

The following documentation is an electronicallysubmitted vendor response to an advertised solicitation from the West Virginia Purchasing Bulletin within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.



| Proc Folder : 453736 <br>  <br> Solicitation Description : Addendum 1 - LED Light Fixtures and Accessories <br> Proc Type : Central Purchase Order |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Date issued | Solicitation Closes | Solicitation Response | Version |
|  | $2018-06-12$ | SR $\quad 0211$ ESR06121800000005834 | 1 |

VENDOR
000000200158
WV ELECTRIC SUPPLY CO

Solicitation Number: CRFQ 0211 GSD1800000021

Total Bid : \$114,671.50 Response Date: 2018-06-12 Response Time: 08:45:07

## Comments:

FOR INFORMATION CONTACT THE BUYER
Linda B Harper
(304) 558-0468
linda.b.harper@wv.gov

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | Light emitting diode LED fixture | 1380.00000 | EA | $\$ 71.650000$ | $\$ 98,877.00$ |


| Comm Code | Manufacturer | Specification |
| :--- | :--- | :--- |
| 39111544 |  |  |
| Extended Description : | HOLOPHANE /ACUITY TROFFER LIGHT FIXTURE LED <br> Part No. HVT 2x4 DOP 3900LM 35K MVOLT MIN10 80CRI ZT JP10, or equal |  |

Comments: METALUX
24CZ-LD5-40SE-S-UNV-L835-CD1-PALC
SPECIFICATION SHEET ATTACHED

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | Light emitting diode LED fixture | 35.00000 | EA | $\$ 187.400000$ | $\$ 6,559.00$ |


| Comm Code | Manufacturer | Specification |
| :--- | :--- | :--- |
| 39111544 |  |  |

Extended Description : HOLOPHANE/ ACUITY TROFFER LIGHT FIXTURE LED- EMERGENCY w/ BATTERY Part No. HVT $2 \times 4$ DOP 3900LM 35K MVOLT MIN10 80CRI ZT BR JP10, or equal

Comments: METALUX
24CZ-LD5-40SE-S-UNV-EL7W-L835-CD1-PALC SPECIFICATION SHEET ATTACHED

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | Light emitting diode LED fixture | 65.00000 | EA | $\$ 59.200000$ | $\$ 3,848.00$ |


| Comm Code | Manufacturer | Specification |
| :--- | :---: | :---: |
| 39111544 |  | Model \# |

Extended Description : HOLOPHANE/ACUITY TROFFER LIGHT FIXTURE LED
Part No. HVT 2x2 DOP 3900LM 35K MVOLT MIN10 80CRI ZT JP 10, or equal

Comments: METALUX
22CZ-LD5-39E-A-UNV-L835-CD1-PALC SPECIFICATION SHEET ATTACHED

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 4 | Interior lighting fixtures and <br> accessories | 350.00000 | EA | $\$ 3.200000$ | $\$ 1,120.00$ |


| Comm Code | Manufacturer |
| :--- | :--- |
| 39111500 | Specification |
| Extended Description : | HOLOPHANE FIXTURE EARTH QUAKE STABILITY CLIPS <br> Part No. 2x4 EC EARTHQUAKE CLIPS (PACKAGE OF 4), or equal |

Comments: METALUX
EQ-CLIP-U
SPECIFICATION SHEET ATTACHED

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5 | Interior lighting fixtures and <br> accessories | 150.00000 | EA | $\$ 28.450000$ | $\$ 4,267.50$ |


| Comm Code | Manufacturer |
| :--- | :--- |
| 39111500 | Specification |
| Extended Description: | HOLOPHANE / ACUITY dimming and OCUPANCY SENSOR WALL SWITCH <br> Part No. WSX PDT D WH <br> $(120 / 277 \mathrm{~V})$ |

Comments: COOPER LIGHTING GROUP
SPECIFICATION SHEET ATTACHED

## ADDENDUM ACKNOWLEDGEMENT FORM <br> SOLICITATION NO.: GSD1800000021

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: Ī hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

## Addendum Numbers Received:

(Check the box next to each addendum received)


I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.


NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised $6 / 8 / 2012$

CERTIFICATE OF LIABILITY INSURANCE
THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY The POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.
IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER <br> AssuredPartners of West Virginia, LLC dba Insurance Systems <br> 1 Insurance Way; PO Box 10 <br> Ona <br> WV 25545 | CONTACT Brenda Kash |  |
| :---: | :---: | :---: |
|  | PHONE <br> (ANC, NO, Ext): (304) 736-2222 FAXX <br> (AUC, No): (304) 302-34  <br> EMAIL,  <br> ADDRESS:  |  |
|  |  |  |
|  | INSURER(S) AFFORDING COVERAGE | NAIC \# |
|  | INSURERA:Westfield Insurance | 24112 |
| insured <br> West Virginia Electric Supply Company <br> PO BOX 6668 | INSURERB BrickStreet Mutual Insurance | 12372 |
|  | INSURER C : |  |
|  | INSURER D: |  |
|  | INSURERE: |  |
| Huntington WV 25773-6668 | INSURER F : |  |

COVERAGES
CERTIFICATE NUMBER:17-18 All Lines
REVISION NUMBER:
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS


DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Evidence of Insurance

CERTIFICATE HOLDER

State of West Virginia
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

## CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE the expiration date thereof, notice will be delivered in ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Tara Shoemaker/TARAS a Dace Shacmeler

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.


CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.
$\frac{\text { W. Va. Electric Supply }}{\text { (compo nine }}$

(Authorized Signature) (Representative Name, Title)

(Printed Name and Title of Authorized Representative)

(Date)

(Phone Number) (Fax Number)

## West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)


Authorized Agent: Jared Colker
Address:


Contract Number: $C R F Q 02 \|$ ESD 18- CCCOO2! $\quad$ Contract Description: LED Light Fixtures ?
Governmental agency awarding contract: Bid derK-Dept. of Admin Accessories
Check here if this is a Supplemental Disclosure
List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entityfindividual names below.
2. Any person or entity who owns $25 \%$ or more of contracting entity (not applicable to publicly traded entities) $\square$ Check here if none, otherwise list entity/individual names below.

Matt Cocks, Lev Corker
3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)
$\square$ Check here if none, otherwise list entity/individual names below.

Signature:


Date Signed:


## Notary Verification

State of $\qquad$ . County of Cabal :
I, Frames 1 Maser $\qquad$ , the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this $\qquad$ day of $\qquad$ 2018. 7 sames 4 Hi wren

Notary Public's Signature
To be completed by State Agency:

## Date Received by State Agency: <br> Date submitted to Ethics Commission:

Governmental agency submitting Disclosure:

## STATE OF WEST VIRGINIA Purchasing Division <br> PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL OTHER CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

## DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.
"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W . Va. Code $\S 23-2 \mathrm{c}-2$, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.
"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code $\S 61-5-3$ ) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:
Vendor's Name:
 Date:


Authorized Signature:
State of West Virgin
County of Cabeel , to-wit:
Taken, subscribed, and sworn to before me this II day of June_, 20i8.
My Commission expires Gan 3,2021 , 2021.

|  |  |  |  |  |  |  |  | Catalog Number: |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
|  | Job Name: <br>  <br> 34 GSD1800000021 | 24CZ-LDS5-40SE-S-UNV-L835-CD1- <br> PALC <br> Notes: |  |  |  |  |  |  |

Metalux

## DESCRIPTION

Cruze LED is a specification lensed troffer series. This high quality luminaire is dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency. The Cruze is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The Cruze series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.


## SPECIFICATION FEATURES

## Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Endplates have integral Grid-lock feature for safety and convenience.

## Controls

The Cruze LED is Powered by Fifth Light, with a standard 0-10V continuous dimming driver that works with any $0-10 \mathrm{~V}$ control/ dimmer. Combine with energy saving products like occupancy sensors, daylighting controls and lighting relay panels to maximize energy savings. In addition, the Cruze can include a factoryinstalled integrated sensor system for occupancy and daylight dimming control and manual control from an optional handheld remote. Or, specify the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to $10 \%$, for use with Fifth Light
controls. See ordering information for details on all three options.

## Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in $3000 \mathrm{~K}, 3500 \mathrm{~K}, 4000 \mathrm{~K}$ or 5000 K with a minimum CRI of 80 . Projected life is 60,000 hours at $80 \%$ lumen output. cULus listed. Electronic drivers are available for $120-277 \mathrm{~V}$ and 347 V applications.

Emergency Battery Pack Option Optional 120 v -277v integral emergency battery pack is available in 7 -watts or 14-watts to meet critical life-safety lighting requirements. The $90-$ minute batteries provide constant power to the LED system, ensuring codecompliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

## Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing finished with 90\%
reflective white enamel for superior performance.

## Hinging/Latching

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.

## Frame/Sheilding

Die formed, heavy gauge, flat steel door with reinforced mitered corners and painted after fabrication, baked matte white enamel finish. Positive light seals. Acrylic frosted lens.

## Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for $25^{\circ} \mathrm{C}$ ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Warranty
Five year warranty.


