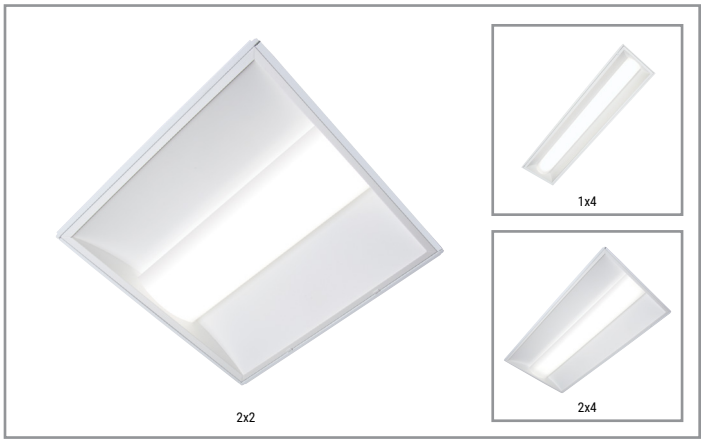
Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	



Metalux

Cruze SB Selectable Troffer

Cruze SB Selectable Lumens and CCT
1x4 / 2x2 / 2x4

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

Product Certification

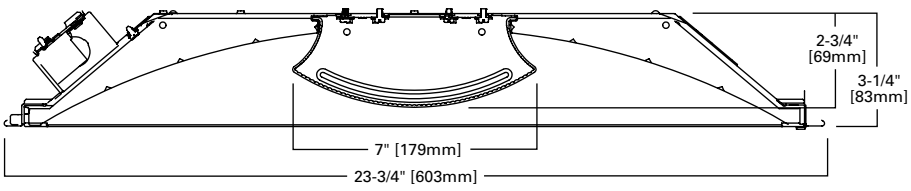
Product Features

Top Product Features

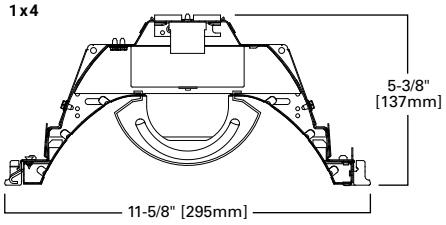
- Matte white door provides room side access to driver and LED
- Design friendly with (3) selectable color temperatures and (3) selectable lumen packages
- Curved and square lens for an upgraded look
- High performance efficacy up to 146 lumens per watt
- Integrated sensor systems - occupancy, daylight and IoT connectivity

Dimensional and Mounting Details

2x2 / 2x4

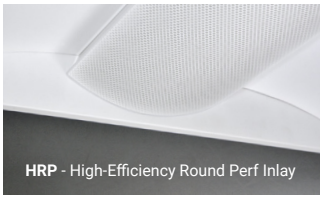


1x4



Shielding Options


Ribbed Frosted Acrylic Lens (standard)


HRP - High-Efficiency Round Perf Inlay


SQP - Lens with Square Pattern Inlay

See ordering information for more shielding options.

additional product diagrams

Order Information

SAMPLE ORDER NUMBER: **24CZSB-SCT3-UNV**

Domestic Preferences	Rating	Series	Shielding	Voltage
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**[Blank]**=Standard **ATW-SW4**= Chicago Rated [2]	**14CZSB-SCT3**=1' x 4' Cruze SB Selectable **22CZSB-SCT3**=2' x 2' Cruze SB Selectable **24CZSB-SCT3**=2' x 4' Cruze SB Selectable	**[Blank]**=Ribbed Frosted Acrylic Lens (standard) **S**=Smooth Frosted Acrylic Lens **HRP**=High-Efficiency Round Perf Inlay **SQP**=Smooth Lens with Square Pattern Insert	**UNV**=Universal Voltage 120-277
Notes (1) 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** (2) No sensor or installed FLEX options available with ATW-SW4 option.	**Notes** **Selectable Lumens** (See table on pg. 2 for details) **1x4**-27/37/47 **2x2**-27/37/47 **2x4**-41/52/64 **Selectable Color** 3000K/3500K/4000K		

