

Application to Commit
Energy Efficiency/Peak Demand
Reduction Programs
(Mercantile Customers Only)

Case No.: 11-3919-EL-EEC

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs implemented during the prior three calendar years.

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the electric utilities' energy efficiency rider option (Option 2) will not qualify for the 60-day automatic approval.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

If you consider some of the items requested in the application to be confidential or trade secret information, please file a copy of the application under seal, along with a motion for protective order pertaining to the material you believe to be confidential. Please also file a copy of the application in the public docket, with the information you believe to be confidential redacted.

Section 1: Company Information

Name: Lakota, Hopewell Elementary

Principal address: 5572 Princeton Road, Liberty Township, OH 45011

Address of facility for which this energy efficiency program applies: 8300 Cox Rd., West Chester, OH 45069

Name and telephone number for responses to questions: Cory Gordon, 317-838-2955

Electricity use by our company (at least one must apply to your company — check the box or boxes that apply):

- ✓ We use more than seven hundred thousand kilowatt hours per year at our facility. (Please attach documentation.)
- □ We are part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

12-Month Billing History 55102216 01 LAKOTA LOCAL SCHOOLS Electric meter number 106841426 8300 COX RD WEST CHESTER, OH 45069 Date Days Read Actual KWH Bill KWH 6/15/2011 30 0 31,555 31,555 5/16/2011 32 0 32,493 32,493 4/14/2011 29 0 31,889 31,889 3/16/2011 29 0 31,934 31,934 2/15/2011 29 0 30,641 30,641 1/17/2011 34 0 30,857 30,857 12/14/2010 33 0 34,934 34,934 11/11/2010 29 0 32,622 32,622 10/13/2010 29 0 38,243 38,243 9/14/2010 32 0 44,729 44,729

Subtotal 403,021

8/13/2010 29 0 31,259 31,259 7/15/2010 30 0 31,865 31,865

01202083 01 LAKOTA LOCAL SCHOOLS Electric meter number 104829459 8300 COX RD WEST CHESTER, OH 45069 Date Days Read Actual KWH Bill KWH 6/15/2011 30 0 21,984 21,984 5/16/2011 32 0 19,319 19,319 4/14/2011 29 0 25,131 25,131 3/16/2011 29 0 30,323 30,323 2/15/2011 29 0 43,998 43,998 1/17/2011 34 0 48,302 48,302 12/14/2010 33 0 35,058 35,058 11/11/2010 29 0 20,805 20,805 10/13/2010 29 0 24,166 24,166 9/14/2010 32 0 28,742 28,742 8/13/2010 29 0 14,960 14,960 7/15/2010 30 0 16,054 16,054 Subtotal 328,842

Total 731,863

Section 2: Application Information

- A) We are filing this application (choose which applies):
 - □ Individually, on our own.
 - ✓ Jointly with our electric utility.
- B) Our electric utility is: **Duke Energy**
- C) We are offering to commit (choose which applies):
 - □ Energy savings from our energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
 - □ Demand reduction from our demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
 - ✓ Both the energy savings and the demand reduction from our energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

- A) Our energy efficiency program involves (choose whichever applies):
 - Early replacement of fully functioning equipment with new equipment. (Provide the date on which you replaced your fully functioning equipment, and the date on which you would have replaced your equipment if you had not replaced it early. Please include a brief explanation for how you determined this future replacement date (or, if not known, please explain why this is not known)).
 - Installation of new equipment to replace equipment that needed to be replaced. We installed our new equipment on the following date(s):

Installation of new equipment for new construction or facility expansion. We installed our new equipment on the following date(s):

- B) Energy savings achieved/to be achieved by your energy efficiency program:
 - a) If you checked the box indicating that your project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 20,264 kWh

Source of energy savings assumptions is from Duke Energy Smart \$aver Prescriptive program.

		kWh per	Total kWh	kW per	Total kW
Measure	Qty	measure	savings	measure	savings
T-8 4ft 4 lamp	15	144.6	2,169	.03	.48
T-8 4ft 3 lamp	98	125.8	12,382	.03	2.52
T-8 4ft 2 lamp	40	62.91	2,516	.01	.19
LED Exit Signs	13	245.91	3,197	.03	.52

b) If you checked the box indicating that you installed new equipment to replace equipment that needed to be replaced, then calculate the annual

savings [(kWh used by less efficient new equipment) - (kWh	n used by the
higher efficiency new equipment) = (kWh per year saved)].	Please attach
your calculations and record the results below:	

Annual savings: ____kWh

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.

c) If you checked the box indicating that your project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: ____kWh

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.

Section 4: Demand Reduction/Demand Response Programs

- A) Our program involves (choose which applies):
 - ✓ Coincident peak-demand savings from our energy efficiency program.
 - □ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
 - □ Potential peak-demand reduction (choose which applies):
 - ➤ Choose one or more of the following that applies:
 - Our peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - Our peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is

equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

- B) What is the date your peak demand reduction program was initiated? *July*, 2007
- C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

3.71 kW

Refer to table in section 3(B)(a) for coincident peak kW.

Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

- A) We are applying for:
 - **✓** Option 1: A cash rebate reasonable arrangement.

OR

- □ Option 2: An exemption from the cost recovery mechanism implemented by the electric utility.
- B) The value of the option that we are seeking is:
 - Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
 - □ A cash rebate of \$<u>676.00</u>. (Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

Incentive calculated is 50% of the Smart \$aver Prescriptive Incentive.

	Prescriptive	Self Direct	
	Incentive	Incentive	Total
Measure	per measure	per measure	Incentive
T-8 4ft 4 lamp	\$11.00	\$5.50	\$82.50
T-8 4ft 3 lamp	\$9.00	\$4.50	\$441.00
T-8 4ft 2 lamp	\$4.00	\$2.00	\$80.00
LED Exit Signs	\$10.00	\$5.00	\$65.00

OR

- □ A cash rebate valued at no more than 50% of the total project cost, which is equal to \$_____. (Attach documentation and calculations showing how this payment amount was determined.)
- Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.
 - □ An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for ____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of an ongoing efficiency program that is practiced by our organization. (Attach documentation that establishes your organization's ongoing efficiency program. In order to continue the exemption beyond the initial 24 month period your organization will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

□ Total Resource Cost (TRC) Test. The calculated TRC value is: _____ (Continue to Subsection 1, then skip Subsection 2)

✓ Utility Cost Test (UCT) . The calculated UCT value is: ____ (Skip to Subsection 2.)

Measure	UCT
T-8 4ft 4 lamp	6.27
T-8 4ft 3 lamp	6.21
T-8 4ft 2 lamp	6.99
LED Exit Signs	10.49

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (capacity and energy) by the sum of our program costs and our electric utility's administrative costs to implement the program.

Our avoided supply costs were. _____.

Our program costs were _____.

The utility's administrative costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were ____.

Note: all values are per UNIT

	T&D	Prod	Cap
T-8 4ft 4 lamp	\$6	\$40	\$13
T-8 4ft 3 lamp	\$5	\$32	\$11
T-8 4ft 2 lamp	\$2	\$16	\$5

LED Exit Signs	\$5	<i>\$67</i>	<i>\$17</i>
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The utility's administrative costs were ___.

T-8 4ft 4 lamp	\$3.19
T-8 4ft 3 lamp	\$2.61
T-8 4ft 2 lamp	\$1.16
LED Exit Signs	\$2.90

The utility's incentive costs/rebate costs were___.

T-8 4ft 2 lamp	\$2.00
T-8 4ft 3 lamp	\$4.50
T-8 4ft 4 lamp	<i>\$5.50</i>
LED Exit Signs	\$5.00

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits your program to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - 3) a description of coordination requirements between you and the electric utility with regard to peak demand reduction;
 - 4) permission by you to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
 - 5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.



Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

Case	No.:EL-EEC
State	of:
CARIST	T. PASSALLE, Affiant, being duly sworn according to law, deposes and says that:
1.	I am the duly authorized representative of:
	[insert customer or EDU company name and any applicable name(s) doing business as]
2.	I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
3.	I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.
Signat	ure of Affiant & Title EXECUTIVE PILLEGON BUSINESS OF ENATIONS
Sworn	and subscribed before me this 24 day of June , 201 Month/Year
Signat	memory le CL Memoriste, Notaey ure of official administering oath Print Name and Title
Му сог	mmission expires on April 11, 2014 C.L. McMONIGLE Notary Public, State of Ohio My Commission Expires April 11, 20



DUKE ENERGY CORPORATION Mercantile Self Direct Program 139 East Fourth Street Cincinnati, OH 45202 513 419 5572 fax

8/29/2011

Lakota Local School District
Attn: Robert Fischer, Director Buildings & Grounds
6947 Yankee Rd
Liberty Township, OH 45044

Subject: Rebate Offer for Duke Energy Mercantile Self-Direct

Dear Mr. Fischer

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) table on page three, a total rebate of \$6088.50 has been proposed for your Lighting and VFD projects completed in the 2007 calendar year. All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).

Please indicate on the following page if you accept or decline this rebate offer by checking the appropriate box (rebate accepted or rebate declined) and providing your signature where indicated.

Please return the documents to my attention via fax 513-419-5572 or email at SelfDirect@duke-energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO for approval. Following PUCO's approval Duke Energy will remit payment.

At Duke Energy, we value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart \$aver® incentives, when applicable. Please view the Duke-Energy.com website for further review of programs or contact your local Duke representative if you have questions about our programs. Please contact me if you have any questions about this letter.

Sincerely,

Brien R. Kriegez

Brien R. Krieger Product Manager, Ohio Mercantile Self Direct 317-838-4256

CC:

Mike Heath Rob Jung Lucas Dixon

Please indicate your response to this D	uke rebate offer.	
Rebate is accepted.	Rebate is declined.	
the energy efficiency impacts from the	School District affirms their intention to comr projects listed on the following pages into Du onse and/or energy efficiency programs.	0
necessary to secure approval of this M-PUCO. Lakota Local School District ag	ct agrees to serve as joint applicant in any fu ercantile Self Direct project arrangement as grees to comply with information and reportin UCO approval process relating to these reba	required by g requirements
Energy pursuant to this rebate offer is t is not limited to, project scope, equipme	irms that all application information submitterue and accurate. Said application information specifications, equipment operational detection and energy conservation measures	on includes, but ails, project
Signature:		
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Table 1. ECM's with Proposed Rebate Amounts

ECM Number	ECM Description	Proposed Rebate
ECM-1	Endeavor, Under 500 W Occ. Sensor (Quantity 117)	\$1,170
ECM-2	Endeavor, Over 500 W Occ. Sensor (Quantity 57)	\$1,140
ECM-3	Endeavor, VFD 20 hp Process Pumping (Quantity 1)	\$400
ECM-4	Wyandot, Under 500 W Occ. Sensor (Quantity 117)	\$1,170
ECM-5	Wyandot, Over 500 W Occ. Sensor (Quantity 57)	\$1,140
ECM-6	Wyandot, VFD 20hp Process Pumping (Quantity 1)	\$400
ECM-7	Hopewell, T8 4ft. 4 lamp (Quantity 15)	\$82.50
ECM-8	Hopewell, T8 4ft. 3 lamp (Quantity 98)	\$441
ECM-9	Hopewell, T8 4ft. 2 lamp (Quantity 40)	\$80
ECM-10	Hopewell, LED Exit Signs (Quantity 13)	\$65
Total Rebate		\$6088.50



Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit <u>www.duke-energy.com</u>.

Email the complete, signed application with all required documents to <u>PrescriptiveIncentives@duke-energy.com</u>, mail to: Duke Energy • 431 Charmany Drive • Madison, WI 63719 or fex to 1-866-908-4921

- Is this	s application:	NEW (original) or 📋	REVISED (change	es made lo c	riginal a	pptication)		
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Duke Energy Repres	sentative	☑ Web Site	-		∏ Ra		Parameter Andrews	****
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		equipment manufacturer	<u> </u>	_				
Customer information				Kar ingan	100 in 100 in 100 in 100 in			
Customer/Business	Hop	lewell Elementary	Contact	And the state of t	-And Card.	Robert Fisch	er	
Phone		777-3316	Account Nu	mber			5510-32-15-01-8-0120-2083-01	
Street Address (Where	incentive should i	be mailed)	6947 Yankee	Rd	-		-	7
City	Libe	erty Township	State	Ohlo		Zip Code	45044	'
Installation Street Addre	ss 830	0 Cox Road		1		12,5 0000	1	40
City	Wes	st Chester	State	Ohio		Zip Code	45069	\rightarrow
E-mail Address	rob	ert.fischer@lakotaonline.co		14.04		Lip book		-
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be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.



NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted to the first the process of the control of the cont T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only) \$7.00 Hrs. T8 8ft 1 lamp replacing T12 8ft 1 lamp (retroit only) \$5.00 Hrs. T8 4ft 4 famp replacing T12 4ft 4 famp (relabilit only) \$11.00 15 ... 2200 Hrs. \$1,050.00 03/07 \$165.00 T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only) \$9.00 98 2200 Hrs. \$5,880.00 03/07 \$982.00 T8 4ft 2 lamp replacing T12 4ft 2 lamp (refrofit only) \$4.00 40 2200 03/07 Hrs. \$2,000.00 \$160.00 T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only) \$3.00 Hrs. T8 3ft 4 lamp replacing T12 3ft 4 famp (retrofit only) \$10.00 Hrs. T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only) \$6.50 Hrs. T8 3ft 2 lamp replacing T12 3ft 2 lamp (refrofit only). \$4,00 Hrs. T8 3ft 1 lamp replacing T12 3ft 1 lamp (retrofit only) \$3.00 Hrş. T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only) \$6.00 Hrs. TB 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only). \$4.20 Ramova per (ustoners (equil) Hrs TB 2ft 2 lamp replacing T t2 2ft 2 lamp (retrofit only) \$4.00 11 2200 \$550,00 03/07 Hrs. \$44.00 T8 2ft 1 Jamp replacing T12 2ft 1 Jamp (retrofit only) \$3,00 Hrs. T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only) \$10,00 Hrs. T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only) \$14.00 Нгз. T8 HB 4ft 3L replacing 150-249W HID(retrofit only) \$30,00 Hrs. T8 HB 4ft 4L a replacing 250-399W HID(retrofit only) \$40.00 Hrs. T8 HB 4ft 6L replacing 400-999W HID (retrofit only) \$50.00 Hrş. T8 HB 4ft 8L replacing a 400-999W HID(retrofit only) \$40.00 Hrs. 2 fixtures - T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 \$120.00 Hrs. for 1 replacement (retrofit only)

Replacement must result in energy savings to qualify.

- All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasis shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a noutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballests must be UL cortified and meet all applicable codes and regulations.
- High lumen lamp and low ballest factor ballast combinations are expected.
- Eligible T6 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture officiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates lotel fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chert.
- Incentive capped at 50% of the equipment cost.



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T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture	Ballast model#	\$4,00	Hrs.	
T8 4ft High Performance 2 lemp & ballest replacing standard T8 4ft 2 lemp fixture	Ballast model#	\$6.00	Hrs.	
T8 4ft High Performance 3 lamp & ballest replacing standard T8 4ft 3 lamp fixture	Ballast model# Lamp model #	\$6.20	Hrs.	
T6 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture	Ballast model#	\$12.00	Hrs.	
ed Nacional Colores de Victorio de la Colore Radores de polo 176 april de la Colores d	Henry Annency is a little ngs. 2008 mg. Lydwydd E Lydnog i mae'r Gwele Gang oedd ollog i Renry	ci News (Carry opening) Egypt Salay (Egypt Green Opt (Egypt Gas (Carry)	ବ୍ୟୁକ୍ତ ଓଡ଼ିଆ । ଆଧାର ପ୍ରକ୍ରେମ୍ବର ଅନ୍ତର୍ଶ୍ୱର ଆଧାର ଆଧାର ଅନ୍ତର୍ଶ୍ୱର	uwikunga Malawey 200 ukulo kir Medinga 112 uko sporibi ingasebi28
Reduced Wattage T6 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp = 32W	Ballast model#	\$4.00		
Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing stendard T8 4ft 2	Ballast model#	\$6.00	Hrs.	
lamp – 32W Reduced Wattage T8 4ft 3 lamp of 28W or less & balkast replacing stendard T8 4ft 3	Ballest model#	\$10.00	Hrs.	
lamp – 32W Reduced Wattage T6 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4		\$12.00	Hrs.	
Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less	Ballest model#	\$.50/lamp	Hrs.	

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballests, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- risgn rumen ramp and row pariast ractor pariast combinations are expected.

 Reduced walt T8 lamps should not be used in dimming applications unless the tamp and ballast manufacturers have approved a specific application.

 Reduced walt T8 lamps should not be used in dimming applications unless the tamp and ballast manufacturers have approved a specific application.

 Reduced walt T8 lamps should not be used in dimming applications unless that tamp and other undesirable behavior in cooler temperature rooms and white warming up. System performance varies based on tamp or ballast components.
- Incentive capped at 50% of the equipment cost.



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· 网络美国科·森森尼亚人名爱斯 医隐含物医隐毒症 医抗病病 经经济价格 经经济的 (1) 11 12 12 13 13 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 1							
T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only)	\$5.00	2120 <u>(2017</u>)	Hrs.		mai in	<u> naskal</u>	
T5 4ft (28 watt) 2 famp replacing T12 4ft 2 lamp (retrofit only)	\$8.00	-	Hrs.	<u> </u>		ļ _	
T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retroffi only)	\$10.00	<u></u>	Hrs.		<u>-</u>	-	
T5 4ft (28 watt) 4 famp replacing T12 4ft, 4 lamp (retrofit only)	\$12.00	<u>-</u> -	Hrs.		 -		
T5 HO 4ft 1 (54 walt) lamp replacing 34W T12 4ft 2 lamp (retrofit only)	\$6.00		Hrs.	_		<u> </u>	\dashv
T5 HO 4ft 2 (54 waft) lamp replacing 34W T12 4ft 4 lamp (retrofit only)	59.00		Hrs.	-	·-	- -	
T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only)	\$9.00	_	Hrs.	<u>-</u> .	-		
T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only)	\$11.00	-	Hrs.	<u>.</u> .			-
T5 HO 4ft 4 (54 wett) lamp replacing 60W T12 8ft 4 lamp (retrolit only)	\$13.00		Hrs.				
T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only)	\$13.00	-	Hrs.				
T5 HO H8 2t replacing 150-249W HID (retrofit only) Fixture efficiency Model Number	\$30.00	-	Hrs.		- -		\dashv
T5 HO HB 3L replacing 250-399W HID(retrofit only) Fixture efficiency Model Number	\$40.00		Hrs.				
T5 HO HB 4L replacing 400-999W HID(retrofit only) Fixture efficiency Model Number	\$50.00		Hrs.			-	
T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency Model Number	\$40.00		Hrs.				\dashv
Clinciauch Model Mittabot.	\$75.00		Hrs.				
2 fortures – T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 replacement retrofit only) Fixture efficiency Model Number	\$120.00	_	Hrs.			<u> </u>	\dashv
 Replacement must result in energy savings to qualify. 			<u>_</u> i_				

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-5 lamps.
- Ballasts shall have a power factor greater then 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line lead.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures, tamps and ballasts must be OL certified and meet an applicable dodes and regulations.

 Replacement must result in energy savings to qualify.

 Eligible T5 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%. Manufecturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal tumen summary chart.
- Incentive capped at 50% of the equipment cost.



Projective of the street of th		ve des sio La Lais	Copies (1985) 150,473	Belgerus Pont Osci legica (version) ori Operation Indeas	<u></u>
EPSICALLERS CONTRACTOR	(ACAGARTICE) : Maiteangace Media balparakha <u>idale</u> : Meal (Benistan) ag Tilage	gajardi Briques Asia 1200	r of hidrings on de	e i sensoanja odgelj	(a)6 () (a)
High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture	Ballast model# Lamp model #	\$10.00	Hrs.		
High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture	Ballast model#	\$10.00	Hrs.		
High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 Jamp fixture	Lamp model # Bellast model#	\$20.00	Hrs.		
High Performance T8 4ff 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture	Lamp model # Ballast model#	\$25.00	Hrs.		†
High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp	Lemp model# Ballast model#	\$6.00	Hrs.		-
High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp	Lamp model# Bellest modet#	\$8.00	Hrs.		
High Performance T6 4ft 3 lamp fixture replacing T12 4 ft 3 lamp	Lemp model# Sallast model#	\$12.00	Hrs.		
High Performance T6 4/t 4 lamp fixture replacing T12 4 ft 4 lamp	Lamp model# -Ballast mode##	\$16.00	Hrs.		1
	Lamp model # 班拉拉斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯		54 Fast. 1. sa	of Market Street	: : -
refektierstickeld om two seins te Mark Ropinsen op Strome Registrine om te Stro Roma Steriologistrine fra tot och like son Sompolis light fra textile finisiering det en	igis, en (44 miller del 1920) se del III V. Dani, e <u>l del a dias del (1866) del periodi</u> Se o calego del specielo mando el Pos	Serie (de le c Succession de la companya de la comp Serie de la companya	প্রার্থি (জিলা টাইট্রালির তেওঁ জন্ম সংগ্রেক্টর	ide da discolario del cidad II-Richio Reclares del C	01627.000 3.153
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp = 34 W	Ballast model# Lamp model #	\$8.00	Hrs.		
Reduced Waltage T8 4ft 2 lamp of 28 W or less & bellest replacing standard T12 4 ft 2 lamp – 34 W	Ballast model#	\$10.00	Hrs.		1
Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballest replacing standard T12 4 ft 3 lamp = 34 W	Lamp model # Bellast model#	\$14.00	Hra.		
Reduced Wattage T8 4ft 4 lemp of 28 W or less & ballast replacing standard T12 4 ft 4 lamp - 34 W	Lamp model# Ballast model# Lamp model #	\$18.00	Hrs.		
Idinia – At 11	remb model is		L L		,.E

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescant fixtures shall utilize electronic ballest and T-8 lamps.
- Ballests shell have a power factor greater than 90%.
- Ballests, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
 All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Normal or low ballast factor ballasts must be utilized to be eligible.
- Reduced wait T5 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undestrable behavior in cooler temperature rooms and white warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.



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T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)*	\$10.00	10 10 miles	Hrs.	L - <u></u>	4 #504 455-54	i Har ai a a si in raisella
T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)*	\$5.00		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)*	\$5.00		Hrs.		1	1
T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)*	\$4.00		Hrs.			
T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)*	\$4.00		Hrs.			<u> </u>
T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)*	\$4.00		Hrs.			
TB 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)*	\$3.00		Hrs.			
TB 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)*	\$3.00	 	Hrs.			
T8 2ft 1 lamp replacing T12 2ft 2 temp (retrofit only)*	\$ 3.00	<u> </u>	Hrą.			

- Replacement must result in energy savings to qualify.
 All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- . All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
 Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line foad.
- All fixtures shall be installed indoors.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- · Incentive capped at 50% of the equipment cost.



				14				
42W 8 lamp HB CFL replacing 400W HID (retrofit only)	\$50.00			Hrs.		7		
CFt Screw in (lemp only) replacing an incendescent (retrofit	\$1.50 / lamp	\vdash	ļ	Hrs.	<u> </u>	 	1	┪
anly)		ļ	+	<u> </u>		-	 	\dashv
CFL - Screw-In dimmable or 3-way bulb replacing an Incandescent dimmable or 3-way bulb (retrofit only)	\$2.00 / lamp			Нгр.		<u> </u>		
CFL — Hardwired Fodure replacing or in lieu of incandescent fixture (only pin based CFL's qualify) "'check one ⊠R □FE	\$10.00 / fixture	17		2200Hrs.	\$119.00	03/07	\$170.00	
Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only)	\$3.00 / lamp			Hrs.				
33W - 115W CFL lamp replacing 100 W or more incandescent	\$5.00 / lamp			Hrs.				
<u>jang 80.3030 ang</u>			7777		: .	···· · · · · · · · · · · · · · · · ·	7 / / / / / / / / / / / / / / / / / / /	
Replace incandescent bulbs with Energy Star LED (retrofit only) LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify.	\$10.00 / lamp			Hrs.				
http://www.energystor.gov/index.cfm?fuseaction=iledl.dispkiy_products_pdf Model Number				İ				
Replace 60-100W incandescent with ENERGY STAR	\$15.00 /	 		Hrs.		 		┪
qualified LED downlight 18 Watts or less. (refrofit only) Product must appear on ENERGY STAR Qualified LED Lighting qualified products list, and must contain the word "downlight". http://www.energystar.gov/index.cfm?firseaction=ssl.display_products_com_pd .	fixture							
Model Number	<u> </u>				<u>.</u>			
Lagrences coes	<u> </u>	ر 2 مارور در مارور	<u> </u>		,	<u>· i</u>	<u> </u>	i.
320W Pulse Start Halide replacing 400W HID (retrofit only) **check one □R □FE	\$25.00			Hrs.				
encylestration	Section 1	. 4	· .			7	· - ;··· - · · · · ·	"
20W Ceramic Metal Hallde fluture replacing ☐ Incandescent or ☐ Helogen of at least 100 W	\$30.00	Γ		Hrs.				
39W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 150 W	\$30.00			Hrs.				
50W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 195W	\$30.00			Hrs.				
70W Ceramic Metal Halide fixture replacing ☐ Incandescents of ☐ Halogen for a total of 225W	\$30.00			Hrs.				
100W Ceremic Metal He¹ide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 270W	\$30.00			Нгв.				
150W Ceremic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 360W	\$30.00			Hrs.				
25 W or less Ceremic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light	\$10.00/tamp			Hrş.				
Deplocement must result in operations in								_

Replacement must result in energy savings to qualify.

All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.

Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.

All fixtures shall be installed indoors except where specifically stated.

All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.

All fixtures must operate a minimum of 1,800 hours to be eligible.

- Incentives for pulse start metal halide fixtures are for 320w pulse start metal halide lamp/ballast combinations. In a retrofit application, the fixture must be hard-wired ballast retrofit or new fixture. Screw in retrofit lamps do not qualify. Pulse start lamp
- wattage must be lower than existing probe start lamp wattage.

 Ceramic Metal Halide Incentive is for complete hardwired fixtures containing ceramic metal halide lamp and electronic ceramic metal halide.
- Incentive capped at 50% of the equipment cost.



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tup every								
21" Tubular SkylightLight Tube (at least one light fixture per light tube must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies) Check One ** □R □NC □F£	\$75.00 / fixture							
LEO Exit Signs (replacing or retrollitting existing incandescent or compact fluorescent exit sign)	\$10.00 / fixture	13 V	2200	\$390.00	03/07	\$130.00		
LED Lighting In Reach-in Freezer or Cooler Case (replacing or in lieu of fluorescent fixtures) check one ** □R □NC □FE	\$50.00 / door							
LED Case Lighting Sensor Controls ** □R □NC □FE	\$10.00 / sensor							
Under 500 W cannecled to sensor check one ** ☐R ☐NC ☐FE	\$20.00 / sensor							
Over 500 W connected to sensor check one ** □R □NC □FE	\$40.00 / sensor							

- Replacement must result in energy savings to qualify.

 All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- Eighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Tubular Skylight requires at least one light fixture per light tube that must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies)
- LED exit signs shall use 5 watts or less including the battery charger when active. They must meet State Fire Marshal codes and be UL rated.
- Occupancy Sensors (under and over 500) must be either wall, ceiling, or fixture mounted. Rapid or programmed start ballasts are recommended for fluorescent fixtures.
- Occupancy Sonsors (under 500W) installed on or built into High Bay fixtures are eligible for Incentives.
- LEO Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in fleu of) a fluorescent lighting system for reachin refrigerated display case.
- Fluorescent magnetic ballasts cannot be used to power the LED case lighting system. Existing fluorescent fixture end connectors and ballasts must
- LEO case lighting system must be a permanently installed luminaire. LEO lamps that install into fluorescent temp sockets are not eligible for incentives.
- LEO Case Lighting Sensor Controls may only be installed with LED tighting systems. End of alsle and Individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.



