

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.

WOASIS	Jump to: FORMS 💁 Go 🕼 Home 🌮 Personalize 🚳 Accessibility 🛜 App Help 🌾 About	U
Welcome, Lu Anne Cottrill	Procurement Budgeting Accounts Receivable Accounts Payable	
Solicitation Response(SR) Dept: 0211 ID: ESR0612180000005834	Ver.: 1 Function: New Phase: Final Modified by batch , 06/12/2018	
Header () 8		
	E List View	^
General Information Contact Default Values Discount D	ocument Information	
Procurement Folder: 453736	SO Doc Code: CRFQ	
Procurement Type: Central Purchase Order	SO Dept: 0211	
Vendor ID: 000000200158	SO Doc ID: GSD180000021	
Legal Name: WV ELECTRIC SUPPLY CO	Published Date: 6/7/18	
Alias/DBA:	Close Date: 6/12/18	
Total Bid: \$114,671.50	Close Time: 13:30	
Response Date: 06/12/2018	Status: Closed	\sim
	Apply Default Values to Commodity Lines View Procurement Fol	der



Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Solicitation Response

Proc Folder : 453736 Solicitation Description : Addendum 1 - LED Light Fixtures and Accessories Proc Type : Central Purchase Order							
Date issued	Solicitation Closes	Solicita	ion Response	Version			
	2018-06-12 13:30:00	SR	0211 ESR0612180000005834	1			

VENDOR	
000000200158	

WV ELECTRIC SUPPLY CO

Solicitation Nu	umber:	CRFQ	0211	GSD1800000021			
Total Bid :	\$114,67	1.50		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						
Signature on File	FEIN #	DATE				
All offers subject to all terms and conditions contained in this solicitation						

Line	Comm Ln Desc		Comm Ln Desc Qty Unit Issue Unit Price		Unit Price	Ln Total Or Contract Amount
1	Light emitting diode LED fixture		1380.00000	EA	\$71.650000	\$98,877.00
Comm Code	Ma	anufacturer	Specification		Model #	
39111544						
Extended Description : Comments:		HOLOPHANE /ACUITY TF Part No. HVT 2x4 DOP 39				equal
		METALUX 24CZ-LD5-40SE-S-UNV-L4 SPECIFICATION SHEET /				

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		
			0					
Comm Code	Manufad	cturer	Specification		Model #			
39111544								
Extended Des		LOPHANE/ ACUITY T t No. HVT 2x4 DOP 3						
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	Manufac	cturer	Specification		Model #			
39111544								

Extended Description :

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

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

4 Interior lighting fixtures and accessories	d 350.00000	EA	* ******	
		LA	\$3.200000	\$1,120.00
Comm Code Manufacturer	Specification		Model #	
39111500				
	FIXTURE EARTH QUAKE S C EARTHQUAKE CLIPS (P/			

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 accessories	150.00000	EA	\$28.450000	\$4,267.50
Comm Code	Manufacturer	Specification		Model #	
39111500					
Extended Des	scription : HOLOPHANE / ACUIT Part No. WSX PDT D	Y dimming and OCL NH (120/277V) v	JPANCY SEN vith matching	NSOR WALL SWI wall plate include	TCH ed, or equal

Comments: COOPER LIGHTING GROUP OSW-P-010 SPECIFICATION SHEET ATTACHED

ADDENDUM ACKNOWLEDGEMENT FORM 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: I 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)

Ď	[X] Addendum No. 1		[]	Addendum No. 6
[]	Addendum No. 2	[]	Addendum No. 7
[]	Addendum No. 3	[]	Addendum No. 8
[]	Addendum No. 4	[]	Addendum No. 9
[]	Addendum No. 5]]	Addendum No. 10

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.

W.Va. Electric Supply
Company)
Authorized Signature
Date

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



DTIEICATE OF LIADILITY INCUDANCE

DATE (MM/DD/YYYY)

e	JER	TIFICATE OF LIA		JUKAN	UE	3/	15/2018
THIS CERTIFICATE IS ISSUED AS CERTIFICATE DOES NOT AFFIRM BELOW. THIS CERTIFICATE OF I REPRESENTATIVE OR PRODUCER	ATIVEL	Y OR NEGATIVELY AMEND	, EXTEND OR A	LTER THE C	OVERAGE AFFORDED	BY TH	E POLICIES
IMPORTANT: If the certificate hold the terms and conditions of the poli certificate holder in lieu of such end	er is an icy, cert	n ADDITIONAL INSURED, the tain policies may require an e	policy(ies) must endorsement. A s	be endorsed statement on	I. If SUBROGATION IS V this certificate does not	VAIVED confer), subject to rights to the
PRODUCER			CONTACT Brend	a Kash			
AssuredPartners of West Vin	ginia	LLC	PHONE /20	4)736-222	2 FAX	(304)3	02-3401
dba Insurance Systems	5	,	ADDRESS: bkash	0isi-wv.c	OM (A/C, NO)		
1 Insurance Way; PO Box 10					ORDING COVERAGE		NAIC #
Ona WV 2	5545		INSURER A West				24112
INSURED					itual Insurance		12372
West Virginia Electric Supp	ly Co	mpany	INSURER C :	Derect M	icuar insurance		12372
PO Box 6668	-		INSURER D :				
			INSURER E :				
Huntington WV 2	5773-0	6668	INSURER F :				
COVERAGES CE	RTIFIC	ATE NUMBER:17-18 All			REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICI	ES OF I	NSURANCE LISTED BELOW HAY	VE BEEN ISSUED	TO THE INSU	RED NAMED ABOVE FOR	THE PO	LICY PERIOD
INDICATED. NOTWITHSTANDING ANY CERTIFICATE MAY BE ISSUED OR MA EXCLUSIONS AND CONDITIONS OF SUC	Y PERTA	AIN, THE INSURANCE AFFORD	ED BY THE POLIC BEEN REDUCED E	IES DESCRIB	ED HEREIN IS SUBJECT 1	ECT TO FO ALL	WHICH THIS THE TERMS,
INSR LTR TYPE OF INSURANCE	ADDL S		POLICY EFF (MM/DD/YYYY	POLICY EXP) (MM/DD/YYYY	LIMIT	s	
X COMMERCIAL GENERAL LIABILITY					EACH OCCURRENCE	\$	1,000,000
A CLAIMS-MADE X OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	500,000
	_	CMM3627286	7/1/2017	7/1/2018	MED EXP (Any one person)	\$	5,000
	_				PERSONAL & ADV INJURY	\$	1,000,000
GEN'L AGGREGATE LIMIT APPLIES PER:					GENERAL AGGREGATE	\$	2,000,000
X POLICY PRO- JECT LOC					PRODUCTS - COMP/OP AGG	\$	2,000,000
OTHER:					Employee Benefits	\$	1,000,000
					COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
A ANY AUTO ALL OWNED SCHEDULED					BODILY INJURY (Per person)	\$	
AUTOS AUTOS NON-OWNED		СММ3627286	7/1/2017	7/1/2018	BODILY INJURY (Per accident) PROPERTY DAMAGE	\$	
HIRED AUTOS AUTOS					(Per accident)	\$	
					DRive other Car Medical	\$	
X UMBRELLA LIAB OCCUR					EACH OCCURRENCE	\$	5,000,000
A EXCESS LIAB CLAIMS-MADI	4				AGGREGATE	\$	5,000,000
DED X RETENTION \$ 0		СММ3627286	7/1/2017	7/1/2018		\$	
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N					PER OTH- STATUTE ER		
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A				E.L. EACH ACCIDENT	\$	1,000,000
B (Mandatory in NH) If yes, describe under	1	WCB1018836	1/29/2018	1/29/2019	E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
DÉSCRIPTION OF OPERATIONS below	+				E.L. DISEASE - POLICY LIMIT	\$	1,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHIC		ORD 101 Additional Demoder Oct.			line all		
Evidence of Insurance	LES (AC	ORD 101, Additional Remarks Schedule	e, may be attached if m	ore space is requ	iirea)		
			RECI	NED.	APR 2 0 2018		
			and an owned of Market P				
CERTIFICATE HOLDER		~	ANCELLATION				
			ANGELLATION				
					SCRIBED POLICIES BE CAI		
State of West Virginia	a		THE EXPIRATION	DATE THE	REOF, NOTICE WILL BE	DELI	/ERED IN
Purchasing Division		1					1

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

INS025 (201401)

AUTHORIZED REPRESENTATIVE

Tara Shoemaker/TARAS

Dava Shamake

© 1988-2014 ACORD CORPORATION. All rights reserved. The ACQRD name and logo are registered marks of ACORD

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.

(Name, Title) ones trin 1 (Printed Name and Title) 12th 250 (Address) 300 (Phone Number) / (Fax Number) erin. jones @ wva elec terc.com (email address)

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.

204

Va. Flente (Company)

(Authorized Signature) (Representative Name, Title)

ARSD COLVER MASSING

(Printed Name and Title of Authorized Representative)

(Phone Number) (Fax Number)

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

(Required by W. Va. Code § 6D-1-2)

Contracting Business Entity: W.Va. Electric	Address: 250 12th St.W
Supply CO.	Hurthington, WV 25704
Authorized Agent: Jared Colker	Address: 250 12th St. W Hunt., WV 2 S704
Contract Number: CRFQ 0211 615D18- Contr	act Description: LED Light Fixtures ? Accessories
Governmental agency awarding contract: Bid Clerk-	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 entity/individual names below.
- 2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities) Check here if none, otherwise list entity/individual names below. MATTCOLKER, LEE COLKER
- 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)

Check here if none, otherwise list entity/individual names below.

Anson Date Signed: Signature:

Notary Verification

State of ______, County of ______, Callel

I, <u>*Trames Masers*</u>, the authorized agent of the contracting business entity listéd above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

 To be completed by State Agency:

 Date Received by State Agency:

 Date submitted to Ethics Commission:

Governmental agency submitting Disclosure:

To be completed by State Agency:

 Taken, sworn to and subscribed before me this ______ day of _______
 11 ______ day of ________, 2018.

 Frames & Masen
 Notary Public's Signature



STATE OF WEST VIRGINIA Purchasing Division 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:

My commission expires Jan 03, 2021

"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 § 23-2c-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* §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: W.Va. Electreic. Su	poly CC.		
Authorized Signature:		_Date:	6/11/18
State of West Dirginia			
County of <u>Caluel</u> , to-wit:			
Taken, subscribed, and sworn to before me this <u>//i</u> day of	June		, 20 <u>.1\$</u> .
My Commission expires <u>Jan 3</u> , 2021	, 20 <u>_2 /</u> .		
AFEIM REAL HERE OFFICIAL SEAL			
NOTARY PUBLIC STATE OF WEST VIRGINIA FRANCES J. MASON 3407 Woodville Drive Huntington, WV 25701-5519		Pu	rchasing Affidavit (Revised 07/07/2017)

RSK18-9449

LINE1

Metalux

Туре

Date

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 0-10V 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 . 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80. Projected life is 60,000 hours at 80% lumen output. cULus listed. Electronic drivers are available for 120-277V and 347V applications.

Emergency Battery Pack Option

Optional 120v-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

Catalog #

Comments

Prepared by

Project

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°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.



