

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

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GSD126405

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF

KRISTA FERRELL 304-558-2596

RFQ COPY
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PARKERSburg, WV. 26101

DEPARTMENT OF ADMINISTRATION
VARIOUS LOCALES AS INDICATED
BY ORDER

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



VENDOR

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER GSD126405 2

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DEPARTMENT OF ADMINISTRATION VARIOUS LOCALES AS INDICATED BY ORDER

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER GSD126405

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REQUEST FOR QUOTATIONS #GSD126405 PURCHASE OF EMERGENCY LIGHTING FOR VARIOUS DOA OWNED FACILITIES

Location:

West Virginia Department of Administration

General Services Division 1900 Kanawha Boulevard East Building One, Room MB60 Charleston, West Virginia 25305

For:

State of West Virginia General Services Division 1900 Kanawha Boulevard, East Building One, Room MB60 Charleston, West Virginia 25305

All inquiries for specification clarification shall be addressed to:
Krista Ferrell, Buyer Supervisor
Purchasing Division
P.O. Box 50130
Charleston, West Virginia 25305-0130
Fax: (304) 558-4115
krista.s.ferrell@wv.gov

The Acquisition and Contract Administration Section of the Purchasing Division "State" for the West Virginia General Services Division is soliciting quotations for the purchase of various emergency lighting fixtures.

Successful bidder will be given fourteen (14) calendar days from the issuance of the Purchase Order to provide and deliver the listed light fixtures to the facilities listed herein.

Any services contracted for prior to receipt of the signed purchase order and notice-to-proceed letter shall be at the Bidder's risk.

General Conditions

- A. Vendor must supply 12-month (or greater) manufacturer's warranty for product.
- B. Freight will be FOB-Destination; all charges for delivery of equipment to each location in Charleston and Beckley must be incorporated into the bid.

C. Award will be made to the lowest Total Bid.

Technical Specifications

Brand and model specifications are given to establish the acceptable level of performance and quality only, and not to limit competition. Bidders wishing to bid based upon substitute brands and models should submit a request to substitute the brand and model they wish to bid as a technical question, per the instructions for submitting technical questions in the Request for Quotation (RFQ). Approvals and refusals of these requests will be given by addenda to the RFQ.

Building 23, Beckley, WV 407 Neville Street Beckley, WV

Manufacturer Model

OTY

Lithonia ELM2 LED (or equal) See SPec A 190

Lithonia LHQM LED SW3R (or equal) See SPe B 35

WP 1 54T5HO
Lithonia MVOLT GEB10PS (or equal) See SPec C 38

Lithonia IBZT5 4 (or equal) See SPec E 20

2SP5 G 3 28T5
A12125 MVOLT
Lithonia GEB10PS (or equal) See SPec D 36

Building 36, One Davis Square 321 Capitol Street Charleston, WV 25301

Manufacturer Model

QTY

WP 1 54T5HO
Lithonia MVOLT GEB10PS (or equal) See Sicc C 30

State of West Virginia General Services Division

West Virginia State Capitol GSD126405 Lighting Purchase

Building 22, Tax and Revenue 1001 Lee Street Charleston, WV 25301

Manufacturer Model	QTY
Lithonia ELM2 LED (or equal)	145
Lithonia LHQM LED SW3R (or equal)	55
WP 1 54T5HO Lithonia MVOLT GEB10PS (or equal)	48
$\frac{2SP5 G 3 28T5}{A12125 MVOLT}$ Lithonia GEB10PS (or equal)	10
Entholia OEDIO B (of equal)	10

Documents:

This Request for Quotations also incorporates the attached documents:

- 1. The WV Purchasing Division "Request for Quotation" and "General Terms and Conditions".
- 2. GSD116459 Bid Form

Invoices

Invoices shall be submitted to the Agency for payment (in arrears) and must include the following information:

- 1. Copies of all BOL's signed and dated by the Agency Representative (prior to their submittal with invoices for payment).
- 2. FEIN number, complete address of vendor, Agency release order number, and master contract number.

Invoices shall be mailed to the following address:

Department of Administration General Services Division State Capitol Complex Building 1, Room MB-68 1900 Kanawha Blvd. E. Charleston, West Virginia 25305 State of West Virginia General Services Division

West Virginia State Capitol GSD126405 Lighting Purchase

Should the Vendor be requested by the Agency or volunteer to submit invoices electronically, invoices must meet the digital requirements of the WV State Auditor's Office.

Additional Terms and Conditions

- A. The relationship of the Vendor to the Agency shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. The Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this contract. Neither the Vendor nor any employees or sub-contractors of the Contractor shall be deemed to be employees for the State for any purposes whatsoever. The wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred obligations, and licensing fees, etc., and the filing of all necessary documents, forms and returns pertinent to all of the foregoing are the Vendor's responsibility. The Vendor shall hold harmless the State, and must provide the State and Agency with a defense against any and all claims including but not limited to the foregoing payments, withholdings. contributions, taxes, social security taxes and employer income tax returns. The Vendor shall not assign, convey, transfer, sub-contract, or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.
- B. Indemnification: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; (3) Any failure of the Vendor, its officers, employees or sub-contractors to observe State and Federal laws, including but not limited to labor and wage laws.
- C. The Vendor shall, upon any service visit to any location, acquire the signature of the Agency representative designated to sign for such delivery. No charge for any

State of West Virginia General Services Division

West Virginia State Capitol GSD126405 Lighting Purchase

delivery to any location at any time will be verified without that signature. No payment will be made for any delivery which is not verified. Upon award of contract, Agency will provide vendor with exact locations and addresses for all deliveries and the names of the Agency representatives for said locations. The Vendor shall be expected to coordinate delivery schedule with Agency to insure signature verification is available.

