

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



Metalux

Cruze ST 24CZ2

2' x 4' LED Specification Grade Troffer

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

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- Product Warranty

Top Product Features

- Latch-less design provides clean architectural look
- VividTune CCT tuning options from 3000K-5000K or 2700K-6500K
- Designers delight - ribbed, smooth and round perforated lens options
- High performance efficacy up to 167 lm/W
- Integrated sensor systems - occupancy, daylight and IoT connectivity

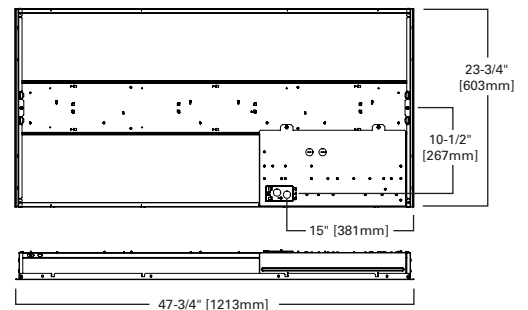
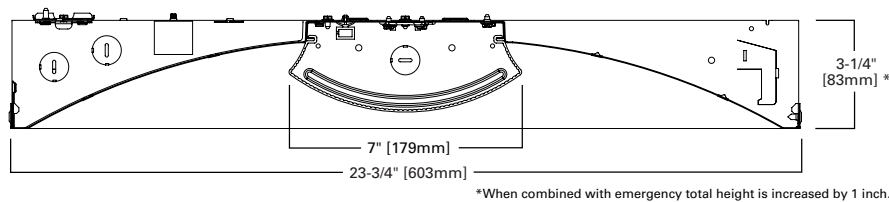
Product Certification



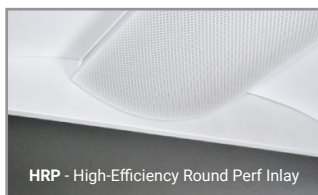
Product Features



Dimensional and Mounting Details



Shielding



See ordering information for more shielding options.

Ceiling Compatibility

| G | G | G | Ceiling Type | Trim Type |
|----------------------|-------------|-----------|--------------|-----------|
| Grid/Lay-in Standard | Concealed T | Slot Grid | Exposed Grid | Standard |
| | | | Concealed T | Standard |
| | | | Slot Grid | Standard |
| | | | Flange | * |

*See Drywall Frame Kit Accessory in Ordering Information Section

Order Information

SAMPLE ORDER NUMBER: **24CZ2-45HE-UNV-L835-CD1-U**

| Rating | Series | Air | Lumen Output | | Shielding | Voltage | |
|---|-----------------------|---|--|--|---|---|---|
| Rating | Series | Air | Lumen Level | Efficacy | Shielding | Voltage ⁽⁸⁾ | |
| [Blank]=Standard ATW-SW4= Chicago Rated | 24CZ2=2x4 Cruze ST | [Blank]=Standard A=Air (Vented) ⁽¹⁾ | 30=3000 Lumens 35=3500 Lumens 40=4000 Lumens 45=4500 Lumens 50=5000 Lumens 55=5500 Lumens ⁽²⁾ 60=6000 Lumens ⁽²⁾ 65=6500 Lumens ^{(2), (3), (4)} 70=7000 Lumens 75=7500 Lumens ^{(3), (4)} | 80=8000 Lumens ⁽³⁾ 85=8500 Lumens ⁽³⁾ 90=9000 Lumens ⁽³⁾ 95=9500 Lumens ⁽³⁾ 100=10000 Lumens ⁽³⁾ 110=11000 Lumens ⁽³⁾ 120=12000 Lumens ⁽³⁾ 130=13000 Lumens ⁽³⁾ 150=15000 Lumens ⁽³⁾ 170=17000 Lumens ⁽³⁾ | [Blank]=Standard Efficacy ⁽⁵⁾ HE=High Efficacy ⁽⁶⁾ VHE=Very High Efficacy ^{(3), (18)} | [Blank]=Ribbed Frosted Acrylic Lens (standard) S=Smooth Frosted Acrylic Lens RDP=Smooth Lens with Round Pattern Insert HRP=High-Efficiency Round Perf Inlay SQR=Square Lens | UNV=Universal Voltage 120-277 347V=347 Volt ⁽⁹⁾ 48V=48 Volt Low-voltage (Class 2) ^(C) |
| | | Notes (1) Air version is intended for air return through plenum. See air return data table for air flow volumes. Air option not available with ATW-SW4. | Notes (2) Not available with white tuning and Standard Efficacy. (3) Currently only available with CD driver option. (4) 6500 lumens standard efficacy and 7500 lumens and higher are not available with WN driver. (5) Available up to 6500 lumens. (6) Available up to 7500 lumens. (18) Requires 2 CD-1 drivers above 100VHE. | | Notes (8) Products also available in non-US voltages and frequencies for international markets. (9) Some 347V versions require a transformer. Total wattage will increase by 2 watts if used. (C) Consult DLVP system pages for additional details and compatibility. | | |