	."		
Exterior LED or Induction fixture replacing up to 175W HID Model Number	\$407 fixture		
Exterior LED or Induction fixture replacing 176W - 250W HID Model Number	\$50 / fixture		
Exterior LED or Induction fixture replacing 251W - 400W HID Model Number	\$80 / fixture		
Exterior LED or Induction fixture replacing > 400 W HID Model Number	\$150 / fixture		
Garage LED or Induction fixture replacing up to 175 W HID Model Number	\$100 / fixture	·	
Garage LED or Induction fixture replacing 176W – 250W HID Model Number	\$1507 fixture		
Garage LEO or Induction fixture reptacing 251W 400 W HID Model Number	\$250 / fixture		
Garage LED or Induction fixture replacing > 400 W HID Model Number	\$400 / fixture		
LED Auto Traffic Signals (replacing incandescent) Model Number	812,50 / lamp		
LED Pedestrian Signals (replacing incandescent) Model Number	\$25.00 / signal		

Replacement must result in energy savings to qualify

All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
 All fixtures must operate a minimum of 1,800 hours to be eligible.

- All equipment must be new to be eligible for incentives. Used equipment is not eligible for incentives.
- Outdoor and garage LED and induction lighting must result in a total power reduction of 40% or more.
- Outdoor and garage LEDs should be listed on either the Energy Star or Design Lights consortium qualifying products lists:
 - 1. http://www.energystar.gov/index.cfm?fuscaction=ss1.display_products_com_pdf
 - http://www.designlights.org/documents/NEEPDLCQPL.xls
- Traffic and pedestrian signals using LEO lights must replace conventional incandescent signals.
- Incentive capped at 50% of the equipment cost.



Program Requirements

Incentive Eligibility

Incentives are only available to customers on a Duke Energy Ohio non-residential rate.

Duke Energy Customers who purchase electric generation from an atternative supplier are eligible to participate.

 Incentive will not be pald until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.

Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.

Applications, along with the required documentation, must be submitted within 90 days of equipment installation and operation.

Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the
Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action
constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment
by an equivalent amount.

Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the
required documentation noted on the Incentive Application Process page of this application.

Any equipment which, either separately or as part of a project, has or will receive an Incentive from any other Duke Energy program is inclinible.

In no case will Duke Energy pay an incentive above the actual cost of the new equipment.

Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.

To qualify for Duke Energy Incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax fitting. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.



Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. In understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxas. I hereby agree to indemnify, hold harmless and release Duke Energy and it's affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties) and is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment.



Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

- Review program and equipment requirements on the incentive application, (Page 6).
- Purchase and install eligible energy-efficient equipment.
- 3. Complete and submit application within 90 days, after equipment has been installed and is operational.
- 4. The following items must be included to verify projects. If they are not included, it will delay payment of incentive.
 - A. Itemized invoice for all equipment installed to include:
 - Equipment cost
 - Quantity per equipment type installed
 - Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.
 - Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to assign payment of the incentive directly to the vendor, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
- 5. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
- 6. Email the complete, signed application with all required documents to PrescriptiveIncentives@duke-energy.com or fax to 1-866-908-4921 or mail to the following address:

Duke Energy Smart \$aver® Incentive Program 431 Charmany Drive Madison, WI 53719

 A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All Incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

COOPER LIGHTING - SURE-LITES"

to the event of AC power feiture, the Sure-Cites FEP Emergency Battery Pack automatically switches to emergency mode, it maintains illumination of one or two lamps for a minimum of 96 minutes. UL jisted for field retroft; installution and conforms to OL 924.

SPECIFICATION FEATURES

Ziectronic

Duat Voltage (neut 120/277 VAC) **8**शमर

Biniversii Voltage Input 120-277 VAC, 50/60Hz (989240HC);

Solid-state Charger

Overload/Short Circuit Protection

Test Switchflower andicator Light

Sattery

Sealed Nickel Cadmium

Maintenance-free, Long Life

Full Recharge Time, 24 hours immx.)

Code Compliance

Ul \$24 Listed

Utilisted for Retrofit/Field Installation

Lite Salony NEPA 201.

NEC/OSHA

Most State and Lucal Cobes

Chicago Approved

Features

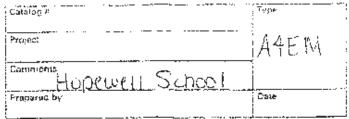
Provides a minimum of 90 minutes of emergency (bumination

Can be installed inside or on top of fixture

Low Profile Housing (FBP400LP)

Easy-to-foliow instructions make installation quick and simple

May be used with switched or ensyvitation fixtures

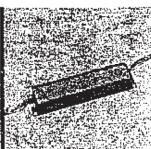


Self-Diagnosecs (F8F740HSD)

One lamp operation (FBP2400, FBP140X, FBP240U, FBP450UP); One or two lamp operation (P8P240M, FSP240H, FBP240C) FBP240RU, 78F240HSD)

Corposition with many different lamp types-consult ordering intermution below at consult your Cooper Lighting Representative regarding specific applications

Compatible with many baltast types including standard, rapid start, sümline, instant start, energy saving, dimming, and electronic AC haltasts-consult your Cooper. Lighting Representative regarding spincific applications



*FBP SERIES

FLUORESCENT EMERGENCY BATTERRY PACK

Emorgency Lighting

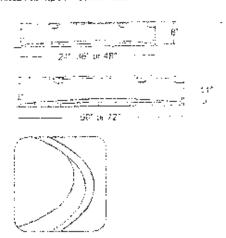
DROERING INFORMATION

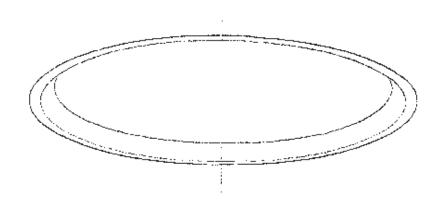
OHDERING INFORMATION SAMPLE NUMBER, FACIAGE

auniog.	Lamp Туро	Number of Lamps Operator's in Eunergenov Morfo	Initial Lumens
Yo.	. — — — — — — — — — — — — — — — — — — —		354-457
98140X	SOW 46W, 214', TR-T12 U-shapers, circleling,	One	400
	ZD, procepy saving, rapid stan (4-26), 2011) Song compact (600roveces)		
9F240U	17W 710W, 2-8, 78-712 HD, VHD, U-snaths	One	800-700
514.540Q	circleting, 2D, energy environ, rapid start	S-15	
	Id-pin, 2011 land conclude fluorescent		
8.9245M	17W-215W, 2'-E', 78-112 HC, VHC, U-shaped.	One-2007 to 21507 (215)	
D. Z. gins	mrsfeline, 20, mergy saving, repid start	One-20W in 35W long compact fluorescent	
	(4 alp., 2(51)) long compact fluorescent	One of Two 2000 to 4000 (21.47)	
3 2 2 4 Dis	12W 2:5W, 2'-8, 18-712 HD, VHC, C-shapec,	Day or 1wb - 17W to 24W	1180-1400
3. 2901	circulate, energy saving, rould scort 14-pan,	One or Ywo - 32W to 40W 12"-4")	(7.06-1 00 0 tor long
	2G11 or G2nai land compact fluorescent	One - 40W to 215W (5'-6')	compact lbu(Hr:scens)
	The state of the s	One or Two -18W to 20W	
		lung compact functiones.	
		One or Two - 10W to 32W	
		4-Рад согоряю Дуоговорог	
997.240HBD	1777-235W, 2"e", 78-712140, VHC, G shoped,	One of 1999-1999 to 4990 12" 4"!	1100-1406
	circleline, energy saving, ranid #thD 14-DID.	One-20W to 215W (5'-8')	1200-1500 for long
	2/311, G2aq, or GX2aq) (with, quad and triple)	One or iworIBW to 39W long	compan fluorescent!
	twin-lubit compacts	compact fluorescent	
		One-40W to 55W long	
		compact fluorescent	
		Orde or Two-18W to 42W 4-bin	
r_00_0000	n vitani termanakan kenang bahan kalangan kenang bahan kenang bahan baha	One of 1990-1797 to 4099 (23-45)	TT / 1882 5466*******
-BP240: KU	1799-215W, 213E, TET 12 HO, VHO. 17-ENGUED.	One-40W to 215W 151-811	7706 3 000 for long
	artilefire, energy saving, rapid #560 94-900.	One or Two 18W to 29W long	compact fluorescent)
	2019, G24q, or GX2qq) Livin, gyad and lable	compact (bronescent	(A) in plant in a base seeming
	twen-total enterpacts	Civil 40W to 55W long	
		compact Bistreroesi	
		One or Two-18W to 42W 4-pm	
		compact fluorescent	
PARMADO.	6W-76W tubular without integral starter.	One or Two 69V to 28VV topplar	366799
. 21 1.44	13W-42W 4-pin twin, griad, of trible twiff-tuby	One or Two-13VV to 30VV or	
	compact flagrescent without integral staters	Oge 42W 4-jan compact Nuorescent	
*FRP2402	18W-26W spand suze with integral starter in	One-18V/ to 26W compact Published	300-650
FIN VAINT	1965 Din Desc	Date-1044 to Sala Obulable: Ministration	200 010
*6822563		One or 5we-17W to 40W (77-41)	1456-3570
- (0:25IA)	17W-216W, 219', 1/8 T12 H0, VHC,	One-40W to 215W (57-67)	, n 3th-19 dated
	1/-shaped circlesse, energy saving and (4-pm, 2G11, G24e, er GX24e) twits.	Cine to Two-t8W to 39W Sone	
	grad and triple twin tube combades	combot: (indicateur)	
	Chino and Mittie Mitting the Charles	One 489 in 569 long	
		compact Hodrosceni	
		One or Two-18W to 42W 4-pin	
		compact fluorescents	
4			
FBRADBI P	3XVV, 41, 13	Unit	450

Energy Data

		Input
Power		
Model No.		1207
FBYTADX		4269
FRYTADLI		6.397
FSP740M		6.34
FBP740H		5,aW
FBP24DHSD		4.08
FBP24(WILL		B.0M1
PBP240C		5.377
FBP240D		3.590
FBP3500		8,947
FBP450LP		1.5W





ordering

series .		, 'amp rows	shieiding	9	aelon	finish	- circ	oiting	voltage	ceili syst		options
⊳-8330 	2' dischedes	(2) T8,T8U5 2BX_w 3BX_w	wi eo	entavle inte crylic	TMW: ▼ YGW	foxtured ignate white cless	80 90	single prout -	120 277 3471	X1 X381	exposed Typer hard ceiling	EME.
- P-8930	3' biacielo:	48X_w** (17.5% steeler) (4) T8, T5, T5HO (6) T8, T5, T5HO	v/l ac FWA1 fla	hito V Eryās (Liwhiso	V	value promitan appor	'		TELEMAN A. W. Mes week	i : "Steine	*	RSE:
P-8940	il danvier	(6) T8, T5, T5HO (6) T8, T5, T5HO (6) T8, T5, T5HO (8) T8, T5, T5HO	ns Province d The loss of Talescophers	f	certar	chistorn chilor chilorae chilorae						B
6 3050	6' oxampler	(5 demisser) (6) T8, T5, T5HO (8) T8, T5, T5HO (10) T6, T5, T5HO		:	*\$\$11964	·.t						faction in a little faction of the little fa
P-8960	6, distable	© dangwr; 16) 18, 16, 16HO (10) 18, 15, 16HO (12) 18, 15, 15HO										
		Police, operation provinces we will also be a pro-										

Applications, Offices, totales, retail, actions, linearies, bromed spaces

Features: A round, recessed luminizate with a housing depth that encures even lens illumination. Designed for TS/HC, T8 or biax tamps, this fixture is ideal for souces where non-traditional fixtures are cosined to amplify the arentectural design. The exhibited alternium depth and gives the fixture strength and depth prohilectural detailing. Concave, convex or flat lenses are eventable.

Construction. The housing, available in 2 , 3-, \pm , 5- or 6-fool diameter, is made of dic-larged, 20-gauge stept.

Finish The standard housing color is gloss white (YGW) white the standard exterior from color is textured mette white (TMW) using polyester powder paint. Refer to Defining Section for opingost oaths colors.

Electrical T8 and biax fixtures have instant-start electronic ballasts with less than 20% THD, T5/HO fixtures have programmed-start electronic ballasts with less than 10% THD. Fixtures are U.L. Dame labeted (non-energency) and I.B. Z.W. manufactured, Maximum ballast size available; 20%* width x 10/7 height.

Mounting Fixture is to be recess-mounted into exposed 7-bar or hard ceiling application(s).

Options EML: emergency battery (T5/HO=700 lumens; T6=600 lumens; 8Xn603-700 lumens); EMH: emergency battery (T5/HO=1206 lumens); T8=4200 lumens); BX=900-1100 lumens); DM: dimming (consult factory)(RSE) rapid-start electronic, (T6 and biax only); 107HD: ballast with < 10% total harmonic distortion, (T6 and biax only); B_ specific ballast, specify manufacturer and catalog number (consult factory). FH fixture fusing (slow blow).

PHOTOMETRICS

2GC-28X46A Silectronic Bellast F468X/SPX35/RS Lamps 3150 Curnens

Spacing criterion: (N) 1.2 x counting height, (L) 3.4 x mounting height Efficiency 74.3%

Test Report: 2GC28X40AJES

1€R = 51462

Yearly Cost of 1000 lumens, 3000 hrs at .06 KWH - \$3,87

Coefficients of Utilization

	En	met ig	ee fla	ar co	vilv rál	ilest	B-1 G-8	╙		14								
rc		R,	1%			7	n4C			507	·		301	<u>.</u>		10%		0%
74	70	50	àc.	†Ø	ŋŗ.	50	30	10	5c	30	70	. 50	30	10	50	36	10	
RCX																		
0	6	е л	8 20	28	HS	26	ЭG	36	43	43	ā.r	79	79	7,5	76	75	79.	
	*	3 7	9 76	74	90	77	75	73	7.6	72	推	27	70	64	3%	67	B∃	AK
2	— 7,	E 74	55	62	74	ñ₽	65	62	67	43	50	fi4	61	30	77	90	56	# 6
7		5	3 58	54	研	62	\$7	50	63	55	52		46	52	56	53	51	49
4	<u>e</u>	5 5	- 1	47	5 3	36	٤١	149	54	18	46	50	4₫	45	اه "	47	4≑	22
5	A	3 5	45	40	20	74	4.	_40	15	44	40		63	35	16	43	3.7	37
- 5	59	. 40	6 ±0	35	84	45	46	. 35	4.6	29	35	43	2 #	3.	40	36	34	. 33
7		4	75	31	EC.	45	35	.37	70	35	31	25	34	33	328	34	20	39
R	4	7.3	7 7:	27	4.6	22	21	71	34	37	27	35	30	27	34	æ	27	75
	1	3.	25	- 24	42	53	25	24	32	27	23	(17	77	23	31	2á	23	72
10	- 4	37	7.75	21	29	œ	25	. 35	29	24	21	28	24	21	28	7.2	71	19

Zonai Lumen Summary

Zone	Lungane	%Lamp	*Finiture
0-39	1526	767.	22.5
D-40	7497	39.6	53.2
0.80	4913	63,7	25,7
0.90	4680	74.3	\$00.0
0.130	4582	74.3	100.0

Typical VCP Percentages

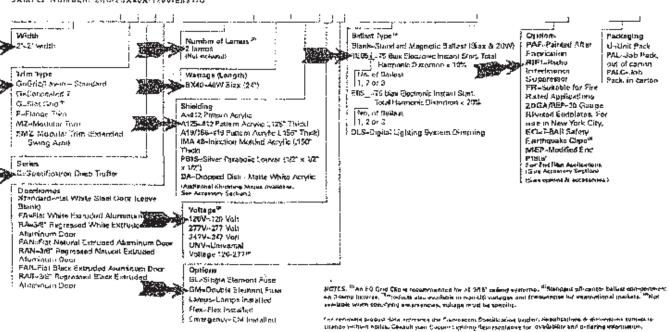
	Heigh	t Allong	Height	Across
Room Size (Ft.)	8.5	10.01	A.5"	10.0"
20 × 20	_ ≨€	64	3-5	80
30 x 36	51	56	49	97
30 x 80	A:	₹5	37	46)
60 x 30	52	57	50	55
සිය ස ජර	4)	45	38	41

Candela

Angle	Albini II	45*	Across1
0	1907	:902	1902
<u> </u>	1896	1898	1911
10	:868	1820	1016
15	1837	1833	1917
20	1237	1806	1894
\$ Ē.	1641	17.78	1867
340	1527	364C	1774
25	1375	16-06	1868
10	*204	1000	3191
45	1007	1520	1266
50	795	206	9.9%
55	618	678	744
arc.	479	472	526
15	96a	325	383
' 0	273	222	501
75	207	175	248
340	154	148	196
35	96	79	104
ю	3	. 0	

ORCERING INFORMATION

SAMPLE NUMBER: 286-25X40A-120V-EBS1-U



SHIPPING IN	MOITAMEDE
Catalog No.	WL
*GC-26X40A	18 (bs.

METALUX

DESCRIPTION

The GC Series features a norminal 4-4/2" permipara-comound fixture housing, high reflectivity and optimum targo to less specing. The series produces total uniformaty of eight in the luminous area and is compatible with all of today's publish colling systems and is available with a number of options and accessories for application versatility.

APPLICATION

The specification luminate is designed to effect maximum efficiency and performance for today's unique interior specifications. The GC Series is an excellent choice for commercial office spaces, solviols, toogetals or rotal merchantismy areas.

Catulog #	Type
2GC-2BX40A125-720V-GM-	El."
Proved FBF240H-1EB51-RIFT	AAFM
	/ / 1 C / 1
Hopewill School	
Prepared by	Date

SPECIFICATION FEATURES

A. Construction

Nominal 4477° э́вер, рагаксонtouted housing, die formed code gauge, prime sold rolled steel. Die empossed housing has full leagth sip formed stiffeners for added sysnem. Deep "V" ballast/wireway cover easily removed without tools, Die formed captive lampholdier bracket fully encloses tampholder wiring reconting easy lampsolder replacement. Heavy endplates are securely attached with interlocking tabs and screws. Four arctiliary fixture and suspension points provided. KOs for continuous row wirings. Endplates have integrat Grid-Lock feature for safety and convenience.

B.-. bigetries!

Ballasts are CSM/STE Class FFT and are positively scouted. 2G11 base lampholders have countie-edge wiping action pressure look contains with feer comally oriented temp securor dips. Ut/CEL tisted, Suitable for damp locations.**

C...Finish

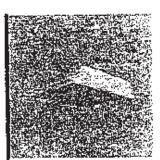
Municipal, and prospitate pretreatment ensures meximum bonding and rust subbitor. Lighting groos, baked white changel finish.

D...Ringing/Latching

Frostive cam action spring tooded steel latches with baked white enamed finish. Safety look T-hinges above hinging and latching either side.

EmPremo/Shiet/Bing Die lormer, heavy gauge, flat steel door with restorced

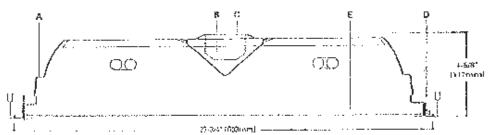
mitered corners and baked when examel toosh. Positive light senios, Light sopilized 100% virgin coryle prismatic stickling. Standard #32 pattern. Optional sixielding available.



2GC2BX40

2' X 2' TROFFER 2 BJAXIAL LAMPS

Specification Deep Troffee



MOUNTING DATA DOOR FRAMES Access Plans #CRA 7/81 187 mm3 K O 192 1-1/7 5-14*193eas* 3-3/4" (\$5anre) 74° (610-46 LAMP CONFIGURATIONS 391031mmL/ 10 388 1- 23.041(64) mmi CEILING COMPATIBILITY G Was God Şri á/luay-ıı-Flance Tem Concested? Modwar Trim Type Pytre Stanslerd With Supporting Willia Supporteding Swing Gates Биила Ожина

ENERGY DATA

ES Balance & STO Harris ZEX40 (67)

SYD Beliest & STD Langes PBX40 (82)

Lumbricke Stificacy Raying LTR & IT-62 Cutalog Number 2GC-38X40

Yearly Cost of 1000 lumons, 2000 has at 46 KWH - \$3.57

* Peterstee the temptostees pace in the Technical Secutor for executing two problems temporements

** Booket Fire Sales Transport Support



DESCRIPTION

The GC Series features a nominal 4-1/21 deep para-contoured fixture housing, bigh reflectivity and optimum tame to iens specing. The series produces total uniformity of light in the luminous area and is compatible with all of today's popular ceiling systems and is available with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

APPLICATION

The specification ignitizate is designed to offer maximum efficiency and performance for today's unique interior specifications. The GC Series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

FLX	We
	, 🗸

METALUX'

	1 ' 1	
1	Catalog # ype	
	2GC 26X401725-120V-GM-	
ì	Project TEBS1-RIFT /4	
	[West 1885] - KIET	
1	<u> </u>	
	Continents	
	Hopewell School	
	Premared by Pate	

SPECIFICATION FEATURES

A ... Construction

Mornigal 4-1/2" theep, para-contoured housing, die formed cade gauge, priese cold raffed steel. Die embossod hausing nas full leagth. die formed stiffeness for addled strength, Deep "V" dallast/wirmway cover easily removed without tools. Die formed paptive tampholder. bracket fully enviloses lamphoides wiring permitting easy lampholder coplacement. Heavy endplates are securely attached with interlocking tabs and screws. Four puxiliary fixture and suspension points provided. KOs for continuous row witing. Sndplates have integral Grid-Lock feature for safety and convenience.

B...Electrical

Baltasts are CBM/ETI, Class "Prime are positively secured.
2G11 base tempholders have decola-edge wiping sation pressure took contacts with hor identity oriented temp support dips. UL/COL listed, Spitable for pamp togations."

C. Finish

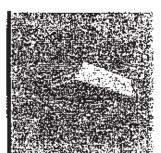
Multistage, iron phosphate pretrestness cosures maximum bonding and rust inhibitor. Lighting grade, based white enomet linish.

D. Rlaging/Latching

Positive earn action spring loaded steel latches with boked white enamel finish. Safety-look T-Ivinges allow hunging and latching either size.

E. Frama/Shielding

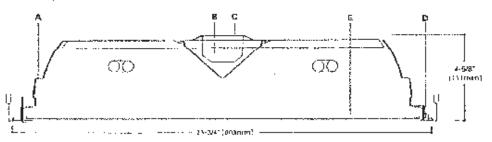
Die formed, heavy nauge, flat steel enor with remioraed mitored corners and based white chames finish, Positive light seels. Light stabilized \$108% virgin acrylic prismade shielding, Standard #12 pattern. Optional shielding syallable.



2GC2BX40

2" X 2" TROFFER 2 BIAXIAL LAMPS

Specification Deep Troffer



ASOUNTING DATA DOOR FRAMES 1/86* (22mm) Asocial State FOR Many Process State FOR Many Process State FOR Many Process State For State For Many Process For Many Agreement For Many

LAMP CONFIGURATIONS



- 5 - 3041 Section 44

SEILING COMPATIBILITY

G GaldGeyen

Standard	
<u> </u>	

о Списения Т

\$ 1 A = \$ 104° (120mm)

- 6-1(41515)#mml

Stor Grid

Flange Tong With Suppositing Swing Gates



MZ Mocoler Total With Scapering Swog Sales

Swog Sales

ENCHOY OATA

Inpair Watts: EB Ballest & SVD Temps consequence:

\$10 96050 & \$10 tamps 25X40 (\$2)

Consider Ethodox Racing
CER + FL-62
Catalog Number 2680-288840

Yearly Cost of 1000 luminus, 3000 hrs at ,08 KWH - \$3,87

Okassance the langulariasi case in the Techniqu's Sepager for apper An Languitation (paranghangs)

** Downie Per Sales Technical Suppless.



PHOTOMETRICS

2GC-2BX40A Electronic Satissi F40EX/SPX35/AS Lagges 3150 Lumers Specing priterion:

(II) 1.2 x mounting height. Lub 1,4 x mounting height. Efficiency 74.3% Test Report: ZGC2BX40AJES

1.5B = FL-62

Yeariv Cost of 1000 turnens, 2000 hrs at .08 KWH ~ \$3.87

Continients of Utilization

Effective floor ravit	esectionity y	20%			
: 80%	70%	50%	30%	10%	0%%
rw 70 50 30 10	70 50 30 10	70 30 20	50 30 10	50 30 10	Q.
9CK					
a 56 CR RS 89	36 RE 46 86	82 93 82	70 79 70	76 75 76	24
1 22 78 76 74	80 77 75 78	74 72 7C	71 70 GB	89 67 66	65
\$ 15 70 98 57	74 65 25 62	57 SW 50	54 51 69	52 60 36	56
n 79 F3 68 G4	68 BV 97 63	90 55 52	55 bii 52	aB 83 \$4	48
4 65 97 51 37	63 56 51 48	E4 43 44	52 48 45	51, 47, 45	400
5 30 35 45 46	\$8,50 44 46	429 44 46	47 43 39	48 47 39	37
6 95 65 40 35	54 43 40 35	44 39 35	45 38 35	42 36 34	33
7 53 42 35 32	60 A1 75 LF	40 38 31	35 24 31	39 34 30	79
g 57 89 81 gz	49 37 37 27	36 81 22	25 (4) 27	34 DB 24	2%
9 43 34 75 74	42, 35, 27, 34	37 27 23	57 27 23	31 75 73	33
10 40 35 75 77	36 30 35 21	22 24 21	25 24 00	28 24 21	12

Zonat Lamen Summary

Zarje	Lumens	Stame_	%Flottore
0-30	1525	24.2	32,6
0.46	2489	39.8	53/2
0.40	1017	\$3,7	7.38
0-90	4587	14,2	100.0
₿-180	4682	74.3	100.0

Typical VCP Percentages

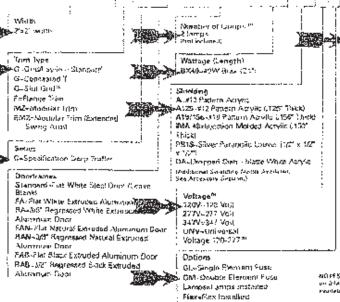
	Heagh	t /Mong	Height	AC7085	
Stonen Star (Ft.)	8.6"	70,01	8.51	19.61	
30 ± 20	59	64	55	-50	
30 x 30	. 55	56	±₿	52	
30 x 50	17	45	37	40	
60 x 30	52	57	50	55	
62 × 65	12	15	38	43_	

Gundola

4780	Almog B	45*	Across.
3	1907	1050	3907
2	1896	1606	(8),1
10	SREE	1894	1916
15	1812	1895	1911
76	:737	1606	489.4
75	1641	1739	1857
30	1521	1 6 40	1774
35	1975	1908	1,689
415	1204	1331	1494
45	1007	1120	1259
50	795	306	929
=5	616	678	744
86	179	472	526
5 5	368	322	382
20	7,728	727	36:
75	202	175	2,48
NO.	154	746	150
ลร์	96	75	17:4
90	<u> </u>	0	

NDITAMAROAM PROPERTY

5 OMPLE NUMBER 200-26X404-1204-08501



Entergency (LM Installed

Hallast Typu " BlankeStandare Magnetic Baltast (Biax & 2004). Blanke Standard Magnetic Trees Seat Test PERS), alla Sax Electronic Materia Seat Test Harosono Distorpor e 1912

No. of Ballace

205, jeT\$ State Statemente Promis State ∴ Total 24 innot to Disposition < 20%

No. of Saliast 2.2043

OLS-Digital Lighting System Clining

Packaging PAJ -Pairced After Fabroadan DADNIC Poer PALICIDE Pack. RIF to Bardio bet of Larloy. Spites (Ference) #ALC+Job Sирринатог Pagly in gorden PROSugable for Fire Nated Applications 20 GA/REP-20 Gauge Rivered Englolates, For uso in New York City EC: TBAR Safety Earthquake Clips²¹ MEP#Modified and P(a) or For East Filter Applications (See Accuracy Section)

Options

NOFFS: "In FO Opt SAp in recommendation of 4/16" cooling systems, ""Steenford of control values consumment on obtaining returns, "Products also evaluate an operation of the product of the consumer of the control value of the development of the control value of the control of the control of the control value of the control of the contr

For complete broken data, televene the Shorespect Specificative blocks. Secondaryons & damonsique cobrect to Charge without holies, Compill your Custom Cythog Recommission for excelentific and reacting externation.