GSD126405-Attachment A-Bid Form

LOCATION Building 23 Beckley		Unit Cost	Qty	Extended Cost
Lithonia ELM2 LED (or equal) — A Lithonia LHQM LED SW3R (or equal) — B Lithonia WP 1 54T5HO MVOLT GEB10PS Lithonia IBZT5 4 (or equal) — E Lithonia 2SP5 G 3 28T5 A12125 MVOLT TOTAL Building 23	(or equal)—C GEB10PS (or equal)—D	\$ 70.78 \$104,28 \$114.33 \$107.39 \$ 88.61	190 35 38 20 36	\$ 13.448.20 \$ 3.649.80 \$ 4344.54 \$ 2.147.80 \$ 3,189.96 \$2678036(A)
Building 36, One Davis Square				
Lithonia WP 1 54T5HO MVOLT GEB10PS	(or equal) – C	\$ 114.33	30	\$ 3429.90
TOTAL Building 36				\$3429 90 (B)
Building 22, Tax and Revenue				/
Lithonia ELM2 LED (or equal) — A Lithonia LHQM LED SW3R (or equal) — B Lithonia WP 1 54T5HO MVOLT GEB10PS Lithonia 2SP5 G 3 28T5 A12125 MVOLT	(or equal) – C GEB10PS (or equal)–D	\$ 70,78 \$104.28 \$114.33 \$ 88.525	145 55 48 18	\$ 10, 263.10 \$ 3,735,40 \$5,487.84 \$ 1,593.45
TOTAL Building 22				\$23,079(c)
				•
TOTAL BID (A + B + C) = D				\$53,290%

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

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

1.	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, 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,
2.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident 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,
4.	Application is made for 5% resident 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,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident 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.
require against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency acted from any unpaid balance on the contract or purchase order.
authorize the requ	mission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and zes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid uired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information d by the Tax Commissioner to be confidential.
and ac	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate es during the term of the contract, Bidder will notify the Purchasing Division in writing/immediately.
Bidder	O 7 2011
Date:_	Title: OPERIUS ///MANGE
Спеск а	any combination of preference consideration(s) indicated above, which you are entitled to receive.

	GSD126405
RFQ No.	

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE
Vendor's Name: TAGEM EYER AM
Authorized Signature: W/W/I/Date: 8-3-201)
State of
County of Wood, to-wit:
Taken, subscribed, and sworn to before me this 3rd day of, 20, 20
My Commission expires Jul 15t , 2020.
AFFIX SEAL HERE NOTARY PUBLIC Cut II
Official Seal Notary Public, State of West Virginia Carl M. Fisher The UPS Store 104 Lakeview Center

My commission expires July 1, 2020



LZ Series

Designer Emergency Lighting Unit

Catalog Number LZ2-03L

STATE OF WV DEPT OF ADMIN

FEATURES

Application

The LZ Series is an indoor emergency lighting unit with 10 - 65W capacity utilizing a sealed lead-calcium or nickel-cadmium battery in 6 or 12 VDC. Supplied standard with two halogen MR16 lamps. High-output LED based MR16 option provides increased spacing, additional run-time and/or increased remote capacity. Matching remote heads are also offered. The integrated lamp design offers greater protection from vandalism.

Construction

Available in two housing sizes, one for standard capacity models (LZ2, LZ15) and increased depth for higher capacity models (LZ15 through LZ65). Made from UV stabilized thermoplastic with a snap-together design in white or black finish. Includes test switch and AC-ON indicator.

Installation

Unit mounts to 31/2", 4" octagon or 4" square boxes. Back-plate provides a universal knockout pattern for mounting to outlet box. Keyholes provided for securing housing to wall surface. LZ2 and LZ15 can be ceiling mounted. All AC connections made inside unit housing.

Illumination

The LZ Series provides illumination with two halogen MR16 lamps positioned inside an adjustable "eyeball" style housing. Optional lamps for greater light output include 10W MR16 and maximum coverage high-output LED based MR16.

Compliances

UL 924 Listed (optional damp location listed)

NFPA 70

NFPA 101

ADA compliant (LZ standard models only)

U.S. Patent Nos. D400,991, D419,708, D400,995, 6,280,042 and 6,019,477.



Standard Size



High Capacity



Optional black finish

LZR remote heads (sold separately)



ORDERING GUIDE



LZ

Capacity

10 Watts 2 15 15 Watts 20 Watts 5

20 25 25 Watts 5 30 Watts 2

35 Watts 2.6 55 Watts 2 65 65 Watts 2, 6 **Battery Type**

Blank Lead-Calcium Nickel-Cadmium 3, 4

Blank

Standard Model D Damp Location Listing 9

Rating

Output Volts

Blank 6 Volts 12 Volts 10 Self-Diagnostics

Blank None Spectron® Self-test/ Self-diagnostic Electronics 7 Options

5W Halogen lamps Blank 10W Halogen lamps ¹ 3W LED Lamps ⁸ 10W

03L Black finish

Voltmeter Unit supplied without

lampheads 11 220-240VAC,

60 Hz operation 2 Aux. 2-conductor,

line cord, 120VAC only 12

Auxiliary 3-conductor line cord, 120VAC only ¹³ A31

Available on units with capacities of 20 watts or more Not available with Nickel-Cadmium battery models

Available only on 15, 20 or 25 Watt models

Must order with damp location on LZ15 in 6 VDC only

Not available with Lead-Calcium battery models Not available with damp location models

Must order with damp location listing on LZ2 model Not available with LZ2I and LZ15I Spectron® equipped unit

Not available with -03L (LED) option Limited to LZ20ND-12V,LZ25N-12V, LZ30D-12V, LZ35-12V, LZ55D-12V and LZ65-12V

