290 | 33.2 | 129 |
| ZX-WO Flat | 20H | 1919 | 14.9 | 129 |
| | 24H | 2324 | 17.7 | 131 |
| | 29H | 2787 | 21.1 | 132 |
| | 34H | 3224 | 24.5 | 132 |
| | 39H | 3783 | 28.9 | 131 |
| | 44H | 4348 | 33.2 | 131 |

| Standard 2x2 - RX Light Level Outputs (3500K, 80 CRI) | | | | |
|--|---------------|------------------|---------|----------------|
| Series | Lumen Package | Delivered Lumens | Wattage | Efficacy (LPW) |
| RX-WO Round | 20L | 1991 | 16.0 | 124 |
| | 24L | 2353 | 19.2 | 123 |
| | 29L | 2865 | 22.2 | 129 |
| | 34L | 3297 | 25.8 | 128 |
| | 39L | 3827 | 30.3 | 126 |
| | 44L | 4348 | 35.0 | 124 |
| ZX-WO Flat | 20L | 2018 | 16.0 | 126 |
| | 24L | 2385 | 19.2 | 124 |
| | 29L | 2904 | 22.2 | 131 |
| | 34L | 3342 | 25.8 | 130 |
| | 39L | 3879 | 30.3 | 128 |
| | 44L | 4407 | 35.0 | 126 |

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 / 29L / 3500K / 80 CRI

Lumen Output selected = 2904 lms

3500K / 90 CRI Desired

Lumen Adjustment Factor = 0.836

Adjusted Lumen Output =
2904 lms x 0.836 = 2428 lms

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 _g | 6.3 | 65.9 |

Lumen Maintenance

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

Accessories (Ordered Separately)

CZ2-EQCLIP-U PK = "CZ2" Earthquake Clip Kit (4 clips per bag kit)

DF-22-W-U = 2' x 2' Drywall Frame Kit

SMK-22-W = 4" Tall Surface Mount Kit, 2' x 2'

Shielding Options



Round Opal Lens (RX-WO)



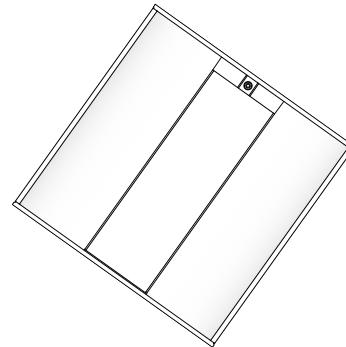
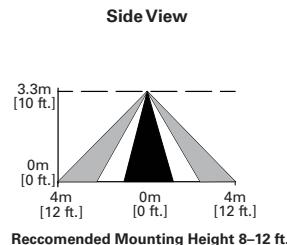
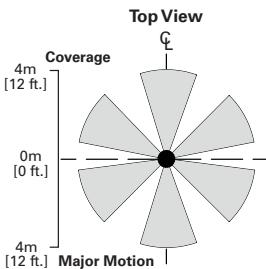
Flat Opal Lens (ZX-WO)

Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- DVLP
- VividTune



Connected Systems
[CLICK 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.



Standalone



Controlled
WaveLinx Lite



Connected
WaveLinx Wireless



Enterprise
Trellix

| | 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

devices

areas

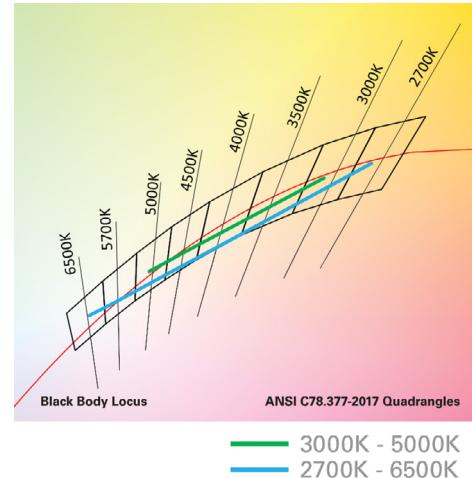
floors

buildings



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 | - | - | 0.868 | 0.741 |
| 3000K | 0.894 | 0.736 | 0.893 | 0.771 |
| 3500K | 0.946 | 0.804 | 0.924 | 0.809 |
| 4000K | 0.993 | 0.868 | 0.944 | 0.835 |
| 4500K | 1.002 | 0.883 | 0.961 | 0.857 |
| 5000K | 1.002 | 0.883 | 0.974 | 0.874 |
| 6500K | - | - | 0.988 | 0.897 |

| 2x 2' Class RX LED - Example of Approximate Lumen Calculation | | | |
|---|-------------------------|----------------------------|----------------------------|
| | Standard Catalog # | VividTune 80 CRI Catalog # | VividTune 90 CRI Catalog # |
| CCT Setting | RX-WO-39H835-UNV-22-STD | RX-WO-39H83050-UNV-22-W2A | RX-WO-39H93050-UNV-22-W2A |
| 3000K | - | 3336 | 2747 |
| 3500K | 3732 | 3530 | 3001 |
| 4000K | - | 3706 | 3239 |
| 4500K | - | 3739 | 3295 |
| 5000K | - | 3739 | 3295 |

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-39H83050-UNV-STD-22
at 80 CRI tuned to 3500K

Adjusted Lumen =
published lm x adjusted lm factor

Adjusted Lumen = 3732×0.946

Adjusted Lumen = 3530

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

