

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

Case No.: <u>12</u>-<u>0548</u>EL-EEC

Mercantile Customer: Lakota Schools

Electric Utility: **Duke Energy**

Program Title or

Description: Lighting

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 in accordance with the Commission's pilot program established in Case No. 10-834-EL-POR

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) 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 EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

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.

Any confidential or trade secret information may be submitted to Staff on disc or via email at <u>ee-pdr@puc.state.oh.us</u>.

Section 1: Mercantile Customer Information

Name: Lakota Local Schools

Principal address: 6947 Yankee Rd, Liberty Township 45044

Address of facility for which this energy efficiency program applies:

6040 Princeton Rd, Hamilton Ohio 45011 7630 Bethany Rd, Middletown Ohio 45044 505 Tylersville Rd, Westchester Ohio 45069

Name and telephone number for responses to questions:

Grady Reid, Jr 513-287-1038

Electricity use by the customer (check the box(es) that apply):

- The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)
- ☐ The customer is part of a national account involving multiple facilities in one or more states. (See Attachment 1 Appendix 1)

Section 2: Application Information

- A) The customer is filing this application (choose which applies):
 - □ Individually, without electric utility participation.
 - ✓ Jointly with the electric utility.
- B) The electric utility is: **Duke Energy**
- C) The customer is offering to commit (check any that apply):
 - □ Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
 - □ Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
 - ✓ Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

A \	TT1 1 /	\cdots	• 1	/ 1 1 1 1	1 1 \
A1	The customer's ene	rov efficiency ni	rogram involves	icheck those tr	iat appivi:
 /	THE CUSTOMICE S CITE	16) chilerence p	1061 dilli millori es	(criccit triose tr	ac appropries.

\checkmark	Early replacement of fully functioning equipment with new
	equipment. (Provide the date on which the customer replaced fully
	functioning equipment, and the date on which the customer would
	have replaced such equipment if it had not been replaced early.
	Please include a brief explanation for how the customer 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 The customer installed new equipment on the following date(s):
- ☐ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
- □ Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

1) If you checked the box indicating that the 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: 307,564 kWh gross with losses (See Attachment 1 - Appendix 2)

2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh 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 any less efficient new equipment that was rejected in favor of the more efficient new equipment.

3)	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 was rejected in favor of the more efficient new equipment.
4)	If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Section 4: Demand Reduction/Demand Response Programs

- A) The customer's program involves (check the one that applies):
 - ✓ Coincident peak-demand savings from the customer's energy efficiency program.
 - Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
 - □ Potential peak-demand reduction (check the one that applies):
 - ☐ The customer's 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.
 - ☐ The customer's 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) On what date did the customer initiate its demand reduction program?

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

63.47 KW (See Attachment 1 - Appendix 2)

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) The customer is applying for:
 - ✓ Option 1: A cash rebate reasonable arrangement.

OR

Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

- Commitment payment
- B) The value of the option that the customer is seeking is:
 - Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
 - A cash rebate of \$4920.00 (See Attachment 1 Appendix 3). (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value 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

□ A commitment payment valued at no more than

		\$	(Attach documentation and
		calculations determined.)	showing how this payment amount was
	Ol	R	
		utility's enerider for an program is program. (A ongoing nate the exemption customer with establishing	emption from payment of the electric ergy efficiency/peak demand reduction initial period of 24 months because this part of the customer's ongoing efficiency Attach documentation that establishes the ure of the program.) In order to continue on beyond the initial 24 month period, the ill need to provide a future application additional energy savings and the of the organization's energy efficiency
		Section	6: Cost Effectiveness
	am is cost ef hich applies)		e it has a benefit/cost ratio greater than 1 using the
		•	TRC) Test. The calculated TRC value is:n 1, then skip Subsection 2)
~	-	ix 4) (Skip to	. The calculated UCT value is: (See Attachment 1
Subsec	tion 1: TRC	Test Used (ple	ease fill in all blanks).
	avoided sup distribution)	ply costs (get by the sum o	rogram is calculated by dividing the value of our neration capacity, energy, and any transmission or of our program overhead and installation costs and costs paid by either the customer or the electric
	Th	e electric utili	ty's avoided supply costs were
	Ot	ır program co	sts were
	Th	e incremental	measure 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 \$52,765(See Attachment 1 - Appendix 5).