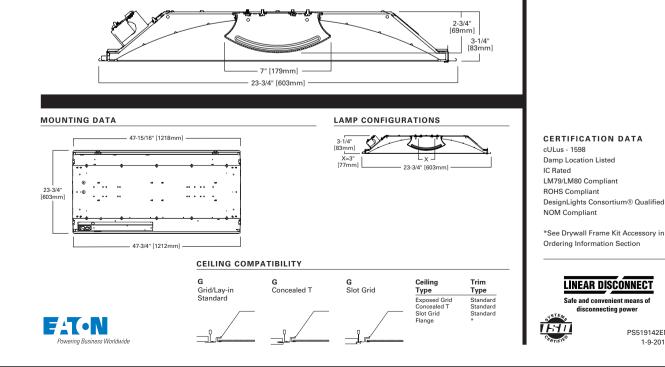
LED

2' X 4' TROFFER LED MODULE

Specification Grade Troffer







Submitted On: Jun 11, 2018

PS519142EN

1-9-2018

	Catalog Number:
Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 32 & 34 GSD180000021	24CZ-LD5-40SE-S-UNV-L835-CD1-

45°

1385

1375

Across \perp

1385

1383 1364

1334 1292

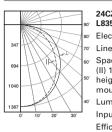
497 375 234

81 0

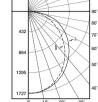
24CZ LED

LINE1

PHOTOMETRICS



24CZ-LD5-40-UNV-	Cand	lepower
L835-CD1-U	Angle	Along II
Electronic Driver	0	1385
Linear LED 3500K	5	1379
	10	1355
Spacing criterion:	15	1316
(II) 1.2 x mounting	20	1261
height, (⊥) 1.26 x	25	1193
0	30	1115
mounting height	35	1024
Lumens: 3964	40	930
Input Watts: 29W	45	830
Input watts. 29w	50	726
Efficacy: 136.7 Im/W	55	623
Teet Dements	60	519
Test Report:	65	415
24CZ-LD5-40-UNV-	70	309
L835-CD1-U.IES	75	211
	80	116
	85	45
	90	0



24CZ-LD5-50-UNV-L835-CD1-U Electronic Drive Linear LED 3500 Spacing criterio (II) 1.2 x mountine height, (\perp) 1.26 : mounting heigh Lumens: 4988 Input Watts: 40.0 Efficacy: 122.9 Ir Test Report: 24CZ-LD5-50-UN L835-CD1-U.IES

	Angle	Along II	45°	$\textbf{Across} \perp$
er	0	1726	1726	1726
0K	5	1718	1712	1722
	10	1689	1686	1699
on:	15	1639	1644	1661
ng	20	1572	1586	1607
x	25	1490	1512	1541
nt	30	1392	1426	1463
n.	35	1285	1330	1374
	40	1170	1225	1284
6W	45	1048	1116	1186
000	50	921	1005	1079
m/W	55	793	891	974
	60	664	774	860
	65	536	654	740
NV-	70	404	533	626
;	75	278	412	469
	80	156	272	294
	85	61	112	101
	90	0	0	0

Type:

RSK18-9449

Coefficients of Utilization

	Effe	ectiv	e flo	or cav	ity ref	lecta	nce	20	%									
rc		8	80%			7	0%			50	%		30%	6		10%	6	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

Zonal Lumen Summary

Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	1326	26.6	45	2270	2417	2569
0-40	2159	43.3	55	2118	2379	2601
0-60	3815	76.5	65	1943	2370	2682
0-90	4988	100.0	75	1645	2438	2775
0-180	4988	100.0	85	1072	1968	1775

Luminance Data

Coefficients of Utilization

	Eff	ectiv	e flo	or cav	ity ref	lecta	nce	20	1%									
rc		8	0%			7	70%			50	%		30%	, D		10%	Ď	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
3 4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24
Zon	alL	um	en	Sun	nma	ry			Lum	ina	ance	e Da	ta					

Zonal Lumen Summary

Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	1065	26.9	45	1798	1926	2043
0-40	1731	43.7	55	1664	1880	2056
0-60	3043	76.8	<u>65</u>	1504	1856	2138
0-90	3964	100.0	75	1249	1929	2219
0-180	3964	100.0	85	791	1529	1423

Job Name: Catalog Number: DEPT OF ADMIN BLDG 32 LED - BLDG 32 & 24CZ-LD5-40SE-S-UNV-L835-CD1 PALC Notes:

RSK18-9449

LINE1

Type:

24CZ LED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Ribbed Lens)	Delivered Lumens	Watts	Efficac (Im/W
MTO	24CZ-LD5-30-UNV-L830-CD1-U	2833	21.6	131
MTO	24CZ-LD5-30-UNV-L835-CD1-U	3010	21.6	139
MTO	24CZ-LD5-30-UNV-L840-CD1-U	3070	21.6	142
MTO	24CZ-LD5-30-UNV-L850-CD1-U	3321	21.6	154
MTO	24CZ-LD5-35-UNV-L830-CD1-U	3289	25.3	130
MTO	24CZ-LD5-35-UNV-L835-CD1-U	3494	25.3	138
MTO	24CZ-LD5-35-UNV-L840-CD1-U	3564	25.3	141
MTO	24CZ-LD5-35-UNV-L850-CD1-U	3855	25.3	152
MTO	24CZ-LD5-40-UNV-L830-CD1-U	3731	29.0	128
STOCK	24CZ-LD5-40-UNV-L835-CD1-U	3964	29.0	137
STOCK	24CZ-LD5-40-UNV-L840-CD1-U	4043	29.0	139
MTO	24CZ-LD5-40-UNV-L850-CD1-U	4374	29.0	151
MTO	24CZ-LD5-45-UNV-L830-CD1-U	4207	35.7	118
MTO	24CZ-LD5-45-UNV-L835-CD1-U	4469	35.7	125
MTO	24CZ-LD5-45-UNV-L840-CD1-U	4558	35.7	128
MTO	24CZ-LD5-45-UNV-L850-CD1-U	4931	35.7	138
MTO	24CZ-LD5-50-UNV-L830-CD1-U	4695	40.7	115
STOCK	24CZ-LD5-50-UNV-L835-CD1-U	4988	40.7	123
STOCK	24CZ-LD5-50-UNV-L840-CD1-U	5088	40.7	125
MTO	24CZ-LD5-50-UNV-L850-CD1-U	5503	40.7	135
MTO	24CZ-LD5-55-UNV-L830-CD1-U	5181	45.8	113
MTO	24CZ-LD5-55-UNV-L835-CD1-U	5504	45.8	120
MTO	24CZ-LD5-55-UNV-L840-CD1-U	5614	45.8	123
MTO	24CZ-LD5-55-UNV-L850-CD1-U	6073	45.8	133
MTO	24CZ-LD5-60-UNV-L830-CD1-U	5741	52.2	110
MTO	24CZ-LD5-60-UNV-L835-CD1-U	6099	52.2	117
MTO	24CZ-LD5-60-UNV-L840-CD1-U	6221	52.2	119
MTO	24CZ-LD5-60-UNV-L850-CD1-U	6729	52.2	129
MTO	24CZ-LD5-65-UNV-L830-CD1-U	6193	57.6	107
MTO	24CZ-LD5-65-UNV-L835-CD1-U	6579	57.6	114
MTO	24CZ-LD5-65-UNV-L840-CD1-U	6711	57.6	116
MTO	24CZ-LD5-65-UNV-L850-CD1-U	7259	57.6	126
MTO	24CZ-LD5-70-UNV-L830-CD1-U	6668	64.2	104
МТО	24CZ-LD5-70-UNV-L835-CD1-U	7084	64.2	110
МТО	24CZ-LD5-70-UNV-L840-CD1-U	7226	64.2	113
МТО	24CZ-LD5-70-UNV-L850-CD1-U	7816	64.2	122
MTO	24CZ-LD5-75-UNV-L830-CD1-U	7052	69.1	102
MTO	24CZ-LD5-75-UNV-L835-CD1-U	7491	69.1	108
MTO	24CZ-LD5-75-UNV-L840-CD1-U	7641	69.1	111
МТО	24CZ-LD5-75-UNV-L850-CD1-U	8265	69.1	120

Stock or MTO*	Catalog Logic (Ribbed Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	24CZ-LD5-30SE-UNV-L830-CD1-U	2878	23.5	122
STOCK	24CZ-LD5-30SE-UNV-L835-CD1-U	3057	23.5	130
STOCK	24CZ-LD5-30SE-UNV-L840-CD1-U	3118	23.5	133
MTO	24CZ-LD5-30SE-UNV-L850-CD1-U	3373	23.5	144
MTO	24CZ-LD5-35SE-UNV-L830-CD1-U	3324	28.6	116
STOCK	24CZ-LD5-35SE-UNV-L835-CD1-U	3531	28.6	124
STOCK	24CZ-LD5-35SE-UNV-L840-CD1-U	3602	28.6	126
MTO	24CZ-LD5-35SE-UNV-L850-CD1-U	3896	28.6	136
MTO	24CZ-LD5-40SE-UNV-L830-CD1-U	3783	32.6	116
STOCK	24CZ-LD5-40SE-UNV-L835-CD1-U	4019	32.6	123
STOCK	24CZ-LD5-40SE-UNV-L840-CD1-U	4099	32.6	126
MTO	24CZ-LD5-40SE-UNV-L850-CD1-U	4434	32.6	136
MTO	24CZ-LD5-45SE-UNV-L830-CD1-U	4304	39.9	108
STOCK	24CZ-LD5-45SE-UNV-L835-CD1-U	4572	39.9	115
STOCK	24CZ-LD5-45SE-UNV-L840-CD1-U	4663	39.9	117
MTO	24CZ-LD5-45SE-UNV-L850-CD1-U	5044	39.9	126
MTO	24CZ-LD5-50SE-UNV-L830-CD1-U	4788	46.6	103
STOCK	24CZ-LD5-50SE-UNV-L835-CD1-U	5086	46.6	109
STOCK	24CZ-LD5-50SE-UNV-L840-CD1-U	5188	46.6	111
MTO	24CZ-LD5-50SE-UNV-L850-CD1-U	5612	46.6	121
MTO	24CZ-LD5-55SE-UNV-L830-CD1-U	5216	54.7	95
MTO	24CZ-LD5-55SE-UNV-L835-CD1-U	5541	54.7	101
MTO	24CZ-LD5-55SE-UNV-L840-CD1-U	5652	54.7	103
MTO	24CZ-LD5-55SE-UNV-L850-CD1-U	6114	54.7	112
МТО	24CZ-LD5-60SE-UNV-L830-CD1-U	5611	60.0	94
MTO	24CZ-LD5-60SE-UNV-L835-CD1-U	5961	60.0	99
MTO	24CZ-LD5-60SE-UNV-L840-CD1-U	6080	60.0	101
MTO	24CZ-LD5-60SE-UNV-L850-CD1-U	6577	60.0	110
MTO	24CZ-LD5-65SE-UNV-L830-CD1-U	6154	59.6	103
MTO	24CZ-LD5-65SE-UNV-L835-CD1-U	6537	59.6	110
MTO	24CZ-LD5-65SE-UNV-L840-CD1-U	6668	59.6	112
МТО	24CZ-LD5-65SE-UNV-L850-CD1-U	7213	59.6	121

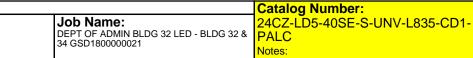
*Made to order (MTO) requires a typical three week lead time.

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



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

Specifications and dimensions subject to change without notice.