2' X 4' TROFFER LED MODULE

Specification Grade Troffer



## CERTIFICATION DATA

cULus-1598
Damp Location Listed IC Rated LM79/LM80 Compliant ROHS Compliant DesignLights Consortium ${ }^{\circledR}$ Qualified NOM Compliant
*See Drywall Frame Kit Accessory in Ordering Information Section

## LINEAR DISCONNECT

Safe and convenient means of disconnecting power

PS519142EN
1-9-2018



ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

| Stock or MTO* | Catalog Logic (Ribbed Lens) | Delivered Lumens | Watts | Efficacy (Im/W) | Stock or MTO* | Catalog Logic (Ribbed Lens) | Delivered Lumens | Watts | Efficacy <br> ( $\mathrm{Im} / \mathrm{W}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MTO | 24CZ-LD5-30-UNV-L830-CD1-U | 2833 | 21.6 | 131 | MTO | 24CZ-LD5-30SE-UNV-L830-CD1-U | 2878 | 23.5 | 122 |
| MTO | 24CZ-LD5-30-UNV-L835-CD1-U | 3010 | 21.6 | 139 | STOCK | 24CZ-LD5-30SE-UNV-L835-CD1-U | 3057 | 23.5 | 130 |
| MTO | 24CZ-LD5-30-UNV-L840-CD1-U | 3070 | 21.6 | 142 | STOCK | 24CZ-LD5-30SE-UNV-L840-CD1-U | 3118 | 23.5 | 133 |
| MTO | 24CZ-LD5-30-UNV-L850-CD1-U | 3321 | 21.6 | 154 | MTO | 24CZ-LD5-30SE-UNV-L850-CD1-U | 3373 | 23.5 | 144 |
| MTO | 24CZ-LD5-35-UNV-L830-CD1-U | 3289 | 25.3 | 130 | MTO | 24CZ-LD5-35SE-UNV-L830-CD1-U | 3324 | 28.6 | 116 |
| MTO | 24CZ-LD5-35-UNV-L835-CD1-U | 3494 | 25.3 | 138 | STOCK | 24CZ-LD5-35SE-UNV-L835-CD1-U | 3531 | 28.6 | 124 |
| MTO | 24CZ-LD5-35-UNV-L840-CD1-U | 3564 | 25.3 | 141 | STOCK | 24CZ-LD5-35SE-UNV-L840-CD1-U | 3602 | 28.6 | 126 |
| MTO | 24CZ-LD5-35-UNV-L850-CD1-U | 3855 | 25.3 | 152 | MTO | 24CZ-LD5-35SE-UNV-L850-CD1-U | 3896 | 28.6 | 136 |
| MTO | 24CZ-LD5-40-UNV-L830-CD1-U | 3731 | 29.0 | 128 | MTO | 24CZ-LD5-40SE-UNV-L830-CD1-U | 3783 | 32.6 | 116 |
| STOCK | 24CZ-LD5-40-UNV-L835-CD1-U | 3964 | 29.0 | 137 | STOCK | 24CZ-LD5-40SE-UNV-L835-CD1-U | 4019 | 32.6 | 123 |
| STOCK | 24CZ-LD5-40-UNV-L840-CD1-U | 4043 | 29.0 | 139 | STOCK | 24CZ-LD5-40SE-UNV-L840-CD1-U | 4099 | 32.6 | 126 |
| MTO | 24CZ-LD5-40-UNV-L850-CD1-U | 4374 | 29.0 | 151 | MTO | 24CZ-LD5-40SE-UNV-L850-CD1-U | 4434 | 32.6 | 136 |
| MTO | 24CZ-LD5-45-UNV-L830-CD1-U | 4207 | 35.7 | 118 | MTO | 24CZ-LD5-45SE-UNV-L830-CD1-U | 4304 | 39.9 | 108 |
| MTO | 24CZ-LD5-45-UNV-L835-CD1-U | 4469 | 35.7 | 125 | STOCK | 24CZ-LD5-45SE-UNV-L835-CD1-U | 4572 | 39.9 | 115 |
| MTO | 24CZ-LD5-45-UNV-L840-CD1-U | 4558 | 35.7 | 128 | STOCK | 24CZ-LD5-45SE-UNV-L840-CD1-U | 4663 | 39.9 | 117 |
| MTO | 24CZ-LD5-45-UNV-L850-CD1-U | 4931 | 35.7 | 138 | MTO | 24CZ-LD5-45SE-UNV-L850-CD1-U | 5044 | 39.9 | 126 |
| MTO | 24CZ-LD5-50-UNV-L830-CD1-U | 4695 | 40.7 | 115 | MTO | 24CZ-LD5-50SE-UNV-L830-CD1-U | 4788 | 46.6 | 103 |
| STOCK | 24CZ-LD5-50-UNV-L835-CD1-U | 4988 | 40.7 | 123 | STOCK | 24CZ-LD5-50SE-UNV-L835-CD1-U | 5086 | 46.6 | 109 |
| STOCK | 24CZ-LD5-50-UNV-L840-CD1-U | 5088 | 40.7 | 125 | STOCK | 24CZ-LD5-50SE-UNV-L840-CD1-U | 5188 | 46.6 | 111 |
| MTO | 24CZ-LD5-50-UNV-L850-CD1-U | 5503 | 40.7 | 135 | MTO | 24CZ-LD5-50SE-UNV-L850-CD1-U | 5612 | 46.6 | 121 |
| MTO | 24CZ-LD5-55-UNV-L830-CD1-U | 5181 | 45.8 | 113 | MTO | 24CZ-LD5-55SE-UNV-L830-CD1-U | 5216 | 54.7 | 95 |
| MTO | 24CZ-LD5-55-UNV-L835-CD1-U | 5504 | 45.8 | 120 | MTO | 24CZ-LD5-55SE-UNV-L835-CD1-U | 5541 | 54.7 | 101 |
| MTO | 24CZ-LD5-55-UNV-L840-CD1-U | 5614 | 45.8 | 123 | MTO | 24CZ-LD5-55SE-UNV-L840-CD1-U | 5652 | 54.7 | 103 |
| MTO | 24CZ-LD5-55-UNV-L850-CD1-U | 6073 | 45.8 | 133 | MTO | 24CZ-LD5-55SE-UNV-L850-CD1-U | 6114 | 54.7 | 112 |
| MTO | 24CZ-LD5-60-UNV-L830-CD1-U | 5741 | 52.2 | 110 | MTO | 24CZ-LD5-60SE-UNV-L830-CD1-U | 5611 | 60.0 | 94 |
| MTO | 24CZ-LD5-60-UNV-L835-CD1-U | 6099 | 52.2 | 117 | MTO | 24CZ-LD5-60SE-UNV-L835-CD1-U | 5961 | 60.0 | 99 |
| MTO | 24CZ-LD5-60-UNV-L840-CD1-U | 6221 | 52.2 | 119 | MTO | 24CZ-LD5-60SE-UNV-L840-CD1-U | 6080 | 60.0 | 101 |
| MTO | 24CZ-LD5-60-UNV-L850-CD1-U | 6729 | 52.2 | 129 | MTO | 24CZ-LD5-60SE-UNV-L850-CD1-U | 6577 | 60.0 | 110 |
| MTO | 24CZ-LD5-65-UNV-L830-CD1-U | 6193 | 57.6 | 107 | MTO | 24CZ-LD5-65SE-UNV-L830-CD1-U | 6154 | 59.6 | 103 |
| MTO | 24CZ-LD5-65-UNV-L835-CD1-U | 6579 | 57.6 | 114 | MTO | 24CZ-LD5-65SE-UNV-L835-CD1-U | 6537 | 59.6 | 110 |
| MTO | 24CZ-LD5-65-UNV-L840-CD1-U | 6711 | 57.6 | 116 | MTO | 24CZ-LD5-65SE-UNV-L840-CD1-U | 6668 | 59.6 | 112 |
| MTO | 24CZ-LD5-65-UNV-L850-CD1-U | 7259 | 57.6 | 126 | MTO | 24CZ-LD5-65SE-UNV-L850-CD1-U | 7213 | 59.6 | 121 |

*Made to order (MTO) requires a typical three week lead time.

Powering Business Worldwide
Eaton
1121 Highway 74 South
Peachtree City, GA 30269 P: 770-486-4800


ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

| Stock or MTO* | Catalog Logic (Smooth Lens) | Delivered Lumens | Watts | Efficacy <br> (Im/W) | Stock or MTO* | Catalog Logic (Smooth Lens) | Delivered Lumens | Watts | Efficacy (Im/W) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MTO | 24CZ-LD5-30-S-UNV-L830-CD1-U | 2890 | 21.6 | 134 | MTO | 24CZ-LD5-30SE-S-UNV-L830-CD1-U | 2935 | 23.5 | 125 |
| MTO | 24CZ-LD5-30-S-UNV-L835-CD1-U | 3070 | 21.6 | 142 | MTO | 24CZ-LD5-30SE-S-UNV-L835-CD1-U | 3118 | 23.5 | 133 |
| MTO | 24CZ-LD5-30-S-UNV-L840-CD1-U | 3132 | 21.6 | 145 | MTO | 24CZ-LD5-30SE-S-UNV-L840-CD1-U | 3181 | 23.5 | 135 |
| MTO | 24CZ-LD5-30-S-UNV-L850-CD1-U | 3387 | 21.6 | 157 | MTO | 24CZ-LD5-30SE-S-UNV-L850-CD1-U | 3440 | 23.5 | 146 |
| MTO | 24CZ-LD5-35-S-UNV-L830-CD1-U | 3355 | 25.3 | 132 | MTO | 24CZ-LD5-35SE-S-UNV-L830-CD1-U | 3390 | 28.6 | 119 |
| MTO | 24CZ-LD5-35-S-UNV-L835-CD1-U | 3564 | 25.3 | 141 | MTO | 24CZ-LD5-35SE-S-UNV-L835-CD1-U | 3602 | 28.6 | 126 |
| MTO | 24CZ-LD5-35-S-UNV-L840-CD1-U | 3635 | 25.3 | 144 | MTO | 24CZ-LD5-35SE-S-UNV-L840-CD1-U | 3674 | 28.6 | 129 |
| MTO | 24CZ-LD5-35-S-UNV-L850-CD1-U | 3932 | 25.3 | 155 | MTO | 24CZ-LD5-35SE-S-UNV-L850-CD1-U | 3974 | 28.6 | 139 |
| MTO | 24CZ-LD5-40-S-UNV-L830-CD1-U | 3806 | 29.0 | 131 | MTO | 24CZ-LD5-40SE-S-UNV-L830-CD1-U | 3859 | 32.6 | 119 |
| MTO | 24CZ-LD5-40-S-UNV-L835-CD1-U | 4043 | 29.0 | 139 | MTO | 24CZ-LD5-40SE-S-UNV-L835-CD1-U | 4099 | 32.6 | 126 |
| MTO | 24CZ-LD5-40-S-UNV-L840-CD1-U | 4124 | 29.0 | 142 | MTO | 24CZ-LD5-40SE-S-UNV-L840-CD1-U | 4181 | 32.6 | 128 |
| MTO | 24CZ-LD5-40-S-UNV-L850-CD1-U | 4461 | 29.0 | 154 | MTO | 24CZ-LD5-40SE-S-UNV-L850-CD1-U | 4523 | 32.6 | 139 |
| MTO | 24CZ-LD5-45-S-UNV-L830-CD1-U | 4291 | 35.7 | 120 | MTO | 24CZ-LD5-45SE-S-UNV-L830-CD1-U | 4390 | 39.9 | 110 |
| MTO | 24CZ-LD5-45-S-UNV-L835-CD1-U | 4558 | 35.7 | 128 | MTO | 24CZ-LD5-45SE-S-UNV-L835-CD1-U | 4663 | 39.9 | 117 |
| MTO | 24CZ-LD5-45-S-UNV-L840-CD1-U | 4650 | 35.7 | 130 | MTO | 24CZ-LD5-45SE-S-UNV-L840-CD1-U | 4757 | 39.9 | 119 |
| MTO | 24CZ-LD5-45-S-UNV-L850-CD1-U | 5029 | 35.7 | 141 | MTO | 24CZ-LD5-45SE-S-UNV-L850-CD1-U | 5145 | 39.9 | 129 |
| MTO | 24CZ-LD5-50-S-UNV-L830-CD1-U | 4789 | 40.7 | 118 | MTO | 24CZ-LD5-50SE-S-UNV-L830-CD1-U | 4883 | 46.6 | 105 |
| MTO | 24CZ-LD5-50-S-UNV-L835-CD1-U | 5088 | 40.7 | 125 | MTO | 24CZ-LD5-50SE-S-UNV-L835-CD1-U | 5188 | 46.6 | 111 |
| MTO | 24CZ-LD5-50-S-UNV-L840-CD1-U | 5190 | 40.7 | 128 | MTO | 24CZ-LD5-50SE-S-UNV-L840-CD1-U | 5291 | 46.6 | 114 |
| MTO | 24CZ-LD5-50-S-UNV-L850-CD1-U | 5614 | 40.7 | 138 | MTO | 24CZ-LD5-50SE-S-UNV-L850-CD1-U | 5724 | 46.6 | 123 |
| MTO | 24CZ-LD5-55-S-UNV-L830-CD1-U | 5285 | 45.8 | 115 | MTO | 24CZ-LD5-55SE-S-UNV-L830-CD1-U | 5320 | 54.7 | 97 |
| MTO | 24CZ-LD5-55-S-UNV-L835-CD1-U | 5614 | 45.8 | 123 | MTO | 24CZ-LD5-55SE-S-UNV-L835-CD1-U | 5652 | 54.7 | 103 |
| MTO | 24CZ-LD5-55-S-UNV-L840-CD1-U | 5726 | 45.8 | 125 | MTO | 24CZ-LD5-55SE-S-UNV-L840-CD1-U | 5765 | 54.7 | 105 |
| MTO | 24CZ-LD5-55-S-UNV-L850-CD1-U | 6194 | 45.8 | 135 | MTO | 24CZ-LD5-55SE-S-UNV-L850-CD1-U | 6236 | 54.7 | 114 |
| MTO | 24CZ-LD5-60-S-UNV-L830-CD1-U | 5856 | 52.2 | 112 | MTO | 24CZ-LD5-60SE-S-UNV-L830-CD1-U | 5724 | 60.0 | 95 |
| MTO | 24CZ-LD5-60-S-UNV-L835-CD1-U | 6221 | 52.2 | 119 | MTO | 24CZ-LD5-60SE-S-UNV-L835-CD1-U | 6080 | 60.0 | 101 |
| MTO | 24CZ-LD5-60-S-UNV-L840-CD1-U | 6345 | 52.2 | 122 | MTO | 24CZ-LD5-60SE-S-UNV-L840-CD1-U | 6202 | 60.0 | 103 |
| MTO | 24CZ-LD5-60-S-UNV-L850-CD1-U | 6864 | 52.2 | 132 | MTO | 24CZ-LD5-60SE-S-UNV-L850-CD1-U | 6709 | 60.0 | 112 |
| MTO | 24CZ-LD5-65-S-UNV-L830-CD1-U | 6317 | 57.6 | 110 | MTO | 24CZ-LD5-65SE-S-UNV-L830-CD1-U | 6277 | 59.6 | 105 |
| MTO | 24CZ-LD5-65-S-UNV-L835-CD1-U | 6711 | 57.6 | 116 | MTO | 24CZ-LD5-65SE-S-UNV-L835-CD1-U | 6668 | 59.6 | 112 |
| MTO | 24CZ-LD5-65-S-UNV-L840-CD1-U | 6845 | 57.6 | 119 | MTO | 24CZ-LD5-65SE-S-UNV-L840-CD1-U | 6801 | 59.6 | 114 |
| MTO | 24CZ-LD5-65-S-UNV-L850-CD1-U | 7404 | 57.6 | 128 | MTO | 24CZ-LD5-65SE-S-UNV-L850-CD1-U | 7357 | 59.6 | 123 |

*Made to order (MTO) requires a typical three week lead time.

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

Catalog Number:
24CZ-LD5-40SE-S-UNV-L835-CD1PALC
Notes:

## LINE1

LUMEN MAINTENANCE

| Ambient <br> Temperature | TM-21 Lumen <br> Maintenance <br> $(60,000$ hours) | Theoretical <br> L70 <br> (Hours) |
| :---: | :---: | :---: |
| $25^{\circ} \mathrm{C}$ | $>80 \%$ | $>186,000$ |

90 CRI

| Lumen Adjustment Factors $\mathbf{8 0} \mathbf{- > 9 0} \mathbf{C R I}$ |  |
| :---: | :---: |
| 3000 K | 0.88 |
| 3500 K | 0.861 |
| 4000 K | 0.865 |
| 5000 K | 0.87 |

Example of Lumen Adjustment Calculation

24CZ-LD5-40-UNV-L835-CD1-U at 90 CRI at 3500 K

Lumen Adjustment Factor $=0.861$
Total Light Output $=$ $3,964 \mathrm{Im} \times 0.861=3,413 \mathrm{~lm}$

Efficacy $=\frac{3,413 \mathrm{Im}}{29 \mathrm{~W}}=117.6 \mathrm{Im} / \mathrm{W}$
ORDERING INFORMATION
SAMPLE NUMBER: 24CZ-LD5-45-UNV-L835-CD1-U



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. ${ }^{(33)}$ 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 ( $100 \mathrm{Im} / \mathrm{W} \times 7=700 \mathrm{lumens}$ ). IES-format photometry for luminaire under ${ }^{(5)}$ Integral sensor works with $C D$ and HCD drivers and is factory prewired to the driver for stand-alone control. ${ }^{(6)}$ Step dim driver option is not available with $3000,3500,4000,7000$ and 7500 lumen packages and 3000 SE, 3500 SE, 6000 SE and 6500 SE versions. ${ }^{(1)}$ Fifth Light (5LTD) driver option is not available with 3000,3500 and 4000 lumen packages and 3000 SE and 3500 SE versions. ${ }^{(8)}$ Provides blank band on opposite side from sensor band to provide symmetric appearance. ${ }^{(9)} 347 \mathrm{~V}$ versions are not available with emergency options. 347 V driver option requires two drivers with 7000 and 7500 lumen packages. SD, $5 L T D$, and SR drivers with 347 V are available but not DLC qualified. (10) Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating
under emergency power. ${ }^{(11)}$ Must be used in conjunction with a LumaWattPro control system. For complete LumaWatt Pro wireless solutions, visit www.eaton.com/umawattpro. ${ }^{(12)}$ SR driver compatible with LWI option ${ }^{\text {only. }}{ }^{(13)}$ LWT compatible with CD and HCD drivers only. ${ }^{(14)}$ LWT sensor is external to luminaire, cable factory wired. ${ }^{(15)}$ Made-to-order (MTO) requires a typical three week leadtime. ${ }^{161}$ DesignLights Consortium $®$ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
Specifications \& dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.
SHIPPING DATA

| Catalog No. | Wt. |
| :--- | :--- |
| 24CZ-LD5-45 | 20.5 Ibs. |
| 24CZ-LD5-55 | 20.5 Ibs. | www.eaton.com/lighting



## How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.


Side View



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


Metalux

## DESCRIPTION

Cruze LED is a specification lensed troffer series. This high quality luminaire is dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency. The Cruze is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The Cruze series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.


## SPECIFICATION FEATURES

## Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Endplates have integral Grid-lock feature for safety and convenience.

## Controls

The Cruze LED is Powered by Fifth Light, with a standard 0-10V continuous dimming driver that works with any $0-10 \mathrm{~V}$ control/ dimmer. Combine with energy saving products like occupancy sensors, daylighting controls and lighting relay panels to maximize energy savings. In addition, the Cruze can include a factoryinstalled integrated sensor system for occupancy and daylight dimming control and manual control from an optional handheld remote. Or, specify the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to $10 \%$, for use with Fifth Light
controls. See ordering information for details on all three options.

## Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in $3000 \mathrm{~K}, 3500 \mathrm{~K}, 4000 \mathrm{~K}$ or 5000 K with a minimum CRI of 80 . Projected life is 60,000 hours at $80 \%$ lumen output. cULus listed. Electronic drivers are available for $120-277 \mathrm{~V}$ and 347 V applications.

Emergency Battery Pack Option Optional 120 v -277v integral emergency battery pack is available in 7 -watts or 14-watts to meet critical life-safety lighting requirements. The $90-$ minute batteries provide constant power to the LED system, ensuring codecompliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

## Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing finished with 90\%
reflective white enamel for superior performance.

## Hinging/Latching

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.

## Frame/Sheilding

Die formed, heavy gauge, flat steel door with reinforced mitered corners and painted after fabrication, baked matte white enamel finish. Positive light seals. Acrylic frosted lens.

## Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for $25^{\circ} \mathrm{C}$ ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium® ${ }^{\circledR}$ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Warranty
Five year warranty.


