DESCRIPTION

The Cruze[™] ST LED series combines latch-less design, matte white paint after fabrication and frosted acrylic lens to deliver architectural appeal at unmatched price. This high performance LED troffer is constructed with Eaton's the latest solid-state technology platform and delivers unprecedented energy savings, visual comfort and aesthetics at an incredible value. Cruze ST offers premium finishes and clean lines making it an ideal choice for commercial office spaces, schools, hospitals, and retail merchandising areas.

SPECIFICATION FEATURES

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
- Integral Grid-lock feature for endplates for added safety
- Optional earthquake clips available

Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinx sensor compatible for IoT capability
- LumaWatt Pro sensor compatible for IoT capability
- SVPD sensor compatible for out of the box functionality
- DLVP sensor and driver compatible for low voltage applications
- DALI 2.0, Lutron, and stepdimming available

- LED and Light Engine
- LED's available in 3000K, 3500K, 4000K, or 5000K at 80 CRI
- minimum and 90 CRI minimum TM21 life at 60,000 hours up to L94 and calculated L70 exceeds 290,000 hrs.
- Drivers available in 120-277V and 347V
- Color Tuning options available with Eaton's Vividtune

Emergency Battery 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
- Generator transfer options available

Metalux Туре

Project	
Comments	Date
Prepared by	

Finish

Multistage, iron phosphate

Catalog #

- pretreatment • 90% reflective, matte white
- enamel finish Full fixture housing painted after fabrication

Shielding

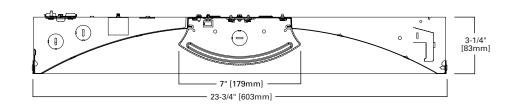
- Ribbed acrylic frosted lens standard
- Optional smooth acrylic frosted lens (S)
- Optional metal perforated acrylic lens (RDP)
- Optional High-Efficiency Round Perf Inlay (HRP)

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 Can be used for State of California Title 24 high efficacy luminaire

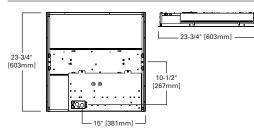
Warranty

• Five year warranty standard.



MOUNTING DATA

vering Business Worldwide



CEILING COMPATIBILITY





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

See Drywall Frame Kit Accessory in Ordering Information Section



Cruze ST 22CZ2 LED

2' X 2' LED TROFFER

Specification Grade Troffer









LOAD DATA (STOCK PRODUCT)