The utility's program costs were \$3,444(See Attachment 1 - Appendix 6).

The utility's incentive costs/rebate costs were \$4,920(See Attachment 1 - Appendix 3).

Section 7: Additional Information

Please attach the following supporting documentation to this application:

Narrative description of the 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 the program or measure 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 the customer and the electric utility with regard to peak demand reduction;
- 4) permission by the customer 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 the customer 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	e No.:EL-EEC								
State	e of:								
	, Affiant, being duly swo	orn according to law, deposes and says that:							
1.	I am the duly authorized representative of:								
	[insert customer or EDU company name and a	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.								
Sign	ature of Affiant & Title								
Swo	rn and subscribed before me thisday o	f,Month/Year							
Sign	ature of official administering oath	Print Name and Title							
My	commission expires on								

Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email this form along with <u>completed Mercantile Self Direct Prescriptive or Custom applications</u>, proof of payment, energy savings calculations and spec sheets to <u>SelfDirect@Duke-Energy.com</u>. You may also fax to 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please
indicate mercantile qualification:
□ a single Duke Energy Ohio account
☐ multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)
Please list Duke Energy account numbers below (attach listing of multiple accounts an/or billing history for other utilities as required):

Account Number	Annual Usage	Account Number	Annual Usage
1270-0493-20	512,800 kWh		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart \$aver® Custom Incentive. Self Direct incentives are applicable to Prescriptive measures that were installed more than 90 days prior to submission to Duke Energy and have not previously received a Duke Energy Prescriptive rebate.

Self Direct Program requirements dictate that certain projects that may be Prescriptive in nature under the Smart \$aver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart \$aver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion of the following program requirements:

^{*} If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction		
	MSD Custom Part 1 □	MSD Prescriptive Lighting ☐	MSD Prescriptive Lighting ⊠		
Lighting	Custom Lighting Worksheet	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐		
Heating & Cooling	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Prescriptive Heating & Cooling MSD Custom Part 1 MSD Custom General Worksheet		
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐	MSD Prescriptive Heating & Cooling □	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐		
Chillers &	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Chillers & Thermal Storage ☐		
Thermal Storage	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐		
	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Motors, Pumps & Drives □		
Motors & Pumps	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐		
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives □	MSD Custom Part 1 ☐		
VFDS	Not Applicable	MSD Custom Part 1 ☐ MSD Custom VFD Worksheet ☐	MSD Custom VFD Worksheet		
	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Food Service		
Food Service	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐		
	MSD Custom Part 1	MSD Prescriptive Process	MSD Custom Part 1 ☐		
Process	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom General Worksheet		
Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐		
Behavioral*** & No/Low Cost		MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐			