2' X 4' TROFFER LED MODULE

Specification Grade Troffer



## CERTIFICATION DATA

cULus-1598
Damp Location Listed IC Rated LM79/LM80 Compliant ROHS Compliant DesignLights Consortium ${ }^{\circledR}$ Qualified NOM Compliant
*See Drywall Frame Kit Accessory in Ordering Information Section

## LINEAR DISCONNECT

Safe and convenient means of disconnecting power

PS519142EN
1-9-2018



ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

| Stock or MTO* | Catalog Logic (Ribbed Lens) | Delivered Lumens | Watts | Efficacy (lm/W) | Stock or MTO* | Catalog Logic (Ribbed Lens) | Delivered Lumens | Watts | Efficacy <br> (Im/W) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MTO | 24CZ-LD5-30-UNV-L830-CD1-U | 2833 | 21.6 | 131 | MTO | 24CZ-LD5-30SE-UNV-L830-CD1-U | 2878 | 23.5 | 122 |
| MTO | 24CZ-LD5-30-UNV-L835-CD1-U | 3010 | 21.6 | 139 | STOCK | 24CZ-LD5-30SE-UNV-L835-CD1-U | 3057 | 23.5 | 130 |
| MTO | 24CZ-LD5-30-UNV-L840-CD1-U | 3070 | 21.6 | 142 | STOCK | 24CZ-LD5-30SE-UNV-L840-CD1-U | 3118 | 23.5 | 133 |
| MTO | 24CZ-LD5-30-UNV-L850-CD1-U | 3321 | 21.6 | 154 | MTO | 24CZ-LD5-30SE-UNV-L850-CD1-U | 3373 | 23.5 | 144 |
| MTO | 24CZ-LD5-35-UNV-L830-CD1-U | 3289 | 25.3 | 130 | MTO | 24CZ-LD5-35SE-UNV-L830-CD1-U | 3324 | 28.6 | 116 |
| MTO | 24CZ-LD5-35-UNV-L835-CD1-U | 3494 | 25.3 | 138 | STOCK | 24CZ-LD5-35SE-UNV-L835-CD1-U | 3531 | 28.6 | 124 |
| MTO | 24CZ-LD5-35-UNV-L840-CD1-U | 3564 | 25.3 | 141 | STOCK | 24CZ-LD5-35SE-UNV-L840-CD1-U | 3602 | 28.6 | 126 |
| MTO | 24CZ-LD5-35-UNV-L850-CD1-U | 3855 | 25.3 | 152 | MTO | 24CZ-LD5-35SE-UNV-L850-CD1-U | 3896 | 28.6 | 136 |
| MTO | 24CZ-LD5-40-UNV-L830-CD1-U | 3731 | 29.0 | 128 | MTO | 24CZ-LD5-40SE-UNV-L830-CD1-U | 3783 | 32.6 | 116 |
| STOCK | 24CZ-LD5-40-UNV-L835-CD1-U | 3964 | 29.0 | 137 | STOCK | 24CZ-LD5-40SE-UNV-L835-CD1-U | 4019 | 32.6 | 123 |
| STOCK | 24CZ-LD5-40-UNV-L840-CD1-U | 4043 | 29.0 | 139 | STOCK | 24CZ-LD5-40SE-UNV-L840-CD1-U | 4099 | 32.6 | 126 |
| MTO | 24CZ-LD5-40-UNV-L850-CD1-U | 4374 | 29.0 | 151 | MTO | 24CZ-LD5-40SE-UNV-L850-CD1-U | 4434 | 32.6 | 136 |
| MTO | 24CZ-LD5-45-UNV-L830-CD1-U | 4207 | 35.7 | 118 | MTO | 24CZ-LD5-45SE-UNV-L830-CD1-U | 4304 | 39.9 | 108 |
| MTO | 24CZ-LD5-45-UNV-L835-CD1-U | 4469 | 35.7 | 125 | STOCK | 24CZ-LD5-45SE-UNV-L835-CD1-U | 4572 | 39.9 | 115 |
| MTO | 24CZ-LD5-45-UNV-L840-CD1-U | 4558 | 35.7 | 128 | STOCK | 24CZ-LD5-45SE-UNV-L840-CD1-U | 4663 | 39.9 | 117 |
| MTO | 24CZ-LD5-45-UNV-L850-CD1-U | 4931 | 35.7 | 138 | MTO | 24CZ-LD5-45SE-UNV-L850-CD1-U | 5044 | 39.9 | 126 |
| MTO | 24CZ-LD5-50-UNV-L830-CD1-U | 4695 | 40.7 | 115 | MTO | 24CZ-LD5-50SE-UNV-L830-CD1-U | 4788 | 46.6 | 103 |
| STOCK | 24CZ-LD5-50-UNV-L835-CD1-U | 4988 | 40.7 | 123 | STOCK | 24CZ-LD5-50SE-UNV-L835-CD1-U | 5086 | 46.6 | 109 |
| STOCK | 24CZ-LD5-50-UNV-L840-CD1-U | 5088 | 40.7 | 125 | STOCK | 24CZ-LD5-50SE-UNV-L840-CD1-U | 5188 | 46.6 | 111 |
| MTO | 24CZ-LD5-50-UNV-L850-CD1-U | 5503 | 40.7 | 135 | MTO | 24CZ-LD5-50SE-UNV-L850-CD1-U | 5612 | 46.6 | 121 |
| MTO | 24CZ-LD5-55-UNV-L830-CD1-U | 5181 | 45.8 | 113 | MTO | 24CZ-LD5-55SE-UNV-L830-CD1-U | 5216 | 54.7 | 95 |
| MTO | 24CZ-LD5-55-UNV-L835-CD1-U | 5504 | 45.8 | 120 | MTO | 24CZ-LD5-55SE-UNV-L835-CD1-U | 5541 | 54.7 | 101 |
| MTO | 24CZ-LD5-55-UNV-L840-CD1-U | 5614 | 45.8 | 123 | MTO | 24CZ-LD5-55SE-UNV-L840-CD1-U | 5652 | 54.7 | 103 |
| MTO | 24CZ-LD5-55-UNV-L850-CD1-U | 6073 | 45.8 | 133 | MTO | 24CZ-LD5-55SE-UNV-L850-CD1-U | 6114 | 54.7 | 112 |
| MTO | 24CZ-LD5-60-UNV-L830-CD1-U | 5741 | 52.2 | 110 | MTO | 24CZ-LD5-60SE-UNV-L830-CD1-U | 5611 | 60.0 | 94 |
| MTO | 24CZ-LD5-60-UNV-L835-CD1-U | 6099 | 52.2 | 117 | MTO | 24CZ-LD5-60SE-UNV-L835-CD1-U | 5961 | 60.0 | 99 |
| MTO | 24CZ-LD5-60-UNV-L840-CD1-U | 6221 | 52.2 | 119 | MTO | 24CZ-LD5-60SE-UNV-L840-CD1-U | 6080 | 60.0 | 101 |
| MTO | 24CZ-LD5-60-UNV-L850-CD1-U | 6729 | 52.2 | 129 | MTO | 24CZ-LD5-60SE-UNV-L850-CD1-U | 6577 | 60.0 | 110 |
| MTO | 24CZ-LD5-65-UNV-L830-CD1-U | 6193 | 57.6 | 107 | MTO | 24CZ-LD5-65SE-UNV-L830-CD1-U | 6154 | 59.6 | 103 |
| MTO | 24CZ-LD5-65-UNV-L835-CD1-U | 6579 | 57.6 | 114 | MTO | 24CZ-LD5-65SE-UNV-L835-CD1-U | 6537 | 59.6 | 110 |
| MTO | 24CZ-LD5-65-UNV-L840-CD1-U | 6711 | 57.6 | 116 | MTO | 24CZ-LD5-65SE-UNV-L840-CD1-U | 6668 | 59.6 | 112 |
| MTO | 24CZ-LD5-65-UNV-L850-CD1-U | 7259 | 57.6 | 126 | MTO | 24CZ-LD5-65SE-UNV-L850-CD1-U | 7213 | 59.6 | 121 |

*Made to order (MTO) requires a typical three week lead time.