Emergency Options	Flex	Driver Type
[Blank]=No emergency **EL7W**=7-watt 120V-277V emergency battery pack [8] **EL10W=**10-watt 120V-277V emergency battery pack [8] **EL14W**=14-watt 120V-277V emergency battery pack [8] **EL10WSD**=10W emergency battery pack with self-diagnostic installed [8] **EL14WSD**=14W emergency battery pack with self-diagnostic installed [8] **ETRD**=Emergency Transfer Relay with dimming control [9]	**[Blank]**=Standard **Dimming Flex** **A3/8-4/18GDIM**=Flex, hot, neutral, ground, 2 dimming leads **A3/8-5/18GDIM**=Flex, 2 hots, neutral, ground, 2 dimming leads **Non-Dimming Flex** **A3/8-2/18G**=Flex, hot, neutral, ground **A3/8-3/18G**=Flex, 2 hots, neutral, ground	**[Blank]**=Standard (0-10V Driver, 10%-100%)
Notes (8) 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. (9) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). ETRD option only requires one relay when used on a dimming fixture.	**Notes** (11) Multiple options available in online configurator. See additional notes on Flex below. **Flexible Metal Conduit Options** Flex options available for 0-10V 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. Not all options may be combined and installation ratings vary by type.	

Integrated Sensing Systems	Options	Packaging	Accessories (order separately)
[Blank]=No Sensor **WLS (formerly WAB)**=WaveLinx LITE Wireless Sensor, Occupancy w/ photocell, Independent & Networked [B] **WPS (formerly WAA)**=WaveLinx PRO Wireless Sensor, Occupancy w/ photocell, Networked [A] **WPN**=WaveLinx PRO Wireless Control Node, without sensor [A]	**DV**=Dual Band [12] **PAF**=Painted After Fabrication	**[Blank]**=Standard (Unit Pack) **PAL**=Job Pack, out of carton **PALC**=Job Pack, in carton	**CZ2-EQCLIP-U PK**="CZ2" Earthquake Clip Kit (4 clips per bag kit) [13] **DF-14W-U**=1' x 4' Drywall Frame Kit **DF-22W-U**=2' x 2' Drywall Frame Kit **DF-24W-U**=2' x 4' Drywall Frame Kit **SK-22-WS**=2' x 2' Shallow Surface Mount Kit **SK-24-WS**=2' x 4' Shallow Surface Mount Kit **SK-14-WT**=1' x 4' Tall Surface Mount Kit
Notes 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 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.	**Notes** (12) Provides blank band on opposite side from sensor band to provide symmetric appearance.		**Notes** (13) An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture.

Non-configurable SKUs

Size	Catalog Number	Lumen Setting	CCT	CRI (Min)	Delivered Nominal Lumens	Watts	Efficacy (lm/W)
2X2	22CZSB-SCT3-UNV	Low	3000K	80	2693	20.0	135
			3500K		2839	19.5	146
			4000K		2813	19.9	141
		Medium	3000K		3616	27.8	130
			3500K		3859	26.9	143
			4000K		3784	27.7	137
		High	3000K		4527	36.4	124
			3500K		4896	35.0	140
			4000K		4743	36.3	131
2X4	24CZSB-SCT3-UNV	Low	3000K	80	3948	29.4	134
			3500K		4161	28.6	145
			4000K		4196	29.2	144
		Medium	3000K		4956	37.8	131
			3500K		5262	36.6	144
			4000K		5276	37.5	141
		High	3000K		6348	50.4	126
			3500K		6807	48.5	140
			4000K		6794	50.1	136
1X4	14CZSB-SCT3-UNV	Low	3000K	80	2676	20.5	131
			3500K		2847	19.8	144
			4000K		2866	20.5	140
		Medium	3000K		3578	28.6	125
			3500K		3879	27.5	141
			4000K		3840	28.6	134
		High	3000K		4496	37.7	119
			3500K		4923	35.9	137
			4000K		4825	37.7	128

Energy and Performance Data

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) [2]	Theoretical L70 (Hours) [3]
25ºC	> 85%	> 135,000

Notes: (2) Supported by IES TM-21 standards. (3) 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.

Shielding

Lumen Adjustment Factors			
Size	**S**	**SQP**	**HRP**
1X4	1.01	0.64	0.88
2X2	1.05	0.67	0.85
2X4	1.05	0.67	0.85

Shipping Data

Catalog No.	Wt.
14CZSB-SCT3	12.5 lbs.
22CZSB-SCT3	22 lbs.
24CZSB-SCT3	20.5 lbs.