^{**} Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

^{***} Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

^{****} Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with a	Il required documents to	SelfDirect@duke-energy.com or fax to 513-419-5572.
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Is this a	pplication:	_ NI	EW (original) or	⊠ RE\	/ISED (changes	made to	origir	nal applica	<mark>ation)</mark>		
Building Type – Require	d (check d	one)									
☐ Data Centers	☐ Full Service	☐ Full Service Restaurant				Office					
☑ Education/K-12			☐ Healthcare] Public	Assembly		
☐ Education Other			☐ Industrial	☐ Industrial				Public Order/Safety			
☐ Elder Care/Nursing Ho	me		Lodging					Religious Worship/Church			
☐ Food Sales/Grocery			☐ Retail (Sma	all Box)				Service			
☐ Fast Food Restaurant			Retail (Big I	Box)				☐ Warehouse			
Other:			,								
How did you hear about	the progr	am? (ch	eck one)								
☐ Duke Energy Represe	ntative		☐ Web Site] Radio			
☐ Contractor / Vendor			Other				_				
Please check each box to	indicate co	ompletio	n of the following p	rogram re	equirements:						
All sections of applicat		Invo	pice with make, moder, quantity and		⊠ Tax ID numb	er for pa	ayee	D		vendor agree to Conditions	
			ipment manufacture	er					Terris and	Conditions	
Customer Information											
Customer/Business		Lakota	City Schools		Contact				Robert Fisch	ner	
Phone		513-777	7-3316		Account Num	ber			1270-0493-20		
Street Address (Where in	centive sho	ould be n	nailed)		6947 Yankee	Rd					
City			Township		State	Ohio	0		Zip Code	45044	
Installation Street Address	S		rinceton Road			- I			l		
City		Liberty	Township		State	Ohio	0		Zip Code 45011		
E-mail Address			fischer@lakotaonl	ine.com		ı				I	
*Failure to provide the acc	ount numbe	er associ	ated with the locatio	n where t	the installation t	ook plac	e wil	l result in	rejection of th	e application.	
Vendor Information											
Vendor		Plug Si	mart		Contact	Contact Lucas Dixon					
Phone		614-580	0-3352		Fax			614-453-5743			
Street Address		1275 K	innear Road Suite	229							
City		Columb	ous		State	Ohi	0		Zip Code	43212	
E-mail Address		lucas.d	lixon@plugsmart.c	com		<u> </u>				'	
If Duke Energy has ques	stions abo				e contact?	□ C	usto	mer	⊠ Vendo	or	
Payment Information											
Who should receive incen	tive payme	ent?				☐ Ven	ndor (Custome	er must sign be	elow)	
I hereby authorize payme	nt of incent	tive	Customer Signatur	e (writter	n signature)						
directly to the vendor:			Date								
Provide Tax ID Number for	r Payee		Customer Tax ID #	:	31-6000897		0897	,			
			Vendor Tax ID #			26-2368277		,			
Terms and Conditions											
I have read and hereby ag	aree to the	Tormo	Conditions and Dr	ogram P	equirements						
	9166 10 1116	1611112	x Conditions and Pr		equirements. /endor Signatui	ro					
Customer Signature						i e					
Date					Date						

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to 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.

NOTE. All Fixtures must be installed muo	ors, with the exception of Traini	c and re	uestriai	oigilais a	ila Wilele	Other Wise	noteu.
Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps a	are eligible for incentives based on the	total meas	sured leng	gth of the lan	np.)		
T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only)	Ballast model#	\$3.50		Hrs.			
	Lamp model #						
T8 8ft 1 lamp replacing T12 8ft 1 lamp (retrofit only)	Ballast model#	\$2.50		Hrs.			
T8 4ft 4 lamp	Lamp model # Ballast model#	ФГ Г О	-				
replacing T12 4ft 4 lamp (retrofit only)	Lamp model #	\$5.50		Hrs.			
T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model#	\$2.00		Hrs.			
	Lamp model #						
T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 3ft 4 lamp replacing T12 3ft 4 lamp (retrofit only)	Ballast model#	\$5.00		Hrs.			
	Lamp model #						
T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only)	Ballast model#	\$3.25		Hrs.			
T0.0(1.0.1	Lamp model #	#0.00					
T8 3ft 2 lamp replacing T12 3ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp	Ballast model#	\$1.50					
replacing T12 3ft 1 lamp (retrofit only)	Lamp model #	Ψ1.50		Hrs.			
T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only)	Ballast model#	\$3.00		Hrs.			
	Lamp model #						
T8 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only)	Ballast model#	\$2.10		Hrs.			
T0.0% 0.1	Lamp model #	00.00	1	-	-		
T8 2ft 2 lamp replacing T12 2ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 1 lamp (retrofit only)	Ballast model#	\$1.50		Hrs.			
	Lamp model #						

- · 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 load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 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 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps a	re eligible for incentives based on the	total meas	sured leng	gth of the lan	np.)		
T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$7.00		Hrs.			
T8 HB 4ft 3L replacing 150-249W HID(retrofit only)	Ballast model# Lamp model #	\$15.00		Hrs.			
T8 HB 4ft 4L a replacing 250-399W HID(retrofit only)	Ballast model# Lamp model #	\$20.00		Hrs.			
T8 HB 4ft 6L replacing 400-999W HID (retrofit only)	Ballast model# Lamp model #	\$25.00		Hrs.			
T8 HB 4ft 8L replacing a 400-999W HID(retrofit only)	Ballast model# Lamp model #	\$20.00		Hrs.			
2 fixtures – T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 for 1 replacement (retrofit only)	Ballast model# Lamp model #	\$60.00		Hrs.			