24CZ LED
ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

| Stock or MTO* | Catalog Logic (Smooth Lens) | Delivered Lumens | Watts | Efficacy (Im/W) | Stock or MTO* | Catalog Logic (Smooth Lens) | Delivered Lumens | Watts | Efficacy <br> (Im/W) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MTO | 24CZ-LD5-30-S-UNV-L830-CD1-U | 2890 | 21.6 | 134 | MTO | 24CZ-LD5-30SE-S-UNV-L830-CD1-U | 2935 | 23.5 | 125 |
| MTO | 24CZ-LD5-30-S-UNV-L835-CD1-U | 3070 | 21.6 | 142 | MTO | 24CZ-LD5-30SE-S-UNV-L835-CD1-U | 3118 | 23.5 | 133 |
| MTO | 24CZ-LD5-30-S-UNV-L840-CD1-U | 3132 | 21.6 | 145 | MTO | 24CZ-LD5-30SE-S-UNV-L840-CD1-U | 3181 | 23.5 | 135 |
| MTO | 24CZ-LD5-30-S-UNV-L850-CD1-U | 3387 | 21.6 | 157 | MTO | 24CZ-LD5-30SE-S-UNV-L850-CD1-U | 3440 | 23.5 | 146 |
| MTO | 24CZ-LD5-35-S-UNV-L830-CD1-U | 3355 | 25.3 | 132 | MTO | 24CZ-LD5-35SE-S-UNV-L830-CD1-U | 3390 | 28.6 | 119 |
| MTO | 24CZ-LD5-35-S-UNV-L835-CD1-U | 3564 | 25.3 | 141 | MTO | 24CZ-LD5-35SE-S-UNV-L835-CD1-U | 3602 | 28.6 | 126 |
| MTO | 24CZ-LD5-35-S-UNV-L840-CD1-U | 3635 | 25.3 | 144 | MTO | 24CZ-LD5-35SE-S-UNV-L840-CD1-U | 3674 | 28.6 | 129 |
| MTO | 24CZ-LD5-35-S-UNV-L850-CD1-U | 3932 | 25.3 | 155 | MTO | 24CZ-LD5-35SE-S-UNV-L850-CD1-U | 3974 | 28.6 | 139 |
| MTO | 24CZ-LD5-40-S-UNV-L830-CD1-U | 3806 | 29.0 | 131 | MTO | 24CZ-LD5-40SE-S-UNV-L830-CD1-U | 3859 | 32.6 | 119 |
| MTO | 24CZ-LD5-40-S-UNV-L835-CD1-U | 4043 | 29.0 | 139 | MTO | 24CZ-LD5-40SE-S-UNV-L835-CD1-U | 4099 | 32.6 | 126 |
| MTO | 24CZ-LD5-40-S-UNV-L840-CD1-U | 4124 | 29.0 | 142 | MTO | 24CZ-LD5-40SE-S-UNV-L840-CD1-U | 4181 | 32.6 | 128 |
| MTO | 24CZ-LD5-40-S-UNV-L850-CD1-U | 4461 | 29.0 | 154 | MTO | 24CZ-LD5-40SE-S-UNV-L850-CD1-U | 4523 | 32.6 | 139 |
| MTO | 24CZ-LD5-45-S-UNV-L830-CD1-U | 4291 | 35.7 | 120 | MTO | 24CZ-LD5-45SE-S-UNV-L830-CD1-U | 4390 | 39.9 | 110 |
| MTO | 24CZ-LD5-45-S-UNV-L835-CD1-U | 4558 | 35.7 | 128 | MTO | 24CZ-LD5-45SE-S-UNV-L835-CD1-U | 4663 | 39.9 | 117 |
| MTO | 24CZ-LD5-45-S-UNV-L840-CD1-U | 4650 | 35.7 | 130 | MTO | 24CZ-LD5-45SE-S-UNV-L840-CD1-U | 4757 | 39.9 | 119 |
| MTO | 24CZ-LD5-45-S-UNV-L850-CD1-U | 5029 | 35.7 | 141 | MTO | 24CZ-LD5-45SE-S-UNV-L850-CD1-U | 5145 | 39.9 | 129 |
| MTO | 24CZ-LD5-50-S-UNV-L830-CD1-U | 4789 | 40.7 | 118 | MTO | 24CZ-LD5-50SE-S-UNV-L830-CD1-U | 4883 | 46.6 | 105 |
| MTO | 24CZ-LD5-50-S-UNV-L835-CD1-U | 5088 | 40.7 | 125 | MTO | 24CZ-LD5-50SE-S-UNV-L835-CD1-U | 5188 | 46.6 | 111 |
| MTO | 24CZ-LD5-50-S-UNV-L840-CD1-U | 5190 | 40.7 | 128 | MTO | 24CZ-LD5-50SE-S-UNV-L840-CD1-U | 5291 | 46.6 | 114 |
| MTO | 24CZ-LD5-50-S-UNV-L850-CD1-U | 5614 | 40.7 | 138 | MTO | 24CZ-LD5-50SE-S-UNV-L850-CD1-U | 5724 | 46.6 | 123 |
| MTO | 24CZ-LD5-55-S-UNV-L830-CD1-U | 5285 | 45.8 | 115 | MTO | 24CZ-LD5-55SE-S-UNV-L830-CD1-U | 5320 | 54.7 | 97 |
| MTO | 24CZ-LD5-55-S-UNV-L835-CD1-U | 5614 | 45.8 | 123 | MTO | 24CZ-LD5-55SE-S-UNV-L835-CD1-U | 5652 | 54.7 | 103 |
| MTO | 24CZ-LD5-55-S-UNV-L840-CD1-U | 5726 | 45.8 | 125 | MTO | 24CZ-LD5-55SE-S-UNV-L840-CD1-U | 5765 | 54.7 | 105 |
| MTO | 24CZ-LD5-55-S-UNV-L850-CD1-U | 6194 | 45.8 | 135 | MTO | 24CZ-LD5-55SE-S-UNV-L850-CD1-U | 6236 | 54.7 | 114 |
| MTO | 24CZ-LD5-60-S-UNV-L830-CD1-U | 5856 | 52.2 | 112 | MTO | 24CZ-LD5-60SE-S-UNV-L830-CD1-U | 5724 | 60.0 | 95 |
| MTO | 24CZ-LD5-60-S-UNV-L835-CD1-U | 6221 | 52.2 | 119 | MTO | 24CZ-LD5-60SE-S-UNV-L835-CD1-U | 6080 | 60.0 | 101 |
| MTO | 24CZ-LD5-60-S-UNV-L840-CD1-U | 6345 | 52.2 | 122 | MTO | 24CZ-LD5-60SE-S-UNV-L840-CD1-U | 6202 | 60.0 | 103 |
| MTO | 24CZ-LD5-60-S-UNV-L850-CD1-U | 6864 | 52.2 | 132 | MTO | 24CZ-LD5-60SE-S-UNV-L850-CD1-U | 6709 | 60.0 | 112 |
| MTO | 24CZ-LD5-65-S-UNV-L830-CD1-U | 6317 | 57.6 | 110 | MTO | 24CZ-LD5-65SE-S-UNV-L830-CD1-U | 6277 | 59.6 | 105 |
| MTO | 24CZ-LD5-65-S-UNV-L835-CD1-U | 6711 | 57.6 | 116 | MTO | 24CZ-LD5-65SE-S-UNV-L835-CD1-U | 6668 | 59.6 | 112 |
| MTO | 24CZ-LD5-65-S-UNV-L840-CD1-U | 6845 | 57.6 | 119 | MTO | 24CZ-LD5-65SE-S-UNV-L840-CD1-U | 6801 | 59.6 | 114 |
| MTO | 24CZ-LD5-65-S-UNV-L850-CD1-U | 7404 | 57.6 | 128 | MTO | 24CZ-LD5-65SE-S-UNV-L850-CD1-U | 7357 | 59.6 | 123 |

*Made to order (MTO) requires a typical three week lead time.

| Job Name: <br> DEPT OF ADMIN BLDG 3 <br> 34 GSD1800000021 |  |  |  |
| :--- | :--- | :--- | :---: |


| LUMEN MAINTENANCE |  |  |
| :---: | :---: | :---: |
| Ambient <br> Temperature | TM-21 Lumen <br> Maintenance <br> (60,000 hours) | Theoretical <br> (H70 <br> (Hours) |
| $25^{\circ} \mathrm{C}$ | $>80 \%$ | $>186,000$ |

Catalog Number:
24CZ-LD5-40SE-S-UNV-EL7W-L835-CD1-PALC
Notes:

Type:

LUMEN MAINTENANCE

90 CRI

| Lumen Adjustment Factors $\mathbf{8 0}$ - $\mathbf{9 0} \mathbf{0} \mathbf{C R I}$ |  |
| :---: | :---: |
| 3000 K | 0.88 |
| 3500 K | 0.861 |
| 4000 K | 0.865 |
| 5000 K | 0.87 |

Example of Lumen Adjustment Calculation

24CZ-LD5-40-UNV-L835-CD1-U at 90 CRI at 3500 K

Lumen Adjustment Factor $=0.861$
Total Light Output $=$
$3,964 \mathrm{Im} \times 0.861=3,413 \mathrm{Im}$
Efficacy $=\frac{3,413 \mathrm{Im}}{29 \mathrm{~W}}=117.6 \mathrm{Im} / \mathrm{W}$
ORDERING INFORMATION
SAMPLE NUMBER: 24CZ-LD5-45-UNV-L835-CD1-U

|  |  | - |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Rating Blank= Standard ATW-SW4= Chicago Rated | Lamp Type | Voltage ${ }^{(2)}$ |  |  |
|  | LD5=LED 5.0 | 347V $=347$ Volt ${ }^{(9)}$ | Driver Type | Number of Drivers |
|  |  | UNV=Universal | CD=0-10V Dimming Driver | 2=2 Drivers |
|  | Cruze | Voltage 120-277 | (10\%-100\% Dimming) | 2=2 Drivers |
|  | Lumen Output |  | HCD $=0-10 \mathrm{~V}$ Dimming Driver |  |
|  | 30=3000 Lumens | Options | (1\%-100\% Dimming) |  |
|  | 35=3500 Lumens | Emergency | SD=Step-Dim Driver ${ }^{(6)}$ |  |
| $\begin{aligned} & \text { Series }{ }^{(16)} \\ & 24 C Z=2 \times 4 \text { Cruze Series } \end{aligned}$ | 40=4000 Lumens | EL7W=7-watt, 120V-277V emergency battery pack installed ${ }^{(3)}$ |  | - 100\% Dimming) (4), (7) |
|  | $45=4500$ Lumens$50=5000$ Lumens |  | SR=Sensor Ready (1\% - 100\% D | ming) ${ }^{(12)}$ |
|  |  | EL14W=14-watt 120 V -277V emergency battery pack installed ${ }^{(3)}$ |  |  |
| Door Frame <br> Standard=Flat White Steel <br> Door (Leave Blank) | 55=5500 Lumens |  |  |  |
|  | 60=6000 Lumens | GTD2=Bodine Generator Transfer Device ${ }^{(10)}$ |  |  |
|  |  | GTD2=Bodine Generator Transfer Device ${ }^{\text {(10) }}$ |  |  |
|  | 70=7000 Lumens | $\underline{\text { CCT }}$ L830 $=3000 \mathrm{~K}$ |  |  |
|  | 75=7500 Lumens |  |  |  |
|  | Standard Efficacy | L830 $=3000 \mathrm{~K}$L835 $=3500 \mathrm{~K}$ |  |  |
|  |  | L840 $=4000 \mathrm{~K}$ |  |  |
|  |  | L850 $=5000 \mathrm{~K}$ |  |  |
|  | 30SE=3000 Lumens 35SE=3500 Lumens | L930=3000K |  |  |
|  | 40SE $=4000$ Lumens | L935=3500K |  |  |
|  | 45SE=4500 Lumens | L940 $=4000 \mathrm{~K}$ |  |  |
|  |  | L950 $=5000 \mathrm{~K}$ |  |  |
|  | 50SE=5000 Lumens 55SE=5500 Lumens | Flex |  |  |
|  | MTO Lumen Output ${ }^{(15)}$ 60SE=6000 Lumens 65SE=6500 Lumens |  Multiple other configurations available |  |  |
|  | Shielding |  |  |  |
|  | Blank=Ribbed FrostedAcrylic Lens (standard) |  |  |  |
|  |  |  |  |  |  |  |  |
|  | $\mathbf{S}=$ Smooth Frosted Acrylic Lens |  |  |  |
|  | SQP=Smooth Lens with Square |  |  |  |
|  | Pattern Insert |  |  |  |
|  | RDP $=$ Smooth Lens with RoundPattern Insert |  |  |  |
|  |  |  |  |  |



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 ( $100 \mathrm{Im} / \mathrm{W} \times 7=700 \mathrm{lumens}$ ). IES-format photometry for luminaire under ${ }^{(5)}$ Integral sensor works with CD and HCD drivers and is factory prewired to the driver for stand-alone control. ${ }^{(6)}$ Step dim driver option is not available with $3000,3500,4000,7000$ and 7500 lumen packages and 3000 SE, 3500 SE, 6000 SE and 6500 SE versions. ${ }^{(7)}$ Fifth Light (5LTD) driver option is not available with 3000,3500 and 4000 lumen packages and 3000 SE and 3500 SE versions. ${ }^{(8)}$ Provides blank band on opposite side from sensor band to provide symmetric appearance. ${ }^{(9)} 347 \mathrm{~V}$ versions are not available with emergency options. 347 V driver option requires two drivers with 7000 and 7500 lumen packages. SD, 5LTD, and SR drivers with 347 V are available but not DLC qualified. ${ }^{(10)}$ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating
under mergency power. ${ }^{(11)}$ Must be used in conjunction with a LumaWatt Pro control system. For complete LumaWatt Pro wireless solutions, visit www.eaton.com/umawattpro. ${ }^{(12)}$ SR driver compatible with LWI option ${ }^{\text {only. }}{ }^{(13)}$ LWT compatible with CD and HCD drivers only. ${ }^{(14)}$ LWT sensor is external to luminaire, cable factory wired. ${ }^{(15)}$ Made-to-order (MTO) requires a typical three week leadtime. ${ }^{161}$ DesignLights Consortium $®$ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
Specifications \& dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.
SHIPPING DATA

| Catalog No. | Wt. |
| :--- | :--- |
| 24CZ-LD5-45 | 20.5 Ibs. |
| 24CZ-LD5-55 | 20.5 Ibs. | www.eaton.com/lighting



## How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.


Side View



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


Metalux

## DESCRIPTION

Cruze LED is a premium grade specification lensed troffer series. This innovative, high quality luminaire is dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency. The Cruze is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The Cruze series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.