| Options | Emergency Options | CRI/CCT | Flex |
|--|---|--|--|
| Options | Emergency Options | CRI/CCT | Flex |
| GL=Single Element Fuse GM=Double Element Fuse | [Blank]=No emergency EL7W=7-watt 120V-277V emergency battery pack ⁽¹⁰⁾ EL14W=14-watt 120V-277V emergency battery pack ⁽¹⁰⁾ ELV7W=7-watt DLVP-compatible low voltage emergency battery pack ^(C) ELV14W=14-watt DLVP-compatible low voltage emergency battery pack ^(C) ETRD=Iota Emergency Transfer Relay with dimming control ⁽¹¹⁾ RRU=LVS Controls Emergency Transfer Relay with dimming control ⁽¹¹⁾ UEL7W=UL924 Listed luminaire, 7-watt, 120V-277V emergency battery pack ⁽¹⁰⁾ UEL14W=UL924 Listed luminaire, 14-watt 120V-277V emergency battery pack ⁽¹⁰⁾ UETRD=UL924 Listed luminaire, Iota Emergency Transfer Relay with dimming control ⁽¹¹⁾ URRU=UL924 Listed luminaire, LVS Controls Emergency Transfer Relay with dimming control ⁽¹¹⁾ | L830=80CRI, 3000K L835=80CRI, 3500K L840=80CRI, 4000K L850=80CRI, 5000K L930=90CRI, 3000K L935=90CRI, 3500K L940=90CRI, 4000K L950=90CRI, 5000K L83050=80CRI 3000K-5000K White Tuning ⁽¹²⁾ L93050=90CRI 3000K-5000K White Tuning ⁽¹²⁾ L82765=80CRI 2700K-6500K White Tuning ⁽¹²⁾ L92765=90CRI 2700K-6500K White Tuning ⁽¹²⁾ | [Blank]=No Flex A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads A3/8-2/18G=3/8" Flex with line and common A3/8-5/18GDIM=Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details. |
| | Notes (10) 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. (11) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). Devices are universal voltage (UNV). 347 not available. (C) Consult DLVP system pages for additional details and compatibility. | Notes (12) White tuning provides correlated color temperatures (CCT) between 3000K (warm) to 5000K (cool) or 2700K (warm) to 6500K (cool). Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. May be combined with Wavelinx sensor control systems only. | 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. Not all options may be combined and installation ratings vary by type. See online configurator for all flex options. A3/8-4/18GDIM series notes: Factory installed dimming option 3/8" 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). |