RSK18-9449

LINE1

Type:

24CZ LED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

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-LD5-30-S-UNV-L835-CD1-U	3070	21.6	142
MTO	24CZ-LD5-30-S-UNV-L840-CD1-U	3132	21.6	145
MTO	24CZ-LD5-30-S-UNV-L850-CD1-U	3387	21.6	157
МТО	24CZ-LD5-35-S-UNV-L830-CD1-U	3355	25.3	132
МТО	24CZ-LD5-35-S-UNV-L835-CD1-U	3564	25.3	141
MTO	24CZ-LD5-35-S-UNV-L840-CD1-U	3635	25.3	144
МТО	24CZ-LD5-35-S-UNV-L850-CD1-U	3932	25.3	155
МТО	24CZ-LD5-40-S-UNV-L830-CD1-U	3806	29.0	131
МТО	24CZ-LD5-40-S-UNV-L835-CD1-U	4043	29.0	139
МТО	24CZ-LD5-40-S-UNV-L840-CD1-U	4124	29.0	142
МТО	24CZ-LD5-40-S-UNV-L850-CD1-U	4461	29.0	154
MTO	24CZ-LD5-45-S-UNV-L830-CD1-U	4291	35.7	120
MTO	24CZ-LD5-45-S-UNV-L835-CD1-U	4558	35.7	128
MTO	24CZ-LD5-45-S-UNV-L840-CD1-U	4650	35.7	130
МТО	24CZ-LD5-45-S-UNV-L850-CD1-U	5029	35.7	141
МТО	24CZ-LD5-50-S-UNV-L830-CD1-U	4789	40.7	118
МТО	24CZ-LD5-50-S-UNV-L835-CD1-U	5088	40.7	125
МТО	24CZ-LD5-50-S-UNV-L840-CD1-U	5190	40.7	128
MTO	24CZ-LD5-50-S-UNV-L850-CD1-U	5614	40.7	138
МТО	24CZ-LD5-55-S-UNV-L830-CD1-U	5285	45.8	115
MTO	24CZ-LD5-55-S-UNV-L835-CD1-U	5614	45.8	123
MTO	24CZ-LD5-55-S-UNV-L840-CD1-U	5726	45.8	125
MTO	24CZ-LD5-55-S-UNV-L850-CD1-U	6194	45.8	135
MTO	24CZ-LD5-60-S-UNV-L830-CD1-U	5856	52.2	112
МТО	24CZ-LD5-60-S-UNV-L835-CD1-U	6221	52.2	119
MTO	24CZ-LD5-60-S-UNV-L840-CD1-U	6345	52.2	122
MTO	24CZ-LD5-60-S-UNV-L850-CD1-U	6864	52.2	132
MTO	24CZ-LD5-65-S-UNV-L830-CD1-U	6317	57.6	110
MTO	24CZ-LD5-65-S-UNV-L835-CD1-U	6711	57.6	116
МТО	24CZ-LD5-65-S-UNV-L840-CD1-U	6845	57.6	119
МТО	24CZ-LD5-65-S-UNV-L850-CD1-U	7404	57.6	128
MTO	24CZ-LD5-70-S-UNV-L830-CD1-U	6802	64.2	106
MTO	24CZ-LD5-70-S-UNV-L835-CD1-U	7226	64.2	113
МТО	24CZ-LD5-70-S-UNV-L840-CD1-U	7370	64.2	115
MTO	24CZ-LD5-70-S-UNV-L850-CD1-U	7972	64.2	124
MTO	24CZ-LD5-75-S-UNV-L830-CD1-U	7193	69.1	104
MTO	24CZ-LD5-75-S-UNV-L835-CD1-U	7641	69.1	111
MTO	24CZ-LD5-75-S-UNV-L840-CD1-U	7794	69.1	113
МТО	24CZ-LD5-75-S-UNV-L850-CD1-U	8430	69.1	122

Stock or MTO*	Catalog Logic (Smooth Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	24CZ-LD5-30SE-S-UNV-L830-CD1-U	2935	23.5	125
MTO	24CZ-LD5-30SE-S-UNV-L835-CD1-U	3118	23.5	133
MTO	24CZ-LD5-30SE-S-UNV-L840-CD1-U	3181	23.5	135
MTO	24CZ-LD5-30SE-S-UNV-L850-CD1-U	3440	23.5	146
MTO	24CZ-LD5-35SE-S-UNV-L830-CD1-U	3390	28.6	119
MTO	24CZ-LD5-35SE-S-UNV-L835-CD1-U	3602	28.6	126
MTO	24CZ-LD5-35SE-S-UNV-L840-CD1-U	3674	28.6	129
MTO	24CZ-LD5-35SE-S-UNV-L850-CD1-U	3974	28.6	139
MTO	24CZ-LD5-40SE-S-UNV-L830-CD1-U	3859	32.6	119
МТО	24CZ-LD5-40SE-S-UNV-L835-CD1-U	4099	32.6	126
MTO	24CZ-LD5-40SE-S-UNV-L840-CD1-U	4181	32.6	128
MTO	24CZ-LD5-40SE-S-UNV-L850-CD1-U	4523	32.6	139
MTO	24CZ-LD5-45SE-S-UNV-L830-CD1-U	4390	39.9	110
MTO	24CZ-LD5-45SE-S-UNV-L835-CD1-U	4663	39.9	117
MTO	24CZ-LD5-45SE-S-UNV-L840-CD1-U	4757	39.9	119
MTO	24CZ-LD5-45SE-S-UNV-L850-CD1-U	5145	39.9	129
MTO	24CZ-LD5-50SE-S-UNV-L830-CD1-U	4883	46.6	105
MTO	24CZ-LD5-50SE-S-UNV-L835-CD1-U	5188	46.6	111
MTO	24CZ-LD5-50SE-S-UNV-L840-CD1-U	5291	46.6	114
MTO	24CZ-LD5-50SE-S-UNV-L850-CD1-U	5724	46.6	123
MTO	24CZ-LD5-55SE-S-UNV-L830-CD1-U	5320	54.7	97
MTO	24CZ-LD5-55SE-S-UNV-L835-CD1-U	5652	54.7	103
MTO	24CZ-LD5-55SE-S-UNV-L840-CD1-U	5765	54.7	105
MTO	24CZ-LD5-55SE-S-UNV-L850-CD1-U	6236	54.7	114
MTO	24CZ-LD5-60SE-S-UNV-L830-CD1-U	5724	60.0	95
MTO	24CZ-LD5-60SE-S-UNV-L835-CD1-U	6080	60.0	101
MTO	24CZ-LD5-60SE-S-UNV-L840-CD1-U	6202	60.0	103
MTO	24CZ-LD5-60SE-S-UNV-L850-CD1-U	6709	60.0	112
MTO	24CZ-LD5-65SE-S-UNV-L830-CD1-U	6277	59.6	105
MTO	24CZ-LD5-65SE-S-UNV-L835-CD1-U	6668	59.6	112
MTO	24CZ-LD5-65SE-S-UNV-L840-CD1-U	6801	59.6	114
MTO	24CZ-LD5-65SE-S-UNV-L850-CD1-U	7357	59.6	123

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

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



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

Specifications and dimensions subject to change without notice.