Product Specifications

Construction
- Die formed of code gauge prime cold rolled steel with full length die-formed stiffeners
- Unibody endplates attached with interlocking tabs and screws
- Hemmed side flanges
- Four auxiliary fixture end suspension points provided
- Optional earthquake clips available

Integrated Controls
- 0-10V dimming to 10% standard
- WaveLinx wireless sensor compatible for standalone, controlled, connected, and IoT capability

LED and Light Engine
- Selectable Color temperature choices 3000K, 3500K, and 4000K
- Selectable lumen output choices of low, medium, high
- TM21 life at 60,000 hours up to L90 and calculated L70 exceeds 135,000 hrs.
- Driver 120-277V Standard
- Default CCT/Lumen setting is 4000K and Medium Power

Driver and CCT/Lumen Select
- Selectable switches secured behind housing reflector for easy access
- Service from below, room-side accessibility
- Easy install and maintenance with door assembly

Emergency Battery Options
- Optional emergency battery available in 7, 10 and 14W
- Self diagnostic emergency battery option available
- 90-minute backup period for code compliance
- Factory installed integral test switch visible from room side
- Integral emergency transfer relay options available

Door Assembly, Hinge/Latch
- Positive cam action steel latches with baked white enamel finish
- Safety-lock T-hinges allow hinging and latching either side
- Door assembly hinges down for easy access from below

Door Frame / Optical Lens
- Die formed, heavy gauge flat steel door
- Mitered corners and painted after fabrication
- Baked matte white enamel finish
- Positive light seals
- Ribbed acrylic frosted lens is standard
- Other Lens options are available - Smooth frosted (S), High-efficiency round perf inlay (HRP) and Square Pattern insert (SQP)
- Replacement lenses available, contact factory
- Lens is acrylic with features on the face and sides to optimize the direct and indirect lighting contributions for improved glare and efficacy

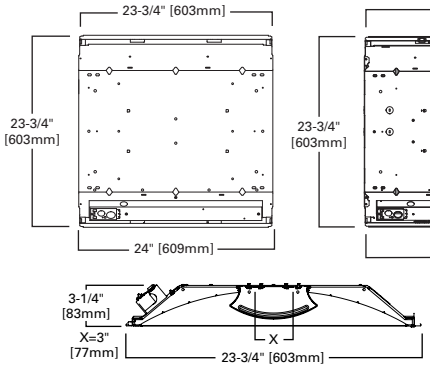
Compliance
- IC rated for insulation contact
- cULus listed for damp locations
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Stated life tested to TM21 standards
- Options to meet Buy American and other domestic preference requirements

Warranty
- Limited five-year warranty standard. Optional ten year warranty available.

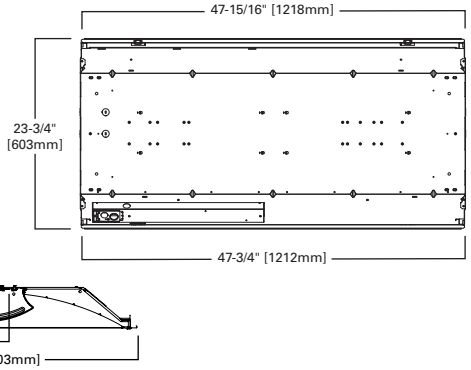
Finish
- Pre-paint matte white
- 90% reflective, matte white enamel finish
- Full fixture housing pre-painted matte white (choose PAF option for “Paint after Fabrication”)

Dimensional and Mounting Details

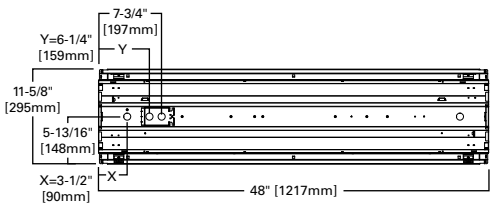
2x2



2x4



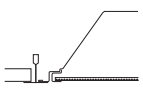
1x4



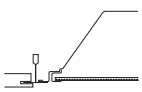
NOTE: 1' x 4' allows for row mounting

Ceiling Compatibility

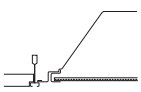
G
Grid/Lay-in
Standard



G
Concealed T



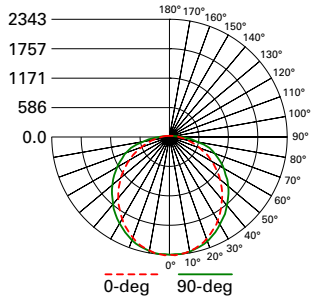
G
Slot Grid



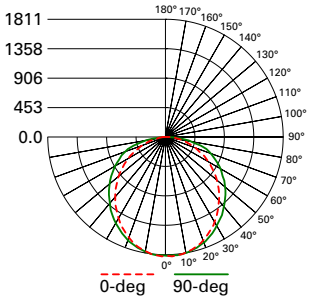
Ceiling Type	Trim Type
Exposed Grid	Standard
Concealed T	Standard
Slot Grid	Standard
Flange	*