MOSTAMAGONI BUIGHINS Caraleg No.

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

In the event of AC power failure, the Surc-Lites FBP Emergency Battery ²acx automatically switches to entergency mode. It maintains flaumination of one or two lamps for a minimum of 90 minutes. Ut listed for field retrofit installation and conforms to Ut 924.

SPECIFICATION FEATURES

Electronia

Durat Voltage foodt 120/277 VAC., Rithu

Makversp Makage Indus 196-977 MAIL 66/80/35 CIBPS-00101

Solid-state Charger

Ovenesc/Shart Circuit Pretection

Test Switchⁱⁿower indicater light

Battery

Sealed Nickel Cadobium

Maintenance-free, Long Gis

Full Recharge Tinto, 24 hours (max.)

Code Compliance

UI, 924 Listed

OL Listed for Retrofft/Field Installa-

Life Safety NEPA 101

NEC/OSHA

Most State and Local Codes

Смааро Арргоуей

Features

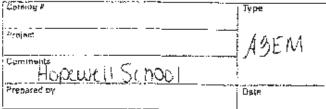
Provides a minimum of 90 milhited of emergency thinkington

Can be installed inside or on top of feature

Low Profile Housing (F8P450LP)

Sasy-to-follow instructions casks installation todak and simple

May be used with awitched or unswitched fixtures

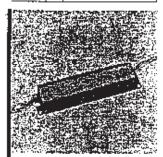


Self-Diagnostics (FBP240HSD)

One tamp operation (FBP240D, FBP340X, FBP240U, FBP3460LP); One or two tamp operation (FBP240M, FBP240M, FBP240M, FBP240C, FBP240M, FBP240C, FBP240MU, FBP240CHSO);

Compatible with many different lamp types consult progring intermation below or consult you: Cooper Lighting Repretentative angarding specific applications

Compatible with many ballast types including standard, rapid start, stinoine, instruct start, energy saving, diamning, and dectronic AC patiests-censuit your Cooper Liphting Representative regarding specific applications.



*FBP SERIES

FLUOREACENT EMERGENCY BATTERY PACK Emergency Lighting

ORDERING INFORMATION

Satelog	•	Number of Lamps Operated	
No.	Laving Type	in Emergency Morp	Initial Lumens
781146X	209-47W, 7'-4', T3-T12 S-sharied, circleling, 50, energy saving lapid part (4-bin, 2G11) long trainplet flebioscene.	One*	350-450
FB9240U **	19w/215w, 7.47 78-177 JC, VMC Tachapen, Cholesine, 20, cacrov seeing, rusid start	Die .	600 700
(197-)463A	A pin, 7031 long compact fluorescent 7W-210W, 21E, 18312 HD, VHC, U-Ksopec, cucletine, 2D, energy soving, rappo stant (4 pin, 1011) long compact fluorescent	1)etc. 20W to 245W (218) One-20W to 35W long compact fisherescent One or Twe-20W to 48W (214)	635-70b
p-766248)	13W 216W 216 TETTERS VIRD UP antoed. audition, energy swing, rapid start (6-pts. 7011 or 576g) long compact flooruscents	One or Two 17W to MW One or Two 12W to ASM (2'-a') One -40W to 15W (5'-b') One -40W to 15W (5'-b') Idag conceal fluorescent One or Two 15W to 37W 1-Fin formatic fluorescent	11(5)-1409 L709-1990 for long compact fluorescent)
P S PS4G4SC	17W-215W, 77'8, 19117 HC, VHO, U chaped circlelmu, amergy swing, reprid start M-on. 2511, 024t, nr (1724g) Iwin, quad and triple belondoby compania	One of two-1-twi to 15th/ (2-4-) One-dow to 215th/ (5-8-) One-private-18th/ to 15th/ (5-9-) comment fliver access One-dow to 25th/ fong comment fliver access One-dow to 25th/ fong comment fliver access One-dow to 25th/ fong comment fliver access One-dow to 25th/ to 25th/ pie- comment fliver access One-dow to 25th/ to 25th/ pie- comment fliver access	Trod-shop (70): 1900 for teng coropact fluorescent
PEP245HO	17-W.215W. 216, 16/17/180, VHOL U-Briabud. circlelone, energy saving, upid start [4-ph. 2G13, G24q, or GX24g) Ivan, guad and trible bus ruha company	One of Ywo 17W in 30W (2"-4") One of Ywo 12W (5-8") One of Ywo 12W (6-8") One of Ywo 12W (6-8") One-60W (6-55W)one Compact fluor brown One-60W (6-55W)one Compact fluor brown One-60W (6-55W)one Compact fluor brown One-60W (6-55W)one	1700 nates (200-1000 for long compact (Augrescent)
°°≤817¥852***	5W 29W tubular wilhold integral starter, 13W-62W A-pin with guide, of triple twee-tube combact fluorescapt without magast attoriers	enmpac: fluoresters One of two-69V to 28V Straular One of Ywo-13VV to 28V or One-42VV 4-pin compact fluorescaps	1 gbc-zsig 1 - 12 - 31 - 32 - 32 - 32 - 32 - 32 -
***************************************	1897-290V quad tube with integral starter in two pin hase	One-1897 to 2699 compact fluorescent	300.652
±EB F€.MX:	TYM-215Vf, 21 ft, F3/112 HD, VHO. Si shaped direligins, energy spyling and filepin, 211, 524, pt. VX4ap, hwin, fluoric 2011, 524, pt. VX4ap, hwin, qualification triple, twin-table compacts.	Dine or Two 17W to 40W (7-4*) One-40W to 21EW (5-6*) One or Two 18W to 35W tang compact fluorescent Dine-46W to 54W tong sempled fluorescent One or Two-18W to 47W A per compact fluorescent	1450-253 Q
59965000	08Wy 61, TB	1)ng	d5D

ORDERING INFORMATION

SAMPLE SUMBER FEPTAGE

See chart above Aucresonies

Accessories (Order Reperbiely)

PBP1WBCaWite Bundle Cover for external mount applications (Frequired)

Energy Date Input FRP140X 4.514 FBP240U 5,3W FBP240M 5.349 PRP240H 5.844 PERFEACHING A,QVV PRESCHIL S.OVY FBP940C 5.3W FBP240D 3.₿₩ FB20506 B,CVV

HKP450CF



2GC-232A Electronic Sallast F3278/35K Lamps 2800 tuniens

Spacing criterion: (ii) 1.3 x mounting height, (30, 1,4 x mounting height Efficiency 79.4% Test Report: 2GC232ARES UER - FL 66

Yearly Cost of 1000 lumans, 3000 hrs at .08 KWH - \$3.64

Coefficients of Utilization

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Zane	Lumens	45Caprio	%Farcure
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0-40	2305	35.3	4S.5
0.60	3743	56.8	94,1
0-50	44.67	79.4	1500
0-190	4447	49,4	190.9

Zumical	VER	Percentages
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	zkeigh	t Aleng	Haighe	Acres	ı
Boarn Size (Fg.)	0,5	10,61	8.51	10.01	
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30 × 30	48	70	*11	ья	
30 x 60	62	94	37	63	
60 x 30	70	73	6 5	7.5	
GB & AB	42	64	98	31	

Candela

Alagije	Along II	461	Autosal
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<u>.</u>			605
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	<u> 1627</u>	1644	1660
15	1555	1620	1645
30	1545	1680	1635
25	1481	3,548	16(14
202	1400	1485	5857
25	*299	1466	
40	1171	1204	1292
그렇	1015	1124.	1245
<u>5u</u> ,	B25	854	1035
55	[WV	764	759
<u> </u>	520	579	577
85	293	4.52	179
73	29:	250	7500
75	191	173	221
90	136	126	165
RF.	76		. 44
50	0	9	4

Packaging

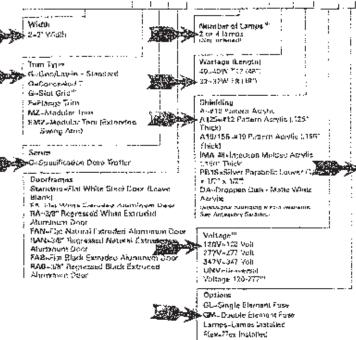
Quidelt Pack

PAL-Job Shak

mulial paston ; PALC, Job Pack, in carrior:

ORDERING INFORMATION

SAMPLE NUMBER: 200-232A-126V-EB81-U



Emergency+FAI Installed

Ва⊈ия(Туре ^н UEOC8+1B Magnetic Phergy Sowing UED 2712 Magnetic Energy Gaylag LRB TS Section Program than 2 Section 1 No. of Satisfact 1, J or 3

EBS 18 Dectronic leaters Start, Tallot Hartreador Chatorillon < 20% [प्रस्ति को Ballios:

1,2073 ER8_/PI,US / (8.5 logstone learnet Start, high Rallast Factor of 133, Tatal Hammania No. of Obstation - 20%

1. 2 as 3

ESS Licht Steptowa Instant Start, (ctal Harmodic Destoration < 10% No. of Pallasi

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No. of Sollast

DiskDigital Lighting System Courtain

NOTES, Then BO Sald Clinia recommended by a 2017 option) system on This instant office in black com-petitions on Status former. Therefore two evolutions note US vertices and the options for instantantial members. This available is one options are explained than the standard of the options.

Ontions

Palarications

letter fototole

РАБоРинцас Авы

Suppression
FR - Sugarde for Fire

RESelfator-Lors Socket (1.8 Lamps Only)

(Salarin revision archemyrus)

Rused Applications 20GA/REP-30 Gauge Fixeted

Endplaces For use on New York Dig. E.Q. sT-BAR Safnly Contestion Dipen MEP-Mydfline End Plater For Sail Birk Apalkhoot 1546 Agamany Saddoot

Fire conspects gradum fairs, with energy me blummer of Spanita attent stander. Suggisterations & Americans subject Suggisterate authors indices Consult grow Couper Supring Pleasepperhabilities and Johnste and Americans site and subjects.

SHIPPING INF	ORMATION
Catalog No.	wa
260-327A	29 15 8
26C+435A	32 %¢,

DESCRIPTION

The GC Sence features a nominal 4-1/21 deep para-contoured fixture housing, high reflictivity and optimum lamp to lens spacing. The sense produces that uniformity of light in the luminous area and is compatible with all of today's popular celling systems and is available with a number of options and accessories for application versatility.

APPLICATION

The specification luminaire is designed to offer maximum efficiency and performance for today's unique interfor specifications. The GC Sense is an excellent choice for commercial office spaces, achools, hospitals or retail merchandising areas.

Catalog & Type 2GC-232A125-120 Y-LBB35 Project GM-EL-FBP240 H-TEB31-RIFT Commissible A3EM Flopewell School Prepared by Oate

SPECIFICATION FEATURES

A.- Construction

Nominal 4-1/21 deep, para-contoured housing, die formed oode gauge, prime cold rolled steel. Die embossed housing has full length die formed stiffeners for added strength, Deep "V" ballast/wireway cover easily removed without tools. Die formed captive lampholder Pracket fully encloses lampholder wiring permitting easy lampholder replacement. However enciplates are encurally attached with Interlocking tabs and screws. Four auxiliary fixtam end suspension points provided. KOs for continuous row wiring. Engliates have integral Grid-Lock feature for safety and convenience.

B. · Electrical*

Ballasts are CBMARTL Class "F" and are positively secured by mounting boits, Pressure lock tamoholiders, Ut /CUL fisted. "*

C -- Finish

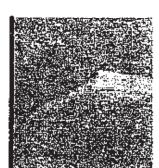
Multistage, fron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white share! (mish.)

D...Hinging/Latching

Positive cam action spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and tarching either side.

E. Frame/Shielding

Die lormed, heavy gauge, flat steel door with reinforced mitered comers and baked white ename! finish. Positive light seals. Light stabilized 100% virgin acrylic prismatte shielding. Standard #12 pottern. Optional shielding evallable.



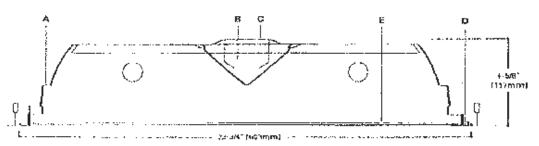
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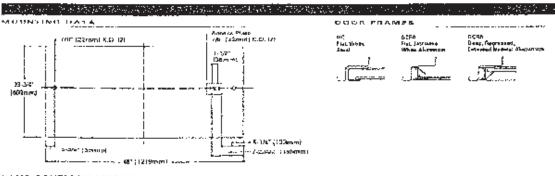
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4

2' X 4' TROF! 2 DR 4 LAN

Specification Deep Tro





LAMP CONFIGURATIONS



CEILING COMPATIBILITY

a GridAay∽n	G Constantiand T	G Stej Grad	F Flange Trim	MZ Modular Brien	Ceiling Type	Trim Type
Standard			With Supporting Swing Gates	With Supporting Swang Cates	Fapoleona Gentl Consequent S	G G
1	1	/			Stot Grid Mange	G 2

E N L 150 Y 10 A 5 A Imput Walts: EB Ballast & 5 TO Lemon 240 1721 292 (54) 440 (144) 432 1720

ES Balipat & STO Lamps 240 (86) 297 (21) 440 (277)

440 (172) 432 (142)

Luminaire Efficacy Rating LER = FL-66 Catalog Number 200-232A

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH a \$3.84

"Reference the Tempological data on the Technical Regiser for appealing tempologic requirements.

+*Consuk Pre Sibrs Jestinical System



2GC-232A Electronic Ballası F3218/25K Lambs 2800 Lumens

Spaning criteriem: (li) 1.3 x mounting height. (Lit 1.4 x mounting height Efficiency 79,4% Test Repart:

2GC232A,IES LER = FL-56

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWN n \$3.64

Coefficients of Utilization

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	74	67	61	56	72	50	-10	56	 53	55	55	ŭ†	57	54	55	50	53	-52
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10	42	27	25	21	.11	23	25	71	 72	Zi	27	ಪು	24	21	29	24	21	18

Zonal Lumpe Summary

Zone	Lumens	Seizerege	Whitepore
0.30	1329	75,5	29,5
n-40	2263	39.0	40.6
0,80	3742	56,8	84,1
0.30	1441	29,4	100.0
U-196	4447	79.1	10000

Typical VEP Purcentages

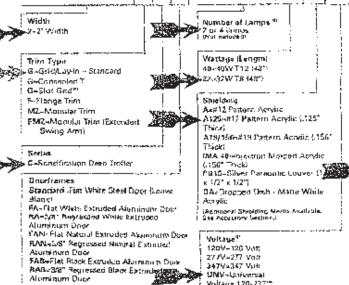
	Heigh	a Along	Hanght	Agrees	
Snom Size (Ft.)	H-5*	50.01	8.5"	10.01	
75 × 25	/2	J.	69	73	
30 x 00	98	70	65	(19	-
วย √ คถ	59.	<u>61</u>	57	60	
60 ≠ 30	70	7.1	GĐ	71	
60 x 60	92	54	58	61	

<u>Candela</u>

Arragia	Along II	45*	Aprox 6.
<u> </u>	1666	1/558	1650
5	7647	1655	1663
10	1627	1844	1860
15	1595	1673	1648
20	1545	1500	1638
25	1487	1546	1604
30	1490	1486	1957
35	1799	1405	1497
411	1171	1294	17/965
45	1012	1138	1245
50	835	954	1031
53	667	264	799
6Q	520	579	. 597
36	2013	412	478
70	261	7029	299
75	190	173,	222
90	126	178	1#5
වර .	-56	27,	94
90	9		2

ORDERING INFORMATION

SAMPLE NUMBER: 200-2324-1207-8081-0



LEDCA-Tal Magnistic Energy Saving LEX-712 Magnetic Erengy Severg 5101 - 18 Geograpio Programa Reput 1001 Fermanic Ostonico < 10% No. of Ballas: 1,2 or 3

Sallast Type III.

FNo. of Pallow

No. of Sallast

1 pr 2

A12Soft17 Pattern Acrylic (125*

IMA 48-vojekarph Moscert Acrylic (#56° Track) — •

SAs Dropped Sesh - Matter While

(Actinory) Shiplding Media Available. See Actuatory (action,)

120V-120 Vos 27 /V#277 Vott 347V±347 Villi UNV-Universal Voltage 120-277**

Cottons GL -Single Element Fuse G74 - Double Elament Fuse Lampan (amps leasya) less Shea-Skey languilled

Emergancy eFM installed

59A_=78 Electronic Instant Start, Total Har/novic _____ Sistertion < 20% ESA_JPLUS - TB Electronic Instatt! Start, High Select Factor (AUS, Total), Hamiltonia No. of Distortion 4 20% Hallast 16581, 18 ekononie Instant Start, Toker Flammond | Distortion < 10% No. of Ballaci SEC., -712 Electronic Books Start.

DLS-Digital Lighting System Dunning

NDTES: ¹⁰ An CO God City is represented for all 5:167 ceiling divident, ⁵⁸Swotter of otherwise waters open animoses on Clause Invites. ¹⁶Product, was appliable at Acon CS voltages and transmisses in interestinguise materia. ¹⁶For available water specifying employensies, waters. Place the specific.

Options

Enterisation.

RIPToHadio

Smiths for ense

Suggestation

PAF-Palmen Atter

FFI-Sunable for Fire

200A/REP. 70 Gauge Riveten Ematelotas, For use in New York City. 6CMT-BAR Safety Santaquase Clops™

MEP-Mindfled from Plans' For Engineering (See Asterney Section) HLS-Rotter-Lock Socket

(Spie Agreeus & and epoching)

Sauel Applications

(TB Lamps Only)

Plackaging

UniOnit Pack

gard of combine

Pack in concer

PALC: Job

PAS-4006 Pade

End complete proclad man, reference the Enterpower Scientification Stript, Angelfactions & dimension, sanject to change without notice. Consideration Company in presentables for evaluability and utdategy advantation

SHIPPING INFORMATION

Çarnioç Ne.	VVt.	
200 222A	79 ths.	
2GC-422A	37 lbs.	

OFSCRIPTION

The GC Series features a normal 4-1/2" dood para-contoured frature housing, right reflectivity and optimum tente to less spacing. The series produces total uniformity of light in the luminous area and is compatible with all of today's popular ceiling systems and is evaluable with a number of options and accessories for application versatility.

APPLICATION

The specification luminate is designed to offer maximum efficiency and performance for squay's unique interior specifications. The GC Series is an excellent choice for commercial office speaks, schools, hospitals or rotal merchancising attass.

Carriog # 125-UNV-13335-	урье	
Proven GM-TEBST-RIFT	12	İ
Comming Hopewell School	- MO	į
t Fraparec by	Date	— <u>!</u>

SPECIFICATION FEATURES

A ... Construction

Nominal 4-3/21 deep, para-contoured housing, die formed code gauge, prime cold rolled steel. Die embassed housing has full length die formod stiffeners for added strongth. Deep "V" ballastWireway cover easily recrieved without tools. Die formed captive (ampholder bracket fully encloses tempholder. wiring permitting easy tampholder. replacement, lieuvy endplates are securely stached with interlacking tabs and strows. Four auxiliary fixturn and suspension points provided. KOs for continuous row wiring, Engiplates have integral Grid-Lock. feature for safety and convenience.

B--- Electrical*

Ballasta are CBM/ETL Class "P" and are positively socured by mounting bolts. Pleasure lock tampoolders. UC/CUI, listed."*

C...Finish

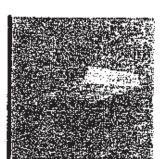
Multistage, from physiphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white ensurel finish.

D.-Hinging/Latching

Positive con action spring loaded steel latches with baked white enamel finish, Safety-look T-tringes allow hinging and latching either side.

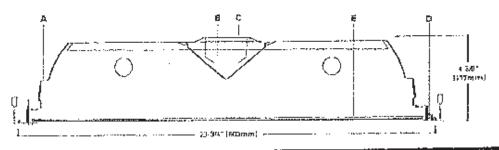
E-Frame/Shielding

Die formod, heavy gauge, fist steel duor with remforced mitered corners and based white anamal finish. Positive light seals. Ught stabilized 100% virgen acrylic prismatic shielding. Standard #12 partern. Optional standard available.



2' X 4' TROFFER 2 OR 4 LAMPS

Specification Deep Trofter



MOUNTING DATA DOOR FRAMES Access Place 185 (2)mm| K 0 (2) 1.1/27 193 (27)mm| K 0 (2) 1.1/27 193 (27)mm| Sized Wash Althouse Struck Returned Algorithms Sized Wash Althouse Struck Returned Algorithms Sized Wash Althouse Struck Returned Algorithms Struck Returned Algorithms Sized Wash Althouse Struck Returned Algorithms Sized Wash Althouse Struck Returned Algorithms Sized Wash Althouse Sized

CEILING COMPATIBILITY F MZ Ceiting G 6 6 F MZ Ceiting G-addbyin Concertor Skit Grid Shappe Bring Matheba Bring Type**

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Sunga Trim With Supporting Swing Gares



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Type* 2ybb
Fubbled Gue
Gueched Cue
Gueched G
San Grid
G
San Grid
G
Funge
F
Contended By86er
M2
Maisi Cen
M2

ENERGY DATA

Input Winter E8 Ballact & STD Camps 240 (72) 200 (61) 440 (144) 436 (170)

ES Ballesa & STO Lumps 240 (86) 232 (71) 440 (177) 452 (142)

Summaire Efficacy Rating SER's FL-66 Catalog Number, 260-239A

Yearly Cost of 2000 Names I. 2009 hts at .08 KV/H = \$3.64

ritationerice the identificial (SAM in 11's Technical Section for appeals, tempolabilistic tempolabilistics)

**Coesub five Sales Technics! Scoperi



COOPER LIGHTING - SURE-LITES

DESCRIPTION

in the event of AC power failure, the Sure-Lites FBP Emergency Buttery Park automatically switches to emergency mode, it milintains (humination of one or two lamps for a minimum of 90 minutes. Of listed for field retrofit installation and conforms to UE 574.

SPECIFICATION PEATURES

Dasi Voltage input 120/277 VAC. 50Hz

Universal Voltage Imput 120-277 VAC, 50/60Hz [FBP240FU]

Social state Charger

Divisional/Short Circuit Protection:

test Switch/Power Indicator Light

Battery

Scaled Nickei Cagmium

Maintenasce-free, Long Cite

Full Rushlange Yiron, 24 hours Imax.)

Code Compliance

UL 924 Listed

Catalog

Ui, Ckied for Retroff/Field Installetion

Life Safety NFPA 101

NEC/OSBA

Most State and Local Codes

Ουρουρο Αροτονορί

Features

Provides a minimum of 90 minutes. of embagenor sluppination

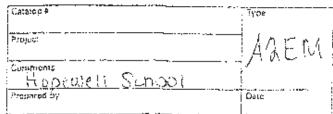
Can be installed inside or on top of Sxture

Cow Prattie Rossing (PBP4540,P)

Sasy-so-follow instructions make mistalistica quies and simple

May be used with switched at unswitched fotures

Number of Lamps Operated



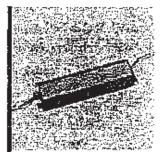
Bell-Diagnostics (FB!??40H\$D)

One large operation (FBP240D. PERMADX, FBP240U, FBP450UP); One or two tame approprian (РВР240М, #89240М, ЯВР240С. KBP240HU, 759240HSDI

Compatible wito many different urmo sypes-consult ordering inforrigation below or consult your Сорое: Одина; Вергеянаснійня reparating appealing applications.