Important Maintanan Theoretical Store > 80% > 186,000 Important Maintanan Theoretical Store > 80% > 186,000 Important Maintanan Theoretical Store > 80% > 186,000 Important Maintanan Store Store > 80% > 186,000 Important Maintanan Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store <	Amberit TM-21 Lumen Theoretical Longentation Maintenanes 1200 25°C > 80% 186,000 26°C 2000 0.881 27°C 2000 0.981 28°C 2000 0.981 28°C 2000 0.980 28°C 0.980		Job Name: DEPT OF ADMIN BLDG 32 LED - E 34 GSD1800000021	24CZ-LI	Number: D5-40SE-S-UNV-L	835-CD1-	Type: LINE RSK18-9449
Important Maintennes [170] Statistication Statistication Statistion St	Maintenance (Boy000 hour) L70 (Boy000 hour) 25°C > 80% 3861 26°C > 80% 3860 26°C > 80% 3870% 28°C > 80% 9861 28°C > 80% 9861 28°C > 80% 9861 28°C > 80% 9861 28°C > 9861 9861 28°C > 9866 9861 <td< th=""><th>LUMEN MAINTENANCE</th><th><u> </u></th><th></th><th>90 CRI</th><th></th><th> 24CZ</th></td<>	LUMEN MAINTENANCE	<u> </u>		90 CRI		24CZ
Importation (60,000 hours) (Hours) 28°C > 80% 0.881 28°C > 80% 0.885 28°C > 80% 0.885 28°C 0.885 0.885 28°C 0.886 0.887 28°C 0.887 0.886 0.887 28°C 0.997 0.997 0.997 0.997 28°C 0.997 0.997 0.997 0.997 28°C 0.997 0.997 0.997 0.997 0.997 28°C 0.997 0.997<	Immergenzing (60.000 hours) (Hours) 25°C > 80% > 186.000 Stock 0.881 GODOR	TM-2	21 Lumen Theoretical		Lumen Adjustme	nt Factors 80->90	0 CRI
25°C > 80% > 180,000 25°C > 100,000 > 100,000 25°C > 100,000	25°C > 80% > 186,000 25°C > 80% > 186,000 25°C > 80% > 186,000 26°C > 80% > 0.85° 26°C > 80% > 0.87° 26°C > 0.87° > 0.87° 26°C > 0.87° > 0.87° 26°C > 0.86° > 0.87° 26°C > 0.87° > 0.87°				3000K	0.88	
u u	widdow 0.0865 book 0.0875				3500K	0.861	
ATM PARENT PA	Example of Lumen Digitation o	25 C	> 100,000				
Adjustment claudinion Data Support of the support	Aljustment Calculation D2G2 LDG AL-UNW LBS CD - U Bis down Low Bar 2.3.13 ml Construction DDEELING INFORMATION Construction DETERMINE INFORMATION Construction Determine Information Determine Inform				5000K	0.87	
<complex-block> Descendence DEDENION INFORMATION CPECIFICIN INFORMATION DEDENION INFORMATION CPECIFICIN INFORMATION DEDENION INFORMATION CPECIFICIN INFORMATION United and an additional distance dis</complex-block>	<complex-block> Apple Law De 1-3 data Me DEDECING INFORMATION SAME IN SUBJECT 32 C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Same III Image: C22-LDD -65-UNV-LDS-CDD-10 Same IIII Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-CDD-10 Image: C22-LDD -65-UNV-LDS-10 Image: C23-UNV-LDS-10</complex-block>				Adjustmen 24CZ-LD5-40-U at 90CR Lumen Adjustm	nt Calculation JNV-L835-CD1-U I at 3500K ment Factor = 0.86	
OBJERING INFORMATION Set 10 SUBJECTION DIMENSION Set 10 SUBJECTION DIMENSION Set 10 Subject 10 Set 10	OBJERLING INFORMATION SATE SATELE NUMBER: 2422.059.45.UNV-L835-C01-U Image: Sate Sate Sate Sate Sate Sate Sate Sate				3,964 lm x 0.	.861 = 3,413 lm	N
Selftegrated Sensor L=LumaWatt ⁽¹¹⁾ 1= -144 Square Feet L=LumaWatt ⁽¹¹⁾ 1= -144 Square Feet PALC=Job V=Analog (0-10V) Output for Local Control ⁽⁸⁾ V=Analog (0-10V) Output for Local Control ⁽⁸⁾ ACCESSORIES W=WaveLinx W=Wreless Integral ⁽¹²⁾ DF-20 and Solf (12) DF-20 and Solf (12) DF-20 and Solf (12) W=WaveLinx W=WaveLinx DF-20 and Solf (12) DF-20 and Solf (12) DF-20 and Solf (12) WT=Wireless Integral ⁽¹²⁾ WT=Wireless Integral ⁽¹²⁾ SK-24-WS=2' × 4' Shallow Surface Mount Kit SK-24-WS=2' × 4' Shallow Surface Mount Kit SK-24-WS=2' × 4' Shallow Surface Mount Kit SH-02-Decorator Dimmer, 0-10V SHI-02-Decorator Dimmer, 0-10V SHI-02=Personal Control Remote for Integrated Sensor ISH+02=Personal Control Remote for Integrated Sensor IsH+02=Personal Control Remote for Integrated Sensor ISH-02=Personal Control Remote for Integrated Sensor Motest: ⁽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 operation available. ⁽³⁾ Must be used in conjunction with a DL cornol system. For a complete listing of Fifth Light Technology products and other Subions from Cooper Controls, Wist www.exon.com/lightiggsystems. Muter to transfer fixture to secondary prewired to the driver for stand-alone control. ⁽⁶⁾ Step dim driver option is not avail	Selftegrated Sensor L=LumaWatt ⁽¹¹⁾ L=LumaWatt ⁽¹¹⁾ D=Dimming Daylight 1= -144 Square Feet Harvesting (Closed Loop) PALC=Job Pack, in carton Control Type DV=Dual Band ⁽⁰⁾ V=Analog (0-10V) Output for Local Control ⁽⁰⁾ W=WaveLinx WI-Wireless Integral ⁽¹²⁾ WT=Wireless Integral ⁽¹²⁾ WT=Wireless Tile ^{(13), (14)} KT=Wireless Tile ^{(13), (14)} WT=Wireless Tile ^{(13), (14)}	Rating Blank= Standard ATW-SW4= Chicago Rated Series ⁽¹⁴⁾ 24CZ=2x4 Cruze Series Door Frame Standard=Flat White Steel	Lamp Type LDS=LED 5.0 Cruze Lumen Output 30=3000 Lumens 35=3500 Lumens 40=4000 Lumens 55=5500 Lumens 60=6000 Lumens 60=6000 Lumens 60=6000 Lumens 70=7000 Lumens 72=7500 Lumens 30SE=3000 Lumens 30SE=3000 Lumens 30SE=3000 Lumens 30SE=3000 Lumens 30SE=3000 Lumens 55SE=5500 Lumens 40SE=4000 Lumens 55SE=5500 Lumens MOE=4000 Lumens 60SE=6000 Lumens 55SE=5500 Lumens MTO Lumen Output 60SE=6500 Lumens Stielding Blank=Ribbed Frosted Acrylic Lens (standard) S=Smooth Lens with Square Pattern Insert RDP=Smooth Lens with Round	347V=347 Voit ^{®)} UNV=Universal Voltage 120-277 Options Emergency EL7W=7-watt, 120V-277V en battery pack installed ^{®)} EL14W=14-watt 120V-277V d battery pack installed ^{®)} GTD2=Bodine Generator Tra GTD2=Bodine Generator Tra CCT L830=3000K L840=4000K L840=4000K L930=3500K L940=4000K L940=4000K L940=4000K L940=4000K L940=4000K L940=4000K L940=4000K L940=4000K	CD=0-10V Dim (10% - 100% D HCD=0-10V Di (1% - 10 SD=Step-Dim SLTD=Fifth Lig SR=Sensor Re- emergency ansfer Device (**) nsfer Switch (**)	1= 2= 2= 2= 2= 2= 2= 2= 2= 2= 2	: 1 Driver :2 Drivers 00% Dimming) ^{(4), (7)}
DV=Dual Band (III) ACCESSORIES V=Analog (0-10V) Output for Local Control (III) E0-CLIP-UET-FAR Safety Earthquake Clips (III) W=Wireless Integral (III2) E0-CLIP-UET-FAR Safety Earthquake Clips (III) WT=Wireless Tile (III), (III) Fig. (III) WT=Wireless Tile (III) SK-24-WS=2' x 4' Shallow Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit SK-24-WS=2' x 4' Tall Surface Mount Kit	DV=Dual Band (III) ACCESSORIES V=Analog (0-10V) Output for Local Control (III) EO-CLIP-U-T-BAR Safety Earthquake Clips (III) W=Wireless Integral (III) EO-CLIP-U-T-BAR Safety Earthquake Clips (III) WT=Wireless Integral (III) EO-CLIP-U-T-BAR Safety Earthquake Clips (III) WT=Wireless Tile (IIII) IIII) EO-CLIP-U-T-BAR Safety Earthquake Clips (IIII) WT=Wireless Tile (IIII) IIIII) EO-CLIP-U-T-BAR Safety Earthquake Clips (IIIIIIII) WT=Wireless Tile (IIII) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	S=Integrated Sensor L=LumaWatt ⁽¹¹⁾	P=Passive Infrared D=Dimmi	ing Daylight 1=~144 Sq	uare Feet U=Unit Pack PALC=Job		
tor/laser test. For approximate delivered lumens multiply the Tumens per watt of the desired fixture by the wattage of the emergency batter values (100 Im/W x 7-2700 Iumens). IES-format photometry for luminaire unders emergency operation available. ⁽⁴⁾ Must be used in conjunction with a DALI control system. For a complete listing of fifth Light Technology products and other solutions from Cooper Controls, visit www.eaton.com/lightingsystems. ⁽³⁾ Integral sensor works with CD and HCD drivers and is factory prewired to the driver for stand-alone control. ⁽⁴⁾ Step dim driver option is not available with 3000, 3500, 4000, 7000 and 7500 lumen packages and 3000SE, 3500SE 600SE and 5500SE versions. ⁽¹⁶⁾ Fifth Light (SLTD) driver option is not available with 3000, 3500 and 4000 lumen packages and 300SE sensions. ⁽¹⁶⁾ Firol views with 3700 and 7500 lumen packages and 300SE, 3500 and 5500SE versions. ⁽¹⁶⁾ Frovides Shark band on opposite side from sensor available with 3000, attraver option enceptores with 7000 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor are not available with emergency options. 347V driver option requires two drivers with 7000 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor are not available with emergency options. ⁽¹⁷⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 100 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor with 700 and 7500 lumen packages. ⁽¹⁶⁾ Autor option sensor	tor/laser test. For approximate delivered lumens multiply the Tumens per watt of the desired fixture by the wattage of the emergency patter," pack 100 Im/W x 7=700 Iumens). IES-format photometry [®] for luminaire un emergency operation available. ⁽⁴⁴⁾ Must be used in conjunction with a DALI control system. For a complete listing of Fifth Light Technology products and other solutions from Cooper Controls, visit www.eaton.com/lightingsystem. ⁽⁴⁴⁾ Integral sensor works with CD and HCD drivers and is factory prewired to the driver for stand-alone control. ⁽⁴⁵⁾ Step dim driver option is not available with 3000, 3000, 4000, 7000 and 7500 Iumen packages and 3000SE, 6000SE and 6500SE versions. ⁽⁴⁷⁾ Fifth Light (SLTD) driver option is not available with 3000, 3500 and 4000 Iumen packages and 3000SE and 5500SE versions. ⁽⁴⁷⁾ Firb/Light (SLTD) driver option is not available with 3000, 3500 and 4000 Iumen packages and 3000SE and 5500SE versions. ⁽⁴⁷⁾ Firb/Light (SLTD) arXiv option requires vitor) 300 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR drivers with 3704 and 7500 Iumen packages. SD, SLTD, and SR driver compatible with 100 and HCD drives and, "I ⁴¹ UNT essore to control system. For complete Luma/Watt Pro vireless solutions, visit www.eaton.com/Iumawattpro. ¹¹⁰ SR driver compatible with 100 and HCD drives and, "I ⁴¹ UNT essore is external to luminaire, cable factory	DV=Dual Band ⁽⁸⁾ V=Analog (0-10V) Output fo W=WaveLinx WI=Wireless Integral ⁽¹²⁾	or Local Control ⁽⁸⁾		A C C E S S C EQ-CLIP-U=T- DF-24-W=2' × SK-24-W5=2' SK-24-WT=2' DF10P-C=De SF10P-=De SF10P-=Prog	PRIES BAR Safety Earthquake 4' Drywall Frame Kit x 4' Shallow Surface Moun corator Dimmer, 0-10V orator Slide Dimmer, 0 rramming Remote for 1	/ Mount Kit / / -/0V Integrated Sensor
and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.		tor/laser test. For approximate de emergency operation available. ⁶ (⁶) Integral sensor works with CD 3500SE, 600SE and 6500SE vers band to provide symmetric appe available but not DLC qualified. ¹⁰ under emergency power. ¹⁰¹ Mus only. ⁽¹¹² LVT compatible with CD	alivered lumens multiply the lumens per watt of the desi ⁴⁰ Must be used in conjunction with a DALI control system. F and HCD drivers and is factory prewired to the driver for sions. ¹⁰ Jifth Light (5LTD) driver option is not available with ence. ¹⁰⁸ J2V versions are not available with emergen ¹⁰⁹ Used to transfer fixture to secondary power source for the used in conjunction with a LumaVMat TPc control and HCD drivers only. ¹⁰⁴ LWM sensor is external to lum	red fixture by the wattage of the eme for a complete listing of Fifth Light Tech s stand-alone control. ⁽⁶⁾ Step dim driv vith 3000, 3500 and 4000 lumen pack cy options. 347V driver option require r life-safety operation. When used wii stem. For complete LumaWatt Pro w inaire, cable factory wired. ⁽¹⁵⁾ Made-	argency battery pack (100 lm/W x 7=700 nology products and other solutions fron ver option is not available with 3000, 35 ages and 3000SE and 3500SE versions. se two drivers with 7000 and 7500 lume th a dimming fixture, two devices are re vireless solutions, visit www.eaton.com	I lumens). IES-format photo n Cooper Controls, visit www 00, 4000, 7000 and 7500 lur ⁽⁸⁾ Provides blank band on in packages. SD, 5LTD, and equired to ensure control is /lumawattpro. ⁽¹²⁾ SR driver	ometry for luminaire under w.eaton.com/lightingsystems. men packages and 3000SE, opposite side from sensor 1 SR drivers with 347V are s disabled while operating r compatible with LWI option

			Catalog N	lo. Wt.	
	Eaton 1121 Highway 74 South		24CZ-LD5	-45 20.5 lbs.	
Powering Business Worldwide	Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting	Specifications and dimensions subject to change without notice.	24CZ-LD5	i-55 20.5 lbs.	PS519142EN 1-9-2018

	Catalog Number:	Type:
Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 32 & 34 GSD1800000021	24CZ-LD5-40SE-S-UNV-L835-CD1- PALC Notes:	LINE1

24CZ LED

INTEGRATED SENSOR

The Cruze 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 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 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

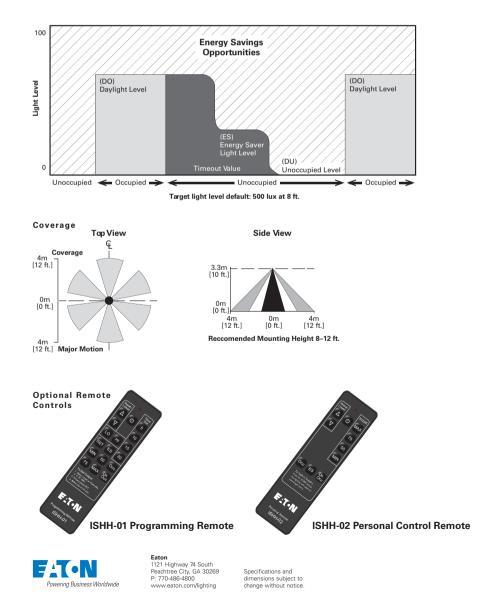
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Cruze with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

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.



PS519142EN 1-9-2018

Submitted On: Jun 11, 2018

Type:

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 0-10V 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 . 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80. Projected life is 60,000 hours at 80% lumen output. cULus listed. Electronic drivers are available for 120-277V and 347V applications.

Emergency Battery Pack Option

Optional 120v-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

Catalog #

Comments

Prepared by

Project

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°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.