Not available on LZ2 and LZ15 models

Available on LZ2 only

Available on all models except LZ2



LZ Series
Designer Emergency Lighting Unit

						0 0					
		Voltage	Battery	Lamp	Capacity	Runtime	Extended Runtime	Remote Watts	Number of Remotes: 5W HAL	Number of Remotes: 10W HAL	Number of Remotes: 3W LED
	LZ2	6VDC	Lead Calcium	5W HAL	10 watts	90 min.	No	0	0	0	0
	LZ15	6VDC	Lead Calcium	5W HAL	15 watts	90 min.	Yes	5	1	0	1
2	LZ30	6VDC	Lead Calcium	5W HAL	30 watts	90 min.	Yes	20	4	2	6
STANDARD	LZ35-12V	12VDC	Lead Calcium	5W HAL	35 watts	90 min.	Yes	25	5	2	8
3	LZ65	6VDC	Lead Calcium	5W HAL	65 watts	90 min.	Yes	55	11	5	18
9	LZ65-12V	12VDC	Lead Calcium	5W HAL	65 watts	90 min.	Yes	55	11	5	18
	LZ20N	6VDC	Nickel Cadmium	5W HAL	20 watts	90 min.	Yes	10	2	1	3
	LZ25N-12V	12VDC	Nickel Cadmium	5W HAL	25 watts	90 min.	Yes	15	3	1	5
	LZ20	6VDC	Lead Calcium	5W HAL	10 watts	90 min.	No	0	0	0	
	LZ25D	6VDC	Lead Calcium	5W HAL	25 watts	90 min.	Yes	15	3	1	•
DAMP	LZ30D-12V	12V0C	Lead Calcium	5W HAL	30 watts	90 min.	Yes	20	4	2	(*
3	LZ550	6VDC	Lead Calcium	5W HAL	55 watts	90 min.	Yes	45	9	4	*
	LZ550-12V	12VDC	Lead Calcium	5W HAL	55 watts	90 min.	Yes	45	9	4	4
	LZ15ND	6VDC	Nickel Cadmium	5W HAL	15 watts	90 min.	Yes	5	1	0	j
	LZ20ND-12V	12V0C	Nickel Cadmium	5W HAL	20 watts	90 min.	Yes	10	2	1	3
	LZ2-03L	6VDC	Lead Calcium	3W LED	10 watts	90 min.	No	0	0	0	0
	LZ15-03L	6VDC	Lead Calcium	3W LED	15 watts	90 min.	Yes	9	1	0	3
	LZ30-03L	6VDC	Lead Calcium	3W LED	30 watts	90 min.	Yes	24	4	2	8
	LZ35-12V-03L	12VDC	Lead Calcium	3W LED	35 watts	90 min.	Yes	29	5	2	9
	LZ65-03L	6VDC	Lead Calcium	3W LED	65 watts	90 min.	Yes	59	11	5	19
	LZ65-12V-03L	12VDC	Lead Calcium	3W LED	65 watts	90 min.	Yes	59	11	5	19
410	LZ20N-03L	6VDC	Nickel Cadmium	3W LED	20 watts	90 min.	Yes	14	2	1	4
	LZ25N-12V-03L	12VDC	Nickel Cadmium	3W LED	25 watts	90 min.	Yes	19	3	1	6

SPECIFICATIONS

Standard Features:

- · External push-to-test switch and AC-ON indicator
- · Low voltage disconnect
- Transformer isolation
- Temperature compensated charger circuitry
- MR16 Halogen lamp with rated 200 hour life

Optional Features:

- Spectron ® self-test/self-diagnostic circuitry monitors lamp status, lamp load transfer circuitry
 and battery capacity, displays any fault detected via a flashing code. Automatically runs periodic
 diagnostic routines to ensure unit readiness, Multicolor LED indicates fault condition and
 charging status.
- LED MR16 lamps rated at 50,000 hour life expectancy
- · Available without integral lamp heads for added run time or remote capacity operation.

Operating Temperature Range:

Standard models: 20°C to 30°C (68°F to 86°F)

Damp location models: 10°C to 40°C (50°F to 104°F)

Weight: 4 - 12 lbs. depending on capacity

AC Input Voltage

120VAC or 277VAC: 60 Hz. operation standard Optional 220-240VAC: 50/60 Hz.

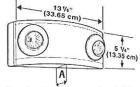
Power consumption for LZ2 and LZ15

Maximum: 4.0W, 120VAC or 277VAC Normal: 1.3W, 120VAC or 277VAC

Power consumption for LZ15N and larger

	Lead-Aci	d Battery	Nickel-Cadmium Battery		
	6 Volt	12 Volt	6 Volt	12 Volt	
Maximum	14W	14.0W	11.1W	11.1W	
Normal	1.8W	2.0W	8.4W	8.1W	

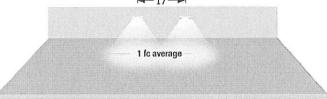
DIMENSIONS

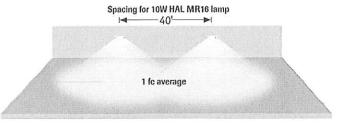


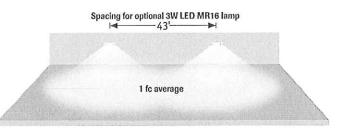
Standard size (LZ2, LZ15) depth is 3.625" (9.2cm). High capacity model depth is 5.125" (13cm).

APPLICATION DATA

Spacing for 5W HAL MR16 lamp







Meets Life Safety Code minimum illuminance of 0.1 fc and average illuminance of 1.0 fc. Assumes open space with no obstructions, mounting height of 7.5', ceiling height of 9' and reflectances of 80/50/20 on a 3' path. Photometry files available on the Dual-Lite web site (www.dual-lite.com).

Dual-Lite • www.dual-lite.com

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HCX Series

Combination LED Exit/Emergency Light with side-mounted lighting heads and optional remote capacity models for low-profile installation

Catalog Number HCXURW-03L	
Comments STATE OF WV DEPT OF ADMIN	Type B

FEATURES

Application

The HCX Series provides bright, even LED Exit illumination in an attractive housing, designed for quick and easy installation. Available with or with-out fully adjustable MR16 Halogen lamps and remote capacity option. Remote capacity option;12 watts (with integral lampheads), 23 watts (without lamps). Optional LED based MR-16 lamps available for increased coverage and additional remote capacity.