Comparints with many pallost topes including standard, rapid story climinas, instant pract, emergy saving, dimming, and electronic AC ballasis-consolt your Cooper Ligating Representative regarding apecitic applications

140



*FBP SERIES

FLUCASSCENT EMERGENCY BATTERY PACK Emergency Lighting

ORDERING INFORMATION

lea .	Lamp Type	in Eurospency Mode	Initial Cilinalia
F9/140X	20W-40W, 2'-α', Ye-152 U-shap-c, circlelion,	Cos	350-450
	20, enurgy soving, rapid start (4-da, 2011)		
~	- kong spungaet fluoréspéni - Sangas et ett jarren sammer fluorit de la la la la la la la la la la la la la	Tone	esc.760
PRESENT	TOWNSTOWN TO THE TOTAL VHOLVESIANCE	Dule	***
	circleline, ZD, gnergy saving, redid \$1810		
Per Salat	14 pin, 2G11) kong pamgaot [woyasoen! "1) W-2(5W, 215, 48,110 BO, VHO, stahope≤.	One 2000 \$6 31 9W \$21-29	- 100 700 TO
1-01-5-010	growthin, 20, scenge gaving, ruger stors	One-20W to 29W long compact flagrasons	
	(A see, 2G11) king compati fauruseen.	Orgenor Toyon-2999 to 4099 (Y)-€".	
F8/97/09 1	7.7W-71EW, 2-9', 18-737 HC, VHC, U-straped,	One of Two 1777 to 2497	109-1400
	displating, energy saving, sapor start (4-pin,	Only of Ywa - 32W to 40W (2-4?)	(700-100) for long
	2G11 or G24g1 tonji compact flussessorii	One - 40/V to 215W (51-91)	spropage flaguescent)
	-444	Own or Yes 18W to 29W	
		iong compact Nuoresceni	
		One or Two - 38W to 32W	
		# frim compact Rubics (CBC)	1174066-400
855 240HS) प्रिक्तिक के कि के कि कि कि कि कि कि कि कि कि कि कि कि कि	One or two 17W to 40W (7141)	
	čačielnie, energy saveny, raprii start (4-air).	One-4047 to 219W (518")	(200-1000 for lamp compact fluorisacents
	2G11, G24q, or GX24q! twin, quad ann triole	Drv4 or 5we-1997 to 3997 Spry	COUNTRACT MANAGEMENTS
	rwin-tube og ingazit	Sumpact Suprescent	
		One 40W to 55W tong	
		compact fluorescent Dee or Fwo-16W to 42W 4 July	
		congressed floorescent	
***************************************	Commence of the commence of th	Dne pr 7wo-37W to 40W (27-41)	- Y100-1480
-3-5704119	"17W-215V/ 2" E, 28 112 HC, VHC, U-shabed	One-40V/ to 215VV (\$180)	(700-1000 for Jone
	ordeline, energy saving, caud aftir 14-ths. 2015, 624c, or 6X24g) bent, quad and trible.	Orni or Ywo 16W to 35W 1040	compact fluoreerance)
	twin tube compacts	соптраст билогекания	
	term date company	Cave-4GVV to 56VV long	
		sompact (in the expect)	
		One or Two-18W to 42W 4 pm	
		compact fluorescurit	
*F3012400	GW-28W tubular without integral slesses.	Cop of Two 6W to 2999 laterilla	7772-7515
	13VV-42W 4 min twin, numer, no tombe control to be	Que or Two 13W to 35W ye	
	compact backgecent willborn belonal statters	One 42W 4-bird pornished fluorescent	
1557240D	18W 25W initial tobe work integral starter in	One-18W to 26W compact fluorescent	30C-65D
	Iwo pin base		
5587389D	(7W 2t5W), 258, 748-T12 NO, VHO.	One of 'Swo 12W to 40W (21-41)	1456-3500
7 60 331311	Dispaped direigiline, general saving and	GAC-40VV sp 215W (5'-8')	
	14-min, 2G11, G24g, or (\$X24g) twin.	Che of Two 1899 to 3999 lone	
	quad also triple twin-lube compacts	competi នៃ prescues	
		One-40W to SSW long	
		epimpaci lidorescont	
		Ope or Twe-18W to 42W 4-pm	

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	Input
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Medal No	323V
FRYNADX	4.500
FRP240U	8.3W1
FILYTAOM	9,570
FBP2401)	5.8W
FBP260HSD	4.(AV
FBP240IRI	8.00V
SRF260C	\$.300
FB9240D	2.640
FBP3500	W0 2
FRP450I,P	1.5W

ORDERING INFORMATION

SAMPLE NUMBER: FOR 140X

F824S012 37W, 41 178

Sue thart shows | Accessories

(Order asparately)

*FBP240CL 557740D and FBP2500 are only models with control



ZGC-332A Electronia Ballesh E3219/35K Lamps 2800 Earners

Spacing criterion: iff) 1.2 x mounting height, (2) 1.3 x mounting height Efficiency 77.2% Test Report:

2GC332A3ES USR = FL-67

Yearfy Cost of 1000 lumens, 3000 hrs at 108 KWH = \$3.58

Conflicients of Utilization

	Eff	eEÀ	<u>a 110</u>	07 634	dry so:	lec.	ance.			1%									
re		EX	115			. 7	94			50%	-		_	30%			10%		3%
rv/	70	50	36	10		50	30	10	90	76	10	ş	ą	30	10	30	20	10	D.
MER																			
	<u> </u>	7 9:	92	92	90	50	50	93	Rá	88	#6		2	R2	87	7'9	79	78	77
1	. 8!	B2	70	76	82	B/1	27	75	- 77	75	73	7	4	72	76	71	70	68	-67
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5	5	- 53	46	41	80	51	45	40	- 4P	4.4	411		ē	12	46	47	17	10	3.9
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	51	42	26	- 31	\$1	17	74	Jan.	- 4C	36	31	. i	5	34	30	36	24	30	29
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10	4.	33	- 25	- 71	12	30	25	2	:81	34.	<u> 7</u> 0	2:	o T	24	70	28	24	20	19

Zonal Lumon Summary

Zone	Lumans	%Lamp	%Freque
0-00	1975	23.5	30,5
0.40	3258	\$8.5	5423
0-60	5404	85,7	84,3
0-90	6482	77.2	100.0
0-180	G48Z	177.2	TĎO.E

Typical VCP Percentages

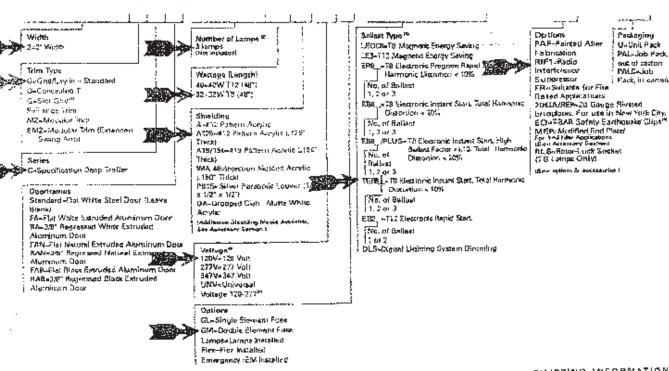
	Heigh	rt Alleng	Helghi	ಗಿದ್ದರ್ಶಕ
Room Size (Ft.)	fL\$"	10.01	£.\$*	tp.b"
20 a 20	64	UB.	92	ķδ
36 x 30	(50	52	\$7	60
30 × 80	53	73	4H	Š1 .
63 × 30	62	Мä	61	64
50 x 60	<u>83</u>	58	50	52

Çandala

Attegle	Along II	45*	Atronal
3	2478	2478	7476
5	Z458	2473	2681
10	2429	2456	2478
15	2379	2425	2402
7:a	2305	2374	2+26
25	2200	2300	2383
36	2087	2127	7272
3 <u>5</u>	1935	2060	2145
40	17.42	1074	195a
4E	35/04	1827	1717
80	1238	1052	: 422
55	984	1091	1147
80	705	AJ6	861
<u>感</u>	579	590	810
76	409	386	497
75	278	252	317
80	183	160	206
95	96	111	134
90	3		

ORDERING INFORMATION

SAMPLE NUMBER: 200,3924-120V-6861-0



NOTES "An SC Grid Gib is recommended on as 8/101 galing systems, "Quadrate officents: ballass comparament or District fishers, "Prostume that are non-did volkopes and frequencial for integrations" metaps. "Note satisfice which statisfied programmes wellage over the specific

For agreeing product data value and the finite work Speeding point and all Speeding to the Supering Speeding to the Speeding Spee

SHIPPING	≱M F.Q	RMATION
Catalog No.		
1072 2054		33 lbs.



2GC-3S2A Siectronic Ballest F32T8/3SK Lamps 2800 Lumens

Spacing criterion: (8) 1.2 x mounting beight, (3) 1.3 x mounting beight 8fficiency 77.2%

Test Report 2GC322AJES

L⊈R ≃ FL-67

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH ~ \$3.58

Coefficients of Utilization

	Effortive floor rawley softenance									¢									
re		500	%			?	ייט.			5	ō4			20 5	4		19%		3%
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hon																			
0	: ::::::::::::::::::::::::::::::::::::	Bģ	93	92	90	39	20	53	81	ş J	P¢.	:16	52	82	R0	79	79	79	77
1	85	82	72	76	23	20	77	76	';	7	75	73	24	72	78	7:	70	57	ēγ
2	78	7,3	\$6	64	76	7-	67	25	FI	4 (īĘ.	42	96	03	ii-1	(44	31	59	<u> </u>
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4	47	5k	52	47	Ct	54	51	47	53	3	50	46	56	49	46	87	4F	45	‡±
, Ş	51	42	45	41	50	\$1	42	40	48		i i	40	431	43	40	47	47	30	23
6	56	47	_40	. 36	35	Įñ.	4fi	25	T(35	48	38	26	42	38	34	33
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	48	20	.21	. 12	- 57	M	3.	77	3:		15	27	35	30	27	34	30	26	25
	46	34	28	27	42	32	27	Z.:	33	1	Ž.	23	32	27	73	31	215	73	1000
10	41	ψŋ.	25	24	τĽ	342	25	25	.115	1 3	24	2%	29	24	20	78	24	20	- 9

Zonal Lumen Summary

Znnr	Lumens	Stamo	Parisonne.
0.30	1978	23.5	90,5
0.43	3258	38.8	50.3
0-60	5465	65.1	84.3
0-90	6482	27,2	100,0
0.180	6+82	77.2	189.0

Typical VCP Percentages

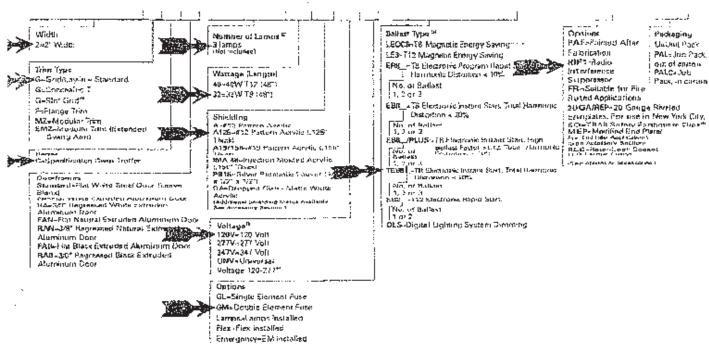
	History	t Ahang	Height Acres			
Room Size (Ft.)	8.51	16.61	8.5*	10.0"	_	
25 x 26	64	내	űZ	äti	_	
30 x 30	60	62	57	₩Q		
30 x G0	53	55	- 48	51		
98 × 20	62	55	6 1	34		
60 x 80	(3	5-7	50	52		

Cendela

411.961	Afring il	45*	Agross),
2	7476	2475	24.76
<u> </u>	2453	24/3	2481
240	7429	2+56	2476
15	2370	2425	2463
20	2306	2374	2426
25	2709	2380	2312
<u>3:1</u>	2087	2:97	2272
38	1935	2060	2145
40	1743	1874	1958
<u>45</u>	1504	1627	:717
<u>80</u>	122#	1352	1442
85	984	1001	33.47
50	765	826	807
弱	573	590	610
79	409	386	477
75	278	257	317
20	183	183	230
85	96	171	134
90		1	9

ORDERING INFORMATION

SAMPLE NUMBER: 266-332A-128V-6831-0



NOTES: ^{(III}AA ES Qued Clip is recummented for all \$100 calling systems, ^{(III}Specially officerum ballact compariment on 1-13mg features, ^{(III}Mediscal over year typiq to non-US polityts and requestives for altomatical musicis. ^{(III}Vet available water assetting experiences, vertact court for feature.)

For administrative promise man, leferance die Flagmenten Scientischich abundt Spechepagne & demensione guignen is change mehade honre. Centum year Lagger Fighting Hapmanachulink für debritschip and dechang intermeten.

SHIPPING INF	NOTTAME
Catalog No.	
5GC 202A	3) lbs.

the GC Series features a nominal 4-1/21 deep para-contoured feature. bousing, high reflectivity and optionus lamp to lone spacing. The sense produces total uniformity of light is: the luminous area and is: compatible with all of today's nopular cailing systems and is available with a number of options and accessories for application versatility,

APPLICATION.

The specification lossification is designed to offer maximum efficiency any performance for today's unique interior apociacations. The GC Series is an excellent choice for commercial office spaces, schools, nespitals or retail murchandising areas.

Carelog # 3GC -383 A 125-720 V - L8835	Туре
Project GM-EL- FBP240H-TEBST	- R(F) .
Hopewell School	- AZEM
Prenored by	Date

SPECIFICATION FEATURES

A - Constanction

Nominal 4-1/2" dose, para-contoured musing, the formed code gauge. prime sold rolled step!. Die embossed housing has full (angle die formud stiffeners for added strength, Deep "V" ballast/wireway cover easily removed without tools. Die formed captive Immpholder bracket fully encloses tampholder. wring permitting easy lampholder replacement. Figavy endplaces are securely attached with interlocking tabs and screws. Four auxiliary fixture and suspension points providea. KOs for continuous row wiring. Enopiates have integral Grid-Look feature for safety and convenience.

B... Electrical'

Baltasts are CRIMETE Class "P" and are positively secured by mounting polic. Prescute look tampholders, OL/CUL listed. Suitable for damp locations.**

C -- Finlsb

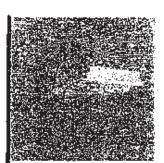
Multistage, iron phosphate pretreatment onsures maximum bonding and rust inhibitor. Lighting grade, baked white enamol finish.

D. Hinging/Latching

Positive cain action spring loaded steel latches with baked white enamel finish. Safety-Lock Thinges allow binging and latching either side.

8...Frame/Shieldlog

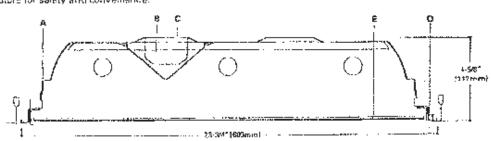
Die formed, heavy gauge, flatsteel page with reinforced mitored corners and baked White enamel finish, Positive light seals. Light stabilized 100% virgin acrylic pristuatio shielding, Standard #12 pattern. Optional shielding ovailable.



2GC340 332

X 4' TROFFER 3 LAMPS

Specification Deep Troffer



MOUNTING DATA era es Plate 1 1/21 Baiml 5, 566" [133-665] - 7-73/32*21965nm1 Dialy of 195 minutes LAMP CONFIGURATIONS Artifoliani,

129 mark (179 mile)

- 03-3141 (600m/m)

CEILING COMPATIBILITY Calling flange Trim Grigo, Service San Grid Mootlar Trim Type" Туре Carrieralist (With Selementing With Supporting Swing Galas Swing Gasus Des Gre Penge Carcinsted Petal Pan

ENERGY DATA

Impur Wests: CD Material & S1D Letrops 346 (110) 332 (91)

ES Baltost & STD Lamps 340 (126) 332 (108)

Luminaire Efficacy Resing LER = FL-67 Catalog Number: 2GC-332A

Yearly Cost of 1000 lumens. 88.52 × NVW 88, to tra 0000

"Bletarence the temporable of date in the Takenages Septimen by preselled temporables

" Consult 9Vs Safet Technologi Surgers



PHOTOMETRICS.



2GC-232A €[ectronic Saliast F32T8/35K Lamps 2800 Lumens

Spaging criterion: (B) 5.2 x mounting beight, t...) 1.3 x Incusting height Efficiency 77.2%

Test Report: 2GC322AJES

LER = FU-67

Yearly Cost of 1009 lumens, 3000 hrs at .08 KWH - \$3.58

Coefficients of Utilization

Effective tipes cavely reflectance 20%																		
15		_ B	1%			7	e			50*			107	Ç		10%		0%
OM:	70	50	30	מר	76	50	30	142	50	30	16	50	30	10_	50	36	10	9
8028													:					
à	92	92	2 22	92	90	90	90	90	96	ßΒ	86	82	82	57	.16	78	79	77
1	95	92	75	78	73	96	77	35	7.7	75	70	74	72	76	71	74)	SF	- 07
2	76	73	: 63	\$4	76	75	97	33	50	6±	8.2	196	67	67	ñ4	θĻ	58	ýn.
	70	GE	5 5 5	55	70	64	98	·#4	98	57	34	6 0	46	53	58	55	52	50
4	57	-54	52	47	. 65	67	91	47	35	50	46	54	45	dfi	52	49	.45	ÁŁ
5	\$1	37	45	41	90	Ąί	Tr.	172	45	44	¢ή	4 1:	43	40	47	42	54	38
- 5	å ë	40	- 40	36	58	46	40	3h	45	19	35	63	38	35	42	39	34	35
7	56	45	.36	31	51	41	25	21	40	35	31	38	34	30	3B	34	30	25
ь.	49	28	31	97	47	27	3.7	25	De.	33	27	25	36	20	3.4	30	26	23
5	- 22	3:	- 26	23	43	33	27	23	32	7.7	75	33	30	23	Э1	26	23	====
141	41	31	25	21	40	36	25	25	30	24	26	29	24	261	28	24	20	19

Zonal Lumen Summary

Zause	Limiters	%Lamp	%Fiature
9-36	19.16	23.5	30.5
0-40	3258	36.8	56.3
9-60	5446	65.1	64.3
0-90	6422	77,2	100.6
0.180	0492	77.7	109.0

Typical VCP Percentages

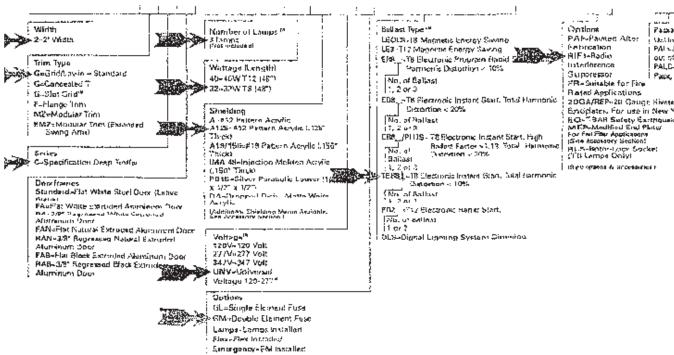
	Heigh	gaslA r	Height	AGGGER	
Roum Sice (Ft.)	9.51	10.01	6.57	10.01	
20 x 20	54	68	62	96	
36 x 30	60	62	57	50	
30 x 60	5.3	55	4.8	5:	
50 × 30	B2	īFā	61	¥1	
60 x 60	ÇЗ	5B	54	32	

Candela

Angla	Along B	45*	All our
9	3476	2376	1476
<u> </u>	2455	2473	2481
10	7429	2456	2478
15	2375	7425	7483
ND.	PERF	7374	2426
254	2249	2300	दत्रद्वा
30	2087	2 (97	227.0
35	1935	2063	2145
40	1743	1874	1998
45	1504	1617	1717
Sa	1206	1352	442
55	984	1081	1147
50	755	376	361
6 <u>C</u>	573	∌3 ∏	410
7%	409	Jåñ	427
75.	278	25-2	317
30	188	163	126
35	96	1'1	134
90		G	

ORDERING INFORMATION

SAMPLE NUMBER: 250-332A-120V-2881-D



NOTES: "An FO fair. Claim recommended for all 978" cading systems: "Summers offernier balast comparation of claims beging, "Promote a executive to available to one 115 millions and his decrease to incombined markets." Mysterialise when combining many many, conde mornes appoint

for cumplete product data, refrequently the strength of specification arrived, against before a formal manual party strength within a national section and section and section and section and section and section are sections. Chapter 1 got no Backweenfalow for evaluatively and orthoring infloridations.

Passaging. **UcClinit** Pace PALAJOB Pack. out of careen PALC-Just Paisc in carton 20GA/REP-20 Gauge Sivered 2DGAPREN MI GRUGE HIMSET ENOGREEN Für und in New York City. E.Q.-TBAR Safety Barthquaise Clipe M In Ext. Medified End Philip For Fill Time Applications [Side Asserted Sections] R.L.S.-Rotton-Lore Sections (TIL Lempe Only) ів усториений исполький в

SHIPPING INFORMATION

Cartalug No		
2CC 232A	21 %s.	

The GC Series teatures a normal 4-W?" deep bara-contoured fixture bossing, ingh reflectivity and optimum limit to lens spacing. The series produces total uniformity of light withe luminous area and is compatible with all of today's popular deiling systems and is available with a number of options and accessories for application versatifity.

APPLICATION

The specification luminate is designed to offer maximum efficiency and performance for today's redoce intends specifications. The GC Sense is an excellent anotee for commercial office speces, schools, trespeads or retail merchandising areas.

260-280 4705-116 V-18825-	Түре
2GC-332 4135-UNY-18935-	- 1 n
Commercis	_ / 1 / \
Hopewell School	
Prunared by	Cate

EPACIFICATION FEATURES

A Construction

Nominal 4-W2" deep, para-contoured housing, die formed orde gauge, prime cold rolled steal. Die embossed housing has full length die formed süffeners for added strength, Doop "V" bullast wireway cover casily removed without tools. Die formed captive lampholder bracket fully encloses jampholder. wiring permitting easy lampaolder roplatement, ripavy endolates are pecurely attached with interloaking tabs and screws. Four auxiliary fixture end suspension points provided. KOs for continuous row wiring. Endplates flave integral Grid-Lock feature for safety and convenience.

B. Clastrica!"

Ballasts are CBM/ETL Class "7" and are positively secured by mounting bolts, Pressure lock lampholders, UUCIII, listed. Suitable for damp locations,**

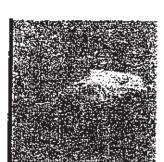
G... Finish

Medistage, iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white ename! finish.

D.-Himping/Laterting Positive cam scribe spring loaded steel latches with baked

white enamel finish, Safety-Lock T-lunges allow hinging and latching either side. E---Frame/Shielding Die formed, heavy gauge, flat

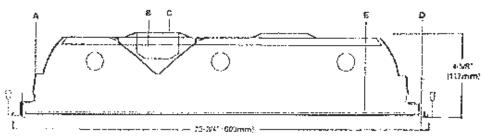
Emerame/Shiplding
Die formeri, heavy gauge, flat
steel door with reinforce
mitered comers and baked
white enamel finish, Positive
light saata, Light stabilized
100% virgin acrylic prismatic
shielding, Standard #12 pattern,
Optional shielding available.



2GC340 332

2' X 4' TROFFER 3 LAMPS

Specification Deep Troffer



MOUNTING DATA DOOR FRAMES Active Place For Transmiss. D. (2) For Transmiss. D. (3) For Transmiss. D. (4) For Transmiss. D. (5) For Transmiss. D. (6) For Transmiss. D. (7) For Transmiss. D. (8) For Transmiss. D. (9) For Transmiss. D. (1) For

176mmi [120mm]

CEILING COMPATIBILITY

G Gridotayum Consealeri 7 Sler Grid Flampa Tr Standard Small

Flange Frim Modular Trans With Supporting With Support Swing Gates Swing Gates

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ENERGY DATA

Injust Worts: ER Bolinst & STO Lemps evo (vin) 332 (91)

FS Ballact N STO I rented 340 (136) 332 (169)

Luminaire Efficacy Reting LER v FL-67 Catalog Number: 250-302A

Young Cost of 1990 jumens, 2000 hrs et .08 KWH - \$3.56

ிறந்தைகுத் இது வசுற்றவர்கள் பிக்க செயிர்க Technopi Sarction for வுண்டிப் பெசுதர்களே! நேருக்குகள்

**Consult Pre Salya Sociemed bigation?

ADF020017



CFL hordanned? COOPER LIGHTING - SURE-

DESCRIPTION

in the great of AC power (allors, that State-Littles FBP Simergency Battery Pack automotically systems to emergency mode, it maintains illemination of one or two lamps for a minimum of 90 minutes. Ut listed for field retrofit instaletion and conforms to UL 924.

SPECIFICATION FRATURES.

Deal Voltage input 128/227 VAC.

Universal Voltage โดยจะ 120-577 VAC, 50/6050 (PBP740HU)

Solid-state Charges

Overload/Short Circuit Protection

Test Switch/Power Indicator Light

3.cttery

Sealed Nicker Codmium

Maintenance-free, Long ⊆fc.

Full Recharge Time, 24 hours

Code Compliance

UL 924 Listed

Prepared by UL Listed for Retrokt/Field Installa-

Life Safety NRPA 101

NEC/OSHA

Most State and Local Cudes

Chicago Approved

Features

Provides a minimum of 90 minutes ot emergenay illimination.

Can be installed inside or action of

Low Profile Housing (FBP450LF)

Basy-to-follow instructions make installution quick and simple

May be used with switched or unswitched fixtures

, Cataron à Project <u> 1-10,26 t</u> Countrities

Self-Diagnestics (F8P240HSD)

One tamp operation (#SP240C) F8P140X, F8P240Q, F8P450(,9); One or two lamp operation (FBP248M, FBP240H, FBP240C, раграфац, загочонафі

Compatible with many didurent temp types-consult ordering intomation below or consult your Cooper Lighting Representative regarding apecific applications

Compatible with many baltast. types including standard, capid start, slimline, instant start, energy saving, direming, and electrocic AC ballasts-consult your Cooper Lighting Representative regarding. encites/logs officegs



*FBP SERIES

FLUORESCENT EMERGENCY BATTERY PACK Emergency Lighting

ORDERING INFORMATION

Catalog No.	Lamp Type	Number of Lumps Operated in Emergency Mode	Initial Lumens
F S≏ 74DX	29W-40W, 21-41. Te-712 Uishabed, cardisline. 2D, energy seving, rapid start [4 year, 2G13] iong corayant flancespon.	Dria	356-456
LBb2400	17W-215W, 7-6, 13 112 HD, WHD, U-shaped, singleline, ZD, shergy saving, rapid start	Oie	602-700
P212/2008	(45pm, 2011) fong compact fluorecount TWESTEW, 708, 1811-2110, VHO, Ushaned, circlotine, 20, energy savage, mold start, 14 Ma, 2011) fong compact fluorecomb	One-28W to 23SW (2*8°) Day-28W to 33W long compact fluoressens One or large-28W to 69W (2*4°)	605-700
#8F <u>7</u> 45.8****	17W215N, 7-U 13-112 HC, VHC, Cohesec, crolebne, energy caving, cability control (450c, 2611 or 524q) lung compact fluorespen)	One or Two - 129/ to 24W One or Two - 32W to 40W (21-41) One or Two - 32W to 40W (21-41) One or Two - 32W (3-43) One or Two - 32W (3-33W -44g don/spout host uncort)	ties-tries for long rass lead lockery compact fleorescent
୍ୟାମ୍ୟ ଖି (ଓଠୀ	TYWESTEW, SIGN 18 TEXTIO, VHO, U-shaped, circlong, enalty saving, round start [4-se; 2511, G24g, or GX24g, twint quantished mole twintube compacts.	One or Two 18W to 32W The corporat fluor excurs One or Two 18W to 35W (5-6) One or Two 18W to 35W long compact fluorescent One 40W to 55W Yorg compact fluorescent	1706-1806 732-1860 for long compact theoretically
994Элан(; 1	17W-215W, p16,75-179116, VMO, Usebaneth errolling, energy saving, routed payer 15 pm. 2011, GZeq, or GXZ4ql twon, quasi and goots win-tube compacts.	One or Two-16W to 49W A-right compact Burersepoint Character Two-17W to 45W (0"-4") Character Two-16W to 55W (0"-4") Character Two-16W to 55W burer compact fluorescent Character Two-16W to 55W long compact fluorescent Character Two-16W to 55W long compact fluorescent	1 185 1486 (703 1608 for Joeg compact Russessanti
M-89/2027	6W 26W tubular without in logical stating, 13W-47W-4 pur twin, quale or traple twin-rate distribut fluorescent without manages, transpire	compact Bublisseed Unit or Two-MW to 20M judgian Control Two-MW to 39W or One-JAY 4-pin compact flancescent	3/10 75%
rdsP2#8D	'SW-26W (pvad tabe with langgraf young) in (walcon page	Con-35V to 75V corripact Augrences:	300-650
FB 70500	"TY-715W, 21-9, 1-5-172 NO, VIAD, U Suspind professes, wherpy severing and I4-pps, 2G11, G24q, or GX24of twin, qued and triple livin-table compacts	One or two 1797 to 4997 (2147) GrevADW to 21597 (5147) GrevADW to 21597 (5147) GrevADW to 1599 long compact fluorescent Circ-4097 to 5597 long compact fluorescent Circ-4097 to 5597 long Compact fluorescent Circ-4097 long Circ-4097	1415B-250D
-BP4501M	32W, 61, T8	Compact Reportscoat	πid

GROSSING INFORMATION

SAMPLE NUMBER; CRP140X

	SHA	ARROT	above.	A
٢	100-	-13 - 1 L		

ersening

FBP (Wbig-Wire Bundle Cower for external menus apalitations (2 remaized)

Energy Data

	Inest
Priving .	
Mining No.	1200
FBF140X	4.6W
FBP24DU	6.3W
FDF240M	WE.3
F#P240H	1,8W
PBP240HSD	4.290
FRizanteU	6.500
FRF2400	1.207
FBP240D	3.5W
FIRE 3500	8.0W
FØP4601P	1.536

PHOTOMETRICS

2GC-232A Stoctronic Ballast P32T8/35K Lamps 2800 Lumens

Spacing criterion: (II) 1.3 x mounting height, 125 1.4 x mounting height Efficiency 79.4%

Test Report: 2GC232A.(£\$

CER = FL-66

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.64

Coofficients of Utilization

	Elsective floor cavity reflectance 20%																		
re:		gr.	٦.				7	o#.		—	504	V		305			10%		0#4
	.10	50	30	20	1	- 70	ŞÇ	30	10	56	ac	10	50	30	70	30	30	7.0	П
ROB																			
9_	95	95	22	9	뜨.		97	32	48	58)	þе	29	8s	84	24	37	51	*1	79
1_	\$7	84	4.	` 2	8	, as	87	57	77	79	77	75	76	14	75	73	72	70	施
	31	. 79		9 3	ŧ.	. 75	73	69	65	71	ä7	54	Sli	65	67	86	GII	41	5.9
2,	74	197	J 13		ď.	72	56	50	5-5	53	قو	þs	57	9	54	25	30	32	52
4	58	60	5	3 .:	9	- 57	36	55	48	57	52	48	55	51	.47	33	50	46	16
. 5.	63	53	+7	. 4	Z_	61	57	34	41	, ST	45	47	43	44	40	48	42	¥0	36
fr_	50	48	2.	1, 3	16	55	47	41	36	46	40	36	44	39	35	42	39	35	7.5
7	52	43	31	9 3	Q.	92	42	36	22	- (1	35	31	40	35	31	35	34	25	29
8	4.9	30	32	: 2	7	.46	35	32	27	37	51	27	36	ät	27	a 5	3D	27	29
2	15	35	21	1 2	4	44	34	29	24	7.3	27	23	32	27	23	25	27	15	7.7
10	42	. 43		7	1.	41	J1	25	2;	30	26	21	29	24	21	29	24	25	15

Zenzi Lumen Summory

Zone	Enements	%Comp	%Factors
9-30	1328	23.7	29.9
5.40	2202	39,3	49.5
0.00	3742	8.30	84.5
0,80	4447	70,4	100.5
2 180	4447	3,4	100.0

Typical VCP Percentages

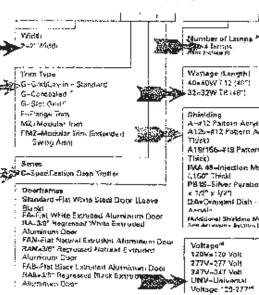
	Heigh	rt Alenn	Height	Across	
Rosen Size (Ft.)	PLS"	10.05	8.5"	10.0"	
30 v 70	72	75	0.9	72	
30 x 30	SA	70	65	98	
30 × 80	67	54	57	80	
60 × 30	76	73	69	. 71	
1.3 ≈ €1	57	5-4	58	<u></u> 51	_

Candale

Along (I	45"	Apragal
1556	1658	1858
5647	1656	1643
1627	7644	1680
1995	1623	1649
T545	1590	1633
1/181	154€	2604
1460	1486	2557
1299	1406	3,203
4177	1294	1395
7013	11,78	1245
585	954	58(31
667		759
570		. 507
393	412.	426
281	248	298
191	:72	221
128	226	365
56	77	3.
u	Щ	g
	1656 1647 1627 1637 1634 1645 1460 1294 177 7013 525 667 570 581 181 181	1656 1656 1647 1556 1647 1556 1627 1644 1536 1550 1481 1546 1400 1486 1299 1466 1771 1298 7013 1128 525 954 667 264 570 529 383 412 281 266 1571 172 1581 173

ORDERING INFORMATION

SAMPLE NUMBER, 180-232A-128V-5881-U



Wartage (Length)

Martage (Length)

Martage (Length)

Martage (Length)

Martage (Length)

Shinlding

A-12 Parton Acrylic (L125*
Thick)

A19/156-Wts Parton Acrylic (L155*
Thick)

IMA 49-injection Majded Acrylic (L156*
Thick)

PB15-Silver Pyrabolic Lenwer (1)

174* (V21*
CANCADAM Dish - Motte White Acrylic (L156*)

MAMAGEORE (Majded Acrylic (L156*)

MAMAGEORE (Majded Majded Acrylic (L156*)

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Options
GLaSingle Element Fues
GMA Double Element Fues
Lampe-Lampe Installed
Flexiflex Installed
Emorphopy EM Installed

NOTES: ¹⁸ An EO (Into Chine incommended for ad biss' Leding: Aprilond. ¹⁸Standard gificanter collect form partners on this my instance. ¹⁸Froducts area precisely for con-LDS velocity and bequery tax in informational quarkey. ¹⁸That available shan booklying amorpaction, softage: 1845; he absolute.

tor complete trocket data. Infraenta the Philaracters Specification blother Edectifications & demonstrate subject In shorter without notice, Cotteell your Cooper Lighting Representative his availability and ordinal Information

SHIPPING INFORMATION

Cotalog No.	Wt.
2QC-232A	25 lbs.
2GC-432A	32 lbs.