## SPECIFICATION FEATURES

## Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided.

## Controls

Metalux LED luminaires come standard with $0-10 \mathrm{~V}$ dimming drivers ( $1 \%$ standard).
Options compatible with Eaton's Connected Lighting Systems:

- WaveLinx sensor
- LumaWatt Pro sensor
- SVPD sensor
- DLVP sensor and driver
- Fifth Light DALI driver

Other options include stepdimming and 3rd party drivers. Refer to the Connected Lighting options page and ordering information for more details.

## Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in $3000 \mathrm{~K}, 3500 \mathrm{~K}, 4000 \mathrm{~K}$ or 5000 K with a minimum CRI of 80 . Projected life is 60,000 hours at $79 \%$ lumen output. cULus listed. Electronic drivers are available for $120-277 \mathrm{~V}$ and 347 V applications.

Emergency Battery Pack Option Optional 120 v -277v integral emergency battery pack is available in 7 -watts or 14 -watts to meet critical life-safety lighting requirements. The 90 -minute batteries provide constant power to the LED system, ensuring codecompliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

## Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing finished with $90 \%$ reflective white enamel for superior performance.

## Hinging/Latching

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.

Frame/Sheilding
Die formed, heavy gauge, flat steel door with reinforced mitered corners and painted after fabrication, baked matte white enamel finish. Positive light seals. Acrylic frosted lens.

## Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for $25^{\circ} \mathrm{C}$ ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

## Warranty

Five year warranty.


 22CZ-LD5-24-UNV L835-CD1-U so Electronic Driver o Linear LED 3500K 60. Spacing criterion: (II) $1.17 \times$ mounting height, ( $\perp$ ) 1.25 x mounting height
Lumens: 2470 Input Watts: 19.6W Efficacy: $126.0 \mathrm{Im} / \mathrm{W}$ Test Report 22CZ-LD5-24-UNV-L835-CD1-U.IES

Coefficients of Utilization

| Candlepower |  |  |  |
| :--- | :---: | :---: | :---: |
| Angle | Along II | $\mathbf{4 5}{ }^{\circ}$ | Across $\perp$ |
| $\mathbf{0}$ | 893 | 893 | 893 |
| $\mathbf{5}$ | 884 | 890 | 892 |
| $\mathbf{1 0}$ | 866 | 875 | 879 |
| $\mathbf{5 5}$ | 838 | 849 | 857 |
| $\mathbf{2 0}$ | 799 | 815 | 829 |
| $\mathbf{2 5}$ | 753 | 774 | 793 |
| $\mathbf{3 0}$ | 701 | 725 | 750 |
| $\mathbf{3 5}$ | 641 | 670 | 703 |
| $\mathbf{4 0}$ | 577 | 611 | 651 |
| $\mathbf{4 5}$ | 511 | 551 | 602 |
| $\mathbf{5 0}$ | 445 | 492 | 548 |
| $\mathbf{6 5}$ | 379 | 432 | 490 |
| $\mathbf{6 5}$ | 313 | 372 | 434 |
| $\mathbf{7 0}$ | 249 | 311 | 374 |
| $\mathbf{7 5}$ | 186 | 251 | 315 |
| $\mathbf{8 0}$ | 74 | 193 | 231 |
| $\mathbf{8 5}$ | 30 | 47 | 140 |
| $\mathbf{9 0}$ | 0 | 0 | 0 |


10\%


LUMEN MAINTENANCE

| Ambient <br> Temperature | TM-21 Lumen <br> Maintenance <br> $(60,000$ hours) | Theoretical <br> L70 <br> (Hours) |
| :---: | :---: | :---: |
| $25^{\circ} \mathrm{C}$ | $>79 \%$ | $>178,000$ |

90 CRI

| Lumen Adjustment Factors $\mathbf{8 0} \mathbf{- > 9 0} \mathbf{C R I}$ |  |
| :---: | :---: |
| 3000 K | 0.88 |
| 3500 K | 0.861 |
| 4000 K | 0.865 |
| 5000 K | 0.87 |

Example of Lumen
Adjustment Calculation
22CZ-LD5-34-UNV-L935-CD1-U at 90 CRI at 3500 K

Lumen Adjustment Factor $=0.861$
Total Light Output =
$3,497 \mathrm{Im} \times 0.861=3,010 \mathrm{Im}$
Efficacy $=\frac{3,010 \mathrm{Im}}{29.4 \mathrm{~W}}=102.3 \mathrm{Im} / \mathrm{W}$ P: 770-486-4800

## ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

$22 C Z$ LED

| Stock or MTO* | Catalog Logic (Ribbed Lens) | Delivered Lumens | Watts | Efficacy (Im/W) |
| :---: | :---: | :---: | :---: | :---: |
| MTO | 22CZ-LD5-20-UNV-L830-CD1-U | 1964 | 16.4 | 120 |
| MTO | 22CZ-LD5-20-UNV-L835-CD1-U | 2086 | 16.4 | 127 |
| MTO | 22CZ-LD5-20-UNV-L840-CD1-U | 2128 | 16.4 | 130 |
| MTO | 22CZ-LD5-20-UNV-L850-CD1-U | 2302 | 16.4 | 141 |
| MTO | 22CZ-LD5-24-UNV-L830-CD1-U | 2325 | 19.6 | 119 |
| Stock | 22CZ-LD5-24-UNV-L835-CD1-U | 2470 | 19.6 | 126 |
| Stock | 22CZ-LD5-24-UNV-L840-CD1-U | 2519 | 19.6 | 128 |
| MTO | 22CZ-LD5-24-UNV-L850-CD1-U | 2725 | 19.6 | 139 |
| MTO | 22CZ-LD5-29-UNV-L830-CD1-U | 2729 | 23.5 | 116 |
| MTO | 22CZ-LD5-29-UNV-L835-CD1-U | 2899 | 23.5 | 123 |
| MTO | 22CZ-LD5-29-UNV-L840-CD1-U | 2957 | 23.5 | 126 |
| MTO | 22CZ-LD5-29-UNV-L850-CD1-U | 3199 | 23.5 | 136 |
| MTO | 22CZ-LD5-34-UNV-L830-CD1-U | 3292 | 29.4 | 112 |
| Stock | 22CZ-LD5-34-UNV-L835-CD1-U | 3497 | 29.4 | 119 |
| Stock | 22CZ-LD5-34-UNV-L840-CD1-U | 3567 | 29.4 | 121 |
| MTO | 22CZ-LD5-34-UNV-L850-CD1-U | 3858 | 29.4 | 131 |
| MTO | 22CZ-LD5-39-UNV-L830-CD1-U | 3701 | 36.4 | 102 |
| MTO | 22CZ-LD5-39-UNV-L835-CD1-U | 3932 | 36.4 | 108 |
| MTO | 22CZ-LD5-39-UNV-L840-CD1-U | 4011 | 36.4 | 110 |
| MTO | 22CZ-LD5-39-UNV-L850-CD1-U | 4338 | 36.4 | 119 |
| MTO | 22CZ-LD5-44-UNV-L830-CD1-U | 4173 | 41.8 | 100 |
| MTO | 22CZ-LD5-44-UNV-L835-CD1-U | 4433 | 41.8 | 106 |
| MTO | 22CZ-LD5-44-UNV-L840-CD1-U | 4522 | 41.8 | 108 |
| MTO | 22CZ-LD5-44-UNV-L850-CD1-U | 4891 | 41.8 | 117 |

Standard Efficacy Versions
*Made to order (MTO) requires a typical three week lead time.

| Stock or MTO* | Catalog Logic (Smooth Lens) | Delivered Lumens | Watts | Efficacy (Im/W) <br> (Im/W) |
| :---: | :---: | :---: | :---: | :---: |
| MTO | 22CZ-LD5-20-S-UNV-L830-CD1-U | 2003 | 16.4 | 122 |
| MTO | 22CZ-LD5-20-S-UNV-L835-CD1-U | 2128 | 16.4 | 130 |
| MTO | 22CZ-LD5-20-S-UNV-L840-CD1-U | 2170 | 16.4 | 132 |
| MTO | 22CZ-LD5-20-S-UNV-L850-CD1-U | 2348 | 16.4 | 143 |
| MTO | 22CZ-LD5-24-S-UNV-L830-CD1-U | 2372 | 19.6 | 121 |
| MTO | 22CZ-LD5-24-S-UNV-L835-CD1-U | 2519 | 19.6 | 128 |
| MTO | 22CZ-LD5-24-S-UNV-L840-CD1-U | 2570 | 19.6 | 131 |
| MTO | 22CZ-LD5-24-S-UNV-L850-CD1-U | 2780 | 19.6 | 142 |
| MTO | 22CZ-LD5-29-S-UNV-L830-CD1-U | 2784 | 23.5 | 118 |
| MTO | 22CZ-LD5-29-S-UNV-L835-CD1-U | 2957 | 23.5 | 126 |
| MTO | 22CZ-LD5-29-S-UNV-L840-CD1-U | 3016 | 23.5 | 128 |
| MTO | 22CZ-LD5-29-S-UNV-L850-CD1-U | 3263 | 23.5 | 139 |
| MTO | 22CZ-LD5-34-S-UNV-L830-CD1-U | 3358 | 29.4 | 114 |
| MTO | 22CZ-LD5-34-S-UNV-L835-CD1-U | 3567 | 29.4 | 121 |
| MTO | 22CZ-LD5-34-S-UNV-L840-CD1-U | 3638 | 29.4 | 124 |
| MTO | 22CZ-LD5-34-S-UNV-L850-CD1-U | 3936 | 29.4 | 134 |
| MTO | 22CZ-LD5-39-S-UNV-L830-CD1-U | 3775 | 36.4 | 104 |
| MTO | 22CZ-LD5-39-S-UNV-L835-CD1-U | 4011 | 36.4 | 110 |
| MTO | 22CZ-LD5-39-S-UNV-L840-CD1-U | 4091 | 36.4 | 112 |
| MTO | 22CZ-LD5-39-S-UNV-L850-CD1-U | 4425 | 36.4 | 122 |
| MTO | 22CZ-LD5-44-S-UNV-L830-CD1-U | 4256 | 41.8 | 102 |
| MTO | 22CZ-LD5-44-S-UNV-L835-CD1-U | 4522 | 41.8 | 108 |
| MTO | 22CZ-LD5-44-S-UNV-L840-CD1-U | 4612 | 41.8 | 110 |
| MTO | 22CZ-LD5-44-S-UNV-L850-CD1-U | 4989 | 41.8 | 119 |