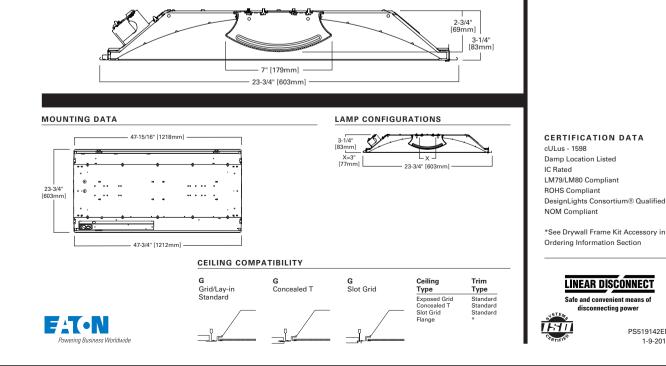
LED

2' X 4' TROFFER LED MODULE

Specification Grade Troffer







Submitted On: Jun 11, 2018

Index Page

PS519142EN

1-9-2018



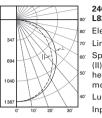
Date

LINE2

	Catalog Number:	Type:
Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 32 & 34 GSD1800000021	24CZ-LD5-40SE-S-UNV-EL7W-L835- CD1-PALC _{Notes:}	LINE2
		RSK18-9449

24CZ LED

PHOTOMETRICS



24CZ-LD5-40-UNV- L835-CD1-U	C
Electronic Driver	0
Linear LED 3500K	5 10
Spacing criterion: (II) 1.2 x mounting height, (\perp) 1.26 x mounting height Lumens: 3964	15 20 25 30 35 40
Input Watts: 29W	45
Efficacy: 136.7 lm/W	55
Test Report: 24CZ-LD5-40-UNV- L835-CD1-U.IES	60 65 70 75

NV-	Candlepower											
	Angle	Along II	45°	Across \perp								
er	0	1385	1385	1385								
0K	5	1379	1375	1383								
UK	10	1355	1354	1364								
on:	15	1316	1322	1334								
ing x	20	1261	1273	1292								
	25	1193	1213	1237								
ht	30	1115	1144	1174								
nt	35	1024	1064	1101								
	40	930	978	1023								
N	45	830	889	943								
vv	50	726	797	857								
lm/W	55	623	704	770								
	60	519	608	679								
	65	415	512	590								
NV-	70	309	417	497								
5	75	211	326	375								
	80	116	219	234								
	85	45	87	81								
	90	0	0	0								

Coefficients of Utilization

	Effe	ectiv	e flo	or cav	ity ref	lecta	nce	20	1%									
rc		8	0%			7	'0%			50	%		30%	6		10%	6	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
6 7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

Zonal Lumen Summary Luminance Data

Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	1065	26.9	45	1798	1926	2043
0-40	1731	43.7	55	1664	1880	2056
0-60	3043	76.8	65	1504	1856	2138
0-90	3964	100.0	00	1249	1929	2219
0-180	3964	100.0	85	791	1529	1423

\vdash	_				90'
		M	110		80'
4	32	111	X	The second	70'
8	64	H	(K)	\wedge	60'
12	95	+	X	\mathbf{i}	50'
17	27	+	P	$\left(\right)$	40'
	(0° 10°	20"	30"	

L835-CD1-U Electronic Driver Linear LED 3500 Spacing criterion (II) 1.2 x mountin height, (\perp) 1.26 x mounting heigh Lumens: 4988 Input Watts: 40.6 Efficacy: 122.9 In Test Report: 24CZ-LD5-50-UN L835-CD1-U.IES

24CZ-LD5-50-UNV-	Candlepower									
L835-CD1-U	Angle	Along II	45°	Across 1						
Electronic Driver	0	1726	1726	1726						
Linear LED 3500K	5	1718	1712	1722						
	10	1689	1686	1699						
Spacing criterion:	15	1639	1644	1661						
(II) 1.2 x mounting	20	1572	1586	1607						
height, (⊥) 1.26 x	25	1490	1512	1541						
mounting height	30	1392	1426	1463						
mounting neight	35	1285	1330	1374						
Lumens: 4988	40	1170	1225	1284						
Input Watts: 40.6W	45	1048	1116	1186						
input watts. 40.000	50	921	1005	1079						
Efficacy: 122.9 lm/W	55	793	891	974						
Test Danserts	60	664	774	860						
Test Report:	65	536	654	740						
24CZ-LD5-50-UNV-	70	404	533	626						
L835-CD1-U.IES	75	278	412	469						
	80	156	272	294						
	85	61	112	101						
	90	0	0	0						
ation										

Coefficients of Utilization

	Effe	ectiv	e floo	or cav	ity ref	lecta	nce	20	%									
rc		8	0%			7	0%			50	6		30%	6		10%	0	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	_																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

Zonal Lumen Summary

Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	1326	26.6	45	2270	2417	2569
0-40	2159	43.3	55	2118	2379	2601
0-60	3815	76.5	65	1943	2370	2682
0-90	4988	100.0	75	1645	2438	2775
0-180	4988	100.0	85	1072	1968	1775

Luminance Data



2/6

Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 32 & 34 GSD1800000021

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

RSK18-9449

Type:

24CZ LED

LINE2

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Ribbed Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
МТО	24CZ-LD5-30-UNV-L830-CD1-U	2833	21.6	131
МТО	24CZ-LD5-30-UNV-L835-CD1-U	3010	21.6	139
МТО	24CZ-LD5-30-UNV-L840-CD1-U	3070	21.6	142
МТО	24CZ-LD5-30-UNV-L850-CD1-U	3321	21.6	154
MTO	24CZ-LD5-35-UNV-L830-CD1-U	3289	25.3	130
MTO	24CZ-LD5-35-UNV-L835-CD1-U	3494	25.3	138
MTO	24CZ-LD5-35-UNV-L840-CD1-U	3564	25.3	141
MTO	24CZ-LD5-35-UNV-L850-CD1-U	3855	25.3	152
МТО	24CZ-LD5-40-UNV-L830-CD1-U	3731	29.0	128
STOCK	24CZ-LD5-40-UNV-L835-CD1-U	3964	29.0	137
STOCK	24CZ-LD5-40-UNV-L840-CD1-U	4043	29.0	139
МТО	24CZ-LD5-40-UNV-L850-CD1-U	4374	29.0	151
МТО	24CZ-LD5-45-UNV-L830-CD1-U	4207	35.7	118
МТО	24CZ-LD5-45-UNV-L835-CD1-U	4469	35.7	125
МТО	24CZ-LD5-45-UNV-L840-CD1-U	4558	35.7	128
МТО	24CZ-LD5-45-UNV-L850-CD1-U	4931	35.7	138
МТО	24CZ-LD5-50-UNV-L830-CD1-U	4695	40.7	115
STOCK	24CZ-LD5-50-UNV-L835-CD1-U	4988	40.7	123
STOCK	24CZ-LD5-50-UNV-L840-CD1-U	5088	40.7	125
МТО	24CZ-LD5-50-UNV-L850-CD1-U	5503	40.7	135
МТО	24CZ-LD5-55-UNV-L830-CD1-U	5181	45.8	113
МТО	24CZ-LD5-55-UNV-L835-CD1-U	5504	45.8	120
МТО	24CZ-LD5-55-UNV-L840-CD1-U	5614	45.8	123
МТО	24CZ-LD5-55-UNV-L850-CD1-U	6073	45.8	133
МТО	24CZ-LD5-60-UNV-L830-CD1-U	5741	52.2	110
МТО	24CZ-LD5-60-UNV-L835-CD1-U	6099	52.2	117
МТО	24CZ-LD5-60-UNV-L840-CD1-U	6221	52.2	119
МТО	24CZ-LD5-60-UNV-L850-CD1-U	6729	52.2	129
МТО	24CZ-LD5-65-UNV-L830-CD1-U	6193	57.6	107
МТО	24CZ-LD5-65-UNV-L835-CD1-U	6579	57.6	114
MTO	24CZ-LD5-65-UNV-L840-CD1-U	6711	57.6	116
MTO	24CZ-LD5-65-UNV-L850-CD1-U	7259	57.6	126
МТО	24CZ-LD5-70-UNV-L830-CD1-U	6668	64.2	104
МТО	24CZ-LD5-70-UNV-L835-CD1-U	7084	64.2	110
мто	24CZ-LD5-70-UNV-L840-CD1-U	7226	64.2	113
мто	24CZ-LD5-70-UNV-L850-CD1-U	7816	64.2	122
МТО	24CZ-LD5-75-UNV-L830-CD1-U	7052	69.1	102
мто	24CZ-LD5-75-UNV-L835-CD1-U	7491	69.1	108
МТО	24CZ-LD5-75-UNV-L840-CD1-U	7641	69.1	111
МТО	24CZ-LD5-75-UNV-L850-CD1-U	8265	69.1	120

Stock or MTO*	Catalog Logic (Ribbed Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	24CZ-LD5-30SE-UNV-L830-CD1-U	2878	23.5	122
STOCK	24CZ-LD5-30SE-UNV-L835-CD1-U	3057	23.5	130
STOCK	24CZ-LD5-30SE-UNV-L840-CD1-U	3118	23.5	133
MTO	24CZ-LD5-30SE-UNV-L850-CD1-U	3373	23.5	144
MTO	24CZ-LD5-35SE-UNV-L830-CD1-U	3324	28.6	116
STOCK	24CZ-LD5-35SE-UNV-L835-CD1-U	3531	28.6	124
STOCK	24CZ-LD5-35SE-UNV-L840-CD1-U	3602	28.6	126
MTO	24CZ-LD5-35SE-UNV-L850-CD1-U	3896	28.6	136
MTO	24CZ-LD5-40SE-UNV-L830-CD1-U	3783	32.6	116
STOCK	24CZ-LD5-40SE-UNV-L835-CD1-U	4019	32.6	123
STOCK	24CZ-LD5-40SE-UNV-L840-CD1-U	4099	32.6	126
MTO	24CZ-LD5-40SE-UNV-L850-CD1-U	4434	32.6	136
MTO	24CZ-LD5-45SE-UNV-L830-CD1-U	4304	39.9	108
STOCK	24CZ-LD5-45SE-UNV-L835-CD1-U	4572	39.9	115
STOCK	24CZ-LD5-45SE-UNV-L840-CD1-U	4663	39.9	117
MTO	24CZ-LD5-45SE-UNV-L850-CD1-U	5044	39.9	126
MTO	24CZ-LD5-50SE-UNV-L830-CD1-U	4788	46.6	103
STOCK	24CZ-LD5-50SE-UNV-L835-CD1-U	5086	46.6	109
STOCK	24CZ-LD5-50SE-UNV-L840-CD1-U	5188	46.6	111
MTO	24CZ-LD5-50SE-UNV-L850-CD1-U	5612	46.6	121
MTO	24CZ-LD5-55SE-UNV-L830-CD1-U	5216	54.7	95
MTO	24CZ-LD5-55SE-UNV-L835-CD1-U	5541	54.7	101
MTO	24CZ-LD5-55SE-UNV-L840-CD1-U	5652	54.7	103
MTO	24CZ-LD5-55SE-UNV-L850-CD1-U	6114	54.7	112
MTO	24CZ-LD5-60SE-UNV-L830-CD1-U	5611	60.0	94
MTO	24CZ-LD5-60SE-UNV-L835-CD1-U	5961	60.0	99
MTO	24CZ-LD5-60SE-UNV-L840-CD1-U	6080	60.0	101
MTO	24CZ-LD5-60SE-UNV-L850-CD1-U	6577	60.0	110
MTO	24CZ-LD5-65SE-UNV-L830-CD1-U	6154	59.6	103
MTO	24CZ-LD5-65SE-UNV-L835-CD1-U	6537	59.6	110
MTO	24CZ-LD5-65SE-UNV-L840-CD1-U	6668	59.6	112
МТО	24CZ-LD5-65SE-UNV-L850-CD1-U	7213	59.6	121

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

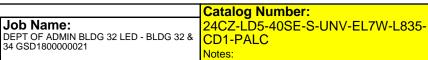
*Made to order (MTO) requires a typical three week lead time.