| Driver Type | Number of Drivers | Integrated Sensing Systems | Packaging |
|--|--|---|--|
| Driver Type | Number of Drivers | Integrated Sensing Systems | Packaging |
| CD=0-10V Dimming Driver (1%-100% Dimming) SR=Sensor-ready Dimming Driver for LWIPD1 option (1%-100% Dimming) ^(B) SLTD=Fifth Light DALI Driver (5%-100% Dimming) ^(E) SLTHD=Fifth Light Dimming Driver (1%-100% Dimming) ^(E) LV=DLVP Dimming Driver (0%-100% Dimming) ^(C) SD=Step Dimming Driver (50%-100% Dimming) LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming ^(F) L5=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver ^(F) W2A=White Tuning, 2 ch, Analog 0-10V Intensity and CCT Control ⁽¹³⁾ WN=WaveLinX Wireless Fixture, No Sensor. ^{(A), (G), (H), (19)} | 1=1 Driver 2=2 Drivers ⁽¹⁴⁾ | [Blank]=No Sensor SWPD1=WaveLinX Wireless Integrated Sensor ^(A) SDWPD1=WaveLinX Wireless Integrated Sensor Dual Band ^{(A), (15)} LWIPD1=Enlighted Wireless Integrated Sensor ^(B) LDWIPD1=Enlighted Wireless Integrated Sensor Dual Band ^{(B), (15)} LWTPD1=Enlighted Wireless Tile-mount Sensor ^(B) SLVPD1=DLVP Low-voltage Integrated Sensor ^(C) SDLVPD1=DLVP Low-voltage Integrated Sensor Dual Band ^{(C), (15)} SVPD1=0-10V Stand-alone Integrated Sensor ^(D) SDVPD1=0-10V Stand-alone Integrated Sensor Dual Band ^{(D), (15)} | U=Unit Pack PAL=Job Pack, out of carton PALC=Job Pack, in carton |
| Notes (13) White tuning provides correlated color temperatures (CCT) between 3000K (warm) to 5000K (cool) or 2700K (warm) to 6500K (cool). Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. May be combined with Wavelinx sensor control systems only. (19) Not available 30. 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 Enlighted system pages for additional details and compatibility. (C) Consult DLVP system pages for additional details and compatibility. (E) Consult Fifth Light system pages for additional details and compatibility. (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com. (G) Not compatible with GTR, ETRD, or integrated sensor options. (H) Available with UNV voltage only. | Notes (14) See lumen limitation notes for applications requiring 2 drivers or use online configurator. When combined with emergency total height is increased by 1 inch. | Notes (15) Required for use with sensors and emergency options. Provides blank band on opposite side from sensor band to provide symmetric appearance. 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 Enlighted 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. | |

Accessories

| Accessories (order separately) |
|---|
| <p>CZ2-EQCLIP-U-PK=“CZ2” Earthquake Clip Kit (4 clips per bag kit) ⁽¹⁶⁾</p> <p>DF-24-W-2' x 4' Drywall Frame Kit</p> <p>SK-24-WS-2' x 4' Shallow Surface Mount Kit</p> <p>SK-24-WT-2' x 4' Tall Surface Mount Kit</p> <p>ISHH-01=Programming Remote for Integrated Sensor ^(D)</p> <p>ISHH-02=Personal Control Remote for Integrated Sensor ^(D)</p> |
| <p>Notes</p> <p>(16) An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture.</p> <p>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: (D) Consult SVPD series system pages for additional details and compatibility.</p> |

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

Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinX wireless fixture for sensor-less wireless control
- WaveLinX sensor compatible for IoT capability
- Enlighted 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 step-dimming 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 Cooper Lighting Solutions' VividTune

Emergency Options

- Optional UL924 emergency battery available in 7W and 14W
- 90-minute backup period for code compliance
- Laser point test from floor for ease of use on 7W and 14W versions
- EZ Key feature prevents accidental discharge during construction on 7W and 14W versions
- Integral UL924 emergency transfer relay options available

Finish

- Multistage, iron phosphate 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

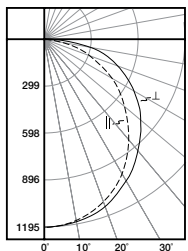
- IC rated for insulation contact
- cULus listed for damp locations
- UL924 luminaire listing available, see Emergency Options
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Stated life tested to TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