Construction

Precision-molded thermoplastic housing and lamp-heads are impact and scratch resistant, corrosion proof and UV stabilized material to resist discoloration. Available in white or black with a light texture. Innovative snap-together design optimizes installation time. Includes additional face-plate for single or double-face application. Snap-in directional chevrons. Includes canopy and universal mounting plate for end,, ceiling or wall mounting. Red or green polystyrene .030" diffuser is frequency matched to the LEDs providing optimum exit sign illumination.

Installation

Sign mounts to 3 1/2", 4" octagon, or square outlet boxes and standard plaster rings. Back-plate provides a knock-out pattern for mounting to outlet box. Mounting canopy provided with all models. Canopy mounts to outlet boxes by means of a mounting plate supplied. Exit housing snaps to canopy. Pre-stripped pigtail leads provided. Push-in wire connectors supplied for making AC connections. All wiring dresses into formed wire-ways in housing.

Illumination

Four long-life LEDs provide exit illumination. Exceeds the 2009 UL 924 requirements for brightness and uniformity. Unit illumination by halogen or optional high-performance LED based MR16 lamps.

Compliances

UL 924 Listed (optional damp location listed)

NFPA 70

NFPA 101



*Also available in black finish

Matching indoor remote heads for use with HCX models (sold separetely)

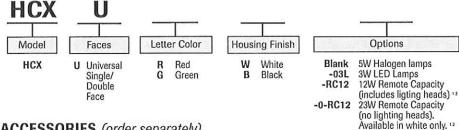


CPRSW0605 (5W HAL) CPRSW0603L (3W LED)



CPRSB0605 (5W HAL) CPRSB0603L (3W LED)

ORDERING GUIDE



ACCESSORIES (order separately)

WGTW Wireguard (wall or ceiling mount)

- -RC12 and -0-RC12 options can be specified with the 03L option. Example: HCXURW-0-RC12-03L
 No lamp-head option only available with remote capacity model



Combination LED Exit/Emergency Light

	Output Voltage	Battery	Lamp	Unit Capacity	Runtime	Extended Runtime	Remote Watts	Number of Remotes: 5W HAL	Number of Remotes: 3W LED
Standard Models									
HCXURW	6VDC	Lead-Calcium	5W HAL	10 watts	90 min.	No			185
HCXURWRC12	6VDC	Lead-Calcium	5W HAL	23 watts	90 min.	Yes	12	2	4
HCXURW-0-R C12	6VDC	Lead-Calcium	5W HAL	23 watts	90 min.	Yes	23	4	7
LED Models									
HCXURW-03L	6VDC	Lead-Calcium	3W LED	10 watts	90 min.	Yes		225	
HCXURW-RC12-03L	6VDC	Lead-Calcium	3W LED	23 watts	90 min.	Yes	17	3	5
HCXURW-0-R C12-03L	6VDC	Lead-Calcium	3W LED	23 watts	90 min.	Yes	23	4	7

SPECIFICATIONS

Standard Features:

- · External push-to-test switch and AC-ON indicator
- · Exit Sign Letters: 6" height, 34" stroke
- · Snap-in directional chevrons in Exit Sign
- Low voltage disconnect
- · Transformer isolation
- AC lockout
- · Temperature compensated charger circuitry
- . MR16 Halogen lamp with rated 200 hour life
- · Battery recharge time within UL specifications

Optional Features:

- · LED MR16 lamps rated at 50,000 hour life expectancy.
- · Available without integral lamp heads for added run time or remote capacity operation.

Operating Temperature Range:

Standard models: 20°C to 30°C (68°F to 86°F)

AC Input Voltage

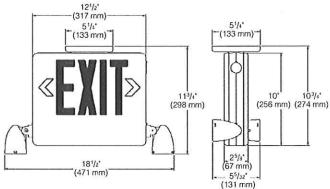
120VAC or 277VAC: 60 Hz. operation standard.

Power Consumption:

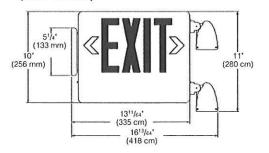
4.5 watts at 120 or 277 VAC (all models)

DIMENSIONS

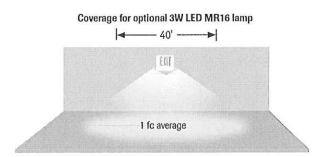
(Ceiling or Back Mount)



(End Mount)



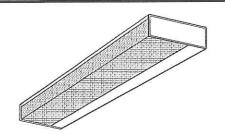
APPLICATION DATA



Meets Life Safety Code minimum illuminance of 0.1 fc and average illuminance of 1.0 fc. Assumes open space with no obstructions, mounting height of 7.5', celling height of 9' and reflectances of 80/50/20. Photometry files available on the Dual-Lite web site (www.dual-lite.com).

WAL-1 OR -2

Low Profile Wall Mount / 1 or 2-Lamp T5, T5HO, T8, TT



FEATURES

- · Heavy code gauge cold rolled steel housing
- · One piece shielding assembly easily removable for cleaning without the use of hardware
- · Easy installation and maintenance
- White powder coat finish, painted after fabrication
- White textured endcaps of injection molded thermoplastic
- · Low profile design
- · Variety of options available
- · Ideal for restroom, stairwell, work station and bedlighting
- · UL listed 1598 for damp locations

PROJECT INFORMATION

STATE OF WV DEPT OF ADMINISTRATION

Project Name

WAL4-154-EPU-WITH INVERTED LENS

Catalog No.

Date

CONSTRUCTION

Heavy code gauge cold rolled steel housing and ballast cover. Embossed housing. Endcaps are textured, injection molded plastic, with an opaque finish to match housing.