Thd	6%
Power Factor	0.99
Weight	10.6 lbs.
Low Temp. Start	-20°C



Safe and convenient means of disconnecting power





Concealed T

G Slot Grid	
	С
	 S

ORDERING INFORMATION

SAMPLE NUMBER: 22CZ2-34HE-UNV-L835-CD1-U

ating	High Efficacy	Voltage (2)		Driver Type	Number of Drivers
lank=	Lumen Output	UNV=Univer	sal Voltage 120-277	CD=0-10V Dimming Driver	1=1 Driver
tandard	20HE=2000 Lumens	347V=347 Vo	olt ⁽⁵⁾	(1%-100% Dimming)	
TW-SW4=	24HE=2400 Lumens	48V=48 Volt	Low-voltage (Class 2) ^(C)	SR=Sensor-ready Dimming Driver	
chicago	29HE=2900 Lumens	-		for LWIPD1 option	
lated	34HE=3400 Lumens	Options		(1%-100% Dimming) ^(B)	
	39HE=3900 Lumens	GL=Single E	lement Fuse	5LTD=Fifth Light DALI Driver	
Cruze ST Series	44HE=4400 Lumens	GM=Double	Element Fuse	(5%-100% Dimming) ^(E)	
2CZ2=2x2 Cruze ST		Emergency		5LTHD=Fifth Light Dimming Drive	r
	Standard Efficacy	[Blank]=No	emergency	(1%-100% Dimming) (E)	
	Lumen Output	EL7W=7-wat	t, 120V-277V emergency	LV1=DLVP Dimming Driver	
	20=2000 Lumens (8)	battery pack	installed (3)	(0%-100% Dimming) ^(c)	
	24=2400 Lumens (8)	EL14W=14-w	att 120V-277V emergency	SD=Step Dimming Driver	
	32=3200 Lumens (8)	battery pack		(50% or 100% Dimming)	
	39=3900 Lumens (8)		att, DLVP-compatible low voltage	LH=Lutron HiLume (LDE1 series)	
	44=4400 Lumens (8)		pattery pack installed (c)	with Soft-on Fade to Black din	
			watt DLVP-compatible low voltage	L5=Lutron 5 Series (LDE5-Series)	
	Shielding	emergency b	pattery pack installed ^(C)	W2A=White Tuning, 2 ch, Analog	0-10V Intensity and CCT Control
	[Blank]=Ribbed Frosted	GTR2=Gene	ator Transfer Relay (7)		
	Acrylic Lens (standard)	ETRD=Emer	gency Transfer Relay with		
	S=Smooth Frosted Acrylic Lens	dimming co	ntrol ⁽⁶⁾		
	RDP=Smooth Lens with Round	CRI/CCT			
	Pattern Insert	L830=80CRI,	3000K		
	HRP=High-Efficiency Round	L835=80CRI,	3500K	LENS O	NLY
	Perf Inlay	L840=80CRI,	4000K		
		L850=80CRI,	5000K		
		L930=90CRI,			
		L935=90CRI,	3500K		
		L940=90CRI,			
		L950=90CRI,			
			I 3000K-5000K White Tuning (7)		
			I 3000K-5000K White Tuning (7)		
			Il 2700K-6500K White Tuning (7)		
		L92765=90CF	ll 2700K-6500K White Tuning ⁽⁷⁾		
		Flex			
		[Blank]=No F	lex		
			DIM=3/8" Flex with 0-10V Dimming L	eads	
			3/8" Flex with line and common		
		A3/8-5/18GE	IM=Flex with 0-10V Dimming leads	and Blue for alternate wiring	
		See below for		5	
]		
Integrated Sensing	Sustama		Deskezina		
[Blank]=No Sensor	Systems		Packaging		
	Minutes Interneted Concer (A)		U=Unit Pack		
	Wireless Integrated Sensor (A)	Rand (A), (4)	PAL=Job Pack, out of carton		
	x Wireless Integrated Sensor Dual	Danu	PALC=Job Pack, in carton		
	Pro Wireless Integrated Sensor (B)	Dual Dariel (B) (4)			
	att Pro Wireless Integrated Sensor I tt Pro Wireless Tile-mount Sensor ۱		ACCESSORIES		
SI VPD1-DI VP Low-voltage Integrated Sensor ^(C)			C72-FOCUP-U-PK-Cruze ST "C72	" Earthquake Clip Kit (4 clips per ba	a kit) ⁽¹⁾

SLVPD1=DLVP Low-voltage Integrated Sensor (C) SDLVPD1=DLVP Low-voltage Integrated Sensor Dual Band ^{(C), (4)} SVPD1=0-10V Stand-alone Integrated Sensor ^(D) SDVPD1=0-10V Stand-alone Integrated Sensor Dual Band (D), (4)

Connected Systems CLICK HERE

Earthquake Clip Kit (4 clips per bag kit) **DF-22-W**=2' x 2' Drywall Frame Kit **SK-22-WS**=2' x 2' Shallow Surface Mount Kit SK-22-WT=2' x 2' Tall Surface Mount Kit

ISHH-01=Programming Remote for Integrated Sensor (D)

ISHH-02=Personal Control Remote for Integrated Sensor (D)

NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. ⁽²⁾Products also available in non-US voltages and frequencies for international markets. ⁽³⁾ 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 Im/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. ⁽⁴⁾ Required for use with sensors and emergency options. Provides blank band on opposite side from sensor band to provide symmetric appearance. ⁽³⁾ 347 versions with emergency LTD, step dim, or sensors are not available. ⁽⁴⁾Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must be used in conjunction with W2A driver orly. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. Not compatible with other control or sensor options. ⁽⁸⁾ White tuning not available in conjunction with W2A driver only. Must be used in conjunction with were driver only. Must be used in conjunction with were driver only. Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. Not compatible with other control or sensor options. ⁽⁸⁾ White tuning not available with this model.

Integrated Sensing and Control System Options 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 system pages for additional details and compatibility. ^(B)Consult LumaWatt Pro system pages for additional details and compatibility. ^(D)Consult DLVP system pages for additional details and compatibility. ^(D)Consult SVPD series system pages for additional details and compatibility. ^(E)Consult Fifth Light system pages for additional details and compatibility. ^(D)Consult Marketplace Options - Lutron system pages for additional details and compatibility. ^(D)Consult Marketplace Options - Lutron system pages for additional details and compatibility.