- Replacement must result in energy savings to qualify.
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- 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 load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 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 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Fixtures must be permanently retrofitted to the lamp count specified. Reflectors may be utilized to maintain necessary lighting levels.	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 with delamping	•	•		•		,	
T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		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%.
- 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 load.
- 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.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T12 8ft and 4ft fixture replaced by T8 High Replace T12 and T12 HO 8' fixtures with High performance T8 qualified product list found or	Performance T8 4ft lamps and ballast. A	pproved lan	nps and	ballasts must	be listed on	the CEE Hi	gh
High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture	Ballast model# Lamp model #	\$5.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture	Ballast model# Lamp model #	\$5.00		Hrs.			
High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 lamp fixture	Ballast model# Lamp model #	\$10.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture	Ballast model# Lamp model #	\$12.50		Hrs.			
High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp	Ballast model# Lamp model #	\$3.00		Hrs.			
High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp	Ballast model# Lamp model #	\$4.00		Hrs.			
High Performance T8 4ft 3 lamp fixture replacing T12 4 ft 3 lamp	Ballast model# Lamp model #	\$6.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 4 ft 4 lamp	Ballast model# Lamp model #	\$8.00		Hrs.			
T-12 4ft fixture replaced by Reduced Watta Replace standard T12 systems with 4' 25W la from CEE reduced-wattage approved list. To compatibility varies; consult manufacturer's lit.	mps, 28W lamps, and approved CEE ball view the CEE Reduced Wattage T8 qualif	ast. In orde ied product	r to quali list, go to	fy for incention www.cee1.c	ves, bulbs an org. Note : Re	d ballasts meduced Wat	nust be t T8
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp – 34 W	Ballast model# Lamp model #	\$4.00		Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28 W or less & ballast replacing standard T12 4 ft 2 lamp – 34 W	Ballast model# Lamp model #	\$5.00		Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballast replacing standard T12 4 ft 3 lamp – 34 W	Ballast model# Lamp model #	\$7.00		Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28 W or less & ballast replacing standard T12 4 ft 4 lamp – 34 W	Ballast model# Lamp model #	\$9.00		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%.
- 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 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 watt T8 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 undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



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Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced with T5 Electronic Ba	allasts						
T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.			
T5 4ft (28 watt) 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model#	\$4.00		Hrs.			
T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Lamp model # Ballast model# Lamp model #	\$5.00		Hrs.			
T5 4ft (28 watt) 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.00		Hrs.			
T5 HO 4ft 1 (54 watt) lamp replacing 34W T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.			
T5 HO 4ft 2 (54 watt) lamp replacing 34W T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.			
T5 HO 4ft 4 (54 watt) lamp replacing 60W T12 8ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.			
T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.			
T5 HO HB 2L replacing 150-249W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$15.00		Hrs.			
T5 HO HB 3L replacing 250-399W HID(retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.			
T5 HO HB 4L replacing 400-999W HID(retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$25.00		Hrs.			
T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.			
T5 HO HB 8L replacing 750-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$37.50		Hrs.			
2 fixtures – T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$60.00		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-5 lamps.
- Ballasts shall have a power factor greater than 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 load.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes 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%. Manufacturers 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-8 Fixtures replaced by High Performance Replace standard T8 systems with High Perfo T8 qualified product list found on the web at w	rmance T8 4ft lamps and ballast. Appre	oved lamps a	and ballasi	s must be lis	ted on the Cl	EE High pe	erformance
T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 4ft High Performance 2 lamp & ballast replacing standard T8 4ft 2 lamp fixture	Ballast model# Lamp model #	\$3.00		Hrs.			
T8 4ft High Performance 3 lamp & ballast replacing standard T8 4ft 3 lamp fixture	Ballast model# Lamp model #	\$3.10		Hrs.			
T8 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture	Ballast model# Lamp model #	\$6.00		Hrs.			
T-8 Fixtures replaced by Reduced Wattage Replace standard T8 systems with 4' 25W lan or less. In order to qualify for incentives bulbs qualified product list, go to www.cee1.org . No	nps, 28W lamps approved CEE ballast and ballasts must be from CEE reduce	ed-wattage ap	oproved lis	st. To view the	e CEE Reduc	ced Wattag	ge T8
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp – 32W	Ballast model# Lamp model #	\$2.00		Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing standard T8 4ft 2 lamp – 32W	Ballast model# Lamp model #	\$3.00		Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28W or less & ballast replacing standard T8 4ft 3 lamp – 32W	Ballast model# Lamp model #	\$5.00		Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4 lamp – 32W	Ballast model# Lamp model #	\$6.00		Hrs.			
Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less	Ballast model# Lamp model #	\$2.50 / 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%.
- 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 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.
- Reduced watt T8 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 undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