ELECTRICAL

Standard class "P", thermally protected, auto-resetting HPF ballast, sound rated A. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

FINISH

Painted parts are treated with a five stage phosphate bonding process and finished with a high reflectance baked white powder coat finish, applied after fabrication.

SHIELDING

Front of diffuser has inside linear prisms and bottom has pyramidal prisms for low brightness control. For added strength and durability, 25% DR is standard. Lens slides forward for easy installation and maintenance

CERTIFICATION

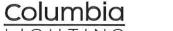
All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE WAL4-132-EU

WAL MODEL WAL Low Profile Wall Mount	SIZE 2 2' 3 3' 4 4'	NO. OF LAMPS 1 One 2 Two	54 LAMP TYPE 17 2', T8: 17 Watt 25 3', T8: 25 Watt 28 4', T5: 28 Watt 32 4', 18: 32, 30, 28 or 25 Watt 40TT Twin Tube Compact, 2611 Base: 40 Watt 54 4', T5H0: 54 or 51 Watt	EP BALLAST E Electronic T8, Instant Start ETT Electronic Twin Tube, Instant Start, (Specify voltage) EP Electronic T5 or T8, Programmed Start For others available, see Ballast Options.	U VOLTAGE U 120V-277V 347 347V	PL9 PL13 PPSW PL7 PL9 PL13	Pull Switch, One Circuit (120V only) Fluorescent Night Light for 7W T-4 G23 lamp. (Lamp not included). PL ballast will default to fixture voltage unless specified. Not available in 2' unit with battery pack. Fluorescent Night Light for 9W T-4 G23 lamp. (Lamp not included). PL ballast will default to fixture voltage unless specified. Not available in 2' unit with battery pack. Fluorescent Night Light for 13W T-4 GX23 lamp. (Lamp not included). PL ballast will default to fixture voltage unless specified. Not available in 2' unit with battery pack. Four-way Pull Switch, for Two Circuit, 2-Lamp Units (120V only) NYC Compliant, Union Labeled
							mplete list of options, see options and ries section.

SURFACE / WAL-1 OR -2



N/A N/A

Length: 4.00

Width: 0.47 Height: 0.00

WAL-1 OR -2

Test 11804 Test Date 1/8/03

INDOOR CANDELA PLOT

Low Profile Wall Mount / 1 or 2-Lamp T5, T5HO, T8, TT

AVG. LUMINANCE (Candela/Sq. M.) PHOTOMETRIC DATA

HEIRIC DAIA	AVG. LUMINAINCE (Candela/3q. W.							
			0.0	45.0	90.0	135.0	180.0	
DATA		0	7306	7306	7306	7306	7306	
WAL4-232-EU	Angle	30	7127	8852	9328	8852	7127	
WAL Surface	5	40	6884	9141	9776	9141	6884	
Mounted	e	45	6534	8769	9101	8769	6534	
8" X 49" 2-Lamp Wall	Ĕ	50	5710	7732	7812	7732	5710	
Mount with Acrylic Prismatic Lens	Luminance	55	4262	6498	6858	6498	4262	
B232I120HP	독	60	3298	5428	6252	5428	3298	
0.88	Ę	65	2953	5013	6327	5013	2953	
	ğ	70	2812	5273	7901	5273	2812	
F32T8	Average	75	2787	6437	11437	6437	2787	
2900	A	80	2803	9430	18465	9430	2803	
55		85	2759	19840	38892	19840	2759	

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1023	17.6	25,9
0-40	1684	29.0	42.7
0-60	2737	47.2	69.3
0-90	3403	58.7	86.2
90-120	427	7.4	10.8
90-130	487	8.4	12.3
90-150	535	9.2	13.6
90-180	545	9.4	13.8
0-180	3948	68.1	100.0

COEFFICIENTS OF UTILIZATION (%) RW 70 50 30 10 70 50 30 10 50 30 10 0 18 26 21

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	68.1%
Luminaire Efficacy Rating (LER)	63
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.81 based on 3000 hrs. and \$0.08 per KWH

ENERGY DATA

LUMINAIRE DATA

Luminaire

Ballast

Lamp Lumens per

Lamp

Watts

Shielding Angle

Spacing Criterion

Luminous Opening in Feet

Ballast Factor

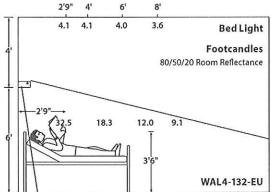
LER: 66

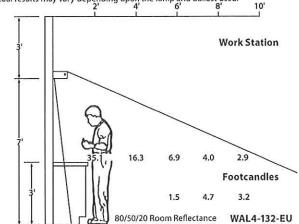
Energy Cost: \$3.64*

Input Watts: 30 BF: .88

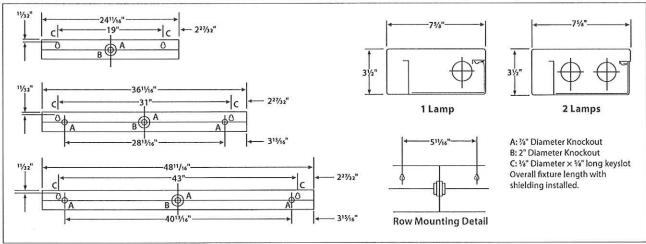
The above energy calculations were conducted using a specific lamp/ballast combination. Actual results may vary depending upon the lamp and ballast used. Lamp and ballast specifications are subject to change without notice.