The GC Series features a romanal 4-1/2" deep para contoured tixture housing, high reflectivity and optimum lamp to loss spacing. The series produces total uniformity of light in the luminous area are: is compatible with all of today's popular colling systems and is available with a number of options and secessories for application versatility.

APPLICATION

The specification luminaire is designed to offer maximum efficiency and performance for today's unique interior specifications. The GC Series is an excellent choice for commercial office speces, schools, hospitals or retail morehandising areas.

1266-4324725-720V	- L8835 - Tync
Project G M - EL - F BP940 H -	TEB31-R1F-7 // 1 // A/A
Hopewell Scho	ol AIEM
Prepared by	pa ₁₀

SPECIFICATION FEATURES

A ... Construction

Nemingi 4-1/2" deap, para-contoured nausing, die formed code gauge, prime cold rolled steet. Die embessed nousing has full length. die formed stiffenors for anded strength: Doep "V" pullast/wiceway cover easily removed without tools. Die formed captive lampholder bracket fully englosus lampholder. wiring permitting easy lamphoider replacement. Heavy endplaces are angurely attached with interlocking tabs and screws. Four auxiliary fixtime end suspension points provided. KOs for continuous row witing. Endplates bave integral Grid-Lock seature for safety and convenience.

B--Electrical*

Baltests are CBM/ETT. Class "P" and are positively secured by prounting botts. Pressure lock lampholders. ULCUL listed."

G...Finish

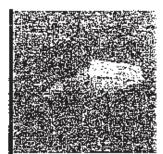
Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

D.-. Hinglay/Latching

Positive care action spring loaded shell lateless with baked white charnel finish. Safety-lock T-hinges allow hinging and latching either side.

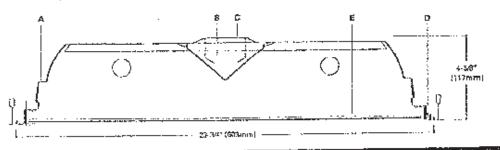
£...Frame/Shielding

Die formed, hoavy gauge, flat steel door with remforced mitered corners and baked white enamel finish. Positive light steels Light stabilized 100% virgin earlie prismatic shielding. Standard #12 pattern. Optional shielding available.



Z' X 4' TROFFER 2 OR 4 LAMPS

Specification Deep Troffee



STANDONTING DATA	Control of the Same of Control	DOOR PRAMES		elike eses
72-34" A) (22-mm) * (2-) (2) (2) (32-34" A) (32-mm) (42-132-mm) (42-132-mm) (42-132-mm)	28*127men × (7) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Fresi (Mi	Connected Break And Advisors Bernalded	P 4884년. 사용 (1475년 - 1414년 1414년)
AMP CONFIGURATIONS		int in the state of the state o		
EILING COMPATIBILITY G IIId/Lansia Concealed T landled	G F Sior Grid Frange Trim With Sobbe Sweng Galle	ating With Supporting	Ceiling Typer / Lowert draf Covertion ? Said Gaix	Toen Type
			Sign Carrier Francis Lordeshad School Mejal Pen	ī

AFAG Y DATA

Input White: ED Dailpod & (FEW 1864)/W 246 1721 292 16 17 440 11445

순요 합시[144 온 F78) (3-4p4 740 (86) 237 (7 %

440 (372) 432 (162)

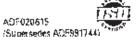
482 (473)

Luminarr Siltaty Sating CER = FL-68 Calalog Number, 2GC-237A

Yearly Cost of 1000 lumons. 3000 has at JB KWH - \$3.54

"Helphangs has lamather and outside the Japanese Sept on John specific lamps had st. Japaning mantic.

"" Drywood fire Sales Technical Suppor



PHOTOMETRICS

2GC-232A Electronic Ballast F32T8/35K Lamps 2800 Lumeris

Spaces; priterion: ill) 1.3 x mounting neight, I±i 1.4 x mounting height Efficiency 79.4%

Test Report. 2GC232AJES

LER - FL-66 Yearly Cost of 1000

tumens, 3000 hm at 108 KWH = \$3.64 Confficients of Utilization

	#Jae:	ctiv	e fla:	on car	ity ref	led:	MICH		2n	74								
r.f.		En		-			0%			489			30 %	·	:	10.5	<u></u>	9%
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809	9%	95	95	95	- 27	97	92	92	- H2	83	38	84	24	84	31	H:	B1	79
	B3		g)		5¢.	70.2	20	77	79	77	75	76	74	72	73	12	70	55
;-	<u> </u>	75			79	73	69	68	71	87	Ľ.	88	6 \$	52_	86	93	£:	50
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— <u>-</u> -	58	_			56	73	G	36	46	45	36	44	22	35	12	39	35	34
J. 151.					52	42	3F	37	- 41	16	31	AC	35	31	34	34	21	25
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- 6				 -			28	24	33	21	23	.12	27	23	32	27	23	22
ie.	42	-			41	31	25	Z:	_ 30	25	2t	29	74	21	29	24	21	:=

Zonat Lumen Summary

Z,hma	Lumeis	7kLagys	%Flature
0-3D	1328	723.7	29,4
0-40	2203	39.3	49.5
0.60	3742	648	84.7
n.sio	4447	79,4	102.9
D-18D	4447	78.4	103.0

Typical VCP Percentages

	Haipmi Almen		renegre	W Oh Oaks	
Reem Size Ift.	8.5	10.0	B.5"	10.0	_
20 x 20	72	75	티	73	
70 × 30	ē8	70	65	바	
30 x 60	62	54	57	67	
60 x 30	70	/3	ra	71	
60 x 60	62	64	ΰÐ	- 65	
. 110					

Candela_

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PAF-Pylrand After

FRASoutytele Jor Fire

Roted Applications 2003AREP-79 (Jalign Riveted

MEP-Accided End Plate/ For See Piler Accidendard (See Accidently Section)

RLS-Rotor-Luck Socket (TS Lamps Only)

phos options & accom-

Endplates, For tree in New York City, E.C. - EBAR Sofety Earthqueke, Diperil

Options

Embriention :

RIF Inflatio

Suppression

اميند Paduging

PALC-Jub

U-Unit Pack

PAL-Job Peck. aut of cerror

Pock, in certain

Angle	Along ii	45"	Across:
9	1458	1856	2856
5	1847	1656	1663
10	1827	5544	7€80
15	1595	1623	7649
20	15.46	1540	16(0)
25	1483	3848	1664
340	1400	1486	>657
15	1295	1405	1493
40	13.71	1294	1395
46	1613	1:理	1245
50	835	954	1931
55	<u>947</u>	254	788
50	520	579	=97
65	35/3	412	428
70	281	269	298
75	ייי. רפו	173	221
80	126	126	186
85	66	73 .	94
90		ō	0

ORDERING INFORMATION

SAMPLE NUMBER: 200:2244-120V-F881-U

Width
Z=2' Width

Trim Type
G=GridA, avin = Standard
G=GridA, avin = Standard
G=Grombailed T
C=Star Grid*
F=Frange Trins
MX shifted from
EMZ-Macdar Title (Extended
Sking Arm)

Soiles
Cathpeditionion Deep Traifer

Doodraines
Stantord-filet White Steel Door II gave
Stantord-filet White Steel Door II gave
Stantord-filet White Steel Door II gave
FA 25° Regressed White Satirities
FA 25° Regressed White Satirities
FAN-JIT Regressed Natural Earlingth
Alterioral Door
FAS-Filet Stock Satisfied Aluminism Door
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FAS-File

Number of Litraps in

Wattaga |Langth| 46:(40%/T12 (48%) 22:(32%/T0 (48%)

Shielding A=#12 Pattern Acrylic A125=#12 Pattern Acrylic (125* Thick)

Thick!
A18/166-979 Pattern Acrello (154T Thick!
BMA 48-injectsoll Morood Acryle
1290 Thick!

PB1S-54vn Peribolic Lower (1972 x 1/2")

A (7/2" x 1/2")

DA Dropped Oath - Malty White

Acrylic Chaddiand Similaing Mach Arelable. See Accessory Septemb

Vultage® 120V-120 Velt 277V=277 Volt 347V-347 Volt UNV-Universal Voltege 120-377™

Options
GL-Single Element Fuce
GL-Single Element Fuse
Lemge-Lemns Installed
Flas-Flox Pritable
Entragancy-Elek Installed

Bulliant Type **
LEOCIS-TB Magnetic Energy Severy
LEO-T17 Magnetic Energy Severy
LEO-T17 Magnetic Energy Severy
END -16 Electoric Programs Report
(discrease Computers < 10%
1 No. of Relikest
13, 2 or 3

826 - Të Flertronis, historit Start, Total Harmondo } Distortion 4, 20% ND, et Bailant

| 1, 2 or 3 Ess_MUIS-T3 Descripting Instant Start, High Nn, of Distortion = 20% | Bollast

11, 2 or 3
TEBU, -TB Electronic Instant Start, Total Narmonk.

Start Special Start Start Start Start Special Start Special Start Special Speci

jit. 7 or 3 CDR₁₁-712 CLaurunio florid Steel. [No. of Bollast

: (1 or 7 - DLS-Digital Lighting System Dimining

NOTES: ¹⁰ An FO Good Ch₀ is propriete ended the side to being systems. ²⁰Scientists office of the best components on the land of the side of the

For unerplace product data, reference with Parevening Semedication behind. Specification is alternative to the control of the product of the product of the control of the product of the control of the product of the control of the product of the product of the control of the product of the control of the product of the

SHIPPING INFORMATION

Catalog No.	Wt
2GC-232A	79 1b¢.
2GC-437A	32 lus.

The GC Series locatures a nominal 4-3/2" ones pass-consoured facture industing, high reflectivity and optimions famo to items spacing. The saries produces take indiformity of light in the luminosts area and is compatible with all of today's popular ceiling systems and is available visit, a number of options and accessories for application versatifity.

APPLICATION

The specification luminaire is designed to offer maximum officiency and performance for topay's imique interior specifications. The SC Series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

Catalog #	· Tyte
260 4828 125-41NV	<u>- L8835~</u>
	' A !
Comments	./) (
Hopewell Sch	<u>က </u>
Prepared by	Date

SPECIFICATION FEATURES

A ... Construction

Nominal 4-9/2" deep, paraktontauzed housing, die farmed code gauge, prime cold rolled steni. Die embossed housing has full length. die formed stiffmers for added strength, Deep "V" halfastAvireway cover casily ramoved without tools. Die formed captive lampholder bracket fully encloses lampholder witing permitting easy lampholder replacement. Heavy endplates are securely attached with interlocking tabs and screws, Four auxiliary fixture and suspension points provid-ಂದ, XOs for continuous row wiring. Endolates have integral Grid-Lock feature for safety and convenience.

B.-. Electrical*

Ballasts are CBM/ERL Class 191 and are positively securatiby repursing botts. Pressure lock lamphokiers, US/CUL listed.**

C -- Pinish

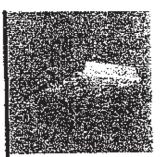
Muhistage, iron phosphate pretreatment onsures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

D...Hinging/Latching

Positive cam action sprint? loaded seed taches with baked white ename! fixing. Safety-look Traingus allow hinging and taching either side.

E.-Frame/Shielding

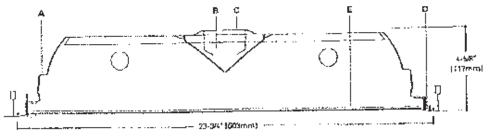
Die (ormed, neavy gauge, flot steel oper with reinforteel mitered corners and baked white enamel finish. Positive light sculs, Light stabilized 100% virgin acrylic prismatic shielding. Standard #12 pattern. Optional shielding available.

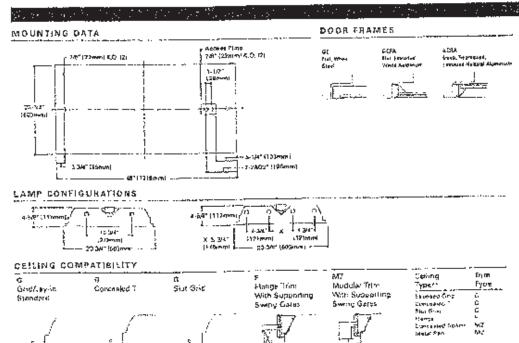


2**GC**240 232 440 432

Z' X 4" TROFFER

Specification Deep Fraffer





ENERGY DATA

Ingra Wetts: EB Ballast & STO (Amora 240 (72) 237 (51) 440 (244)

492 (122)

63 Bulkinst & STO Liverys 240 (66) 232 (21) 440 (172) 432 (142)

Luminaire Efficacy Rating LER v PL-66 Catalog Number: 23C-232A

Yearty Cost of 1000 turnions, 3000 hrs. at .08 KWH - \$3.04

Obeligte nga tas lampacation parta or for Lightwigel Siession for apecific temp calless requirements

- Sandole its Beies for inices Sucremi

ADP028018 (Supersects ADF991744)

The Ovation Series is a complete family of recessed direct/indirect imminaires featuring pleasant modern architectural styling, computer-designed octus and the latest energy efficient lamp-and ballost technology. The luminaire combines a matte white indirect reflector and two perferated direct lamp shallos to provide optimum brightness control. All components are located above the esting plane for a clean architectural appearance in the finished space. Carefully balanced design elements combine to provide an efficient and exciting alternative to profitional general lighting.

APPLICATION

Ovotion is a series of high performance luminaires designed for a variety of architectural applications. Ovation is an excision provided for private offices, conference rooms, reception areas, retail stores, furaries, open offices, supports, classrooms, banks, restaurants, confiders and many other commercial applications.

SPECIFICATION FEATURES

A ... Construction

Nominal 9' deep housing is die formed of code gauge, prime cold rolloù stool. Heavy gauge and plates are securely attached with screws for strength and rigidity and the climination of gape. Four auxiliary fixture and suspension points are provided. KOs for continuous row wiring. Large access plate for supply connection.

B. Elsetrical*

Ballasts are CBM/ETL Class 12" and are positively secured. Blax models use 2011 base lampholders with double edge wiping action pressure lock confacts and virtically oriented lamp support clips. T8 models use noto-lock ismoholders for positive lamp retention. UL/CUL listed. Suitable for damp locations.

C.-Bellnat Access

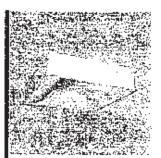
Sallast can be removed from below or from above using the unious ballast mountingraccess (state.)

D ... Finleh

Pointed after fobrication. Electrostatically applied beker white polyester powder coamer finish. Makistage dearing cycle, iron phosphate coating with rest inhibitor.

E-Refinators

Indirect reflector has high reflectance baked matte white enamed timels for laminous conformity. A pair of positively retained sine-mounted direct lamp shields is constructed of heavy gauge perforated steel with high reflectance painted after labification finish and milky white overlay diffuse: for visual constant, All reflectors are precision formed in a computy encontrolled operation.



2RDI-S-2BX40 2RDI-S-217 2RDI-S-417

BIAXIAL OR THULAMPS

[" X 1" Recessed Direct(Indirect S/da-Mount



ENERGY DATA

Jingsat Watte.

Eli Ballast & STO Lamps 28X40 (67)

290X50 (106) 280X50 (110)

237 (34) 457 (62)

417.590

85 Baltost & STO Lamos 217 JASA

579 Ballast & 679 Camps (8X40 (82) 48X46 (964)

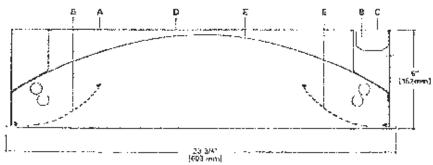
Lundrago Electry Reting LER – PLE Catalog Number, 2RDI-5-38XAI/8P

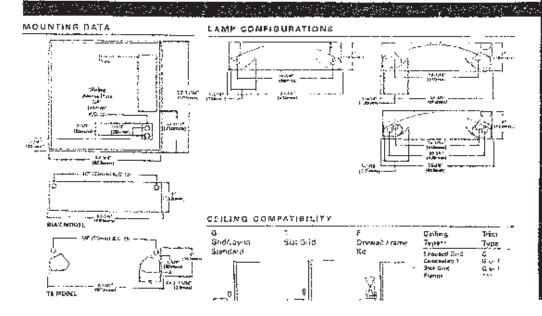
Yearly Cost of 1000 Jumens, 3000 hrs at JOR KWIH # 54.36

^в Бетинанде the temptoellegs stage in the Test viscol Sections при предпід тетруруністі подмеження

1.1Compat) Яве Авак Веропия (Боюров)

ээг Хөс Эгүний Эгини би Ассином







PHO!OMETRICS

28DI-S-2BX40RP Electronic Ballast E40BX/36K/RS Lambs 3150 Lemena

Specing satement (III 1.2 x mounting beight, (L) 1.3 x mounting height Efficiency 57.9%

Fost Reports SRDISSEX40RPJES

LEH - FLSS

Yearty Cost of 1000 lumens, 3000 firs at J08 KWH = \$4,35

Coefficients of Utilization

SMictive Don	cavity relanduncy	70%			
go <u>90</u> 154	20%	60%	30%	\$0%	0%
Fpr 70 54 70 1	D 70 50 30 30	59 30 10	50 20 10	50 00 20	0
RESK					
3 31 65 81 8	79 79 78 79	73 75 70	72 73 77	MS 82 58	53
1 74 71 68 8	S 72 66 6° 64	GG G4 GZ	5Z 54 6Z	61 80 53	57
7 67 62 67 6	U 04 65 56 59	58 59 52	56 53 50	54 52 49	
J 62 55 49 4	50 56 19 84	57 47 44	50 48 43	48 45 42	at.
4 56 68 47 3	9 85 47 42 36	AB 41 37	44 45 17	43 39 36	35
5 55 43 37 31	2 50 47 36 32	48 36 37	30 36 31	28 34 21	29
G 47 36 32 59	46 37 32 27	26 31 27	35 31 27	34 30 57	75
9 44 34 26 2	12 34 28 2a	33 27 04	32 27 24	\$1 27 25	32
D 4H 21 35 2	39,79,35,21	29 24 21	78 24 20	28 27 20	10
9 37 29 72 10	36 27 25 19	26 75 78	26 21 AS	25 21 78	7.6-
ED 04 32 18 16	23 25 (5 35	24 19 76	23 10 16	23 10 75	

Zonal Lumen Summary

Zoņa	Litznens	Sec. arms	:1Sixtare
G-3D	1174	17.7	\$8.7
0.40	1875	29,0	42.7
9-60	3249	57.6	76.0
6 .80	4270	87.9	500.0
0.160	4276	\$7,5	(00.0

Typical VCP Percentages

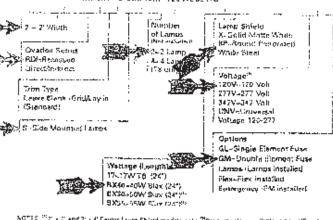
	lings	e Along	Height Araps		
Room Size (Ft.)		10.01	3.⇒*	10.01	
20 x 20	£1	56	35	45	
30 a 50	- 14	46	32.	36	
76 ¥ 60	44	45	2.7	26	
60 × 30	45	47	37		
60 × 60	-::	43	31	35	

Candela.

_			
Apple	Along II	45"	Across :
0	1429	1425	1435
5	1426	1421	1+29
20	1406	1408	4.52
10	1371	1376	385
20	:322	1332	1345
75	1,560	1276	1297
50	1195	1210	1245
35	1099	1123	1176
40	1001	1049	1105
1:	885	256	1053
96	280	859	957
55	0.56	702	87A
5D	6.21	447	725
98	å11	565	727
49	202	463	G45
75	206	356	541
RO	109	222	319
95	361	75	116
<u> </u>	٥	0	

GROSHING INFORMATION

SAMPLE NUMBER, 2000 S 28X40915 (20V/605) (U



 λ GTES $^{10}T * T$ and T * 4 Could Large Shigld models only. ^MPromits also evaluate is non-its vinteger and homographs for international materials.

For complete this methods, reference the Studence of Specification binder, and cliebsers foldered to write the student of the service meets. Specific write Dandar traiting Planesements for weak above additional students.

Bahast Type*

Blank - Standard Magnete Callant 1404

693 - 16 Sections Institut Sect

698 - 16 Electroise Inspirit Start.
Total Sumscore Distortion < 20%
No. of Sallies:
1, 2 of 3

EBS, PELISH FU Excorate Instant Start,

No. of High Estart Sactor 51, 13, Retail
No. of Harmonic Detection < 20%

Plannario, Osciolijum 4 20% 1 - 2 or 3 ERS - 1% filestrone Program Papert Start. Teest Plantario Distinctor 4 (0%

No. of Safe ()
1, 2 or 3

TEBB_ -TR Destroyle Instant Start, Total
| Him north Distriction of 1076
| No. of Balling:

11. 2 or 3 EPG_170 Gear Gregories the not Steet. Total harmonic Distortion < 20%

FNo. of Pallens (1, 2 or 2) (West Late managements and only

1285 J. 15 Flav Stemmer, Indian Steel.

The Historian Distortion C 10%
[No. of Batts 5]
[7, 7 or 3

DLS-Oughst Lightship System Dimming

Operions

Pinde ping

Pinde ping

Suppressor

EC-Clip-Us-T-But FO Clip

Order Individually as Accessory

Corder Individually as Accessory

Corder Individually as Accessory

Operion of the Pindere of the Corder Individually as Accessory

REP-Airected Singulates, for asn in

Now York City.

STW Sarri-Spinal or Temperbaum

Main Heffector

LSCS-Lamp Shiple Cable

RLS-Abose-Lock Socker

18 Camps Only)

SHIPPING INFORMATION

Catalog No.	W ₁
28/DI-S-289(4088)	16 lbs.
±940148-21789	16.5 Pap.
29(D)-\$-41789	16.5 lès,

The Ovation Series is a complete family of recessed directinoirect luminaires featuring pleasent modern architectural styling, computer designed optics and the latest energy efficient family and ballast technology. The luminaire combines a matte white indirect reflectur and two perforated direct famo shicids to provide optimus; linghtness control. All components are located above the cuiling plane for a clean and executed appearance in the finished space. Carefully balanced design elements combine to provide an afficient and exciting alternative to traditional general lighting.

ARDI-S-26X40RP-120V- Franci FBP340H-GIM-TBB51	EL. TYPE	—~ M
Frapared by	Date	

APPLICATION

Ovation is a series of high performance furningines designed for a variety of architectural applications. Ovation is an excellent photon for private offices, conference rooms, reception areas, retall stores, libraries, open offices, alipons, classrooms, panks, restaurants, comdors and marty other commercial applications.

SPECIFICATION FEATURES

A ... Construction

Nominal 5" deep incosing is die formed of code gauge, prime cold rolled steel. Heavy gauge and plates are securely attached with scrows for strength and rigidity and the elimination of gaps. Four auxiliary fixture end suspension points are provided. KOs for continuous row wheng, large access plate for supply connection.

B ... Elactrical*

COOKER LIBERTY

Ballasts are CBM/ETE Class "P" and are positively secured. Blax models use 2G11 base lamphotders with double edge wiping action pressure lock contacts and vertically ortented temp support clips. T8 models use reservices lamphotders for positive lamp retention. UL/CUL fisted. Suitable for damp locations.

C- Ballust Access

Ballast can be removed from below or from above using the unique ballast mountinglacess place?

D ... Finish

Painted after (abrication, Electrostatically applied baked white polyester now-der enamel finish. Multistage desning cycle, iros phosphate coating with rust infabitor.

E-Reflectors

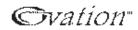
Indirect reflector has high reflectance baked matte white engine! this ner luminous uniformity. A pair of positively retained area-mounted direct large shields is constructed of heavy gauge particulated steal with high reflectance painted after subrigation finish and milky white overlay diffuser for visual compon. All reflectors are precision formed in a computer-controlled appration.