Standard Efficacy Versions

| Stock or <br> MTO* | Catalog Logic <br> (Smooth Lens) | Delivered <br> Lumens | Watts | Efficacy <br> (Im/W) |
| :---: | :---: | :---: | :---: | :---: |
| MTO | 22CZ-LD5-20SE-S-UNV-L830-CD1-U | 1987 | 17.2 | 115 |
| MTO | 22CZ-LD5-20SE-S-UNV-L835-CD1-U | 2110 | 17.2 | 123 |
| MTO | 22CZ-LD5-20SE-S-UNV-L840-CD1-U | 2153 | 17.2 | 125 |
| MTO | 22CZ-LD5-20SE-S-UNV-L850-CD1-U | 2328 | 17.2 | 135 |
| MTO | 22CZ-LD5-24SE-S-UNV-L830-CD1-U | 2369 | 21.1 | 112 |
| MTO | 22CZ-LD5-24SE-S-UNV-L835-CD1-U | 2516 | 21.1 | 119 |
| MTO | 22CZ-LD5-24SE-S-UNV-L840-CD1-U | 2567 | 21.1 | 122 |
| MTO | 22CZ-LD5-24SE-S-UNV-L850-CD1-U | 2776 | 21.1 | 132 |
| MTO | 22CZ-LD5-32SE-S-UNV-L830-CD1-U | 3075 | 30.5 | 101 |
| MTO | 22CZ-LD5-32SE-S-UNV-L835-CD1-U | 3267 | 30.5 | 107 |
| MTO | 22CZ-LD5-32SE-S-UNV-L840-CD1-U | 3332 | 30.5 | 109 |
| MTO | 22CZ-LD5-32SE-S-UNV-L850-CD1-U | 3605 | 30.5 | 118 |
| MTO | 22CZ-LD5-39SE-S-UNV-L830-CD1-U | 3802 | 34.9 | 109 |
| MTO | 22CZ-LD5-39SE-S-UNV-L835-CD1-U | 4039 | 34.9 | 116 |
| MTO | 22CZ-LD5-39SE-S-UNV-L840-CD1-U | 4120 | 34.9 | 118 |
| MTO | 22CZ-LD5-39SE-S-UNV-L850-CD1-U | 4457 | 34.9 | 128 |
| MTO | 22CZ-LD5-44SE-S-UNV-L830-CD1-U | 4201 | 40.0 | 105 |
| MTO | $22 C Z-L D 5-44 S E-S-U N V-L 835-C D 1-U ~$ | 4463 | 40.0 | 112 |
| MTO | 22CZ-LD5-44SE-S-UNV-L840-CD1-U | 4552 | 40.0 | 114 |
| MTO | 22CZ-LD5-44SE-S-UNV-L850-CD1-U | 4924 | 40.0 | 123 |

*Made to order (MTO) requires a typical three week lead time.
*Made to order (MTO) requires a typical three week lead time.

Catalog Number:
22CZ-LD5-39SE-S-UNV-L835-CD1PALC
Notes:

## ORDERING INFORMATION

SAMPLE NUMBER: 22CZ-LD5-34-UNV-L835-CD1-U

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Rating Blank= Standard ATW-SW4= Chicago Rated |  |  |  |  |
|  | Lamp Type | Voltage ${ }^{(2)}$ | Driver Type | Number of Drivers 1=1 Driver |
|  | LD5=LED 5.0 | $347 \mathrm{~V}=347$ Volt ${ }^{(6)}$ UNV $=$ Universal Voltage 120-277 | CD=0-10V Dimming Driver (10\%-100\% Dimming) |  |
|  | Cruze | $48 \mathrm{~V}=48$ Volt Low-voltage (Class 2) ${ }^{\text {(c) }}$ | HCD $=0-10 \mathrm{~V}$ Dimming Driver (1\%-100\% Dimming) |  |
|  |  | Options |  |  |
|  | 20=2000 Lumens |  | SR=Sensor-ready Dimming Driver |  |
| Series ${ }^{(8)}$ | 24=2400 Lumens 29 2900 Lumens | Options <br> Emergency |  |  |
| 22CZ=2x2 Cruze Series | 39=2900 Lumens | EL7W=7-watt, 120V-277V emergency battery pack installed ${ }^{(3)}$ |  |  |
|  | 34=3400 Lumens | battery pack installed ${ }^{(3)}$ <br> EL14W=14-watt 120V-277V emergency | 5LTD=Fifth Light DALI Driver <br> (10\%-100\% Dimming) ${ }^{(E)}$ |  |
| Door Frame | 39 = 3900 Lumens | battery pack installed ${ }^{(3)}$ <br> ELV7W=7-watt, DLVP-compatible low voltage | 5LTHD=Fifth Light Dimming Driver |  |
| Standard=Flat White Steel | 44=4400 Lumens |  | (1\%-100\% Dimming) ${ }^{(E)}$ <br> LV1=DLVP Dimming Driver |  |
| Door (Leave Blank) | Standard Efficacy | ELV7W=7-watt, DLVP-compatible low voltage emergency battery pack installed (C) |  |  |
|  | Lumen Output | ELV14W=14-watt DLVP-compatible low voltage emergency battery pack installed (c) | SD=Step Dimming Driver | (0\%-100\% Dimming) ${ }^{\text {(c) }}$ |
|  | 24SE=2400 Lumens | emergency battery pack installed ${ }^{(C)}$ GTD2=Bodine Generator Transfer Device ${ }^{(7)}$ | ( $50 \%$ or $100 \%$ Dimming) ${ }^{(4)}$ |  |
|  | 32SE $=3200$ Lumens | ETS2=IOTA Emergency Transfer Switch ${ }^{(7)}$ | LH=Lutron HiLume (LDE1 series) 1\%-100\% EcoSystem Driver |  |
|  | 39SE=3900 Lumens | CCT | L5=Lutron 5 Series (LDE5-Series) 5\%-100\% EcoSystem Driver (f) LU=Lutron HiLume (L3D series) 1\%-100\% EcoSystem/3-wire Driver (F) |  |
|  | 44SE=4400 Lumens | $\begin{aligned} & \mathrm{L830}=3000 \mathrm{~K} \\ & \mathrm{~L} 835=3500 \mathrm{~K} \end{aligned}$ |  |  |
|  | Shielding | L840 $=4000 \mathrm{~K}$L850 $=5000 \mathrm{~K}$ |  |  |
|  | Blank=Ribbed Frosted |  |  |  |  |  |
|  | Acrylic Lens (standard) | L930 $=3000 \mathrm{~K}$ |  |  |
|  | S=Smooth Frosted Acrylic Lens | $L 935=3500 \mathrm{~K}$L940L |  |  |
|  | SQP=Smooth Lens with Square | L. $240=4000 \mathrm{~K}$L950 $=5000 \mathrm{~K}$ |  |  |
|  | Pattern Insert |  |  |  |  |  |
|  | RDP=Smooth Lens with Round | Flex |  |  |
|  | Pattern Insert | $\overline{\text { A3/8-4/18GDIM }}=3 / 8$ " Flex with $0-10 \mathrm{~V}$ Dimming Leads Multiple other configurations available. See below for details. |  |  |



DV=Dual Band ${ }^{(5)}$

## Packaging <br> U=Unit Pack <br> PALC=Job

Pack, in carton
ACCESSORIES
EO-CLIP-U=T-BAR Safety Earthquake Clips ${ }^{(1)}$
DF-22-W=2' x 2' Drywall Frame Kit
SK-22-WS=2' $\times 2^{\prime}$ Shallow Surface Mount Kit
SK-22-WT=2' x 2' Tall Surface Mount Kit
DF10P-C_=Decorator Dimmer, 0-10V (CD and HCD drivers only)
SF10P-_=Decorator Slide Dimmer, 0-10V (CD and HCD drivers only)
ISHH-02=Pegral Con

NOTES: ${ }^{(1)}$ An EQ Grid Clip is recommended for all $9 / 16^{" 1}$ 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 $\mathrm{IV} \times 7=700$ lumens.). IES-format photometry for luminaire under emergency operation available. ${ }^{(4)}$ Step dim driver option is not available with $2000,2400,2900$ and 3400 lumen packages and 2000SE, 2400 SE and 3200 SE versions. ${ }^{(5)}$ Provides blank band on
opposite side from sensor band to provide symmetric appearance. ${ }^{(6)} 347 \mathrm{~V}$ versions are not available with emergency options. SD, 5 FLTD , and SR drivers with 347 V are available but not DLC qualified. ${ }^{(7)}$ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power. ${ }^{(8)}$ DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

## 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
 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.

## Flexible Metal Conduit Option

Flex options available for $0-10 \mathrm{~V}$ 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 $90^{\circ}$ enclosed FMC connector. Not all options may be combined and installation ratings vary by type.
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 $\oplus$; 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 P: 770-486-4800 www.eaton.com/lighting


How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Side View


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

| Job Name: <br> DEPT OF ADMIN BLDG 3 34 GSD1800000021 |  |  |
| :---: | :---: | :---: |
| LUMEN MAINTENANCE |  |  |
| Ambient Temperature | TM-21 Lumen Maintenance ( 60,000 hours) | $\begin{gathered} \hline \text { Theoretical } \\ \text { L70 } \\ \text { (Hours) } \end{gathered}$ |
| $25^{\circ} \mathrm{C}$ | > 80\% | > 186,000 |

Catalog Number:
EQ-CLIP-U
Notes:

LUMEN MAINTENANCE

90 CRI

| Lumen Adjustment Factors $\mathbf{8 0} \mathbf{- > 9 0} \mathbf{C R I}$ |  |
| :---: | :---: |
| 3000 K | 0.88 |
| 3500 K | 0.861 |
| 4000 K | 0.865 |
| 5000 K | 0.87 |