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH. 2'9" 6 8





DIMENSIONAL DATA



All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

SURFACE / WAL-1 OR -2





ST824-2, ST824-3

2' × 4' Shallow Specification Troffer / 2 or 3-Lamp T5, T5HO, T8



FEATURES

- Optical performance designed for T8 and T5 lamp technology
- 2½" minimum spacing from bottom of lamp to bottom of lens
- Mechanical light seal
- Mitered corners on door present a clean uninterrupted appearance
- · Spring loaded latches optional
- Rolled fixture edges reduce risk of injury during fixture handling and installation
- Integral T-Bar clips quickly secure fixture to grid system without the need for time consuming loose parts
- Snap-on ballast covers can be removed with lamps installed
- Corner hinging for easy insertion and removal of door frame from either side
- Optional flush or regressed aluminum shielding frames available with positive action or spring loaded latches
- · Housing ends secured by unique corner interlock and screws

PROJECT INFORMATION

STATE OF WV DEPT OF ADMINISTRATION

Project Name

ST824-328G-FSA12125-EPU

Catalog No.

D

Date

HOUSING

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 15/6" T-Bar ceilings. Integral T-Bar clips are located in the end of the housing. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P," thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

FINISH

All parts are pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pretreatment for maximum adhesion and resistance.

SHIELDING

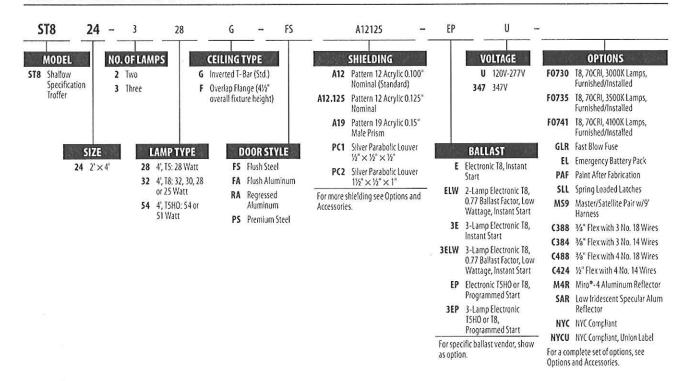
100% clear prismatic acrylic, extruded and rollembossed, diagonally oriented female prisms, unless otherwise specified.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE ST824-232G-FSA12-EU-F0735-C388



Page 1/2 Rev. 06/14/11

LENSED TROFFERS / ST824-2, ST824-3





PHOTOMETRIC DATA

Test 12581 Test Date 1/08/03

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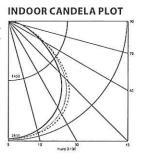
Luminaire	ST824-332G-FSA12				
	ST8 Lensed Troffer				
	2' × 4' 3-Lamp with A12 Lens				
Ballast	B332I120RH				
Ballast Factor	0.88				
Lamp	F32T8				
Lumens per Lamp	2900				
Total Input Watts	84				
Mounting	Recessed				
Shielding Angle	N/A				
Spacing Criterion	0° = 1.24 90° = 1.35				

AVG. LUMINANCE (Candela/Sq. M.) COEFFICIENTS OF UTILIZATION (%) 0.0 | 22.5 | 45.0 | 67.5 | 90.0 4282 4282 4282 4282 4282 30 4165 4260 4415 4515 4538 40 3967 4106 4326 4471 4523 45 3767 4154 4322 3920 4387 50 3462 3637 3851 4009 4084 3075 3282 3478 3559 3616 2696 2863 3045 60 3079 3098 2338 2412 2528 2565 2036 2005 1987 2122 2140 1838 1784 1659 1921 1909 1841 1761 1770 1903 1956 1967 1825 2002 1967 2038

	RC		8	0		<u> </u>	7	0			50		0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	93	89	86	83	91	87	84	81	84	81	79	72
	2	85	78	73	69	83	77	72	68	74	70	66	61
	3	78	69	63	58	76	68	62	57	66	60	56	53
	4	72	62	55	49	70	61	54	49	59	53	48	45
RG.	5	66	55	48	43	64	55	48	43	53	47	42	39
8	6	61	50	43	37	59	49	42	37	48	42	37	35
	7	57	45	38	33	55	45	38	33	44	37	33	31
	8	53	42	35	30	51	41	34	30	40	34	29	27
	9	49	38	31	27	48	38	31	27	37	31	27	25
	10	46	35	29	24	45	35	28	24	34	28	24	22
000	- Da	(0.+1.	55 N	20 9		SE ()		2 //	20. 3	5 (8	99.

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2213	25.4	30.0
0-40	3657	42.0	49.6
0-60	6242	71.7	84.7
0-90	7373	84.7	100.0
0-180	7373	84.7	100.0

ENERGY DATA

Total Luminaire Efficiency	84.7%
Luminaire Efficacy Rating (LER)	77
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.12 based on 3000 hrs. and \$0.08 per KWH

Test 12583 Test Date 1/8/03

INDOOR CANDELA PLOT

Luminaire	ST824-232G-FSA12
	ST8 Lensed Troffer
	2' × 4' 2-Lamp with A12 Lens
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Total Input Watts	58
Shielding Angle	N/A
Spacing Criterion	0° = 1.22 90° = 1.35

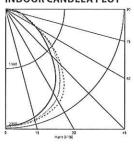
AVG.	LUMIN	VANCE	(Can	dela/	Sq. M.
1	0.5600000	Passassassa	1	our control	

		0.0	22.5	45.0	67.5	90.0
	0	3037	3037	3037	3037	3037
<u>e</u>	30	2885	2962	3095	3208	3240
Average Luminance Angle	40	2619	2711	2877	3058	3104
e A	45	2387	2524	2723	2878	2891
ĕ	50	2184	2318	2537	2631	2643
is.	55	1995	2062	2202	2261	2318
돌	60	1767	1739	1745	1838	1952
ĭ	65	1553	1418	1297	1494	1666
ğ	70	1485	1242	1047	1341	1540
era	75	1545	1259	1175	1354	1587
¥	80	1601	1378	1352	1432	1699
20	85	1683	1559	1400	1577	1736

