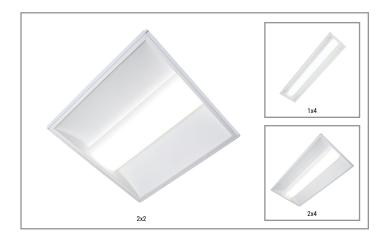
Project	Catalog #	Туре	
Prepared by	Notes	Date	



Interactive Menu

- Order Information page 2
- Photometric Data page 5
- Control Solutions page 6
- · Product Warranty

Metalux

Cruze SB Selectable Troffer

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

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

Product Certification













Product Features













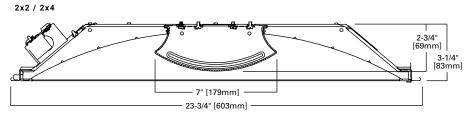


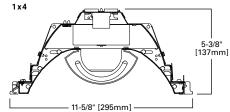


Top Product Features

- · 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





Shielding Options



See ordering information for more shielding options.









Metalux **Cruze SB Selectable**

Order Information

SAMPLE ORDER NUMBER: 24CZSB-SCT3-UNV

Domestic Preferences	Rating	Series	Shielding	Voltage
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Domestic Preferences (1)	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	Notes	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 <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	(2) No sensor or installed FLEX options available with ATW-SW4 option.	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 Driver Type

Emergency Options	Flex (11)	Driver Type
[Blank]=No emergency EL7W=7-watt 120V-277V emergency battery pack (®) EL10W=10-watt 120V-277V emergency battery pack (®) EL14W=14-watt 120V-277V emergency battery pack (®) EL10WSD=10W emergency battery pack with self-diagnostic installed (®) EL14WSD=14W emergency battery pack with self-diagnostic installed (®) ETRD=Emergency Transfer Relay with dimming control (®)	[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	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	(11) Multiple options available in online configurator. See additional notes on Flex below.	
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	Flexible Metal Conduit Options	
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.	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.	

Options **Integrated Sensing Systems** Packaging Accessories

Integrated Sensing Systems (15)	Options	Packaging	Accessories (order separately)
[Blank]=No Sensor WAA=WAA=WaveLinx PRO Wireless Integrated Sensor (A) WPN=WaveLinx PRO Wireless Node without Sensor (A) WAB=WaveLinx LITE Wireless Integrated Sensor (B)	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	Notes		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.	(12) Provides blank band on opposite side from sensor band to provide symmetric appearance.		(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	сст	CRI (Min)	Delivered Nominal Lumens	Watts	Efficacy (lm/W)
			3000K		2693	20.0	135
		Low	3500K		2839	19.5	146
			4000K		2813	19.9	141
			3000K		3616	27.8	130
2X2	22CZSB-SCT3-UNV	Medium	3500K	80	3859	26.9	143
			4000K		3784	27.7	137
			3000K		4527	36.4	124
		High	3500K		4896	35.0	140
			4000K		4743	36.3	131
		Low	3000K	80	3948	29.4	134
	24CZSB-SCT3-UNV		3500K		4161	28.6	145
			4000K		4196	29.2	144
		Medium	3000K		4956	37.8	131
2X4			3500K		5262	36.6	144
			4000K		5276	37.5	141
			3000K		6348	50.4	126
		High	3500K		6807	48.5	140
			4000K		6794	50.1	136
			3000K		2676	20.5	131
		Low	3500K		2847	19.8	144
			4000K		2866	20.5	140
			3000K		3578	28.6	125
1X4	14CZSB-SCT3-UNV	Medium	3500K	80	3879	27.5	141
			4000K		3840	28.6	134
			3000K		4496	37.7	119
		High	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⁾
25°C	> 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.



Metalux **Cruze SB Selectable**

Product Specifications

- 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,
- 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

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

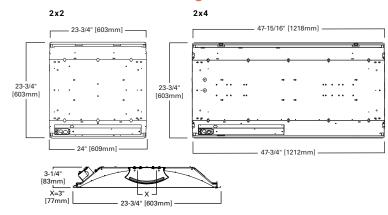
- · IC rated for insulation contact
- · cULus listed for damp locations
- · RoHS compliant
- Tested to IESNA LM-79 and LM-80
- · Stated life tested to TM21 standards
- Options to meet Buy American and other domestic preference requirements

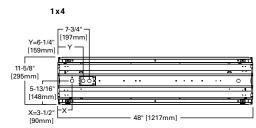
Warranty

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

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

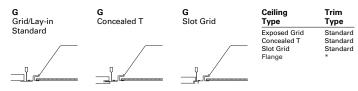
Dimensional and Mounting Details





NOTE: 1' x 4' allows for row mounting

Ceiling Compatibility

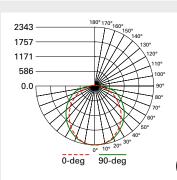




Metalux Cruze SB Selectable

Photometric Data





24CZSB-SCT3-UNV HIGH 3500K

Electronic Driver

Linear LED 3500K

Spacing criterion: (II) 1.2 x mounting height, (\perp) 1.28 x mounting height

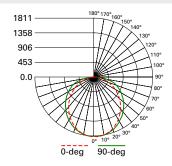
Lumens: 6807

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, (\perp) 1.28 x mounting height

Lumens: 5262

Input Watts: 36.6W

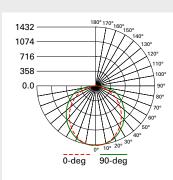
Efficacy: 144 lm/W

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, (\perp) 1.28 x mounting height

Lumens: 4161

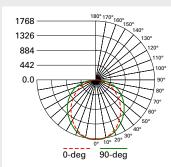
Input Watts: 28.6W

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, (\perp) 1.26 x mounting height

Lumens: 4896

Input Watts: 35W

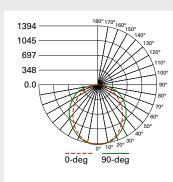
Efficacy: 140 lm/W

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, (\perp) 1.26 x mounting height

Lumens: 3859

Input Watts: 26.9W

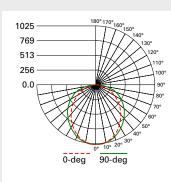
Efficacy: 143 lm/W

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, (\bot) 1.26 x mounting height

Lumens: 2839

Input Watts: 19.5W

Efficacy: 146 lm/W

Test Report:

22CZSB-SCT3-UNV-LOW-3500K.IES







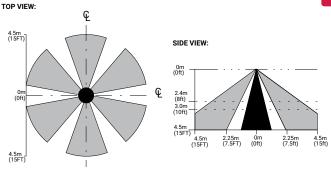


Control Solutions

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



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.

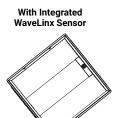
The Cruze SB with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.



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.





With Integrated

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	Х	х	Х	Х				
WLN		Х						
WPS		x	Х	Х				
WPN		Х			Х			
WPA		Х	Х	Х	Х			

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 Spaces WaveLinx LITE



Spaces WaveLinx CAT



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



subject to change without notice.