2RDI-S-2BX40 2RDI-S-217 2RDI-S-417

BIAXIAL OR TELAMPS

2" X 2" Recessed Direct/Indirect Side-Mount



ENERGY DATA

Ingot Worse 8H fishlast & STD Lamps 20X40 (67) 26X50 (50) 25X55 (510) 217 (54) 477 (65)

ES Ballest & STO Lamps 217 (45) attribut

STC 8allast & STD Lamps 20X40 (82) 40X49 (164)

Ljuminson Sjinsky Bering LER – FUSA Catalog Number, ZROVS: 2004/897

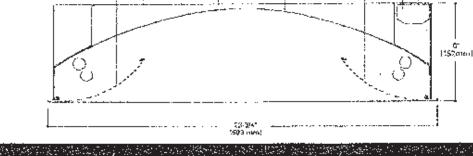
Yearly Cost of 1990 lumons, 3000 hts \$1.08 KWH = \$4.06

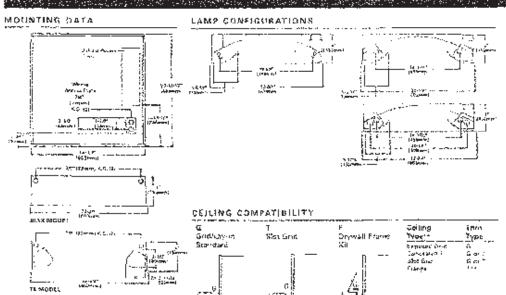
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PERMANDER POLICIONAL PROPERTY SE SON HAVE

***Set throughfrend Ad Assessmen

ADF020602









2RDI-S-28X400P Electronic Ballast FZCBX/35X/PS camps 3150 Lumens

Spacing protections (it) 1.2 x mounting height, (b) 1.3 x mounting height Efficiency 67.2%

Test Barroott 7ROIG28X40RRJES

1.58 - FLSS Yearly Cost of 1898 Jurnens, 3000 hrs of .08 KWH -: \$4.36

Chefficients of Utilization

	Sifective flo	oor cayi	ty refl	ept >	ись		20	15%								
- 15	2075			74	14%			55%			305			10%		On+
- CW	79 E0 D0	10	76	50	35	(0)	50	90	10	30	30	10.	96	30	10.	0
RGS						·				. . .				_	_	
6	31 31 41	4:	7,5	72	74)9	75	75	73	72	77	77	CS	.69	69	58
	74 71 68	95	77	55	6)	81	511	94	67	67	6;	152	6,	ęς	59	57
-,	62 62 57	54	\$B	61	Şĕ	53	38	95	35	áll	B	50	54	52	49	445
	60 NS 40	45	āĎ	54	128	44	57	47	14	58	46	43	45	45	42	45
	56 46 12	38	55	47	62	28	46	41	37	44	40	37_	43	39	39_	<u>\$Ç</u>
	51 42 37	37	50	42	36	33	tB	25	31	39	35	ังกั	36	94	3.	29
	40 30 32		26	32	32	27	36	733	77		31	27	34	30	27	25
	44 34 76	75	62	34	26	32	23	27	24	37	7.	24		27	3.7	2.7
	40 01 76	23	38	Ja	25	-21	29	74	7.5	20	24	20	244	23	248	19
	37 72 72	_	36	77	27	'' 18	25	71	78	26	27	12	75	21	18	16
"			33	25	19	16	24	15	56	20	10	76	25	19	15	- 14
	34 25 19	:ь	- 35	.e.	:::	151		''	-11		.,,		,_= :			

Zonat.	Famore	Summary
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Zone	', ginça	taka min	4481+bire
5-30	1914	17.7	76:
E-50	1825	75.0	A27
0-60	1249	\$1,6	76.0
(m)0	4276	67.9	100.0
te (89	4270	67.0	100.0

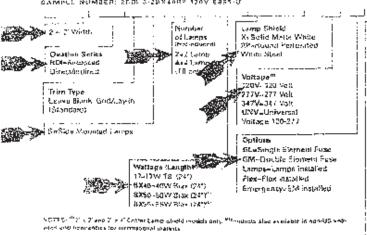
Typical	VGP	Percentages	

	Helight Alany		Height	Across	
Recent Size (Ft.)	9.5"	10.01	3,5"	10.01	
23 x 20	\$1	3R .	39	49	
20 x 30	44	48	32	35	
30 K 60	14	45	21	7 2	
60 × 30	45	47	(\$7	21	
6D x 60	43	43	:31	3:	

An orla	Along II	AE.	Астова с
!!	1429	1429	1439
5	1626	424	1472
'0	1406	408	1472
· · · · · · · · · · · · · · · · · · ·	1371	1376	1395
20	1322	1332	1345
25	1260	1276	1299
30	: 185	1210	1247
35	1099	11.33	1176
45	1001	1049	1105
45	462	950	1033
50	71:0	158	9\$7
55	695	749	G J H
50	222	643	795
55	411	555	721
70	302	162	645
75	206	356	247
80	109	222	319
623	33	7,3	115
2C	. tı		3

GRDERING INFORMATION

SAMPLE RUMBER: SERES-SERVARRY 1707 EAST-U



our Einsteiner teinligt maß, zeltzende die Ekpergend Steutdussen zurüge. Geschlickeine ist dem Einsteinsteine Suurische Steungs vertroum notive. Durzeit under Genopm singstein fletziefenteine der unselnbalten zu ing mitations ein

Sallant Type " Rank - Glandard Meanwise Sallect (CDA' Slax only) : RR* 1=Rad to intertecence

SDB_ : TR Fanguage Impact, Stat.

The Clarect State of Stat STRIL v 13 Sweet pole Imprene Stack. No. of Ballast 1, 2 or 3 ENGLIPLUS: 18 Statement inspire Start.

Subject Selection 97,73, 7020 No. of Parmorie Distortion e 20% Bahası 5,2 or 3 638_ැම් විදේශාල දේ ව ලැකෙන් Sould Start. Total Hamister (Sagrence v 12% No. of Ballant TSPA A TH Sengtome basage Stand, foral Harmonic Distortion v 10% [No. of Sallaca 5, 7 or 3 Elle_{ne}, T& 26pe ş-best operation and \$4es. Fogsj Ferresonsk Destamon v 20% No. of Ballaus 2, 2 or 3

TERS TO Blow Electronic Viscont SI on. local eternionic Decisions 4, 1975.

DUS-Digital Lighting System Directing

No. of Salkac No. of Salkac

Packaging Option Destruct Pack PALCAGOD Pack, in compr (Ribreter kierlyidually as Assessorie Upo From Por Fiscure.) DF+22-W-Drywell Frante Wt (Orzier (cdridually as Accession) REPosevered Endplaces, for its in-New York City. ST - Semi-Specular Devisingation Main Ballettor LS CS +Lyrpp Shield Cable H1.5+3e(ar Lock Socket CB Lemps Coly)

SHIPPING INFORMATION

Satulog No.	WI,
ZHID INS-25X40RP	16 Ithau
28(745-237 69	16.5 lba.
25 D4 3-41789	16.5 lbs.

COOPER LIGHTING - SURE-LITES*

DESCRIPTION

in the event of AC power failure, the Succident FSP Emergency Sattery Pack automatically switches to emergency mode, it maintains illumination of one or two lamps for a minimum of 90 minutes. Ut listed for field retrofit installation and conforms to UL 524.

SPECIFICATION FEATURES

Electronic

Oue: Voltage Indet 120/077 VAC, 60Hz

Universal Voltage imput 12(427) VAC, 50/60(ls (787240HU)

Solid-state Charges

Overmad/Short Circuit Protection

Test Switch/Power Indicator Light

Battery

Sealed Nickel Cadatillum

Maintenance-tree, Long Life

Full Repharge Time, 24 hours traux.)

Code Compliance

Ut. 924 Listed

St. Listed for Retro@PRoto tristalitytion

Line Safety NFPA 101

MECOSMA

Most State and Local Codes

Сповадо Авргочис

Features

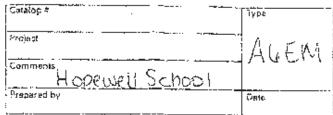
Provides a minimum of 90 minutes of emergency Supplication

Can be installed inside or an top of Setum.

Low Profile Housing (PSP450EP)

besy-te-follow instructions make installation quick and simple

May be used with switched or unswitched Skures

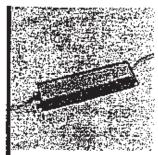


Self-Diagnostics (FBP240HSD)

One Jamp operation [FBP240D, HBP140X, FBP240U, FBP350LP); One or two Jamp operation [FBP240M, FBP240H, FBP240C, FBP240HU, FBP240HU]

Compatible with many different amp types-consult ordering information below or compilityour Cooper Lighting Representative argaeting appoint applications

Compatible with many ballast types including standard, repid start, sliming, instant stant, energy saving, dimming, and electronic AC bahasis-consult your Coopel Lighting flexebentative regarding specific applications.



*FBP SERIES

FLUORESCENT EMERGENCY BATTERY PACK Emergency Lighting

ORDERING INFORMATION

Catolog No.	Lamp Type	Mumber of Lamps Sparmed in Smorgency Mode	Folial Lumens
FBP140X	20W-40W, Z14C, T6-T12 U-shaped, circinhee, 20, energy saving, upod ster: (4-per, 2G11) http://compact.it/dueseser/	One	350 450
-HF140()"	17%-216%, 216, 16, 162, 96, VeC. U-stando. dicteline, 30, energy seving, rapic sten 14-pm, 26115 (stag compact fluorescent	Dire	\$00-7t0
FRE SECOND	17W-216W, 218, 18-112 MO, VHCI, Uranapolic circleffine, 30, seeingy seving, rapid start (4 pan. 2011) long compact fluorescent	Cine-2007 in 2180/ (2181) One-2007 in 390/ long compact Necressens One siz Two-2007 to 4007 (2141)	60ip-386,
_{ea-} euryaith ^{an}	T/WYTUW: 218, TETTS HD, VISC, U-shape a circletine, energy seeking, said star (4-sin, 2011 on G24g) long correspont friomesent	One or two - 17W to 28W One or Two - 32W to 40W (21-44) One or Two - 18W to 20W Iong ownpost fluorescent One or Two - 18W to 25W 4-Pio compact fluorescent 4-Pio compact fluorescent	106:360 700:300 for long comboot Historascend
20F240HSD	17/9-215(V.) 218(176-712)(Ö.) VIO, VI-Ababan, Goddine, amergy saving, sapid state (4-pin, 2011, G24g, at GX24g) (win, quast said (valle	One of Evan 19W to 40W (2 41) One 40W to 215W (5191) One or feet-19W to 30W roug	1700-1400 1700-1500 for long compact three-weets

FBP240VIC 17W-216W, 218/ Y8 117 YIO, VFO, Lichages, cedaline, energy seving, repid stark 4-bit, 26 11, 02dq, or 5/224g) twin, qued and tunte twin-topic controller.

SYMP INDER COMPARTS

commet fluorescent
One of feet-18W in AFW 4-(e)
compact fluorescent
One of Sit (50-18W) is 400 (e) 42 (for five fluorescent)
One of New 215W (50-5) (for five fluorescent)
One of New 215W (50-5) (for five fluorescent)
One 40W is 55W long
conspect fluorescent
One 40W is 55W long
conspect fluorescent
One of New 18W by 42W 4-pin

One of Two-18W to 32W 4-pin

SW-28W function without integral status;

SW-28W function without integral status;

SW-28W depen with, qual, of rister two-rebs

Cone of Two-18W to 28W order

One or Ywo 1897 to 4297 4-cm compact fluorescent

compact flatormacent One 46W to 55Vr long

FBP450LP 57W, 41 T8 On FBP250B are bitty myggels with constitution

MOITAMADANI DNIRACAD

SAMPLE NUMBER: FRPSAOX

*P5*240C

EP2740

*F8.P3500

See chart above Accessories (Order secontally)

FBP1W8C-Wire Buildle Cover for standal inclin; applications (2 required)

Energy Deto

	Input
(Nowiat)	
Whitel No	1797
FBP140X	4,544
FBP240U	5.3W
FBP2mUB4	5.379
FBF740H	E.BW
FBP240HSD	3.090
FBP240NU	6,000
PBP240C	5.3W
FBP2400	2,399
FBP3500	8,000
(*BPa\$QLP	1,897

ARSWEARERS

Miniature size, decorator finishes, push in consectors, economy, all combine to make single-organ Ministory Trac period for residential or commercia, esp. Polarized connectors and end consiste incided polycarhonate, halp Ministere Track accepts both Halp and Lazor by-- wickemphoton's.

Catalog #	L453.P	Туро
Project	Hopewell School	61
Comments		Date
Prepared by		<u> </u>

SPECIFICATION FEATURES...

A Structural

Faculted signification .090" (1.5mm) nominal wall thickness

B. Line Conductor:

Solid copper base para jordes section equivalent to 112 AWG ware .

C. hisulating Lines

Extruded adlyvinyi insulator.

D. Ground Conductor

Exclusive independent ព្យាព្រះចាច់ការប្តាធិបននៃ សាក់ជបល់ថារ Maintains ac accopendent positive ground #12 AWG pate betweer Tampaolder, Trac channel and politing's pround system.

E. Noutral Conductor

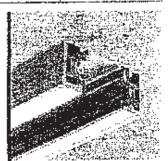
Cross section equivalent of #12. AWG wire.

F. Polarity Indicator (Neutral)

Visual polarity groove indicates proper electrical iostaliation of ramphobler adaptor.

Listings

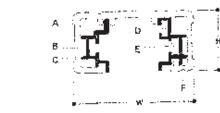
UL listed and CSA certified for use with Halp and cazer-by-State tamphoress.



£650, £651 L652, L653

MINIMARSKE SINGLE CIRCUIT 120V TRAC SYSTEM

Pawer-Trac



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			B	LAS "All records of the Control of
	Company of the same of the same	· · · · ·	LCS3	Connectors
	1034	<u> 1883 </u>		
"Actional longities	L - C' Action! length	L. Jo' Across Tenuth	5 MIS, Virginal squarp	LOUS Carret Box Covar
" Agrost longth 91 (53 Junn)	2 - 4" Agreed length 44 (18 1/12) mm	L 35" Acida Jeruth 55 1781 (232Prens)	140 MC, (308)Amost 5 PMS, Virtinal selecto	Light Carres Box Cover Light Sive Fast carretessor
1 August longth 91 (53 August) 156 1 (53 Mers)	2 - 41 Actual length- 44 (151) (152 mm) W-1 (251) (25 mm)	L. 35' Across Tenuth 53' 1781 (2329 mins) W. 41' 3781 (3376 m.)	2 w13" (Cubin) springs 140 (40" (365) when Www 1381 (365) when	Light Claret Bas Cover Light Siles Fall brightesian Light Flexible Commercian
1 Aglogé longth 91 (53 Soon) 136 (53 Soon)	2 - 4" Agreed length 44 (18 1/12) mm	L 35" Acida Jeruth 55 1781 (232Prens)	140 MC, (308)Amost 5 PMS, Virtinal selecto	Lijop Curret Bas Cover Lijen Ster Fast entwickser Lijen Ster Fast entwickser Lijen Steright Connector Lijen Steright Connector
1 August longth 91 (53 August) 156 1 (53 Mers)	2 - 41 Actual length- 44 (151) (152 mm) W-1 (251) (25 mm)	1 .51Across length 97 (1811/2029)(cpc) Wild (2821/2029) 	L wild Autoral sength and logg (3565-med) wells that (3655-med) P. wild (367077.5-med)	1,009 Cutrot Basi Cover 1,961 Elive Fait culvirbaser 1,961 Flexible Commenter 1,962 Straight Clarificator 1,964 L Commenter
* Aging/ longth 91 (53 June) 36 * (55 mm) 56 * (55 mm)	2 - 41 Actual length- 44 (151) (152 mm) W-1 (251) (25 mm)	L. 35' Across Tenuth 53' 1781 (2329 mins) W. 41' 3781 (3376 m.)	2 w13" (Cubin) springs 140 (40" (365) when Www 1381 (365) when	L009 Currer Bas Cover L961 Flowing Comments L962 Flowing Comments L963 Straight Comments L964 L Comments L965 T Comments
Tagling longity 90 (55 min) 56 (55 min) 10 80 (55 jimms) i Boding	Color codes	L. IphAction Terrath 95 1781 (2029 only) Wild 1781 (2021 only) Wild 1781 (2021 only) Option voides	L wild Autoral sength and logg (3565-med) wells that (3655-med) P. wild (367077.5-med)	L009 Carret Bas Cover L005 Silve Foit contributor L507 Flexible Contributor L503 Statistic Contributor L504 L Contributor L506 Contributor L506 A Contributor
National longith of 157 maint 166 (158 men- 1018) [157 feminal a coding	Coor codes 2 - White	1 .51Across length 97 (1811/2029)(cpc) Wild (2821/2029) 	L mitr Autom rength and spt (shekemen) what sen (shekemen) is us (shekemen) is us (shekemen) Coher codes	L009 Carrot Bas Cover L904 Silve For contributor L904 Flexible Contributor L904 Straight Contributor L904 L Contributor L904 L Contributor L904 A Contributor L904 A Contributor L904 Guidge Say for the east PRBst publicy L908 A Contributor
* Agings longth 91 (57 Junio) 56 * (55 men 10 81 (57 Jeron) 10 settes Vene Statsk	Color codes	1. Ib' Action length 93 1/81 (7829 mm) Wild 1 7/81 (3828 mm) in 2012/2011 (11.50 mm). Color sodes F = Whate	L mily Author rength Mol Vot (Shiftener) Wild rest (Shiftener) P = 11/16/ 07/Letter) Coher equins P = Weste	L009 Carrot Box Cover L905 Silve For contributor L905 Flexible Connector L905 Stringth Connector L906 L Connector L906 L Connector L906 X Connector L906 X Connector L906 Mining Salv for use earth filter publing L906 Administrative L907 Carbot Governments L908 Thanking Candoby and Connector
Actual length 91 (53 min) 56 (53 min) 10 6 (17 Januar) 1 nother White 5 States Coloring School	Color codes 9. White MS - Buch Color codes 9. White MS - Buch 82 - Suotre	L. Let Across length 93 1/81 (2029) mind Wild 1/82 (2009) I Carlott (1/1,50) mind Color codes Fig White MB + Blats	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or 7.5 december 1975) or Wester Coher condens Pier Wester VAE - Black	L009 Catrot Bas Cover L961 Sive For contributor L962 Flexible Competer L963 Stateght devinence L963 Camerator L964 Commetter L964 A Commetter L964 Guider Bay for use wate Filiat expline L968 Rain water L969 Frenting Cancer and Commetter L968 Cord and Camerator
Actual length 91 (53 min) 56 (53 min) 10 6 (17 Januar) 1 nother White 5 States Coloring School	Color codes 1. Value Color codes M. Sharin M. Sharin Color codes M. Sharin M. Sharin Color codes M. Sharin M. S	L. Jo Across Jenath 93 (1811/23/Promp) W. L. 1 (2811/23/Promp) H. L. 1 (2811/23/Promp) Color wodes F. E. Whole M.S. + Black 92 - Brange	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or 7.5 december 1975) or Wester Coher condens Pier Wester VAE - Black	L009 Carrot Bas Cover L907 Silve For trushbaser L907 Flexible Connector L908 Straight Connector L908 L Committee L908 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 A Committee L909 Connector L909
Actual length 9" (50 mm) 56" (50 mm) 10' 6" (57 mm) 10' 6" (57 mm) 10 mm	Coor codes 12 North March 19 Color Codes 13 North March 19 Codes Codes 13 North March 19 Codes Codes 14 North March 19 Codes Codes 15 North 19 Codes Codes 16 North 19 Codes Codes 17 North 19 Codes Codes 18 North 19 Codes Code	L. Jo Acrom Terration 1787 (2829 mm) W. L. 1787 (2829 mm) W. L. 1787 (2820 mm) Galler sodes F. E. Whate MS. F. Black MS. F. Black AS. F. Acrogina Breas	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or 7.5 december 1975) or Wester Coher condens Pier Wester VAE - Black	L009 Carrot Bas Cover L905 Silve For contributor L905 Flexible Connector L905 Stringth Connector L906 L Connector L906 L Connector L906 X Connector L906 X Connector L907 Guider Say for use each if fish publing L908 Main usbry L909 Floriting Connector L909 Floriting Connector L909 Southing Connector L909 Southing Connector L909 Bordand Continuation Kit L900 Leve Lnd Continuation Kit
Actual length 9" (50 mm) 56" (50 mm) 10' 6" (57 mm) 10' 6" (57 mm) 10 mm	Color codes 1 Strainer Color codes 1 White White Color codes 1 White MS - Buck B2 - Shours B3 - Analyte B3 - Analyte B3 - Constant Death	1 Lot Across length 93 (1811) (239) minst Wild 1981 (35mm) Color codes Fig White MS + Black S2 - Blacke A3 + Angline Brass 8 - Poissand Brass 8 - Poissand Brass	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or 7.5 december 1975) or Wester Coher condens Pier Wester VAE - Black	L009 Carrot Basi Cover L904 Silve For trushbaser L904 Flexible Commenter L904 Straight Commenter L904 L Commenter L904 L Commenter L906 A Commenter L907 Guidge Box for the east in Plast publing L908 A Commenter L904 Guidge Box for the east in Plast publing L908 Admit Looking L904 Flexible Commenter L905 Continued and Commenter L905 Continued and Commenter L905 Continued and Commenter L905 Continued Commenter L906 Continued Commenter L906 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued Commenter L907 Continued
Acquired length of (55 min) 56" (55 min) 56" (55 min) 10" 6" (57 james) a reating Whate Stats Colorage Situs	Color codes 1 Strainer Color codes 1 White White Color codes 1 White MS - Buck B2 - Shours B3 - Analyte B3 - Analyte B3 - Constant Death	1 Lot Across length 93 (1811) (239) minst Wild 1981 (35mm) Color codes Fig White MS + Black S2 - Blacke A3 + Angline Brass 8 - Poissand Brass 8 - Poissand Brass	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or T.B. Senier) of the content or the content	L009 Carrot Bos. Cover L903 Silve Foit contributor L903 Flexible Commercial L903 Straight Commercial L904 L Commercial L904 C Commercial L904 Commercial L904 Cutting Sale for the earth F-Bat militing L904 Guider Sale for the earth F-Bat militing L905 Admit sale for the earth F-Bat militing L909 Tourism Commercial L909 Tourism Commercial L909 Commercial L909 Commercial L904 Commercial L905 Commer
Acquired length of (55 min) 56" (55 min) 56" (55 min) 10" 6" (57 james) a reating Whate Stats Colorage Situs	Color codes 1 Strainer Color codes 1 White White Color codes 1 White MS - Buck B2 - Shours B3 - Analyte B3 - Analyte B3 - Constant Death	1 Lot Across length 93 (1811) (239) minst Wild 1981 (35mm) Color codes Fig White MS + Black S2 - Blacke A3 + Angline Brass 8 - Poissand Brass 8 - Poissand Brass	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or T.B. Senier) of the content or the content	L009 Carrot Bos. Cover L907 Silver Foit contributor L907 Flexible Commenter L908 Straight Commenter L908 Straight Commenter L908 A Commenter L909 Commenter L909 Contributor for the water fills traibility L909 Contributor L909 Floating Conception L909 Enating Conception L909 Contributor L909 Con
Acquired length ref (50 min) 56" (50 min) 10" 6" (10 jernin) a nostro Manie 50 aust 5 bibas	Color codes 1 Strainer Color codes 1 White White Color codes 1 White MS - Buck 82 - Shours 2 B Analyte State 3 Analyte 2 Strained 3 Analyte 2 Strained 3 Analyte 3 Analyte 3 Analyte 5 Analyte	1 Lot Across length 93 (1811) (239) minst Wild 1981 (35mm) Color codes Fig White MS + Black S2 - Blacke A3 + Angline Brass 8 - Poissand Brass 8 - Poissand Brass	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or T.B. Senier) of the content or the content	L009 Currer Basi Cover L904 Silve Sent contributor L904 Silve Sent contributor L904 Straight Contributor L904 L Contributor L904 L Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L905 Contribu
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1 Agency langth 26 (53 min) 56 (135 min) 10 8 (13 femin) Su nottes White Black Polished Stead	Color codes 1 Strainer Color codes 1 White White Color codes 1 White MS - Buck 82 - Shours 2 B Analyte State 3 Analyte 2 Strained 3 Analyte 2 Strained 3 Analyte 3 Analyte 3 Analyte 5 Analyte	1 Lot Across length 93 (1811) (239) minst Wild 1981 (35mm) Color codes Fig White MS + Black S2 - Blacke A3 + Angline Brass 8 - Poissand Brass 8 - Poissand Brass	L with Author senight and yet (statemen) we'll statemen) we'll statemen) we'll statemen (select or T.B. Senier) of the content or the content	L009 Currer Basi Cover L904 Silve Sent contributor L904 Silve Sent contributor L904 Straight Contributor L904 L Contributor L904 L Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L904 A Contributor L905 Contribu

ADV042377 Supertades ADV021436 & ADV980406 TABLIFACK Bystoms

Roundback lampitolitiers. Available in white or black finish. White igmoleoider available with white balke. Uniform theo olug box allows line voltage and low voltage (L4919) fixtures to blend regether in an installation. For use with Halo and Lazer-by-Halo track systems.

Catalog # 1 4010P	Туре
Project HUDELDEN SCHOOL	B1
Comments	
Prepared by	Date

SPECIFICATION FEATURES

A...Electrical Quick Lock Adapter/Transformer Polycarbonate casing, Attaches electrically and megnanically anywhere along Power-Trac. Visital polarity line assures proper grounding, Two position conductor allows use in single circuit and either circuit of two, circuit track.

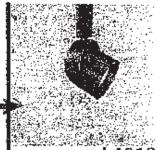
B ... Yoke

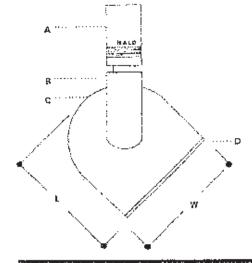
Yoke allows (ampholder to rotate norizontally 398* for maximum sinting adjustability.

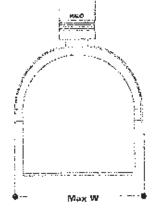
- C Lampholder Housing Repeaback sivile housing with black Collex paffle.
- Q Lampholder Housing Roundback style housing with plack Coilex baifle.

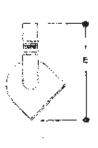
Listings

Utilisted and CSA certified for ead with Halo and tozer-by-Halo track and track systems.











L4012

COLETTO ROUNDBACK CYLINDERS WITH BLACK BAFFLE

Pewar-Tres

ADV042250 Superspelley ACV990R10

ONDERING INFORMATION SAMPLE NUMBER: LADRUP

e? 7/2" (19)mue)

2:871 Jain Drors

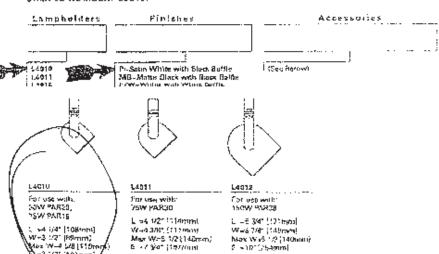
Accessories

1275 Louver

L1972 Bain Doors

Barn Contrallevel occupi

filters and lousus| 1,200 Series FiltersSenses



Accessories

C1984 Baue Doors

ilitres and legent 1344 UV Filter

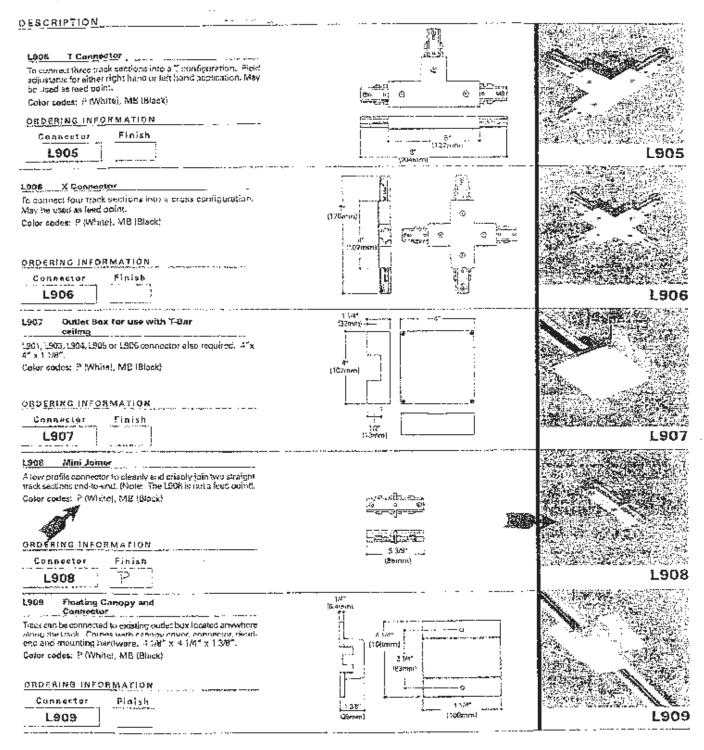
USDC Series Filters

(Bank Coor alrows use of

Type: BT Catalog #: L904P Hopewell School

DESCRIPTION		
Lander Sea Cover Can be used at the openiest tood pendential point these. Straight. Liff at X1. Ordingloods on book for enthalty all standard cares poses. Size of the Screws included. Color cares, if (White., MR (Panck)) Chookstand the ORMATION Chookstand the ORMATION	123 mm) 100 10	
L900	(12)mm; (2,4me)	L900
L901 Live End Commester To start a run. Couer codes: P (White), MR (Black)	2 1/c* (blency) (7 3/c* (7 3/c*) (17 3/c*) (12 3/c*) (12 3/c*) (12 3/c*) (13 3/c*) (13 3/c*) (14 3/c*) (15 3/c*) (15 3/c*) (15 3/c*) (16 3/c*) (17	
GROSSING INFORMATION CORRECTOR FINISH L901	(James) (James	L901
1902 Flyxible Connector To connective insek sixtions at any angle up to 90° in citing page or well to calling or product certino amplications. Color codes: P (White), MB (Black) ORDERING INFORMATION	1 2/16 (15)mm)	A de la companya de l
Connector Flaish	[] [] [] [] [] [] [] [] [] []	L902
L903 Straight Commeter Te connector two particles and 1,000 elifers from mor connector 1,900 in mail it provides a conter feed ontain and or longer, May be used as find point. Culor codes: Prefixed, MB Cliebs		
Connector Finish	17 (120 ne)	L903
L904 L Congretor To consider two beets sections at a right angle. Field adjustable for other right hand or left hand application. May ne used to the ount. Color outles: P (Winte), MR (Block) ORDERING INFORMATION Connector Finish L904	4 1kg 1 3/4 1 3/4 2 3/4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L904

Type: BT catalog #: L908P Hopewell School.