Example of Lumen Adjustment Calculation

24CZ-LD5-40-UNV-L835-CD1-U at 90 CRI at 3500 K

Lumen Adjustment Factor $=0.861$
Total Light Output $=$ $3,964 \mathrm{Im} \times 0.861=3,413 \mathrm{Im}$

$$
\text { Efficacy }=\frac{3,413 \mathrm{Im}}{29 \mathrm{~W}}=117.6 \mathrm{Im} / \mathrm{W}
$$

ORDERING INFORMATION
SAMPLE NUMBER: 24CZ-LD5-45-UNV-L835-CD1-U


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. ${ }^{(33)}$ 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 ( $100 \mathrm{Im} / \mathrm{W} \times 7=700$ lumens). IES-format photometry for luminaire under ${ }^{(5)}$ Integral sensor works with CD and HCD drivers and is factory prewired to the driver for stand-alone control. ${ }^{(6)}$ Step dim driver option is not available with $3000,3500,4000,7000$ and 7500 lumen packages and 3000 SE, 3500 SE, 6000 SE and 6500 SE versions. ${ }^{(7)}$ Fifth Light (5LTD) driver option is not available with 3000,3500 and 4000 lumen packages and 3000 SE and 3500 SE versions. ${ }^{(8)}$ Provides blank band on opposite side from sensor band to provide symmetric appearance. ${ }^{(9)} 347 \mathrm{~V}$ versions are not available with emergency options. 347 V driver option requires two drivers with 7000 and 7500 lumen packages. SD, 5LTD, and SR drivers with 347 V are available but not DLC qualified. (10) Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating
under emergency power. ${ }^{(11)}$ Must be used in conjunction with a LumaWattPro control system. For complete LumaWatt Pro wireless solutions, visit www.eaton.com/umawattpro. ${ }^{(12)}$ SR driver compatible with LWI option ${ }^{\text {only. }}{ }^{(13)}$ LWT compatible with CD and HCD drivers only. ${ }^{(14)}$ LWT sensor is external to luminaire, cable factory wired. ${ }^{(15)}$ Made-to-order (MTO) requires a typical three week leadtime. ${ }^{(16)}$ DesignLights Consortium ${ }^{(8)}$ Oualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
Specifications \& dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.
SHIPPING DATA

| Catalog No. | Wt. |
| :--- | :--- |
| 24CZ-LD5-45 | 20.5 Ibs. |
| 24CZ-LD5-55 | 20.5 lbs. | www.eaton.com/lighting


|  |  |  |  |  | Catalog Number: | Type: |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: |
|  | Job Name: <br>  <br> 34 GSD1800000021 | OSW-P-010 <br> Notes: | L\|NE5 |  |  |  |

## 0-10V dimmer sensor

| Project Name: | Prepared By: |
| :--- | :--- |
| Project Number: | Date: |
| Catalog Number: | Type: |

## Description

Single pole \& 3-Way
10A @ 120V/AC
8A @ 277V/AC
0-10VDC FLR and LED ballasts

## Design features

- Compatible with dimmable 0-10V LED and FLR ballasts
- Provides 180 degree field of view and 1000 sq. ft. of major motion coverage
- Selectable time delay of 15 seconds (Test mode, changes to 2 minutes after 2 minutes of powering up), 5 minutes (factory default), 15 minutes and 20 minutes
- Full-range preset dimming control provided with horizontal dim/bright bar
- Adjustable high-end and low-end trim setting
- Single green LED indicates motion
- Push pad design provides minimal travel and crisp actuation
- Uniform color matches PIR lens to device housing
- Digital circuitry provides aesthetically pleasing soft ON/fade OFF
- Occupancy Sensor version allows to toggle between Auto ON/ Auto OFF or Manual ON/Auto OFF mode
- Occupancy Sensor version provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light
- Meets California Title 20 requirements
- No leakage to load in OFF mode
- Easily configurable to suit specific applications
- Neutral is required for installation of device

Table 1. 0-10V Dimmer Sensor

|  |  | Compatible | Rating |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Catalog No. | Description | Lamp Types | Watt | V/AC | Color Suffix |
| $\square$ OSW-P-010 | Occupancy sensor \& | $0-10$ VDC | 1200 | 120 | BK, G, LA, |
|  | dimmer with LED | LED/FLR | 2200 | 277 | V, W |
|  | Single pole/3-Way preset |  |  |  |  |
| $\square$ VSW-P-010 | Vacancy sensor \& dimmer | 0-10VDC | 1200 | 120 | BK, G, LA, |
|  | with LED | LED/FLR | 2200 | 277 | V, W, |
|  | Single pole/3-Way preset |  |  |  |  |

Compliances, specifications and availability are subject to change without notice.

Powering Business Worldwide


Figure 1. OSW-P-010/VSW-P-010 Line Art with Dimensions

## Wiring Diagrams

Single-Pole Wiring Diagram
FLR, LED


3-Way Wiring Diagram
FLR, LED


## Applications

Eaton's 0-10V dimmer sensor is a 3 in 1 solution that combines functionality of a switchpack, a sensor and a 0-10V dimmer into one wallbox device, to help customers save labor costs as well as meet the latest energy codes and standards. Eaton's 0-10V dimmer sensor solution offers a convenient and cost effective way for users to satisfy commercial energy codes like ASHRAE 90.1 and California Title 20 that require designs that enable energy savings for Commercial facilities. Some of the requirements that can be met by a solution incorporating this device include Area Control, Automatic Lighting Shutoff, Manual ON or Partial ON (ASHRAE 90.1 only), Multi-level Lighting Control and Occupancy Sensor Control. This product can be used in Single-pole (one location) as well as 3-Way (multi-location) applications and is compatible with Eaton's decorator style devices and wallplates. This device also allows isolation of its relay for occupancy based control of external power packs.


Table 2. Specifications

| Catalog ${ }^{\text {No. }}$ | OSW-P-010, VSW-P-010 Series |
| :---: | :---: |
| Device Type | 0-10V dimmer sensor |
| Wiring Type | 6" pre-stripped wire leads, \#16 AWG |
| Testing \& Code Compliance | - cULus Listed to UL244A \& UL1472, file no. E325082 <br> - NOM Certified <br> - California Title 20 Compliant |
| Environmental Specifications | Flammability: Meets UL 94 requirements; V2 rated Temperature Rating: $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$ |
| Electrical Specifications | Rating: $120 \mathrm{~V} / \mathrm{AC} 277 \mathrm{~V} / \mathrm{AC}$ at 60 Hz <br> Light Intensity Control: Full-range, continuously variable dimming <br> Surge Protection: Meets ANSI/IEEE Std. C62.41, tested to withstand voltage surges up to <br> 6000 V and current surges of up to 3000 A <br> Radio Frequency Interference: Designed to reduce interference with radio, <br> audio and video equipment <br> Power-failure Memory: Light returns to ON at $50 \%$ or lower |
| Mechanical Specifications | Wiring Types: Single pole \& 3-Way LED Indicators: To indicate motion Voltage Ratings: Permanently marked on device |

Table 3. Materials

| Catalog No. | OSW-P-010, vSW-P-010 Series |
| :--- | :--- |
| Top Housing | Polycarbonate |
| Bottom Housing | Polycarbonate |
| Strap | Aluminum |
| Form Factor | Decorator |
| Finish | Gloss |

Table 4. Color Ordering Information
For ordering devices, include Catalog no. followed by the Color suffix: BK (Black), G (Gray), LA (Light Almond), V (lvory), W (White)


## Certifications \& Compliances

| Catalog No. | e(10) | $\frac{\text { non }}{426}$ |
| :--- | :---: | :---: |
| OSW-P-010 | • | • |
| VSW-P-010 | • | • |



Publication No. TD620016EN Specifications and dimensions subject to

WV-10
Approved / Revised 08/01/15

# State of West Virginia VENDOR PREFERENCE CERTIFICATE 

Certification and application is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginla Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

Application is made for $2.5 \%$ vendor preference for the reason checked:
Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this cerlification; or,
Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or $80 \%$ of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this centification; or,
Application is made for $2.5 \%$ vendor preference for the reason checked:
Bidder is a resident vendor who certifies that, during the life of the contract, on average at least $75 \%$ of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for $2.5 \%$ vendor preference for the reason checked:

Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least $75 \%$ of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
Application is made for $5 \%$ vendor preference for the reason checked:
Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
Application Is made for $3.5 \%$ vendor preference who is a veteran for the reason checked:
Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for $3.5 \%$ vendor preference who is a veteran for the reason checked:

Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code§5A-3-59 and West Virginia Code of State Rutes.
Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, womenand minority-owned business.
Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed $5 \%$ of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.
By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, $\$ 61-5-3$ ), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.


Signed:


EXHIBIT A - PRICING PAGE
GSD453736 BUILDING 32 \& 34 LIGHTING PROJECT

| Item \# | Item Description | Alternative Bid Item Manufacturer and Item Number | Unit Price | Qty | Extended Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3.1.1 | Holophane Troffer LED Light Fixture, Part No. HVT 2X4 DOP 3900LM 35K MVOLT MIN 10 80CRI ZT JP10, or equal. | Metalux $\begin{gathered} 24 C Z-L D 5-40 S E-S-U N V- \\ L 835-C D 1 \text {-PALC } \end{gathered}$ | 71.65 | 1380 | \$98,877.00 |
| 3.1.2 | Holophane Troffer LED Light Fixture, Part No. HVT 2X4 DOP 3900LM 35K MVOLT MIN 10 80CRI ZT BR JP10, or equal. | $\begin{aligned} & \text { Metalux } \\ & 24 \text { CZ-LDS-4CSE-S-UNV- } \\ & \text { EL7W-L835-CC7-PALC } \end{aligned}$ | 187.40 | 35 | $\$ 6559.00$ |
| 3.1.3 | Holophane Troffer LED Light Fixture, Part No. HVT 2X2 DOP 3900LM 35K MVOLT MIN 10 80CRI ZT JP10, or equal. | Metalux $\begin{gathered} 22 C Z-L D 5-39 E-S-U N V- \\ L 835-C D 1-P A L C \end{gathered}$ | 59.20 | 65 | $\$ 3848.00$ |
| 3.1.4 | Seismic Lighting Fixture Clamp | metalux $E G-C L P-u$ | 3.20 | 350 | $\$ 1120.00$ |
| 3.1.5 | Acuity Controls, Dimming and Occupancy Sensor Wall Switch, Part No. WSX PDT D WH, or equal. | $\begin{gathered} \text { Cocper controls } \\ \text { OSW-p-cio } \end{gathered}$ | 28.45 | 150 | \$4267,50 |
| Total Bid Amount (includes shipping charges) |  |  |  |  | \$114,671.50 |