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

Specifications and dimensions subject to change without notice.

PS519142EN 1-9-2018



LINE2 RSK18-9449

Type:

24CZ LED

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

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-LD5-30-S-UNV-L835-CD1-U	3070	21.6	142
MTO	24CZ-LD5-30-S-UNV-L840-CD1-U	3132	21.6	145
MTO	24CZ-LD5-30-S-UNV-L850-CD1-U	3387	21.6	157
MTO	24CZ-LD5-35-S-UNV-L830-CD1-U	3355	25.3	132
МТО	24CZ-LD5-35-S-UNV-L835-CD1-U	3564	25.3	141
MTO	24CZ-LD5-35-S-UNV-L840-CD1-U	3635	25.3	144
МТО	24CZ-LD5-35-S-UNV-L850-CD1-U	3932	25.3	155
МТО	24CZ-LD5-40-S-UNV-L830-CD1-U	3806	29.0	131
МТО	24CZ-LD5-40-S-UNV-L835-CD1-U	4043	29.0	139
MTO	24CZ-LD5-40-S-UNV-L840-CD1-U	4124	29.0	142
MTO	24CZ-LD5-40-S-UNV-L850-CD1-U	4461	29.0	154
MTO	24CZ-LD5-45-S-UNV-L830-CD1-U	4291	35.7	120
MTO	24CZ-LD5-45-S-UNV-L835-CD1-U	4558	35.7	128
MTO	24CZ-LD5-45-S-UNV-L840-CD1-U	4650	35.7	130
MTO	24CZ-LD5-45-S-UNV-L850-CD1-U	5029	35.7	141
MTO	24CZ-LD5-50-S-UNV-L830-CD1-U	4789	40.7	118
MTO	24CZ-LD5-50-S-UNV-L835-CD1-U	5088	40.7	125
MTO	24CZ-LD5-50-S-UNV-L840-CD1-U	5190	40.7	128
MTO	24CZ-LD5-50-S-UNV-L850-CD1-U	5614	40.7	138
MTO	24CZ-LD5-55-S-UNV-L830-CD1-U	5285	45.8	115
MTO	24CZ-LD5-55-S-UNV-L835-CD1-U	5614	45.8	123
MTO	24CZ-LD5-55-S-UNV-L840-CD1-U	5726	45.8	125
MTO	24CZ-LD5-55-S-UNV-L850-CD1-U	6194	45.8	135
MTO	24CZ-LD5-60-S-UNV-L830-CD1-U	5856	52.2	112
MTO	24CZ-LD5-60-S-UNV-L835-CD1-U	6221	52.2	119
MTO	24CZ-LD5-60-S-UNV-L840-CD1-U	6345	52.2	122
MTO	24CZ-LD5-60-S-UNV-L850-CD1-U	6864	52.2	132
MTO	24CZ-LD5-65-S-UNV-L830-CD1-U	6317	57.6	110
MTO	24CZ-LD5-65-S-UNV-L835-CD1-U	6711	57.6	116
MTO	24CZ-LD5-65-S-UNV-L840-CD1-U	6845	57.6	119
MTO	24CZ-LD5-65-S-UNV-L850-CD1-U	7404	57.6	128
MTO	24CZ-LD5-70-S-UNV-L830-CD1-U	6802	64.2	106
MTO	24CZ-LD5-70-S-UNV-L835-CD1-U	7226	64.2	113
MTO	24CZ-LD5-70-S-UNV-L840-CD1-U	7370	64.2	115
MTO	24CZ-LD5-70-S-UNV-L850-CD1-U	7972	64.2	124
MTO	24CZ-LD5-75-S-UNV-L830-CD1-U	7193	69.1	104
MTO	24CZ-LD5-75-S-UNV-L835-CD1-U	7641	69.1	111
МТО	24CZ-LD5-75-S-UNV-L840-CD1-U	7794	69.1	113
МТО	24CZ-LD5-75-S-UNV-L850-CD1-U	8430	69.1	122

Standard I	Efficacy Versions			
Stock or MTO*	Catalog Logic (Smooth Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	24CZ-LD5-30SE-S-UNV-L830-CD1-U	2935	23.5	125
MTO	24CZ-LD5-30SE-S-UNV-L835-CD1-U	3118	23.5	133
MTO	24CZ-LD5-30SE-S-UNV-L840-CD1-U	3181	23.5	135
MTO	24CZ-LD5-30SE-S-UNV-L850-CD1-U	3440	23.5	146
MTO	24CZ-LD5-35SE-S-UNV-L830-CD1-U	3390	28.6	119
MTO	24CZ-LD5-35SE-S-UNV-L835-CD1-U	3602	28.6	126
MTO	24CZ-LD5-35SE-S-UNV-L840-CD1-U	3674	28.6	129
MTO	24CZ-LD5-35SE-S-UNV-L850-CD1-U	3974	28.6	139
MTO	24CZ-LD5-40SE-S-UNV-L830-CD1-U	3859	32.6	119
MTO	24CZ-LD5-40SE-S-UNV-L835-CD1-U	4099	32.6	126
MTO	24CZ-LD5-40SE-S-UNV-L840-CD1-U	4181	32.6	128
MTO	24CZ-LD5-40SE-S-UNV-L850-CD1-U	4523	32.6	139
MTO	24CZ-LD5-45SE-S-UNV-L830-CD1-U	4390	39.9	110
MTO	24CZ-LD5-45SE-S-UNV-L835-CD1-U	4663	39.9	117
MTO	24CZ-LD5-45SE-S-UNV-L840-CD1-U	4757	39.9	119
MTO	24CZ-LD5-45SE-S-UNV-L850-CD1-U	5145	39.9	129
MTO	24CZ-LD5-50SE-S-UNV-L830-CD1-U	4883	46.6	105
MTO	24CZ-LD5-50SE-S-UNV-L835-CD1-U	5188	46.6	111
MTO	24CZ-LD5-50SE-S-UNV-L840-CD1-U	5291	46.6	114
MTO	24CZ-LD5-50SE-S-UNV-L850-CD1-U	5724	46.6	123
MTO	24CZ-LD5-55SE-S-UNV-L830-CD1-U	5320	54.7	97
MTO	24CZ-LD5-55SE-S-UNV-L835-CD1-U	5652	54.7	103
MTO	24CZ-LD5-55SE-S-UNV-L840-CD1-U	5765	54.7	105
МТО	24CZ-LD5-55SE-S-UNV-L850-CD1-U	6236	54.7	114
MTO	24CZ-LD5-60SE-S-UNV-L830-CD1-U	5724	60.0	95
МТО	24CZ-LD5-60SE-S-UNV-L835-CD1-U	6080	60.0	101
МТО	24CZ-LD5-60SE-S-UNV-L840-CD1-U	6202	60.0	103
MTO	24CZ-LD5-60SE-S-UNV-L850-CD1-U	6709	60.0	112
MTO	24CZ-LD5-65SE-S-UNV-L830-CD1-U	6277	59.6	105
MTO	24CZ-LD5-65SE-S-UNV-L835-CD1-U	6668	59.6	112
MTO	24CZ-LD5-65SE-S-UNV-L840-CD1-U	6801	59.6	114
MTO	24CZ-LD5-65SE-S-UNV-L850-CD1-U	7357	59.6	123

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

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

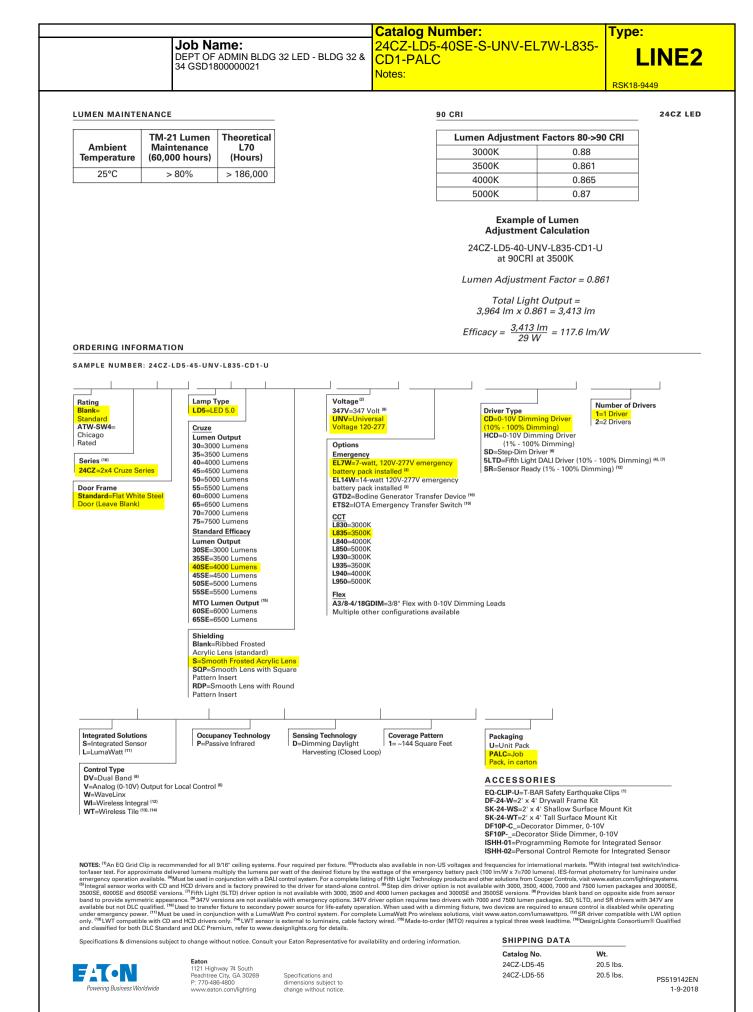


Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

PS519142EN 1-9-2018

Submitted On: Jun 11, 2018



Submitted On: Jun 11, 2018

	Catalog Number:	Type:
Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 3 34 GSD1800000021	^{32 &} 24CZ-LD5-40SE-S-UNV-EL7W-L835- CD1-PALC Notes:	LINE2

24CZ LED

INTEGRATED SENSOR

The Cruze 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 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 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

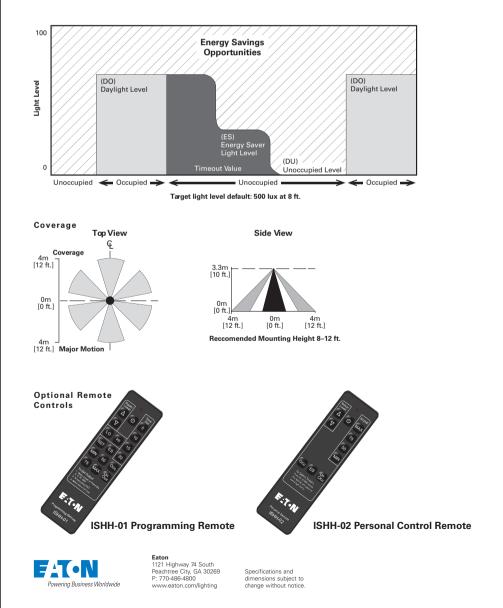
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Cruze with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

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.



Submitted On: Jun 11, 2018

PS519142EN

LINE3

Metalux

Type

Date

Type:

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 0-10V dimming drivers (1% standard).

Options compatible with Eaton's Connected Lighting Systems:

- WaveLinx sensor
- LumaWatt Pro sensor
- SVPD sensor
- DLVP sensor and driver

MOUNTING DATA

190

23-3/4" [603mm] 23-3/4" [603mm]

24" [609mm]

- 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 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80. Projected life is 60,000 hours at 79% lumen output. cULus listed. Electronic drivers are available for 120-277V and 347V applications.