CFL Lamps and Fixtures	Incentive	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
42W 8 lamp HB CFL replacing 400W HID (retrofit only) Model Number	\$25.00		Hrs.			
CFL – Screw In (lamp only) replacing an incandescent (retrofit only) Model Number	\$0.75 / lamp		Hrs.			
CFL – Screw-In dimmable or 3-way bulb replacing an incandescent dimmable or 3-way bulb (retrofit only) Model Number	\$1.00 / lamp		Hrs.			
CFL – Hardwired Fixture replacing incandescent fixture (only pin based CFL's qualify) Model Number	\$5.00 / fixture		Hrs.			
Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only) Model Number	\$1.50 / lamp		Hrs.			
33W – 115W CFL lamp replacing 100 W or more incandescent Model Number	\$2.50 / lamp		Hrs.			
Energy Star LED Lamps						
Replace incandescent bulbs with Energy Star LED (retrofit only) LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify. http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_pdf Model Number	\$5.00 / lamp		Hrs.			
Replace 60-100W incandescent with ENERGY STAR qualified LED downlight 18 Watts or less. (retrofit 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?fuseaction=ssl.display_products_com_pd. Model Number	\$7.50 / fixture		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. 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.



Metal Halide				
320W Pulse Start Halide replacing 400W HID (retrofit only) **check one □R □FE Model Number	\$12.50	Hrs.		
Ceramic Metal Halide				
20W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 100 W Model Number	\$15.00	Hrs.		
39W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 150 W Model Number	\$15.00	Hrs.		
50W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 195W Model Number	\$15.00	Hrs.		
70W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 225W Model Number	\$15.00	Hrs.		
100W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 270W Model Number	\$15.00	Hrs.		
150W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 360W Model Number	\$15.00	Hrs.		
25 W or less Ceramic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light Model Number	\$5.00/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.
- 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 hallast.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Measure	Incentive	Qty	Annual Operating Hrs (minimum of 1800)	cost	Date Installed and Operable (mm/yy)	Total Incentive
21" Tubular Skylight/Light 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 □FE Model Number	\$37.50 / fixture					
LED Exit Signs (replacing or retrofitting existing incandescent or compact fluorescent exit sign) Check one □R □NC □FE Model Number	\$5.00 / fixture					
LED Lighting In Reach-in Freezer or Cooler Case (replacing fluorescent fixtures) Model Number	\$25.00 / door					
LED Case Lighting Sensor Controls Check one □R □NC □FE Model Number Model Number	5.00 / sensor					
Under 500 W connected to sensor check one ⊠R □NC □FE Model Number	\$10.00 / sensor	51	2100	\$8,160.00	06/2008	\$510.00
Over 500 W connected to sensor check one ⊠R □NC □FE Model Number	\$20.00 / sensor	67	2100	\$10,720.00	06/2008	\$1,340.00