Flexible Metal Conduit Options

A38-4/1860MI series notes: Factory installed 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. A38-4/1860MI series notes: Factory installed dimming option 3% flexible metal conduit with 2.#18 power and ground wires and 2.#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556. NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour

through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

		Pallet
Size	Wt.	49"L x 52"W x 55"H
2' x 2'	12.5 lbs.	48



ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Standard Efficacy Versions

Catalog Number	Lumens	Watts	lm/W
22CZ2-20-UNV-L835-CD1-U	2101	17.9	117
22CZ2-24-UNV-L835-CD1-U	2450	21.9	112
22CZ2-32-UNV-L835-CD1-U	3280	26.7	123
22CZ2-39-UNV-L835-CD1-U	3943	34.5	114
22CZ2-44-UNV-L835-CD1-U	4424	42.7	104

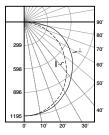
High Efficacy Versions

Catalog Number	Lumens	Watts	lm/W
22CZ2-20HE-UNV-L835-CD1-U	2044	16.0	128
22CZ2-24HE-UNV-L835-CD1-U	2416	19.2	126
22CZ2-29HE-UNV-L835-CD1-U	2942	22.2	133
22CZ2-34HE-UNV-L835-CD1-U	3386	25.8	131
22CZ2-39HE-UNV-L835-CD1-U	3930	30.3	130
22CZ2-44HE-UNV-L835-CD1-U	4464	35.0	128

Stock Versions

Catalog Number	UPC	сст	Delivered Nominal Lumens	Watts	Efficacy
24CZ24035		3500k	4196	36.2	116
24CZ24040		4000k	4196	36.2	116
24CZ25035		3500k	5015	48.6	103
24CZ25040		4000k	5015	48.6	103

PHOTOMETRICS



22CZ2-24-UNV-L830-CD1-U **Dimming Driver** Linear LED 3000K Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.28 x mounting height Lumens: 2437 Input Watts: 21.9W Efficacy: 111.3 LPW Test Report: 22CZ2-24-UNV-L830-CD1-U.IES

0 818 818 818 818 5 810 816 817 10 795 804 808 15 771 783 791 20 740 756 768 25 701 723 739 30 657 681 706 35 608 637 668 40 553 588 628 45 503 538 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83 90 0 0 0	Angle	Along II	45°	Across ⊥	
10 795 804 808 15 771 783 791 20 740 756 768 25 701 723 739 30 657 681 706 35 608 637 668 40 553 588 628 45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	0	818	818	818	
15 771 783 791 20 740 756 768 25 701 723 739 30 657 681 706 35 608 637 668 40 553 588 628 45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	5	810	816	817	
20 740 756 768 25 701 723 739 30 657 681 706 35 608 637 688 40 553 588 628 45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	10	795	804	808	
25 701 723 739 30 657 681 706 35 608 637 668 40 553 588 628 45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	15	771	783	791	
30 657 681 706 35 608 637 668 40 553 588 628 45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	20	740	756	768	
35 608 637 668 40 553 588 628 45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	25	701	723	739	
40 553 588 628 45 503 533 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	30	657	681	706	
45 503 538 584 50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	35	608	637	668	
50 439 485 540 55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	40	553	588	628	
55 388 432 491 60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	45	503	538	584	
60 318 376 440 65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	50	439	485	540	
65 261 321 387 70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	55	388	432	491	
70 203 264 334 75 136 206 273 80 80 144 186 85 32 67 83	60	318	376	440	
75 136 206 273 80 80 144 186 85 32 67 83	65	261	321	387	
80 80 144 186 85 32 67 83	70	203	264	334	
85 32 67 83	75	136	206	273	
	80	80	144	186	
90 0 0 0	85	32	67	83	
	90	0	0	0	

Coefficients of Utilization

rc		8	0%			7	0%			50%	6		30%	6		10%	b	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

Zonal Lumen Summary

Lum	ina	nce	Data
		^	

Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	630	25.9		1914	2047	2222
0-40	1029	42.2	55	1820	2027	2304
0-60	1834	75.3	65	1662	2044	2464
0-90	2437	100.0	75	1414	2142	2838
0-180	2437	100.0	85	988	2069	2563



Eaton

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Specifications and dimensions subject to

change without notice.