Warranty

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

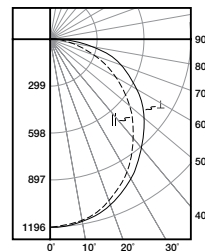
Photometric Data

[View IES files](#)



24CZ2-35-UNV-L830-CD1-U

Dimming Driver
 Linear LED 3000K
 Spacing criterion: (II) 1.22 x mounting height,
 (⊥) 1.28 x mounting height
 Lumens: 3618
 Input Watts: 30.1W
 Efficacy: 120.2 LPW
 Test Report: 24CZ2-35-UNV-L830-CD1-U.IES



24CZ2-35HE-UNV-L830-CD1-U

Dimming Driver
 Linear LED 3000K
 Spacing criterion: (II) 1.22 x mounting height,
 (⊥) 1.27 x mounting height
 Lumens: 3562
 Input Watts: 26.9W
 Efficacy: 132.4 LPW
 Test Report: 24CZ2-35HE-UNV-L830-CD1-U.IES

Energy and Performance Data

Standard Efficacy Versions – Single Row of LEDs

| Catalog Number | Lumens | Watts | lm/W |
|-------------------------|--------|-------|------|
| 24CZ2-30-UNV-L835-CD1-U | 3032 | 24.2 | 125 |
| 24CZ2-35-UNV-L835-CD1-U | 3638 | 30.1 | 121 |
| 24CZ2-40-UNV-L835-CD1-U | 4196 | 36.2 | 116 |
| 24CZ2-45-UNV-L835-CD1-U | 4618 | 42.9 | 108 |
| 24CZ2-50-UNV-L835-CD1-U | 5015 | 48.6 | 103 |
| 24CZ2-55-UNV-L835-CD1-U | 5571 | 50.5 | 110 |
| 24CZ2-60-UNV-L835-CD1-U | 6042 | 55.6 | 109 |
| 24CZ2-65-UNV-L835-CD1-U | 6572 | 62.8 | 105 |

High Efficacy Versions – Two Rows of LEDs

| Catalog Number | Lumens | Watts | lm/W |
|---------------------------|--------|-------|------|
| 24CZ2-30HE-UNV-L835-CD1-U | 3014 | 22.4 | 135 |
| 24CZ2-35HE-UNV-L835-CD1-U | 3583 | 26.9 | 133 |
| 24CZ2-40HE-UNV-L835-CD1-U | 4029 | 30.6 | 132 |
| 24CZ2-45HE-UNV-L835-CD1-U | 4582 | 35.3 | 130 |
| 24CZ2-50HE-UNV-L835-CD1-U | 5021 | 38.6 | 130 |
| 24CZ2-55HE-UNV-L835-CD1-U | 5564 | 43.5 | 128 |
| 24CZ2-60HE-UNV-L835-CD1-U | 6011 | 44.1 | 136 |
| 24CZ2-65HE-UNV-L835-CD1-U | 6590 | 48.9 | 135 |
| 24CZ2-70HE-UNV-L835-CD1-U | 7018 | 51.0 | 138 |
| 24CZ2-75HE-UNV-L835-CD1-U | 7572 | 55.4 | 137 |