- 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.
- 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 Sensors (under 500W) installed on or built into High Bay fixtures are eligible for incentives.
- LED Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in lieu 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 be removed.
- LED case lighting system must be a permanently installed luminaire. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.
- LED Case Lighting Sensor Controls may only be installed with LED lighting systems. End of aisle and individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Outdoor Lighting	Incentive	Qty	Annual Operating Hrs (minimum of 1800)	Date Installed and Operable (mm/yy)	Total Incentive
Exterior LED or Induction fixture replacing up to 175W HID Model Number	\$20 / fixture				
Exterior LED or Induction fixture replacing 176W – 250W HID Model Number	\$25 / fixture				
Exterior LED or Induction fixture replacing 251W – 400W HID Model Number	\$40 / fixture				
Exterior LED or Induction fixture replacing > 400 W HID Model Number	\$75/ fixture				
Garage LED or Induction fixture replacing up to 175 W HID Model Number	\$50/ fixture				
Garage LED or Induction fixture replacing 176W – 250W HID Model Number	\$75/ fixture				
Garage LED or Induction fixture replacing 251W – 400 W HID Model Number	\$125/ fixture				
Garage LED or Induction fixture replacing > 400 W HID Model Number	\$200/ fixture				
LED Auto Traffic Signals (replacing incandescent) Model Number	\$6.25 / lamp				
LED Pedestrian Signals (replacing incandescent) Model Number	\$12.50/ 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?fuseaction=ssl.display_products_com_pdf
 - http://www.designlights.org/documents/NEEPDLCQPL.xls
- Traffic and pedestrian signals using LED lights must replace conventional incandescent signals.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



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 alternative supplier are eligible to participate.
- Incentive will not be paid 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.
- 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 ineligible.
- 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 filing. 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 taxes. 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).

- Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
- Review program and equipment requirements on the incentive application. (Page7)
- Purchase and install eligible energy-efficient equipment. 3.
- Complete and submit application for equipment that was installed after 1/1/2008.
- 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:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. 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.
 - C. 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.
- Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
- Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
- 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.



Mercantile Self Direct Rebate Program **Requirements for Vendor Participation**

Program Overview

- Duke Energy offers it's eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to 513-419-5572.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies - only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in it's sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.



Mercantile Self Direct Incentive Program

Technology	Responsible for sales and not installs*	Responsible for sales and Installation*	Technology	Responsible fo sales and not installs*	r Responsible for sales and Installation*
Lighting			Thermal Storage		
Heating Ventilation			Pumps/Motors/VFD's		—
& Cooling			T dirips/Motors/ VI D 3		
Food Service			Chillers		
Water Heating		in .	Refrigeration		
Process Equipment			Window Film		
(air compressors, injection molding, etc.)					
* Check all that apply	•				
requirements set forth there accurate to the best of my laccurate. I agree that any conformation, will be used for	d the Mercantile Self Dein. By signing this agr knowledge. I hereby re confidential information r the sole purpose of fa	eement, I agree to pro present and warrant to concerning my custo acilitating the custome	ovide my customers with in hat the Tax ID and Vendomer, including but not liming a participation in the Me	nformation and do or Tax Status provited to Duke Energi cantile Self Direc	gy service account
Vendor Federal Tax ID Nur	mber				
	turn the "Customer corprocessed by a third-pa Duke Energy and the peris your federal tax I	nsent to release perso arty vendor. The third- third-party vendor hav D number and you ele	nal information" form ("Coparty vendor is responsible signed confidentiality action to sign the Consential to the consen	onsent Form") alor le for mailing the f greement to prote	ng with the application.
Vendor Tax Status	Corporation	☐ Individual/Sole F	Proprietor	hip	Other
Contact me via	Phone	☐ E-Mail	☐ Mail		
Common tria					
Company Name					
Mailing Address					
City, State, Zip					
Phone/Fax					
Primary E-mail Address					
Secondary E-mail Address					
Vendor Signature					
Title					
Print Name					

For more information, call 1-866-380-9580 or visit <u>www.duke-energy.com</u>.