The DIM Series is an energy efficient family of industrials that feature premium performance and durability. The industrial peries incorporates nearly duty, probassed, reflectors that presidely direct and effectively. control fight. The versatile DIM Series can be restalled using various modeling methods and numerous options and accessories are availattilla-

APPLICATION

The DIM Series can be edifized in simple test and area fighting to the most comanting industrial auplications.

Cutsing# <u>nimm-232-100√-ELFF bp240H=</u> GM-TEBST People CLEM Hopewell Describe by

SPECIFICATION FEATURES.

A .. Construction

Channel is code gauge prime cotd rolled steel. Die torsned. with deep V-grooves for tong harder. Die formor/ phannel conrector assures straight rows and consinuity of ground taxough set serews. Lastichickier mounting. breakets are easily inserted with shap in ection.

B -- Electrical*

Ballast are CBM/E11 Class 121 and positively secured by mounting balts, Metal clad lansphotoers are spring loaded for turnet safety, DiJCUL listed. Suitable for darup locations.

Ginfah

Multistage iron phosphate predealment ensures maximum bonding and rust inhibitor. Lighting grade, baked white anamel finish.

D -- Reflactors

Die formus prime steel, gode gauge. Deep draw tell width ribs larmed with one reces stroke, Side flanges land. etrenoth with upward turn. Sasily cleaned, Baked white ename! 13-1/2" width. Four foor sactions. Reflectors sexured by positive retaining sprew. Reflector aligners provided. Standard with 20% uplight (DIM). Closed top reflector. (DCIM). Optional indestrial fix tures are available incorporat. ing ailver technology enhancements, (SilverLining).



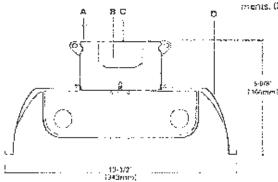
DIM240 232 340

> 332 440 432

4" OR B" INDUSTRIAL

2. 2 OR 4 LAMP

Reavy Duty Industrial



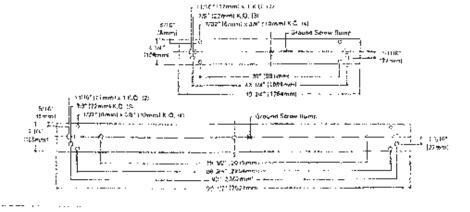
LAMP CONFIGURATIONS







MOONTING DATA



ENERGY DATA

Input Water EB Ballaut & STD Lorens

249 (72) 232 (54)

340 (120) 332 (91)

620 (4411 422 (422)

ES Cultimet & SITO Compa

746 (36) 232 (71)

> 340 (130) 332 (100)

440 (172) 432 (142)

Luctioner Signary Sation LEA - F1-78

Catalog Number: DIM €232

Yearly Cost of 1990 lumpus, 3000 60.03 at 400% S0, to and

Performing the Incom/Suffeet date of the Tophilical Section for anomic reinpitration

ADF020748





DtM-232 Slectronic Ballast 23278/35K Lamps 2850 lumians

Spacing criterion: III) 1.3 x mounting aeight, (Ц) 1,4 х ភាចបារណ៍ខ្លួ វាស់ខ្លាំវ Efficiency 90,8%

Test Report DHM232,IE\$

LER 🗵 91-79

Yearly Cost of 1000. ibmens, 3000 hts at .08 KWW - \$3.08

Coefficients of Utilization

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rw	סל	54	30	70	70	30	30	14	90	36	16	50	39	10	50	30	15	
103																	_	
<u> </u>	105	(Ç5)	8510	5100	102100	100	93	98	23	88	90	ae.	75	7.9	7:9	76		
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7_	97	79	73	₽R	65	7£	71	\$ \$	71	56	63	86	li2	50	67	.18	55	45
3	- 79	70	67	57	3.6	97	G1	55	-62	6/	52	52	53	90	S,±	50	47	34
4	72	\$1	54	44,	971	ŞD	12	47	55	471	44	. 51	46	42	4¥	44	40	38
Б	- 6Ç	54	٠fi	(0)	50	52	45	35	49	42	37	+3	40	35	42	27	34	31
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Zenal Lumen Summary

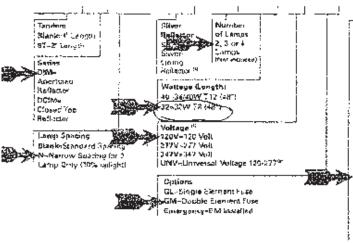
Zona	Lumpna	%Lamp	*Alexand
¢ 30	101E	17.8	19.6
Q- 161	1702	29.8	312,91
0.66	3238	56.H	52.5
0-90	4930	76.0	83.7
90-1ED	846	14.3	14,3
0.180	5176	30.2	190.0

<u>Candela</u>

Angle	Aleng 3	45*	Asrues_
G	10/9	1278	1276
10	1058	7264	1255
.20	1795	17.4	1224
30	1092	1100	5180
4:0	952	1039	1174
_2C	78*	972	1975
<u>,,50</u>	582	817	784
70	367	472	553
90	127	251	134
90	\5	201	21
100	315	ê5	- U
110	98	181	341
120	169	45	20
130	240	146	47
240	304	264	:73
150	388	28%	286
186	394	365	317
120	424	426	.476
380	4.34	434	454

ORDERING INFORMATION

SAMPLE NUMBER: DIM-202-120V-EBB1-0



Вавая Тура III

LEBA FIL Magnetic Enregy Saving

LEGGS-IB Magnetic Bodge Swang 504 - VA Department Installe Start. - 1 Best Marmonia Destendent July

Ma, al Greiani 1.2043

989_/PLUS-TO Electronic Instant State

Ніде: Пажад Расске з 5,75. Тока Надержаву (Хассейскі з 20%)

No. at Ballesi 1.2013

SRS, s 18 Eigenaria Program Rapid Start.
Total Karmonic Distortion < 10%

No. of Sallage 11, 2 or 3

TERR) - TB Slock one bream Start Tolki | Hammulio Distortion v 30%| |No. of Selicet

5, 2 ar 2

ESR_ =712 Blockware Name Start.

No. of Belast 1 002

PI/CPI-Prog-In Option TIDV-Tandem in Unc Wiring Option (Consult NLW Option Catalog Panel POR-Porcetain Fleish POXEEnrhitx Finish (See automic & acquesories)

Systems

Suppressort

Alfis-Parici interference

6.3718.SUT>CSP-515P+C+60 5: Ptog (120V) 5-3/18 SJ (403P-1/16P-Cond & Plog (277V)

Packaging Mallon Pack 48 4 2 a 3k

ACCESSORIES

(Diger Separately)

A18/Space-U-Seach: 1-1/2" to 7-1/2" from coiling

ATG-4- Tong Planger (Use 2 per fixture) SCFyFixed Stem Set (Socially Language)

SCS4Swive: Stem Set (Specify Length)

SCA-Adjustable 48 Stem Set

AYC-ChaintSet-Uk-Chain, Honger Set (Use 1) cot per fixture). WG/DI-4FT&FoWite Guero

WGG/DEAFYUNVine Gyer Gueril

MECL-Dt/RS-49-374-Lb/Meral Sgg Crate touver MECL-DI/RS-89-1/2-U-Metal Eoo Crate Louver MOTES: "Proposes also available in non-US voltages and frequencies id offernational making, in Neg available mean appointed winerpencies, rollage must be specific. "Salvas miling not available of figures with NO, 2010 or 2%.

Specifications & Commission and institution and institute modern country again to the Cighting processoriation for available and propiets information.

SHIPPING INFORMATION

C. talog No.	Wt.
DIM-252	55 lan.
87 \$154232	(9) lçs.

Catalog #

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or two fam; automatically switches to emergency higgs. It maintains identication of one in the event of AC power fallure, the Sure-Lites FBP Emergency Battery Pack fation and

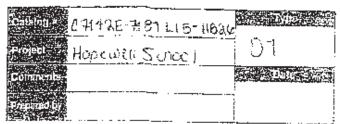
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1772 HC, WICCO snaped, very, rapid start (4-pm, ad) twin, quad and tribid		1997, 25 IT ship compact trongsom 1997,21697, 216, 18112 HO, VHO, U-shabed, 10 cretofine, 20, cheggy shving, Lapid stati	:	- 1		O N	imswitched fixtures	Мау бе швес	časy-to-toko dostaliation d			Cara be insta	of smergene			Chicago Aposoved		AHSO/OSHA		UR Listed for tion	RES		m of 90 minutes. Ut listed 924.
long enhant fluorescent Che or Two - 18W to 37W 4-Pin congred fluorescent The but love 17W to 46W (7*4*) One-day to 219W (8*9) One of Two-18W to 56W long curripact fluorescent	One or Two 2004 in 4004 [2-4]. One or Two 2004 to 4004 [2-4]. One or Two 2004 to 4004 [2-4]. One -4004 to 2004 [3-8]. One or Two 1804 to 3904.	One 2000 to 3500 forth on your compact	One	t) III:	Number of Lamps Operated in Smergerick Mode		extures	May be used with switched or	basy-fo-tollow instructions make installation curck and simple	Low Pyothe Housing (F8P4(D).P)		Cars be lostalled inside or on top of	of emergency literaination	Provides a trinimum of 90 minutes		Moved	Most State and Local Codes		ላቸውል 100	Retrofe/Field Installa-	The second section is a second section of the second section of the second section is a second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section o		for finic retrofit metal-
communit fluorestess)	Job 1000 for lang correspond throascent)	tergresegn:	505.7ac	350.450	knitial Lumens			apecific applications	AC ballasis consult your Cooper	saving, dimening, and electronic	types including standard, repid	Compatible with inany ballast	regarding specific applications	Chrome in the Secretarian	lamp types-consult ordering infor-	Compatible with yeary different	(restauna, restauta : ettaect Restaunt, Reftauten	One or two lamp operation	One latest operation (#882400). #82140X, #82240H; #84456LPH	Self-Chagnordes (FBP240HSD)	F (baaros) try	HUDGLUGH SC	Froject
					Emergency Lighting	EMERGENCY EMERGENCY															םאנם.	h (5)	CIEN

新記がるない 。

One or five-18W to (8W lung paintpart fluorescent One-40W to 55W lung

2 validas

Low brightness 7-3/8° aporture cross blade for tisk with a 26W, 32W or 42W. Triple Twin Tube compact fluorescent lamp. Reflector term obtainates brightness at higher angles. One electronic beliast to operate 26W, 32W and 42W triple tube 4-pin lamps. Venting ensures maximum terms life and lumen output. Open downlight, lens, and open well wash trims are interchangeable within the same housing.



SPECIFICATION FRATURES

A ... Reflector

Clear uppe: Alzak® reflector for maximum output. Positive reflector mounting, without tools, pulls trim light to reiling. Option 5: Lower spun parabolic

Option 5: Lower spun parabolic reflector with 90° cross blades, 050 thick aluminary with inwistencent clear Attak finish or named white. Other finish options systems upon request.
Option 6: Lower spun parabolic reflector painted white with 90° perforated grass blades, 050 thick aluminum, painted gray.

9 ... Trim Ring Options Self flanged reflector.

C ... Socket Connector

One piece die cast aluminum connection allows vonting für maximum Germal performation.

D ... Housing Mounting Frame

One prace precision dia quat alumination 1-1/21 deep collisi accommodates verying dimensions of spiling materials.

E ... Universat Mountling Brzeket

Accepts 1/21 EMT, C Channel, T bar factoners, and bar hangers, Adjusts 51 vertically from above or below celling.

F ... Conduit Fittings

Die dast setew tight confectors.

G ... Junction Box

Listed for eight #12AWG (four in, four out) 90°C conductors feed therough branch witing. For 1/21 and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing reflector.

H ... Socket

4 per GX24c/3/4 base with fatique free standers sine! temp pering ensures positive temp reteation.

I ... Bullagra

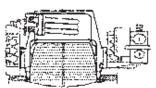
Electronic ballest provides full light output and rated famo life.
Provides flicker free and noise free operation and starting. End of temp life protection is standard.

Labora

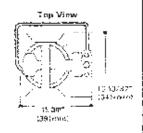
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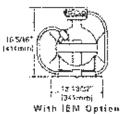
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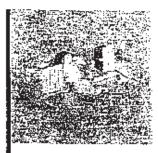
cultus listed. Damp label (BEW) union made.



Louver Option 6







C7142 7181 26W 32W, 42W Triple Compact Huorescent 7-3/8" CROSS BLADE

Energy Data

2.5W Yeight 4-pin Bullsat Electronic 120V reput water 25, Line Americ 0.75 277V hepot Water 26, Line Americ 0.89 Power Endoc 0.88, THD, 4,199 Min. Starting Temp.: 10°C (15°F) Sound Kater; A

37W Tesple 4-pin

Buillest inspression 178V input waste, 25.5, Line Americ C.D. 207V Input World 54.5, Line Americ C.S. Power Fauric S.M., 1981, 1983, A. Mrs. Systing Temp., 1070 (1851) Sound Hannig A.

42W Triple 4-pin Ballaso Steetrome

1999 Innus Watter 48, Sine Amors, 0.02 277 Innus Werts: 49, Cline Amors, 0.08 Fower Pacters 598, THD, 4199 Min, Shaning Temp: -10°C (15°F) Sound Rating: A

NOTES:

Accessories should be ordered separately. For additional options along a consult your County Lighting Representative Mark to a report of America. Aluminatic Company of America.

ORDERENG INFORMATION: Complete unit consists of hopping, cards: and from

--- 7 3/9" [587eppp] -- -----

8 5/81 (26/4m)(n) -- -

8 3941 (2076) 601

Lauver Option 5

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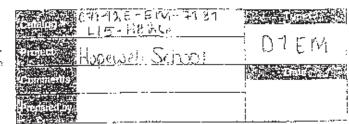
Housing 9 alfast Trimas Louver Options **Dption**≠ C7142 E 170V - 277V 50/60 :0 CF- Chien 7181-Addisclos, Glacow Indesegns S. Barre IC or W. (1) ISA HOLLEGUAN Electronic Self Flaming City W-vyhita Maze:C ্রান্তি alcrumy Blage Alendan applica TT: Carrie 30 - 34 /V 5030 W Mangari, 201 Long Pair \$2M ≑ineigency Feregar Elemetratio HESOUR Channel Car 700 de la week 16a Portoraind Stade Françoid CS 02W Her roomes 1026-75W 126V Tot Leave Demonstration of other Hanger, 50" cong. Pan Fremote test www.co Tozen regin value of the following services Serv I(L) Grey Blades, W OIMY) RMB22-Wood Joist Bar Enterett station tranger, 22" Long, Pair PSSprengia Instance Fuer Kit. (Park 200 Hanzontal) 1032* 3PW fore digmoning, Laborative demonstration
 1042 - 12W 100V Dimming, Lubron* Compant SF
 2026-26W 277V Olymphing, Lubron* Compant SF
 2032*82W 277V Dimming, Lubron* Compant SF
 2042-42W 227V Dimming, Lubron* Genepatt SF Ti Lanua 5 Alma

Louver Plan View



Description

Low beightness 7 3/8" apentine crops blade for upp with a 26W, 32W or 40W Triple Two Tubs compact Subrescent terms. Reflector trim éliminates programess at higher angles. One otestranic ballast to operate 26VV, 32W and 42W triple tube 4-pin tames. Venting ensured maximum lamp life and lumen output. Open downlight, lens, and open wall wash trime are interchanguable within the same housing.



SPECIFICATION FEATURES

A ... Reflector

Clear upge: Atzex® reflector for roughnum autput. Pasitive reflector acquiring, without tools, polls tree note to celling.

Option 5 Cower sprin parabatic refrector with 90° cross blodes. 050 Enick anteringen with lowgroepyopt clear Alzak Bosh or pached white. Other finish options aveilable upon request Opdan 5: Lower spun pazainfic rufficator painters white with 90° perforated cross plades, .060 thick attaninum, painted gray.

B ... Trim Ring Options Self Sanged reflector

C ... Socket Connector

One piece die cast aluminam connection allows venting for moximum thermal performance.

D ... Housing Mounting Frame

Can diece procesión de cast attiminum 1-1/21 dens collin accommonates varying dimensions of ceiling materials.

g ... Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, Tibas testeness, and bar hangers. Adjusts 5" vertically from above or below arillest.

F ... Condult Fittings

Dia cast serew tight connectors.

G ..., Junction Box

Listed for eight #12AWG [four in, febriosti 95°C sendestots feed thorough branch wring. For 1/2" and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing raffector.

H ... Socket

a pin GX94q-3/4 Sase with Intigun line staintess size! lamp soring ensures positive lamp retention.

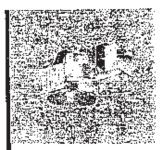
[... Baltasta

Electronic ballast provides full light output and rated tamp life. Provides lincker free and noise lave operation and starting. Sad of tagon life protection is standard.

Lobels

location.

colleg leated, Danip Inbel 190W urado mado.



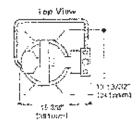
C7142 7181

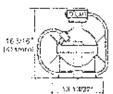
26W, 32W, 42W Triple Compact Fluorescent

7-3/8" CROSS BLADE



Louver Option 6





(345 nim) With IEM Option

Einierig y Dinthi 26W Tripla Aplin Balast bleatronic 1707 inest water 29. Line Amos: (J.75 2777 Inous Water, 25. Line Amos: disk Power Factor: 5.29, 75% < 10% Min. Starting Forap.: 419°C (15°C) Search Antorp: A

523V Trible 4-min Ballasti blactronic 120V Input Water \$4.5, Line Apper 4.30 277V Input Walts: 34.5, Line Arche: 9,13 Power Fegins 185, THC; <10%a Min. Scarting Length - WPC (1577) Separa Resing: A

42W Triple 4-pin Balling: Florarrenic 120V Indus Waits: 48, 5 ine Amps: 9.37 237 James Watts, 45, Store Arsort, 0.48. Power Hagter; >,25, THD: <105-Min, Stations Terms -10°C (15°C) Sound Stations: A

NOTES:

Accessories thould be progred वस्तुन्त्रकार्यस्थास्य Fee: additioned eletions, (Seaso consult

уми: Googer (/gh/up Воргевика) же Alcen is a repletored Nacismatk 60 Alternings Company of America

ORDERING INFORMATION: Complete Data generals of inguishing, bullast and from

President rest sweeps

Housing___ Finish Accessories Trims Cotions Ballest Options Lettvar C7142

Couver Plan View

CH40

E CONC. 277V Specific
of 278V Concerned Lifections
Tarrer of John Specific
CH37V Horsonal 1928 CON 120V

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JOHNSON SE, all 1992 (1992) Commission Labour Compact SE (1994) (1992) Commission Labour Compact SE (1994) (1992) (1992) Commission Labour Compact SE (1994) (1992) (1994) (1 1708 Rouge ontals

A WEST STREET

5 960 (264m)ns

6.3/41 (22.2500)]

Louver Option 5

2032-32W 237V Demong, Colone Contact St 2043- 45W 277V Districting, Lation* Compact \$8

Propose company Soft Harmer Company Co

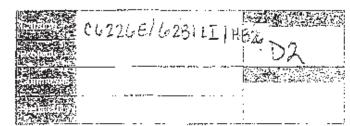
B-Perferosed Black yβ y Grey Elabet, W Finable name

Company

HERRY A Kanger, 201 Long. Per HB50-C Chanbel Yar Ranger, SC* Long, Pair RMB22-Wade Jois, Sai Manger, 22* Long, Pair SIGNATION CONTRIBUTED FOR GO di Ano

Đ

Low brightness 5" aparture cross blode for use with (2) 18W or 25W good compact frontescent lamps. Reflector from eliminates brightness at higher Applies. Standard reditures include low initiations, finish on all reflectors. Ventrop ansures maximum tamp lite and turner output. Open downlight, tens, and open wall wash tribus are interchangewise within the same housing.



SPECIFICATION FEATURES

A ... Reflector

Clear upper Apak reflector for majornam ausput, Postave reflector represting, without tools, pulls from tions to ceiling.

B ... Louver

Option 8: Lower soun parabolic inflector with 80° crops brades. well this manifestal said; 080, moescert class Altak kalah ar painted white. Other finish options evaltable upon reducat. Oppos 6: Lower sove parabolic reflector parated white with 90° perforated cross biades, .050 thick aluminum, gainted gray.

C ... Socket Connector

One place die cast aluminum connection allows venting for maximum thermal performance.

D ... Housing Mounting Frame

One precepted and ideast atuminum 1 1/2" deep collar. accommonates varying dimensions of sailing materials,

£ ... Universal Mounting

Accepts 1/2" EMF, C Channel, Tiber. fasteners, and bar hangers. Appliets 5" vertically from above or below esiling.

F ... Conduit Fittings

Die oper serew tignt benneeters.

G ... Junction Box

Listed for eight #12AWG Hour in, four edd 96 degree sanductors. feed through branch wiring, 1/2" and two 3/4" pry cuts. Positioned to allow straight conduit runn. Access to junction box by cembaring reflectes.

II ... Socket

25W (amos: 4 pin @2493 base. 18W lamps: 4-ppp G\$4c\$ base. Bases have labour free stambuss steel lamp spring ensures positive jamp retention.

l ... Electronic Ballast

Electronic ballast provides full light output and rated famp life. Provides Singled tree and noted through operation und starting. End of Japan life protection is standard.

Labels

etitus jisted, C.S.A. certified, Damp sabel IBFW union made.

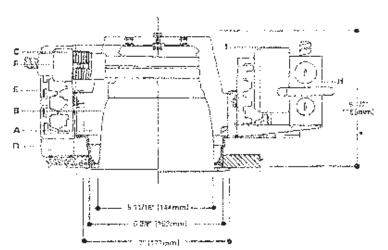


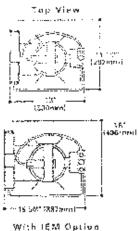
C6218, C6226 6281

(2) 18W Quad (2) 26W Quad Compact Fluorescent

er caoss alabe

xx5, xx6





L. Grey Mindler W. Fin su gray)

Enorgy Cars r**FW Gund +**-pin Ballasa Medicinik 12th Input Warts 19, time Americ 0.40-273 higher Walts 15, Line Americ 0.07 Preyest Participality THE RICH TOUGHT STOCKS TO STOCKS TO STOCKS TO STOCKS TO STOCKS TO STOCKS TO STOCK TO STOCKS TO STOCK T

26W Shied Alpin Baller, Electionic \$20% Input Watto 77, sine Amyro: 0.79 277 i-spor Wests, 27, Lone Armos, 17,09-Fower Fatter 5,25 THO: 618% Mits, Startling Temps - (5250) Somes Ramp; A

Comingnic Efficacy Sating: 00218-628321-20136

Hanger, \$01 Units., Per

RMBIJAWood Loss 841 Hanger, 22 Jong, Fair F85 shiple installed hase Kit.

NOTES:

Accessories should be ordered apparently.
See additional options issues commonly. your Gazaer Lighting Representative Alger is a registered trademark of Automotive Commonly of America Holloropia: a consiered tradepoors of Lemon Electronics Collins

OHDERING INFORMATION: Complete pair gaugings of housing, butless and seem.

dide: 7 lenner EMERGING SEASON INDUSTRIES with remails and switch

104176V Duporng, 19tron's German SE 204777V Dimming, Column's General SS

Finish .. u WYBI Options Aucessories Options ዝይፈራ മാ SE215=(2) 1899 CP-Carsago Planero WE While 5-1000 2700 smas G2B3 -Helvestor. Live.ow Moercens NABigne (U.e. W) HB26+C Colembel Sar Hander, 2011 and, Peli 영화하는 Channel Sar Ny Electronia GE+047Y-50/70 Hi Creat Wi-Write Мислику Биойн Билаги . Beetrangaj 970 oneiron SCalife theileans for Mi-Caw Sell Hanged Painted Bange (Self Comit Statesonis (\$17) Sentaning 2CMSeT Tarmin Massier Setablic 17 hayrangs. †ie4freitee 5×2e/foamon filede Alegand

a **confide** algorithy new.codopplichtnessee

4.1 AUSign

Specifications and Dimonsions subject to change without notice,

Type: X7 Hapawill school # EXTITORWSD

COOPER LIGHTING - SURE-LITES®

DESGRAPTION

The CX CCD Die Cast Approximate 5xx combines the strength and durability of die castotic with the bright even Berninguos of LED lamp. sources. Unlike competitive Dedissioning a systematical stimulation do) effect from protruding diades, the CX LED offers unecostled uniform illumination and originoss. The CX LED comes standard with the Wateriguard EMS solf-diagnostic system insuming fixture reliability and requaling maintenance: custo.



CX SERIES

Cust Alyminem Exits Seriaco Moopt AC Only Self-Powered LED Lamps

EXECUSERTING

- Dial-voltage legat 120/277 VAC, 60 Hz, isolation transformer
- Watchgujun SMS
 Soff Diagnostic System (CX7 Only)
- Persoato AC power connectors facilitate installation
- Self-powered Exits reature line-farching, solid-state voltage limited charges, low-voltage disconnect, brownout chauft, overload/ahort-creat protection, test switch/ power indicator light
- Die bast attnehmen nausing
- Die cast canopy anderded
- Universal pagern indokouts on rear of single face housing for direct mounting to junction pox
 - Knockout previoed on housing for sorface attachment
- Exit can be universally covernment online; exist or end
- NEPA 101 compliant knockput blevroed allow quick conversion to directional signs
- LEO lamp provides uniform high) output
- AG LED, Long life LRD (amps) DD: LED DC Lamps
- Damp Location History IAC Only), UL 924 Crested, CSA Chieffed, Life Safety NF PA 101, NEC/OSHA, Energy Star Listed, AC Only-UL FT8R when specified with the "YE" potion, most state and local codes isotrable for floor proximate installation.

1Sure-Liscs™ 20342

GIMENSIONS

WatchGuard EMS

I prize atter Meaning

6 Steven Flow Course

9 Flow High Charter

9 G G Bearry Fairon

G Finale Bigl-Chatoc G G Senery Failur G-FR G Chroni Famili-G-FR-G-G Chatock TEST (NDICATOR) Self-Diagnostics

The soft-diagnostic unit will unto metically perform all tents required to ULS24, and NFPA RC1. The system indicates the status of this exit of all times using the LFD indicator meanths to essisting to the side of the met. A 30 minute battery cower (emergency more) simulation test will occur removally energy environs as mention.