Very High Efficacy Versions – Three Rows of LEDs

| Catalog Number | Lumens | Watts | lm/W |
|-----------------------------|--------|-------|------|
| 24CZ2-30VHE-UNV-L835-CD1-U | 3011 | 20.4 | 148 |
| 24CZ2-35VHE-UNV-L835-CD1-U | 3526 | 22.8 | 155 |
| 24CZ2-40VHE-UNV-L835-CD1-U | 4042 | 26.2 | 154 |
| 24CZ2-45VHE-UNV-L835-CD1-U | 4559 | 29.6 | 154 |
| 24CZ2-50VHE-UNV-L835-CD1-U | 5064 | 32.7 | 155 |
| 24CZ2-55VHE-UNV-L835-CD1-U | 5570 | 36.1 | 154 |
| 24CZ2-60VHE-UNV-L835-CD1-U | 6055 | 38.7 | 157 |
| 24CZ2-65VHE-UNV-L835-CD1-U | 6565 | 42.2 | 156 |
| 24CZ2-70VHE-UNV-L835-CD1-U | 7059 | 45.7 | 155 |
| 24CZ2-75VHE-UNV-L835-CD1-U | 7662 | 49.9 | 154 |
| 24CZ2-80VHE-UNV-L835-CD1-U | 8128 | 53.8 | 151 |
| 24CZ2-85VHE-UNV-L835-CD1-U | 8600 | 57.9 | 149 |
| 24CZ2-90VHE-UNV-L835-CD1-U | 9053 | 61.8 | 147 |
| 24CZ2-95VHE-UNV-L835-CD1-U | 9521 | 65.6 | 145 |
| 24CZ2-100VHE-UNV-L835-CD1-U | 10191 | 69.6 | 146 |
| 24CZ2-110VHE-UNV-L835-CD2-U | 11098 | 77.4 | 143 |
| 24CZ2-120VHE-UNV-L835-CD2-U | 12211 | 83.6 | 146 |
| 24CZ2-130VHE-UNV-L835-CD2-U | 13271 | 90.7 | 146 |
| 24CZ2-150VHE-UNV-L835-CD2-U | 15006 | 104.2 | 144 |
| 24CZ2-170VHE-UNV-L835-CD2-U | 17021 | 123.4 | 138 |

Shielding

| Lumen Adjustment Factors | | | |
|--------------------------|------|------|------|
| S | RDP | HRP | SQR |
| 1.05 | 0.67 | 0.81 | 0.96 |

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

24CZ2-40-UNV-L835-CD1-U at 90CRI at 3500K

Lumen Adjustment Factor = 0.845

Total Light Output =

4,196 lm x 0.845 = 3,546 lm

Efficacy = $\frac{3,546 \text{ lm}}{36.2 \text{ W}}$ = 98 lm/W

Lumen Maintenance

| Version | TM-21 Lumen Maintenance (60,000 hours) ⁽¹⁾ | Theoretical L70 (Hours) ⁽²⁾ |
|----------------------|---|--|
| Standard | > 87% | > 162,000 |
| High Efficiency | > 94% | > 290,000 |
| Very High Efficiency | > 94% | > 290,000 |

Notes: (1) Supported by IES TM-21 standards. (2) 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.

Load Data (Stock Product)

| | |
|-----------------|-------|
| Thd | 6% |
| Power Factor | 0.99 |
| Weight (lbs.) | 16 |
| Low Temp. Start | -20°C |

Shipping Data

| Catalog No. | Wt. | Pallet 49"L x 52"W x 46"H |
|-------------|-----------|------------------------------|
| 2' x 4' | 20.4 lbs. | 28 |

Air Return Volume

| Negative Static Pressure (Inches H ₂ O) | Return Air Volume (CFM) |
|--|-------------------------|
| 0.05 | 75 |
| 0.1 | 103 |
| 0.2 | 153 |
| 0.25 | 177 |
| 0.3 | 191 |
| 0.45 | 234 |

Control Systems

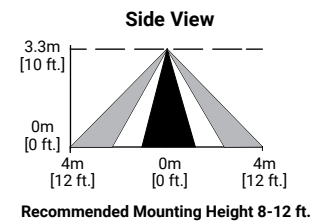
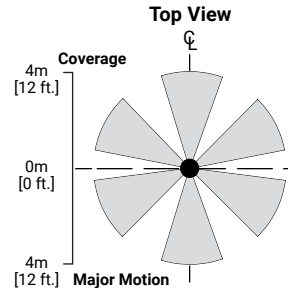
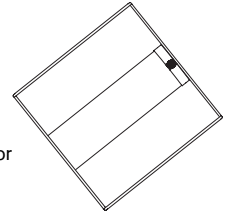
- WaveLinx
- DLVP
- Enlighted
- iLumin Plus
- VividTune

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.



Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended.

Systems comparison chart

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

| | Distributed Low-Voltage Power System | WaveLinx | Enlighted |
|--|--------------------------------------|------------------|-----------|
| Space type | Interior | Interior/Outdoor | Any |
| Stand-alone or Network | Stand-alone | Both | Network |
| Need-based feature progression | | | |
| Basic compliance only | ● | ● | ● |
| Occupancy sensing | ● | ● | ● |
| Daylight harvesting | ● | ● | ● |
| Zone control | ● | ● | ● |
| Scheduling | ● | ● | ● |
| 0-10V dimming | ● | ● | ● |
| Individual fixture control | ● | ● | ● |
| Retrofit+Building Integration | ● | ● | ● |
| Total wireless connectivity | | ● | ● |
| A/V integration | | ● | ● |
| BMS integration | | ● | ● |
| UI options (touchscreen, apps, etc.) | | ● | ● |
| Enterprise level building integration | | ● | ● |
| Facility management & tools | | ● | ● |
| Floor plan & reporting tools | | | ● |
| Value-added services | | | ● |
| Asset tracking | | | ● |
| API integration | | ● | ● |
| Analytics/higher problem solving | | | ● |

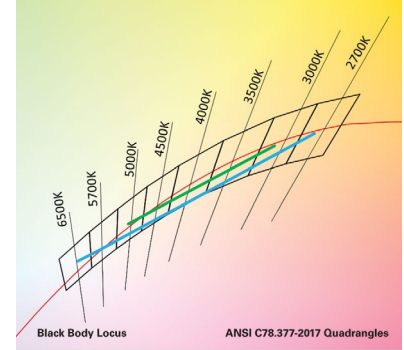


Connected Systems
[CLICK HERE](#)



24 Cruze ST LED 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.



3000K - 5000K
2700K - 6500K

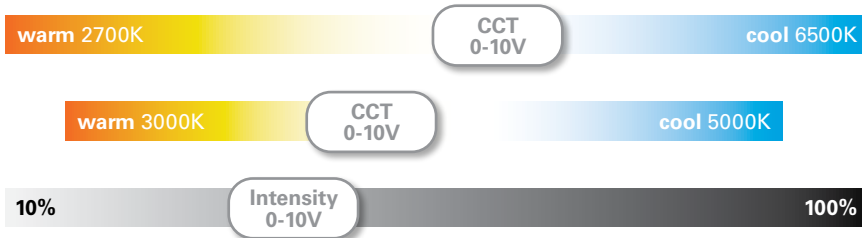
Performance Data*

| Tunable White - Lumen Adjustment Factors | | | | |
|--|-------------|--------|-------------|--------|
| CCT | 3000K-5000K | | 2700K-6500K | |
| | 80 CRI | 90 CRI | 80 CRI | 90 CRI |
| 2700K | - | - | 0.878 | 0.750 |
| 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' Cruze ST LED - Example of Approximate Lumen Calculation | | | |
|---|----------------------------------|-------------------------------------|-------------------------------------|
| | Standard Catalog # | VividTune 80 CRI Catalog # | VividTune 90 CRI Catalog # |
| CCT Setting | 24CZ2-40HE-UNV-L835-CD1-U | 24CZ2-40HE-UNV-L83050-W2A1-U | 24CZ2-40HE-UNV-L93050-W2A1-U |
| 3000K | - | 3641 | 2998 |
| 3500K | 4029 | 3853 | 3275 |
| 4000K | - | 4046 | 3537 |
| 4500K | - | 4084 | 3599 |
| 5000K | - | 4084 | 3599 |

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.cooperlighting.com for tunable white application guides.



Example of Lumen Adjustment Calculation

24CZ2-40HE-UNV-L83050-W2A1-U at 80 CRI tuned to 3500K

Adjusted Lumen = published lm x adjusted lm factor

Adjusted Lumen = 4029 x 0.956

Adjusted Lumen = 3853 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.*