Photometric Data

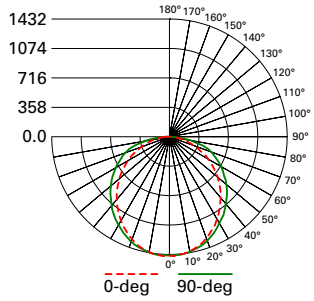
View IES files



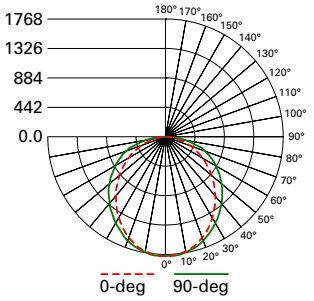
24CZSB-SCT3-UNV HIGH 3500K
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.28 x mounting height
Lumens: 6807
Input Watts: 48.5W
Efficacy: 140 lm/W
Test Report: 24CZSB-SCT3-UNV-HIGH-3500K.IES



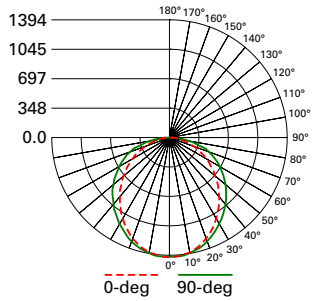
24CZSB-SCT3-UNV MED 3500K
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.28 x mounting height
Lumens: 5262
Input Watts: 36.6W
Efficacy: 144 lm/W
Test Report: 24CZSB-SCT3-UNV-MID-3500K.IES



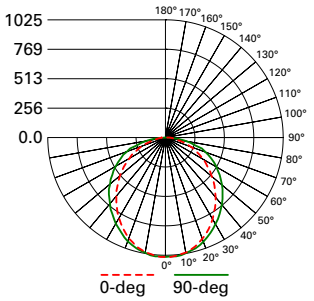
24CZSB-SCT3-UNV LOW 3500K
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.17 x mounting height, (⊥) 1.28 x mounting height
Lumens: 4161
Input Watts: 28.6W
Efficacy: 145 lm/W
Test Report: 24CZSB-SCT3-UNV-LOW-3500K.IES



22CZSB-SCT3-UNV HIGH 3500K
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.18 x mounting height, (⊥) 1.26 x mounting height
Lumens: 4896
Input Watts: 35W
Efficacy: 140 lm/W
Test Report: 22CZSB-SCT3-UNV-HIGH-3500K.IES



22CZSB-SCT3-UNV MED 3500K
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.18 x mounting height, (⊥) 1.26 x mounting height
Lumens: 3859
Input Watts: 26.9W
Efficacy: 143 lm/W
Test Report: 22CZSB-SCT3-UNV-MID-3500K.IES



22CZSB-SCT3-UNV LOW 3500K
Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.18 x mounting height, (⊥) 1.26 x mounting height
Lumens: 2839
Input Watts: 19.5W
Efficacy: 146 lm/W
Test Report: 22CZSB-SCT3-UNV-LOW-3500K.IES

Control Solutions

- WaveLinx LITE wireless
- WaveLinx PRO wireless
- WaveLinx CAT wired
- WaveLinx Wired

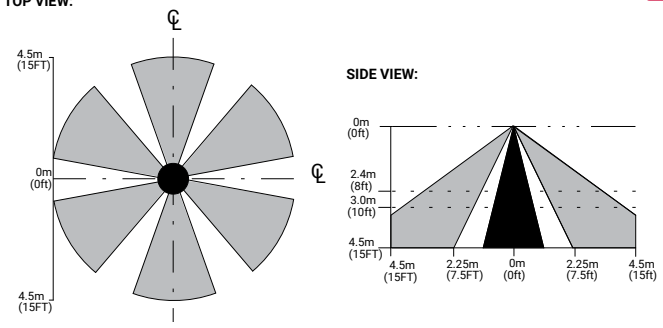
WaveLinx Digital Lighting Control Solutions

The Cruze SB 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.

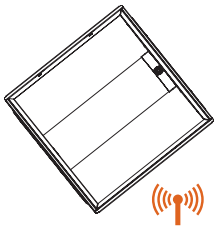
WaveLinx LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse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

Integrated Sensor Coverage Pattern

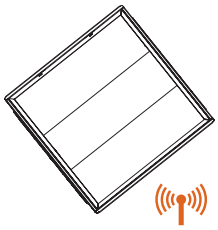


***Note**: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.*

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 realestate 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 (LLLC)**	**Automatic Dimming Photocell**	**Occupancy Sensing**	**CCT Control**
WLS	X	X	X	X	
WLN		X			
WPS		X	X	X	
WPN		X			X
WPA		X	X	X	X

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

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

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Specifications and dimensions subject to change without notice.