Emergency Battery Pack Option Optional 120v-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.

> — 7" [179mm] — 23-3/4" [603mm]

Hinging/Latching

Catalog #

Project

Comments

Prepared by

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°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 LED

2' X 2' TROFFER LED MODULE

Specification Grade Troffer





CERTIFICATION DATA

cULus - 1598 Damp Location Listed IC Rated LM79/LM80 Compliant ROHS Compliant DesignLights Consortium® Qualified NOM Compliant

*See Drywall Frame Kit Accessory in Ordering Information Section





PS519141EN 1-22-2018

Submitted On: Jun 11, 2018

74**7.**•N

ng Business Worldwide

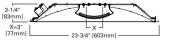
Slot Grid

Туре

Standard Standard

Standard

2-3/4" [69mm] 3-1/4" [83mm]



Ceiling Trim

Туре

Exposed Grid Concealed T

Slot Grid

Flange

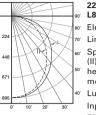
Grid/Lay-in Concealed T Standard

CEILING COMPATIBILITY

	Catalog Number:	Туре:
Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 32 34 GSD1800000021	^{&} 22CZ-LD5-39SE-S-UNV-L835-CD1- PALC Notes:	LINE3

22CZ LED

PHOTOMETRICS



22CZ-LD5-24-UNV- L835-CD1-U	Car Angl
Electronic Driver	0
Linear LED 3500K	5
Spacing criterion:	10 15
(II) 1.17 x mounting	20
height, (⊥) 1.25 x	25 30
mounting height	35
Lumens: 2470	40
Input Watts: 19.6W	45 50
Efficacy: 126.0 lm/W	55
Test Report:	60
22CZ-LD5-24-UNV-	65 70

L835-CD1-U.IES

V-	Cand	Candlepower							
	Angle	Along II	45°	Across \perp					
	0	893	893	893					
к	5	884	890	892					
IX.	10	866	875	879					
ו:	15	838	849	857					
ng	20	799	815	829					
0	25	753	774	793					
	30	701	725	750					
	35	641	670	703					
	40	577	611	651					
	45	511	551	602					
W	50	445	492	548					
n/W	55	379	432	490					
	60	313	372	434					
	65	249	311	374					
V-	70	186	251	315					
	75	126	193	231					
	80	74	122	140					
	85	30	47	46					
	90	0	0	0					

Coefficients of Utilization

	Effe	ectiv	e floo	or cav	ity ref	lecta	nce	20	%									
rc		8	0%			7	0%			50%	6		30%	, D		10%	Ď	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
6 7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

Angle in Deg 45 55 65 75

85

Luminance Data

Average 0-Deg cd/sm

2314 2116

1887 1559

1102

Average 45-Deg cd/sm 2495 2412

2357 2388

1727

Average 90-Deg cd/sm

2726 2736

2834 2858

1690

31 63

22CZ-LD5-34-UNV-	Cand	lepower	
L835-CD1-U	Angle	Along II	
Electronic Driver	0	1264	
Linear LED 3500K	5	1252	
	10	1226	
Spacing criterion:	15	1186	
(II) 1.17 x mounting	20	1133	
height, (⊥) 1.25 x	25	1066	
0	30	991	ĺ
mounting height	35	906	
Lumens: 3497	40	816	
Immut Matter 20 414/	45	726	
Input Watts: 29.4W	50	630	ĺ
Efficacy: 118.9 lm/W	55	537	
Teet Dements	60	443	
Test Report:	65	351	
22CZ-LD5-34-UNV-	70	262	ĺ
L835-CD1-U.IES	75	178	
	80	102	

river	0	1264	1264	1264
500K	5	1252	1260	1263
50010	10	1226	1239	1246
erion:	15	1186	1202	1215
unting	20	1133	1154	1173
25 x	25	1066	1095	1122
	30	991	1026	1061
eight	35	906	949	995
7	40	816	866	922
00 4147	45	726	782	851
29.4W	50	630	697	776
9 lm/W	55	537	612	696
	60	443	527	614
	65	351	439	529
-UNV-	70	262	356	445
IES	75	178	273	322
	80	102	170	198
	85	42	67	64
	90	0	0	0

45°

Across ⊥

Coefficients of Utilization

	Effe	ectiv	e flo	or cav	ity ref	lecta	nce	20	%									
rc		8	0%			7	0%			50%	6		30%	0		10%	6	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
1 2 3	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
5 6 7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

Zonal Lumen Summary

Zona	l Lumen	Summary	Lumin	ance Data		
Zone	Lumens	% Fixture	Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	962	27.5	- 45	3288	3542	3854
0-40	1557	44.5	55	2998	3417	3886
0-60	2711	77.5	65	2660	3327	4009
0-90	3497	100.0	75	2202	3378	3984
0-180	3497	100.0	85	1543	2462	2352

LUMEN MAINTENANCE

Zonal Lumen Summary

680

1099

1915

2470

2470

Zone 0-30

0-40

0-60

0-90

0-180

Lumens % Fixture

27.5

44.5

77.5

100.0

100.0

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 79%	> 178,000

90 CRI

Lumen Adjustment Factors 80->90 CRI					
3000K	0.88				
3500K	0.861				
4000K	0.865				
5000K	0.87				

Example of Lumen Adjustment Calculation

22CZ-LD5-34-UNV-L935-CD1-U at 90CRI at 3500K

Lumen Adjustment Factor = 0.861

Total Light Output = 3,497 lm x 0.861 = 3,010 lm

Efficacy = $\frac{3,010 \text{ Im}}{29.4 \text{ W}}$ = 102.3 Im/W



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

Specifications and dimensions subject to change without notice.

PS519141EN 1-22-2018

	Catalog Number:
Job Name:	22CZ-LD5-39SE-S-UNV-L835-CD1-
DEPT OF ADMIN BLDG 32 LED - BLDG 32 &	PALC
34 GSD1800000021	Notes:

RSK18-9449

LINE3

22CZ LED

Type:

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

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
МТО	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
МТО	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
мто	22CZ-LD5-24-UNV-L850-CD1-U	2725	19.6	139
мто	22CZ-LD5-29-UNV-L830-CD1-U	2729	23.5	116
МТО	22CZ-LD5-29-UNV-L835-CD1-U	2899	23.5	123
мто	22CZ-LD5-29-UNV-L840-CD1-U	2957	23.5	126
МТО	22CZ-LD5-29-UNV-L850-CD1-U	3199	23.5	136
мто	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
МТО	22CZ-LD5-34-UNV-L850-CD1-U	3858	29.4	131
мто	22CZ-LD5-39-UNV-L830-CD1-U	3701	36.4	102
МТО	22CZ-LD5-39-UNV-L835-CD1-U	3932	36.4	108
мто	22CZ-LD5-39-UNV-L840-CD1-U	4011	36.4	110
мто	22CZ-LD5-39-UNV-L850-CD1-U	4338	36.4	119
мто	22CZ-LD5-44-UNV-L830-CD1-U	4173	41.8	100
мто	22CZ-LD5-44-UNV-L835-CD1-U	4433	41.8	106
МТО	22CZ-LD5-44-UNV-L840-CD1-U	4522	41.8	108
МТО	22CZ-LD5-44-UNV-L850-CD1-U	4891	41.8	117

Stock or MTO*	Catalog Logic (Ribbed Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	22CZ-LD5-20SE-UNV-L830-CD1-U	1948	17.2	113
STOCK	22CZ-LD5-20SE-UNV-L835-CD1-U	2069	17.2	120
STOCK	22CZ-LD5-20SE-UNV-L840-CD1-U	2110	17.2	123
MTO	22CZ-LD5-20SE-UNV-L850-CD1-U	2283	17.2	133
MTO	22CZ-LD5-24SE-UNV-L830-CD1-U	2322	21.1	110
STOCK	22CZ-LD5-24SE-UNV-L835-CD1-U	2467	21.1	117
STOCK	22CZ-LD5-24SE-UNV-L840-CD1-U	2516	21.1	119
MTO	22CZ-LD5-24SE-UNV-L850-CD1-U	2722	21.1	129
MTO	22CZ-LD5-32SE-UNV-L830-CD1-U	3015	30.5	99
STOCK	22CZ-LD5-32SE-UNV-L835-CD1-U	3203	30.5	105
STOCK	22CZ-LD5-32SE-UNV-L840-CD1-U	3267	30.5	107
MTO	22CZ-LD5-32SE-UNV-L850-CD1-U	3534	30.5	116
MTO	22CZ-LD5-39SE-UNV-L830-CD1-U	3728	34.9	107
STOCK	22CZ-LD5-39SE-UNV-L835-CD1-U	3960	34.9	114
STOCK	22CZ-LD5-39SE-UNV-L840-CD1-U	4039	34.9	116
MTO	22CZ-LD5-39SE-UNV-L850-CD1-U	4369	34.9	125
MTO	22CZ-LD5-44SE-UNV-L830-CD1-U	4118	40.0	103
STOCK	22CZ-LD5-44SE-UNV-L835-CD1-U	4375	40.0	109
STOCK	22CZ-LD5-44SE-UNV-L840-CD1-U	4463	40.0	112
MTO	22CZ-LD5-44SE-UNV-L850-CD1-U	4827	40.0	121

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

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

Stock or MTO*	Catalog Logic (Smooth Lens)	Delivered Lumens	Watts	Efficacy (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
МТО	22CZ-LD5-20-S-UNV-L840-CD1-U	2170	16.4	132
МТО	22CZ-LD5-20-S-UNV-L850-CD1-U	2348	16.4	143
МТО	22CZ-LD5-24-S-UNV-L830-CD1-U	2372	19.6	121
МТО	22CZ-LD5-24-S-UNV-L835-CD1-U	2519	19.6	128
МТО	22CZ-LD5-24-S-UNV-L840-CD1-U	2570	19.6	131
МТО	22CZ-LD5-24-S-UNV-L850-CD1-U	2780	19.6	142
МТО	22CZ-LD5-29-S-UNV-L830-CD1-U	2784	23.5	118
МТО	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
МТО	22CZ-LD5-34-S-UNV-L840-CD1-U	3638	29.4	124
МТО	22CZ-LD5-34-S-UNV-L850-CD1-U	3936	29.4	134
МТО	22CZ-LD5-39-S-UNV-L830-CD1-U	3775	36.4	104
МТО	22CZ-LD5-39-S-UNV-L835-CD1-U	4011	36.4	110
МТО	22CZ-LD5-39-S-UNV-L840-CD1-U	4091	36.4	112
МТО	22CZ-LD5-39-S-UNV-L850-CD1-U	4425	36.4	122
МТО	22CZ-LD5-44-S-UNV-L830-CD1-U	4256	41.8	102
МТО	22CZ-LD5-44-S-UNV-L835-CD1-U	4522	41.8	108
МТО	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 MTO*	Catalog Logic (Smooth Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	22CZ-LD5-20SE-S-UNV-L830-CD1-U	1987	17.2	115
МТО	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
МТО	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
МТО	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
МТО	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
МТО	22CZ-LD5-32SE-S-UNV-L840-CD1-U	3332	30.5	109
МТО	22CZ-LD5-32SE-S-UNV-L850-CD1-U	3605	30.5	118
МТО	22CZ-LD5-39SE-S-UNV-L830-CD1-U	3802	34.9	109
МТО	22CZ-LD5-39SE-S-UNV-L835-CD1-U	4039	34.9	116
МТО	22CZ-LD5-39SE-S-UNV-L840-CD1-U	4120	34.9	118
МТО	22CZ-LD5-39SE-S-UNV-L850-CD1-U	4457	34.9	128
МТО	22CZ-LD5-44SE-S-UNV-L830-CD1-U	4201	40.0	105
МТО	22CZ-LD5-44SE-S-UNV-L835-CD1-U	4463	40.0	112
МТО	22CZ-LD5-44SE-S-UNV-L840-CD1-U	4552	40.0	114
МТО	22CZ-LD5-44SE-S-UNV-L850-CD1-U	4924	40.0	123