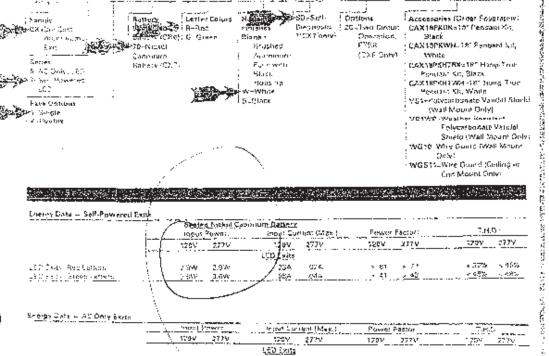
A 30 second pattery power signifiation test will occur every 36 days. The charger function is tested upon unital power-up and after every battery discharge evide hereafter. The EXIT lamp probes and AC/DC power transfer british is monitored continuously.

The charging mode is also monitored. The unit goes not a high charge meet for 24 hours the first time AC power is applied and when a displaying course, the Dattery voltage to full below its nominal value. Propang the lest switch chasses the shift to use battery power and toot the bettery aments for AD accords.

The LED profestor is off when the upit is in the emergonor morts and an continuously ween the unit is fully charged. The LED blinks when the onst is in the high charge mode, it blinks twice (then repeats) when the battery needs to be replaced, at if it is disconnected. It blinks three times if there is a circuit brain (charges or AC/DC transfer function) failure, and foretimes if not only at the EXC tamps fail.



ORDEHING INFORMATION
SANTA COMPANY CONTRACTOR



Ben Aring

From:

Veronica Gayotin [veronica.gayotin@lakotaonline.com]

Sent:

Thursday, July 07, 2011 7:58 AM

To:

Robert Fischer

Subject:

RE: Duke Question - READ FIRST

Bob, I grouped the query based on acct # do you know the building numbers (the last two digits followed by a zero)?

The account number will start with 004 (shown at the top of the report).

07 Wyandot (Summerlin)

<u>08 Endeavor (Smith)</u>

12 Hopewell

31 West Freshman

32 West

33 East

34 East Freshman

Acct # 003 is LWC

06 New Union

Let me know if this helps. I believe I can break the report down further by adding a line in the query for each building, would you prefer that?

Veronica Gayotin

Lakota Local Schools - Business Operations 5572 Princeton Road Liberty Township, OH 45011 513.644.1172 or Ext 22021 513.644.1183 Pax



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From: Robert Fischer [mailto:robert.fischer@lakotaonline.com]

Sent: Thursday, July 07, 2011 7:18 AM

To: Veronica Gayotin

Subject: RE: Duke Question - READ FIRST

Hopewell PoP #12



HON

LAKOTA LOCAL SCHOOLS, BUTLER COUNTY, OH VENDOR PAYMENT RISTORY

PAGE NUMBER: ACCTPA31

1

IA: ((((transact.vend_no = "8745")) AND ((transact.key_orgn MATCHES "004")) AND ((transact.ck_date >= "2006-12-3")) AND ((transact.ck_date >= "2006-12-3"))

DORR00	INVOICE PURCHASE	1099 OR P/F	CHECK NO DATE	BUDGET UNIT #2 PROJECT	DESCRIPTIONCONTROL	SALES TAX	AMOUNT
COUNTY ELECTRIC	1 HE 07006435	N P	120609 02/23/07	0042005550000 <u>120</u> -620	BID PACKAGE # 5 - ELECT AEG0222	0.00	16421.08
COUNTY ELECTRIC	07004531	P	120609 02/23/07	0042005550000340-620	BASE BID - PACKAGE 2 BL AEG0222	0,00	16296.12
COUNTY ELECTRIC	07004531 2 HE	N P	120609 02/23/07	D042005550000 <u>120</u> -620	ALTERNATE # 6 HOPEWELL ABG0222	0.00	8887.16
COUNTY ELECTRIC	07006435 4 FS	N P	121945 03/30/07	0042005550000120-620	BID FACKAGE # 5 - ELECT AEG0329	0.00	45894.48
COUNTY ELECTRIC		N	121945 03/30/07	0042005550000340-620	BASE BID - PACKAGE 2 EL AEG0329	0.00	4439.11
COUNTY ELECTRIC		N P	121945 03/30/07	0042005550000120-620	ALTERNATE # 6 HOPEWELL, ABG0329	0.00	2418.15
COUNTY ELECTRIC	07006435 4 HE	<u>P</u>	04/26/07	0042005550000120-620	BID PACKAGE # 5 - ELECT AEG0426	0.00	9800.20
COUNTY ELECTRIC		P	05/29/07	0042005550000120-620	BIO PACKAGE # 5 - ELECT BAY0529	0.00	18255,84
COUNTY ELECTRIC		_P	06/21/07	0042005550000120-620	BID PACKAGE # 5 - ELECT AEG0621	0.00	54214.68
COUNTY ELECTRIC	07006435 7 HE	_P	<u>07731/0</u> 7	0042005550000 <u>12</u> 0-620	BIO PACKAGE # 5 - ELECT AEG0731	0.00	56362,42
COUNTY ELECTRIC	07006435 8 HE	ė	08/31/07	0042005550000 <u>120</u> -620	BIO PACKAGE # 5 - ELECT AEG0830	0.00	26502.90
COUNTY ELECTRIC	9 HR	P	09/27/07	0042005550000 <u>12</u> 0-620 0042005550000120-620	BIO PACKAGE # 5 - ELECT AEG0927	0.00	40571.86
COUNTY ELECTRIC	10 HE	_P	11/30/07	0042005550000120-620	BID PACKAGE # 5 - BLECT AEG1129	0.00	28412.43
COUNTY ELECTRIC	07006435		03/27/08	204*0423208001X0-850	BID PACKAGE # 5 - RIECT AEG0327	0.00	2680.DO
						0.00	331351.43
						0.00	331351.43

Hopewell PoP #12

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LAKOTA LOCAL SCHOOLS, BUTLER COUNTY, OH VENDOR PAYMENT HISTORY

PAGE NUMBER:

ACCTPA31

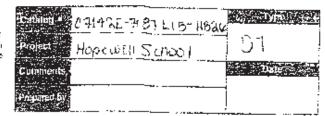
IA: { (((transact.vend_no = "1725")) AND ((transact.key_orgn MATCHES "004*")) AND ((transact.ck_date >= "2006-12-3")) AND ((transact.ck_date >= "2006-12-3"))

DOR	INVOICE PURCHASE			BUDGET UNIT #2 PROJECT	CONTROL	SALES TAX	AMOUNT
	8 SM	NE	119147	0042005550000070~620	3.1C - PLUMBING PACKAGE AEG0125	0.00	26425.20
P ENTERPRISE, I	8 50	9 19	01/25/07 119147	0042005550000080-620	3.1C PLUMBING PACKAGE	0.00	26002,88
P ENTERPRISE, I	06008220 9 SM	P	01/25/07 120652	0042005550000070-620	AEG0125 3.1C - PLUMBING PACKAGE	0.00	29296.60
P ENTERPRISE, I	06008219 9 SU	P	02/27/07 120652	0042005550000080-620	AEG0228 3.1C PLUMBING PACKAGE	0.00	28708.60
P ENTERPRISE, 1	06008220	P	02/27/07		AEG0228		6812.00
P ENTERPRISE, I	1 HE 07006430	N P	121966 03/30/07	0042005550000120-620	BID PACKAGE # 4 HVAC AEG0329	0.00	
P ENTERPRISE, I	10 50 06008219	N P	121966	0042005550000070~620	3.1C - PLUMBING PACKAGE AEG0329	0.00	32182,60
·	io su	Ы	121966	0042005550000080-620	3,1C PLUMBING PACKAGE	0.00	15920.60
P ENTERPRISE, I	11 SM	Ŋ	03/30/07	0042005550000070-620	AEG0329 3.10 - PLUMBING PACKAGE	0.00	94176.80
P ENTERPRISE, I	06008219 11 80	P N	04/26/07 123014	0042005550000080-620	AEG0426 3.10 PLUMBING PACKAGE	0.00	105846.00
P ENTERPRISE, 1	06008220	<u> </u>	.04/26/07		AEG0426		
P ENTERPRISE. I	2 HE 07006430	И 	123014 04/26/07	0042005550000 <u>12</u> 0-620	BID PACKAGE # 4 HVAC AEG0426	0.00	5100,00
P ENTERPRISE, T	12 SM	N P	124431 05/29/07	0042005550000070-620	3.1C - PLOMBING PACKAGE AEG0529	0.00	16304.00
	12 50	39	124431	0042005550000080-620	3.1C PLUMBING PACKAGE	0.00	14726.88
1	06008220 3 HE	P	05/29/p7 124431	0042005550000120-620	AEG0529 BID PACKAGE # 4 HVAC	0.00	121986.40
P ENTERPRISE, I	07006430 13 SM	. <u>P</u>	05/29/07 125688	0042005550000070-620	BAY0529 3.1C - PLUMBING PACKAGE	0.00	7781,00
P ENTERPRISE, I	06008219	P	06/21/07		AEG0621		
P ENTERPRISE, Í	13 SU 06008220_	М	125688 <u>06/21/07</u>	0042005550000080-620	3.1C PLUMBING PACKAGE AEG0621	0.00	7781.00
e enterprise, t	4 HE	N P	125688	0042005550000120-620	BID PACKAGE # 4 HVAC AEG0621	0.00	38063.00
1	SHE	N	126571	00420055500001 <u>2</u> 0-620	BID PACKAGE # 4 HVAC	0.00	51612.00
P ENTERPRISE, T	14 SM	P N	07/31/07 127669	0042005550000070-620	AEG0731 3.10 - PLUMBING PACKAGE	0.00	1060.00
P ENTERPRISE, I	06008219 15 SM	P N	08/31/07 127669	0042005550000070-620	AEG0830 3.1C - PLUMBING PACKAGE	0.00	844,20
e enterprise, i	06008219	F	08/31/07		AEG0830		
P ENTERPRISE, I	15 SV 06008220	N E	127669 08/31/07	0042005550000080-620	3.1C PLUMBING PACKAGE AFG0830	0.00	1747.32
P ENTERPRISE, I	6 HE 07006430	N P	127669 08/31/07	0042005550000120-620	BID PACKAGE # 4 HVAC AEG0830	0.00	38243.80
1	7 KE	N	128768	0042005550000120-620	BID PACKAGE # 4 HVAC	0.00	55684.20
P ENTERPRISE, I	07006430 8 RB	N E	09/27/07 136288	0042005550000120-620	AEG0927 BID PACKAGE # 4 HVAC	0.00	18235.00
P ENTERPRISE, I	07006430 1 LB	P N	02/28/08	0042005550000130-620	AEG0228 LIBERTY ECS RENOVATIONS	0.00	29152,00
P ENTERPRISE, 1	08009651	P	07/31/08		AEG0731		
P ENTERPRISE, I	1 WES 08009652	N P	142615 07/31/08	0042005550000310-620	WEST FRESHMAN RENOVATIO AEG0731	0.00	87402.80

E 07/06/2011 TIME 17:22:24

SUNGARD PENTAMATION - FINANCE PLUS FINANCIAL ACCOUNTING

Low brightness 7-3/8" apendre cross blade for lish with a 25W, 32W or 42W Triple Twin Tuhn compact thiorescent lamp. Sefector time obminates origithess at higher angles. One electronic ballast to operate 26VV, \$22V and 42W tripse tube 4-plin Jamps. Venting ensures recommon lamp tito and lumen cutout. Open dewalight, lons, and open was wast form are interchargegate within the same anusing.



SPECIFICATION FEATURES

A ... Beffector

Giour support Mook® reflector for mustimum nutrial. Positive reflector mounting Volhout tools, pulls from tight to easing.

Dotton 5: Lower spuri parabolic reflected with 90° processioner. 080 tinek ajumenum with row increspons clear Alzay troubless parated white. Other finish petigns. available woon temiest. Cotion 6: Lower spun parabolic collector painted white with 50° neiforated cross bindes, 1050 thick atteninum, painted gray.

B ... Trim Alog Options Seit Ranged reflector

- 100 04e

C ... Socket Connector One piece dia cast aluminum connection allows vention for reasonum mermal performance.

D ... Housing Mounting Frame

One biece precision his such alumatur 1-3/75 temp collar οροσιπενισωμένες γλεννικής dimensions of sering materials

£ ... Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, Year fasteners, and bar hangers. Adjusts 5" versically from above or helpw

F ... Conduit Fittings

Din cast screw light connectors

G ... Junction Box

Listed for eight #17AWG Hour in, four aux) 90°C conductors feed. thorough branch witting. For 1/21 and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing reflector.

H ... Socket

4 pin GX24r/JV4 base with fatigue free spacings should amp spring ensures positive iams retention.

I ... Baliants

Electronic baltast provides full light. gusput and rated lamb life. Provides Sieker tree and nose from operation and starting, End of lamp life protestion is standard

Laheta

17/13/max

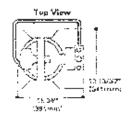
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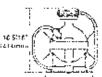
C7142 7181

26W, 32W, 42W Triple Compact Fluorescent

7-3/81 CROSS BLADE

Louves Distinct 6





234 Services With IEM Option

Energy Data 24W Triple 4-pin Bulleau: Electronic

TOW input water 29 Line Ampst 5.21 2777 Apput Water 26, time Ampst 1.65 Person Facence 4.99, THO, ±103, Min. Starting Temp. +1070 (1519) Sound Rating A

22W Triple 4-pin

Edition From Hills Balliant From Hills (14.5, Line America (15) 277V Apail Watts (14.5, Line America (17) Power Factors (16), TID (1654) Mer. Starting Terror. 1010 (1654) Sound Rading America (1670) (1654)

42W Triple 4-pin

Rallant Electronic 120V logot Walter 48 5 ins Ampt. 2.32 777 Hend Watts, 48 Line Arnes, 0.18 Ferent Pactor, 9.95, 740, 4105 Min. Starring Temp. -1215. (15-5) Sound Haring: A

NOTES:

Actionalisto proteid se pricered senarmely. For additional options prepay recent your Column Coming Reproved the Alastics a representation and an Alastics of Company of America.

ORDS BING INFORMATION: Combine pail consists of housing, believe and ritio.

Hayking Finish Boltost Options Trims. LOUVET Options C7142 Constant of the control of the contr Change of the Marketon Union Propagation (S. Blady II) or W. Standard opening Self-Flange of the Control of Mathematical Control of 120V + 7774 MAGE 50 (Fourth) (Fe-Perforance State Not Grev Blades, W Princh desp

Louver Plan View

Total SE-SE / SEMSE No Company the above topol

Leaves Option 5

Tr. 9 001 (2000)2011 nin in Bigget (different)

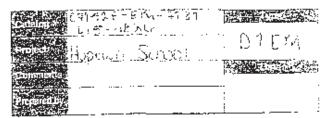
onter

MB26kC Manger, 20" Long, Pair MESGAC Champi San Hanger, 50" Long, Pair RMB22-When John Bai Hampor, 22" Long, Pair PKS—Healt Investigs Fuar Rd,





Low brightness (-1/8) injenure cross black for use with a 25W, 37W or 42W Triple Two Tube compact Suprescent large, Seffector triple obminates prightness at higher angles. One electronic paties, to operate 76W, 32W and 42W flopre time 4-bin lamps, Venting ensures maximum tamp life and turners numed. Open downlaght, lens, and open wall wash times are interchangeaple within the same housing



SPECIFICATION SEATURES

A ... Reflecter

Clean apper Alzakió adfector for makimum autuat. Pontive reflector mounting, without tonis, pulle time signs so collers.

Option 5: Lower spile pasitible refrector with 90° crops brades. 050 thick aluminum with low irinesaeth deur Alfak finisa or painted write. Other finish options available upon request. Option 5: Lower spun parabolic reflector painted white with 90° perforated cross blades, 050 thisx sisteminum, painted gray

B ... Trim Ring Options Self flenged refiretor.

C ... Sacket Connector

Dan place die past aturningfö connection allows venting for maximum thermal performance.

D ... Housing Mounting Frame

One place progressor are dest atomorph "-17" geep collaaccommissiones varying generators of eather, materials.

§ ... Universal Mounting Brocket

Acerps: 1/2" EMT, C Channel, T par tanteners, and ber haugors. Adjusts 5' yerseally fram above or below esiling,

F ... Condult Fittings

Discount acrew upts commetate.

G ... Junction Box

Listed for eight #12AWE (four in. their auty 90°C residuetors feed thorough branch witting, Eur 1/21 and two 2:4" pry outs. Positioned to allow straight conduct runs. Access to lunction box by removing reflector.

H ... Spaket

4 pm 5324p-3/4 base was fatigue. free stainless stool keep sering ensures positive lamp retension.

L., Bellasta

Steetropic ballast provides full light. output and rated famp life Provides likeker free and notes free speration and starting. End of lamp site protection is standard.

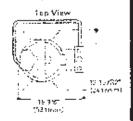
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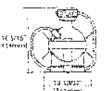
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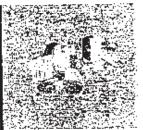


Louver Option 6





With ISM Option



C7142 7181

26W, 3ZW, 42W Triple Compact Buorescent

7-3/01 CROSC GLADE

Energy Data

26W Tabula Aspire 26 W. The pile Apple
Solver Theorems
120 Winger Warts; 25, Line Apple 10.75
1779 Signer Warts; 25, Line Apple 10.75
1779 Signer Warts; 25, Line Apple 10.75
1779 Signer Warts; 25, Line Apple
Man. Storting Temps, 4070 (1577)
Granet Katheli, A.

TOW Triple 4-616

Sames: Messenne gallact Presente 1997 injan weiter 24.5, Love Ameri (0.30 2777 injan Weite (14.5, Love Ameri (1.5) Pensen Factori (159 1712), kiloba Mail Stigituse Ferrer, (15.15, 1751) General Harring, A

42W Triple Opin

Rallout, Eleptrolity 1909 Input Worte 48, Livie Amps. 6-22 27 June Worte 48, Livie Amps. 6-22 27 June Worte 40, 1473 A1014 Min. Startung Tompo -1700 (1512) Brainel Danies, A

NOTES.

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voice Cooper Exhibits Representative. Areas is a regimental transport of Alarmanian Company of America

ORDERING INFORMATION Complete unit aprintes of housens, Callust and from

Extlect Options Trime Finish Fouring

Lasiver Plate Vine



2040 x 47 W 2779 G. mining, Training Compact 54

/ Dom (SWProces) 8 V611264mumi

Wat (22 Jewis)

Locker Option 5

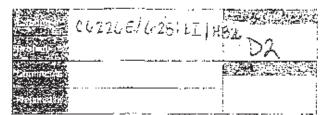
ent in State of the State of th 5 feet / feet de grand de gran Laurentespoera Bissio Tui Gree Bission Wi Erwan en Wi



HB26 1 hanger, 201 long, for MR\$0-0 Chantles for Hamper, 56" spring. Pair GMUDD, Woder July, Ser Manager 221 June**g, Pe**d AND-Freid Installed Fore fol-

Овьериров

Low programme 6" aperture prosp plade for use with (2) 18W or 25W goad. rompact floorescent camps. Reflector from eliminates longotones at higher argues. Standard features include low rideacers finish on all reflectors. Venting ensures maximum lateg the and lumen output. Open cowinger, ions, and open year wash turns are interesting each within his same housing,



SPECIFICATION FEATURES

A ... Beffector

Gear suger Alzak reflector for moximum parput. Pessave reflector recursing without tools, built from nont to ceiling.

B ... Louver

District Friedwick source parabosis reflector with 97" cross biades. wet this municipate soull 550 miglegeent einer Altras fense or samed white Other finish options available upon request Option 6 Lower sons paralighe softester painted write with 90° perturated crass blades, .050 thick aluminism, parefect gray

C ... Socket Connector Und block die dast aluminum

connection allows Venting for tours muni thermas bedformance.

D ... Housing Mounting Frame

One piece programs did east ана балыт 3,30° деер кобро googminingtakes varying ដូចមានក្នុងនេះមាន ទៅ ១៩៨០០ឆ្នាំ ខេង្គមន្តរក្សាភ

E ... Universal Mounting Bracket

Appents NOT EMF, C Channel, 3 purfeaturers and bar nangers. Actuate 8" vertically from above or nelew cylling.

F ... Conduit Fittings

Ole calc screw tight connectors.

G ... Junction Rox

Listed for night #17AWG (four in. tour nuc 90 pegrae conductors. less through braces writing, \$20 and two 3/41 prv outs. Positioned to allow straight conduit runs. Access to junction bux by removing reflector.

R ... Becket

18W lambe, 4 pin G2403 bove 18W lamps Agric G34cg base. Bases nove tatigus free staminus stee) laine sprieg enduces sositive

L., Floctronic Bellest

Electronic naffast provides fielt light output and rated fame life. Provides Siever free and noise free operation and starting. End of taking life profession is utendered.

eDitus tisted, C.S.A. contified, Damp. asbei IBEW union made.

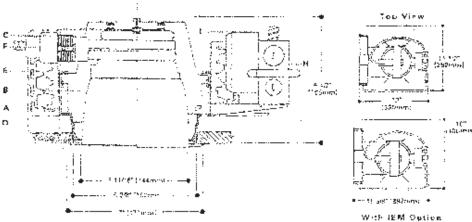


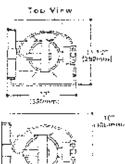
C6218, C6226 6281

xx5, xx6

(2) 1EW Quod (2) 26W Quad Compact Russescent

6" CROSS BLADE





amire

Somethings and

Enpray Date 18W Quad 4 bin Bullett Bleetings 1200 ingel Wath 18 flow Amps: 9.03 277 irreput Watte 19, Line Amps. 0,01 Stower Ferror: x.35 760. e12% Man Standard Toront (CCC) (516) Sound String A

24W Quad sopin Ballesi, Stephonic (200 Inpid Water 20 June Amost C.52 27) Inga Water 21, Line Amps. 5.69 Pawer Factor 9.86 THO 936% Mile. Stephing Report (1995) (1991)

Şенге **Я**улед: А Comingne Stigage Baying Codesingni (42), no

Manger, 27 Jong, Pair 984-1980 metakes Pope Kit

ŞAhıp

NOTES:

Accessories about ne programa tenormely. Per assertional strikens phoses (2015) di

your College Lighting Representative Aliza is a registrate in tractionaper of Alicentation Companies of America Minimizer in a considerate tradel in our of Laborat Hasingtones Collins.

DROCKING INFORMATION Conscience and consider or necessing

almer 2 Incom-Effectiving ency (stellar)

WIT PRODUCTIONS AND INVICEN

Ballast Новынр Teims Finish Springs Spender CONVEY Ансравотівк (628 t C6226 H626 Post 184 (2) DRV9 communical DEF . 5 1969 (1979) sept Will Wilste 62-Chat spin Own or HBQ6+C Chapmer 2A Honger, 201 Love, Pa-HBB6+C Chapper 8at APRIL Albedie con-Alle Lower restrictions 5-Builde Full by W ж. Знастины ВС+Я+7М № 65 ж. familed Flange (Set) Seft Flamper Marring Book Сівал Межунія process of California and California entron 20kg: Salingtong: Hillow Horigina) Percentum 1D-1001 Detecting 1S-1001 Contact St 2D-1001 Contact St 2D-1001 Contact St Switzmany 24065e0 Francis Magnet Sateliste (Cingrayings) Sefericiales Bage Ol Sea Bloom, W. Altenger. Hanger, \$0" jung. For RMB28-Wyper, June 8a

accepted againg 「中央(中央の代)entitud - en

Specifications and Dimensions subject to change without notice.

ADPOSTMAN

The GC Spries fratures a nominal 4-02" deep pate-apotented fixture noteening, high tellectrony and optioners tomp to ross shutship. The spries produces total uningramy of light in the luminous arise and in compatible with all of moons popular reling systems one is available with a number of options and adversional for application vertications,

A FOUR ATTOM

The specification fundmatic is designed to often maximum efficiency and performance for today's unique interior specifications. The GC Series is an exactlent share for communical office spaces schools. подрамя в готай готарганского меня.

Casalog =	Tytie
14GC 16x40A 195-140V-GM-	1 6
Project TES57- RIF !	44
Community	. / 1
Hopewari School	
Premaren by	ō atc

SPECIFICATION FEATURES

A Constitut

onshiw

Scandelin

Norminal A-1/27 daug, para-consound housing, die formed code gauge, arimo poid rolled steel. Die empleased housing has full longue the formed stiffeners for added ытеліді. Вево "V" пайак/минизу gover easily removed without tools. Die formad paptive lomanoliter oracket felly emiliates limphoider wiring permissing owny lamphoses replacement, History endulates the suggrey agained with interlocking tabs and strows. Four auxiliary \$25 ture end suspension points previoed. KOs for confinences row wring Endplaces have integral Grid-Lock feature for safety and convenience.

B. Cleatrical

Sallasts are CBM/ETC Class "P" and are positively secured. 2011 base simphotoess have depole-edge wining scient pressure quek contacts with her gargally priemes lamp support elips, DC/CDL listed. Stiftshie. to: damp locations.**

C. linish

Multistage, iron phesphate preмеатного! оплител глих/тний: bending and rust inhibitor. Lighting grade, haked white epartici Suiso.

D ... Hinging/Latebres

Розвичь сага эспользопер loaded steel latches with baked white enamel finish. Salety-look T-hinges នើសមាយពេញស្បាននេះ larahing eltiser sain

En Framo/Shielding

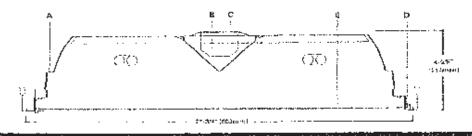
Die fermed, beavy gauge, flat steel door with rendersea. militared corporational based withe pharmel brish, irosolive. hght seath. Light stabilizes 100% virgin acrylic prigmatic snigding. Standard #12 percent. Optional shedoing available.



2GC2BX40

21 X 21 TROPPER RIBAXIAE LAMPS

Specification Deep Frotler



ODOR FRAMES MOUNTING DATA 4-13-5 CAT 115-400 LAMP CONFIGURATIONS 20 april (spanier) SEILING COMPATIBILITY Ceil-re

arage Trans

Same Dasas

With Dispositing

Sua Ora

ME

Wersole: form

Swing GATES

With Suppositions

ENERGY DATA

Ingen Water EB Belleet & STD Larges 22594 0 (07)

STO Bellast & STD Lamps 389840 (02)

Communic Ethanto Strong 1,645 - 30.42 Catalog Number 200-79345

Yearty Quet of #60ft luminal. 3000 hrs at \$3 KWK + \$3,87

" Samual the Sales Tested (# 5. ppm

Arter spens

Tions

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WORK





2GC-2BX40A Cinotronic Sallast P40BX/SPX25/BS Carres 3150 Lumens Spacking adteriors ill) 1.2 x mounting neight (1) 1.4 x insuriting beight Efficiency 74.3% Tast Reports

.458 × FU-62 Yearly Copt of 1000 ipmens, 3000 has at 08 K\VH - \$3,87

2GCZBX40AJES

Coefficients of Utilization

	286	czty	w III	MV 4	aulty	CAF	lod.	àrrec	٠.	21	0%								
14		90	ď.				y	61,			571			for t	4		10%		DrY's
FW	79	90	20	16		70	50	10	10	50	3Ç	10	PÀ	30	١μ	50	ÚĎ	ነስ	-5
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Typical VCP Percentages

	Hengh	# Along	Height	Acres	
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ORDERING INFORMATION

SAMPLE NUMBER: 286-98X4HA-1309-8A51-12

Halling Type 19
Shank-Steindard Magnetic Hallast (Block & 20%)
PT. (\$5] = TS Block Electronic livelent Start
Petrocest Contamination 1995
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SHIPPING INFORMATION <u>равыю Ма,</u> IGC-MX40A 18 //2