SHIELDING

Lumen Adjustment Factors						
S	RDP	HRP				
1.0548	0.6693	0.8052				

LUMEN CALCULATOR

CCT Multiplier	80 CRI	90 CRI
3000K	0.994	0.830
3500K	1.00	0.845
4000K	1.00	0.854
5000K	1.065	0.852

Example of Lumen **Adjustment Calculation**

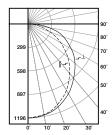
22CZ2-32-UNV-L935-CD1-U at 90CRI at 3500K

Lumen Adjustment Factor = 0.845

Total Light Output = 3,280 lm x 0.845 = 2,772 lm Efficacy = $\frac{2,772 \text{ Im}}{26.7 \text{ W}}$ = 103.8 Im/W

LUMEN MAINTENANCE

Version	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (hours)
Standard	> 85%	> 131,000
High Efficiency	> 94%	> 290,000



Dimming Driver Linear LED 3000K Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.27 x mounting height Lumens: 2402 Input Watts: 19.2W Efficacy: 125.1 LPW Test Report: 22CZ2-24HE-UNV-L830-CD1-U. IES

22CZ2-24HE-

UNV-L830-CD1-U

Angle	Along II	45°	Across 1
0	817	817	817
5	808	814	816
10	794	802	806
15	770	781	788
20	739	752	763
25	699	721	733
30	653	676	696
35	604	630	656
40	550	581	615
45	495	530	571
50	435	477	527
55	378	424	477
60	320	369	428
65	253	316	378
70	193	261	325
75	134	205	264
80	79	143	173
85	32	63	71
90	0	0	0

Coefficients of Utilization

Effective floor cavity refl								209	%									
rc		8	0%			7	0%			50	6		30%	ó		10%	6	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

Zonal Lumen Summary

Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	627	26.1	45	1884	2017	2173
0-40	1022	42.5	55	1773	1989	2238
0-60	1813	75.5	65	1611	2012	2407
0-90	2402	100.0	75	1393	2131	2745
0-180	2402	100.0	85	988	19/15	2192

Luminance Data

INTEGRATED SENSOR

EATON POWER

The Cruze ST with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Cruze ST delivers superior lighting with integrated occupancy and daylighting controls. Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the Cruze ST delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied. The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method. The integral sensor can be offered in both standalone (SVPD1) and networked (SWPD1, LWIPD1, and SLVPD1) for application versatility. Top View Side View We make connections work Coverage 4m [12 ft.] 3.3m [10 ft.] 0m [0 ft.] 0m [0 ft. 0m [0 ft.] 4m [12 ft.] 4 [12 ft.] ÷ ++Reccomended Mounting Height 8-12 ft. 4m _____ [12 ft.] Major Motion CONNECTIVITY APPS nmunications & Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended.

Systems comparison chart

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

Distributed Low-Voltage Power System	WaveLinx	LumaWatt Pro
Interior	Interior/Outdoor	Any
Stand-alone	Both	Network
•	•	•
•		\bullet
•		\bullet
•	\bullet	•
\bullet	\bullet	•
	•	•
	\bullet	•
	•	•
		•
		•
		•
	•	•
		•
	Low-Voltage Power System Interior	Low-Voltage Power SystemWaveLinxInteriorInterior/Outdoor



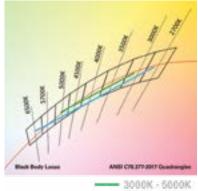
Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.



22 Cruze ST LED with VividTune Tunable White

VividTune tunable white luminaires from Eaton 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.



3000K - 5000K 2700K - 6500K

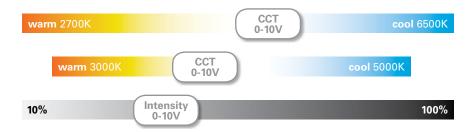
Performance Data*

Tunable White - Lumen Adjustment Factors								
сст	3000K	-5000K	2700K-6500K					
CCI	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				

2' x 2' Cruze ST LED - Example of Approximate Lumen Calculation							
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #				
CCT Setting	22CZ2-34HE-UNV-L835-CD1-U	22CZ2-34HE-UNV-L83050-W2A1-U	22CZ2-34HE-UNV-L93050-W2A1-U				
3000K	-	3026	2491				
3500K	3386	3202	2722				
4000K	-	3362	2940				
4500K	-	3394	2991				
5000K	-	3394	2991				

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. For suggested control configurations, go to www.eaton.com/lighting for tunable white application guides.



Example of Lumen Adjustment Calculation

22CZ2-34HE-UNV-L83050-W2A1-U at 80 CRI tuned to 3500K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 3386 x 0.946

Adjusted Lumen = 3202 lm

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