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

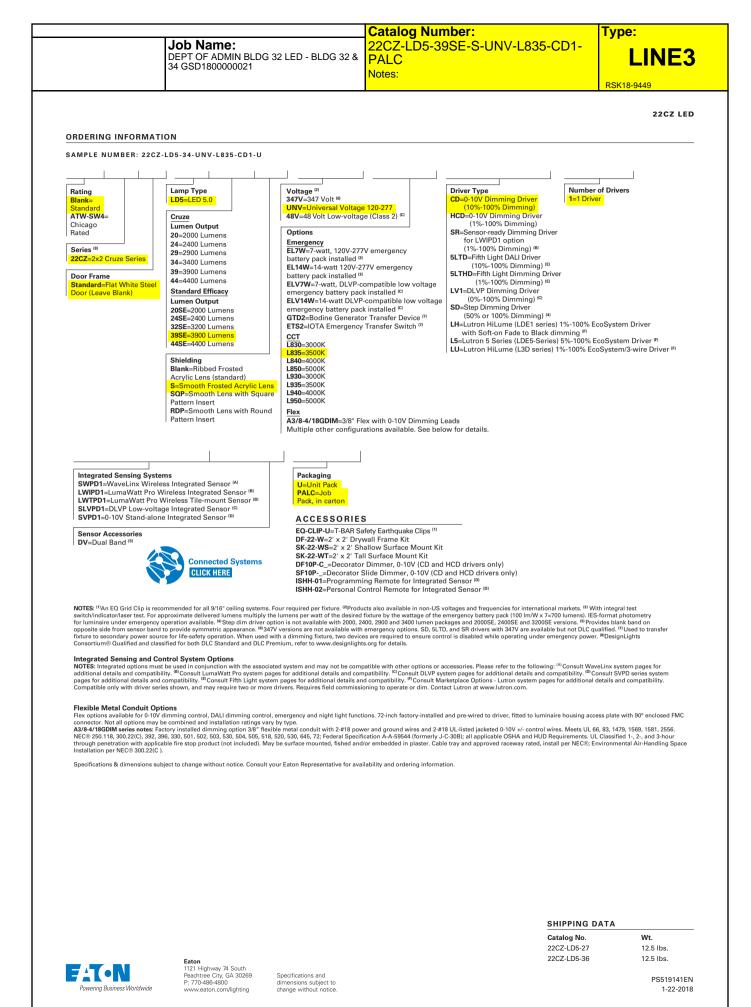
*Made to order (MTO) requires a typical three week lead time.



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

auth 80269 Specifications and dimensions subject to nting change without notice.

PS519141EN 1-22-2018



Submitted On: Jun 11, 2018

4/5

	Catalog Number:	Туре:
Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 3 34 GSD180000021	32 & 22CZ-LD5-39SE-S-UNV-L835-CD1- PALC Notes:	LINE3 RSK18-9449

22CZ LED

INTEGRATED SENSOR

The Cruze 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 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 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

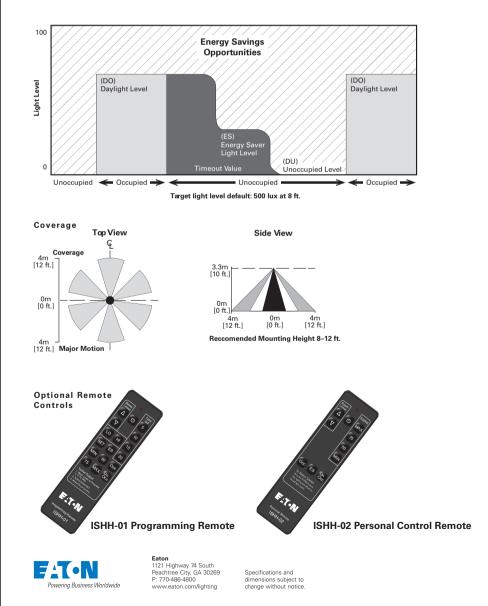
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Cruze with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

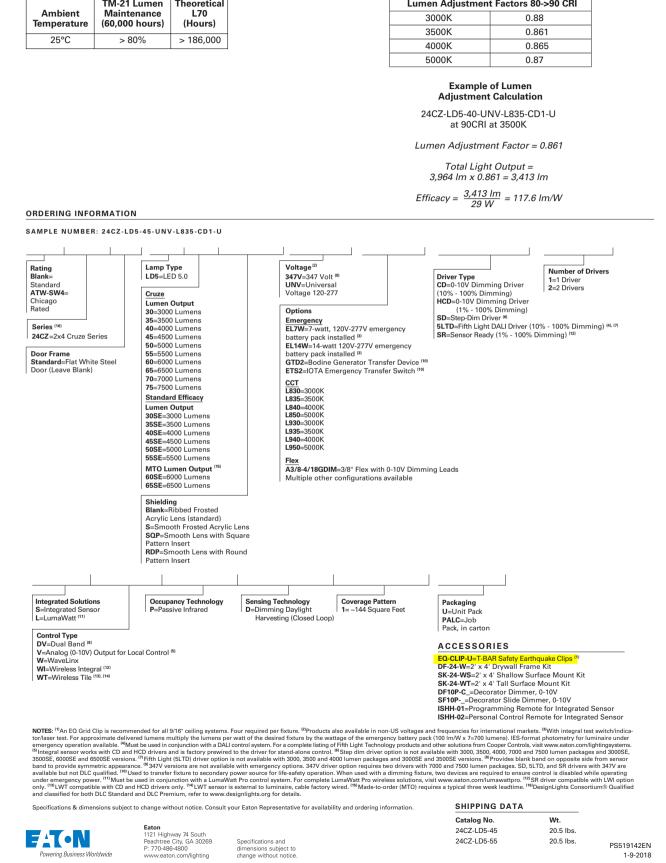
How it works:

- 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.



PS519141EN 1-22-2018

Job Name: DEPT OF ADMIN BLDG 32 LED - BLDG 32 & 34 GSD180000021	Catalog Number: EQ-CLIP-U Notes:	Type: LINE4
LUMEN MAINTENANCE	90 CRI	24CZ LED



ering Business Worldwide/

PS519142EN

1-9-2018

Notes:

RSK18-9449

Technical Data

Effective December 2016

0-10V dimmer sensor

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Туре:



OSW-P-010

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

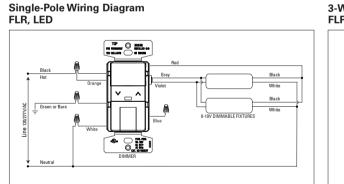
Table 1. 0-10V Dimmer Sensor

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

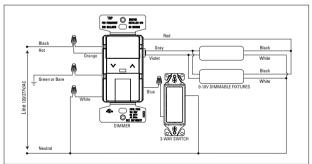
Compliances, specifications and availability are subject to change without notice.



	Job Name: DEPT OF ADMIN BLDG 3 34 GSD180000021	2 LED - BLDG 32 &	Catalog Number: OSW-P-010 ^{Notes:}	Type: LINE5 RSK18-9449
Fechnical Data Effective January 2017	7			0-10V dimmer sensor
Project Name:	Prepared By:			
Project Number:	Date:			
Catalog Number:	Type:			
		ـــــــــــــــــــــــــــــــــــــ	36'	Minor Motion, IR
(1067 mm) (83.3 mm)				Maximum coverage area may vary somewhat according to room shape and the presence of obstacles
=igure 1. OSW-P-010/ Wiring Diagram	لج عن المراجع ا VSW-P-010 Line Art with D	imensions		



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.

2

EATON www.eaton.com/wiringdevices

1.	- h. Namaa	Catalog Number:	Туре:
DE	OB Name: EPT OF ADMIN BLDG 32 LED - BLDG 32 &	OSW-P-010	LINE5
34	GSD180000021	Notes:	
			RSK18-9449
Technical Data			0-10V dimmer sens
Effective January 2017			
Project Name:	Prepared By:		
Project Number:	Date:		
Catalog Number:	Туре:		
Table 2. Specificatio	ns		
Catalog 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 Complian	ce • cULus Listed to UL244A & UL1472, file • NOM Certified • California Title 20 Compliant	no. E325082	
Environmental Specificat		s; V2 rated o 104°F)	
Electrical Specifications	Rating: 120V/AC 277V/AC at 60 Hz Light Intensity Control: Full-range, conti Surge Protection: Meets ANSI/IEEE Std 6000V and current surges of up to 3000A Radio Frequency Interference: Design audio and video equipment Power-failure Memory: Light returns to		
Mechanical Specification			
T			
Table 3. Materials			
Catalog No.	OSW-P-010, VSW-P-010 Series		
Catalog No. Top Housing	Polycarbonate		
Catalog No. Top Housing Bottom Housing	Polycarbonate Polycarbonate		
Catalog No. Top Housing Bottom Housing Strap	Polycarbonate Polycarbonate Aluminum		
Catalog No. Top Housing Bottom Housing	Polycarbonate Polycarbonate		

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



Certifications & Compliances

Catalog No.	c (UL) us	NOM 426
OSW-P-010	•	•
VSW-P-010	•	•

KEY: 🕲 s cULus 🙀 NOM



Eaton 1121 Highway 74 South Peachtree City, GA 30269 www.eaton.com/lightingsystems For service or technical assistance: 1-800-553-3879

© 2017 Eaton All Rights Reserved Printed in USA Publication No. TD620016EN January 4, 2017

Specifications and dimensions subject to change without notice.

WV-10 Approved / Revised 08/01/15 WENDOR 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 Virginia 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 certification; 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 80% of the 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 certification; 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,



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,



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.



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 Rules.

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.

ecteic Supply Bidder: M Date:

Signed: Title:

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

		Alternative Bid Item Manufacturer and				
Item #	I	Item Number	Unit Price	Qty	Extended Price	
	Holophane Troffer LED Light Fixture,	Metalux				
	Part No. HVT 2X4 DOP 3900LM 35K	24CZ-LD5-40SE-5-UNV-	1105		50 FF0 20	
	MVOLT MIN 10 80CRI ZT JP10, or	L835-CD1 - PALC	TIU	1380	\$ 98,877.00	
3.1.1	equal.					
	Holophane Troffer LED Light Fixture,	Metalux				
	Part No. HVT 2X4 DOP 3900LM 35K MVOLT MIN 10 80CRI ZT BR JP10, or	24 (7-LOS-40SE-S-UNV-	107,10	25	\$ 4559.00	
	MVOLT MIN 10 80CRI ZT BR JP10, or	EL 7W-1835- CC1- PALC	101.40	35	\$ \$ \$ 55-1	
3.1.2	equal.					
	Holophane Troffer LED Light Fixture,	Metalux				
	Part No. HVT 2X2 DOP 3900LM 35K	22CZ-LOS-39E-S-UNV-	59.20	65	\$ 3848.00	
	MVOLT MIN 10 80CRI ZT JP10, or	1835-CD1-PALC	.20	65	\$ 70-10	
3.1.3	equal.					
		Metalux	2 0 0	250	0 1100 00	
3.1.4	Seismic Lighting Fixture Clamp	EQ-CLIP-U	3.20	350	\$ [[20.00]	
	Acuity Controls, Dimming and	Cooper controls				
1	Occupancy Sensor Wall Switch, Part No.	05W-P-010	28.45	150	\$ 42,07,50	
3.1.5	WSX PDT D WH, or equal.					
	Total Bid Amount (includes shipping charges) \$ 川々」して「三					