1	RC		8	0			7	0			50		0
1	RW	70	50	30	10	70	50	30	10	50	30	10	0
ı	1	94	90	87	84	92	88	85	82	85	82	80	7
I	2	86	79	74	70	84	78	73	69	75	71	67	62
ı	3	79	71	64	59	77	69	63	58	67	62	57	54
1	4	73	63	56	51	71	62	55	50	60	54	49	46
ı	5	67	57	49	44	65	56	49	44	54	48	43	41
I	6	62	51	44	39	61	50	44	39	49	43	38	36
١	7	58	47	39	34	56	46	39	34	45	38	34	3
1	8	54	43	36	31	53	42	35	31	41	35	31	29
I	9	50	39	32	28	49	39	32	28	38	32	28	20
1	10	47	36	30	25	46	36	29	25	35	29	25	2

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance



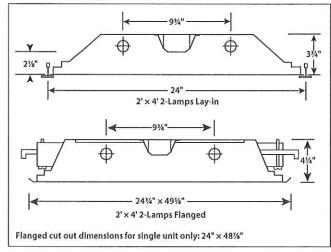
ZONAL LUMEN SUMMARY

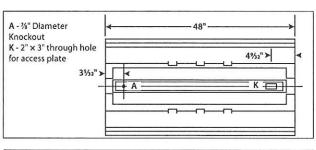
Zone	Lumens	% Lamp	% Fixt.
0-30	1563	27.0	31.5
0-40	2561	44.2	51.6
0-60	4231	72.9	85.2
0-90	4967	85.6	100.0
0.180	4967	85.6	100,0

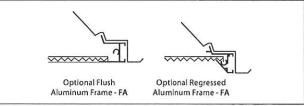
ENERGY DATA

Total Luminaire Efficiency	85.6%
Luminaire Efficacy Rating (LER)	75
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.20 based on 3000 hrs, and \$0.08 per KWH

DIMENSIONAL DATA







NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

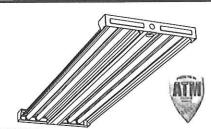
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LENSED TROFFERS / ST824-2, ST824-3









FEATURES

- Optical design to provide one-for-one replacement for 400 Watt metal halide high bays
- Advanced Thermal Management (ATM) provides optimized electrical component heat dissipation system for cool running ballast operation in unconditioned ambient spaces, your choice of T8 or T5HO—suspension mounting only
- LHV includes industry leading 5-year warranty at 65°C ambient operation for TSHO and 5-year warranty for T8 at 55°C for 277V and
- · Easy center-ballast cover allows tool-less access to electrical components without the removal of lamps, reflectors or hardware.
- Extremely low profile—only 2" overall height allows fixture to be installed without concern about obstructions
- Reflector options include uplight (recommended) or solid top with either narrow or wide distribution
- Product design accommodates quick and simple hanging systems including chain, tong, pipe hanger, or aircraft mounting
- Rotary locking lampholders secure lamp in position and conceal contacts
- Access cover in channel for easy wiring access
- UL listed, suitable for damp locations
- NEC/CEC-compliant ballast disconnect standard (not available with EL option)

PROJECT INFORMATION

STATE OF WV DEPT OF ADMINISTRATION

Project Name

LHV4-454-M4RU-4EPU / LHVTH

Catalog No.

Date

HEAT DISSIPATION SYSTEM (ATM)

The installation of fluorescent fixtures with temperature sensitive electronic ballasts in unconditioned spaces creates the risk of premature ballast failures unless the fixture is equipped with a heat dissipation system to quickly remove heat that is harmful to ballasts. ATM (Advanced Thermal Management) was exclusively developed for VersaBay to provide the ultimate solution to ballast overheating and thermal issues.

CONSTRUCTION

Code gauge steel construction for a durable construction to withstand shipping and job site handling. End caps include hemmed edges for ease of handling. Fixture includes easy access to electrical components via removal channel cover. Tool-less access with one quarter-turn fastener. Oversized access plate conveniently mounted on back of channel for easy access to wiring compartment.

REFLECTOR

Your choice of multi-faceted specular aluminum which provides precise control for aisle lighting, high mounting heights, white aluminum for general area, or lower mounting heights. Includes a 25-year reflector warranty. Reflectors are available in solid top or with uplight component. Reflectors are securely mounted to fixture housing with screws. Reflector removal is not required to gain access to electrical components.

PERFORMANCE

With an optical system custom designed for maximum performance when using either TSHO or T8 lamps, VersaBay provides excellent distribution with fixture

efficiencies in excess of 99% for T5HO systems and 94% with T8 systems. The spacing criteria for the VersaBay is 0.9 for narrow distribution and 1.3 for wide distribution.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P", thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

Steel surfaces are painted with high-gloss baked white enamel, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

MOUNTING

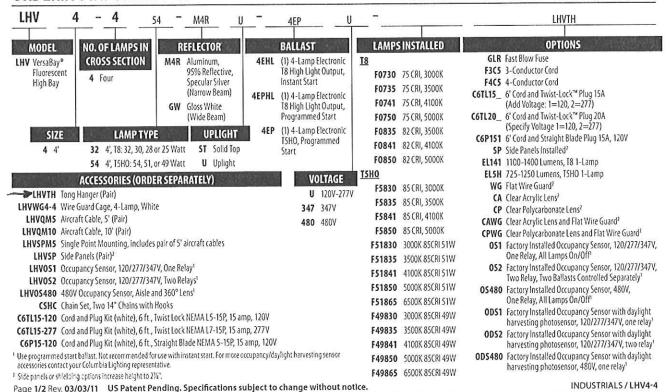
Fixture to be suspended a minimum of 6" from solid surface. Mounting options include aircraft cable, tong hanger, pipe hanger, or chain.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924. Fixtures bear UL damp location listing up to 65°C for TSHO lamps and up to 55°C for T8 lamps.

ORDERING INFORMATION

EXAMPLE LHV4-454-M4RU-4EPU







PHOTOMETRIC DATA

Test 14621 Test Date 5/10/07

Luminaire	LHV4-432-M4RST VersaBay Industrial 16" × 48" 4-Lamp 32T8 with MIRO*-4 Reflectors and Solid Top
Ballast	GE432MAX-H/ULTRA
Ballast Factor	1.15
Lamp	F32T8
Lumens per Lamp	2900
Watts	152
Mounting	Pendant
Shielding Angle	0°=0 90°=0
Spacing Criterion	0° = 1.24 90° = 0.88

Length: 4.00

Width: 1.33 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.) 0.0 22.5 45.0 67.5 90.0

9526 9526

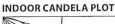
6241 6326

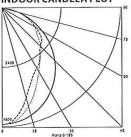
6142

5797 5160

5990 6713 6745

	RC	L.,	8	0			7	0			50		0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	100	96	92	88	97	94	90	87	90	87	84	77
	2	91	84	78	72	89	82	76	72	79	74	70	65
	3	83	74	66	60	81	72	65	60	69	64	59	55
	4	76	65	58	52	74	64	57	51	62	56	50	47
Ř	5	70	59	51	45	68	58	50	44	56	49	44	41
8	6	65	53	45	39	63	52	45	39	51	44	39	36
	7	60	48	40	35	59	48	40	35	46	39	34	32
	8	56	44	36	31	55	44	36	31	42	36	31	29
	9	53	41	33	28	51	40	33	28	39	33	28	26
	10	50	38	30	26	48	37	30	26	36	30	26	24





RCR = Room Cavity Ratio

 $\boldsymbol{RC} = \text{Effective Ceiling Cavity Reflectance } \boldsymbol{RW} = \text{Wall Reflectance}$

ENERGY DATA

Total Luminaire Efficiency	91.6%
Luminaire Efficacy Rating (LER)	80
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.00 based on 3000 hrs. and \$0.08 per KWH

ZONAL LUMEN SUMMARY

9526 9526

8853 7284 6460 6434 6291

8392 6384 6129 6434 6613 6043

7644 5900 6212 6466 6333

2043 3343 2554 1602 1161

6801 6395

6395 | 5200 | 5792 | 5809 | 5386 | 5425 | 5410 | 5277

30 9154 8252 6990 6591 6572

40

45 8647

50 55 60

65 70

75 80 3903 4602 4579 4160 3985

8057

7110 5654 6310 6114

Zone	Lumens	% Lamp	% Fixt.
0-30	3197	27.6	30.1
0-40	5020	43.3	47.3
0-60	8494	73.2	0.08
0-90	10621	91.6	100.0
0-180	10621	91.6	100.0

LUMINAIRE DATA

Luminous

Opening in

Luminaire	LHV4-454-M4RU VersaBay Industrial 16" × 48" 4-Lamp with MIRO*-4 Reflectors and Uplight
Ballast	B454PUNVHT-E
Ballast Factor	1.00
Lamp	F54T5HO
Lumens per Lamp	4450
Watts	226
Mounting	Pendant
Shielding Angle	0°=0 90°=0
Spacing Criterion	0° = 1.23 90° = 0.89
Luminous Opening in Feet	Length: 4.00 Width: 1.33 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.) COEFFICIENTS OF UTILIZATION (%)

		0.0	22.5	45.0	67.5	90.0
	0	15735	15735	15735	15735	15735
1	30	15064	13990	11731	10326	9927
C	40	14516	12504	9530	8904	8750
	45	14158	11474	8844	8624	8824
	50	13730	10233	8401	8851	8980
	55	13218	9161	8403	8794	8829
	60	12577	8089	8470	8793	9174
	65	11706	7445	8326	9513	9791
1	70	10554	7235	8903	9844	10015
	75	9068	7028	9217	9936	10030
	80	6886	7329	8902	7422	6688
	85	3691	6431	2461	673	325

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	5417	30.4	30.5
0-40	8288	46.6	46.7
0-60	13398	75.3	75.5
0-90	16675	93.7	93.9
0-180	17753	99.7	100.0

	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	108	103	99	95	104	100	96	93	95	92	89	79
	2	98	90	84	78	95	88	82	77	83	78	74	67
RCR	3	90	80	72	66	87	78	71	65	74	63	63	57
	4	83	71	63	56	80	69	62	56	66	59	54	49
	5	76	64	55	49	74	62	54	48	60	53	47	43
	6	71	58	49	43	68	57	49	43	54	47	42	38
	7	66	53	44	38	64	52	44	38	50	43	37	34
	8	61	48	40	35	59	47	40	34	46	39	34	31
	9	57	45	37	31	56	44	36	31	42	35	31	28
	10	54	41	34	29	52	41	33	28	39	33	28	26
0.0	n _ n		e de d	Datio	• >=>==>	•0000	•0.000	•			•		

RCR = Room Cavity Ratio

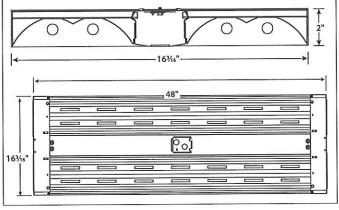
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

FIREIGI DUIV					
Total Luminaire Efficiency	99.7%				
Luminaire Efficacy Rating (LER)	79				
ANSI/IESNA RP-1-2004 Compliance	Noncompliant				
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.04 based on 3000 hrs. and \$0.08 per KWH				

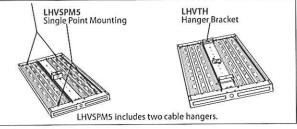
Test 14633 Test Date 5/21/07 INDOOR CANDELA PLOT 7800 3900 30 Horiz 0-180

DIMENSIONAL DATA

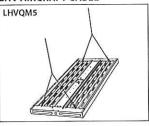


All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

OPTIONAL HANGER BRACKETS



LHV AIRCRAFT CABLE



INDUSTRIALS / LHV4-4