Date



Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to PrescriptiveIncentives@duke-energy.com, mail to: Duke Energy • 431 Charmany Drive • Madison, WI 53719 or fax to 1-866-908-4921

Is this		NEW (original) or	REVISED (change	es made to original a	pplication)		
Data Centers		☐ Full Service Res	taurant		fine		
☑ Education/K-12		Healthcare	laurain	177	677	-	
☐ Education Other		☐ Industrial			Public Assembly Public Order/Safety		
☐ Elder Care/Nursing H	nme	Lodging			Religious Worship/Church		
Food Sales/Grocery	Jillo .	Retail (Small Box			ervice	iurch.	
Fast Food Restaurant		Retail (Big Box)	×)	1000	V. S. St. 7, 7		
Other:		I Tretail (Dig Dox)		10.44	Warehouse		
POWQU NOC DESTRICT	المراجع المالا	20120. 11112					
☐ Duke Energy Represe		☐ Web Site		□R	odia		
Contractor / Vendor	manyo	☐ Other		LI No	adio		
	State Free						
		etion of the following program					
All sections of applica	100	invoice with make, model number, quantity and equipment manufacturer	☑ Tax ID number for payee		Customer/vendor agree Terms and Conditions		
		141	4				
Culatorifier Hitternesson							
Customer/Business		ota City Schools	Contact		Robert Fischer 3800-0771-20		
Phone	110000	777-3316		200000000000000000000000000000000000000			
Street Address (Where in		The state of the s	6947 Yankee Rd				
City		rty Township	State	ОН	Zip Code	45044	
nstallation Street Addres		Princeton Road	7				
City		rty Township	State OH		Zip Code 45011		
E-mail Address		rt.fischer@lakotaonline.co			m		
	ount number ass	ociated with the location whe	re the installation	took place will res	ult in rejection of the	e application.	
Vendor	Pil.	Daniel .					
		Smart	Contact		Lucas Dixon	71171	
Phone	-	580-3352	Fax		614-453-5743		
Street Address		Kinnear Road Suite 229	TC-	4			
City	1 1000	mbus	State	ОН	Zip Code	43212	
E-mail Address		s.dixon@plugsmart.com					
f Duke Energy has que	tions about th	s application, who should	we contact?	☐ Customer		r	
Who should receive incer	tive payment?	⊠ Customer		☐ Vendor (Cus	tomer must sign be	low	
		Customer Signature (write	tten signature)	El velido (oda	torner must sign be	HOW)	
	nt of incentive						
hereby authorize payme	nt of incentive	E. C.	tterr signature/				
hereby authorize payme lirectly to the vendor:	110 - 12-12-1	Date	acir signature)	31-6000897			
hereby authorize payme lirectly to the vendor:	110 - 12-12-1	E. C.	iten signature)	31-6000897 26-2368277			
hereby authorize payme lirectly to the vendor: Provide Tax ID Number fo	110 - 12-12-1	Date Customer Tax ID #	men aignature/				
hereby authorize payme lirectly to the vendor: Provide Tax ID Number for Genes and Contentors	r Payee	Date Customer Tax ID # Vendor Tax ID #					
hereby authorize payme lirectly to the vendor: Provide Tax ID Number for the same Control of the have read and hereby a	or Payee	Date Customer Tax ID # Vendor Tax ID # s & Conditions and Program	n Requirements.	26-2368277			
hereby authorize payme directly to the vendor: Provide Tax ID Number for the content of the cont	or Payee gree to the Term Robert	Date Customer Tax ID # Vendor Tax ID # s & Conditions and Program	n Requirements.	26-2368277 ure	ve		
hereby authorize payme directly to the vendor: Provide Tax ID Number for the same Control of the have read and hereby a	gree to the Term Robert 9/23/11	Date Customer Tax ID # Vendor Tax ID # s & Conditions and Program	n Requirements.	26-2368277 ure Q/8,2	12011 ext Monay		

Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email this form along with <u>completed Mercantile Self Direct Prescriptive or Custom applications</u>, proof of payment, energy savings calculations and spec sheets to <u>SelfDirect@Duke-Energy.com</u>. You may also fax to 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please
indicate mercantile qualification:
☐ a single Duke Energy Ohio account
multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

Please list Duke Energy account numbers below (attach listing of multiple accounts an/or billing history for other utilities as required):

Account Number	Annual Usage	Account Number	Annual Usage
9720-3641-01	1,367,257 kWh		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart \$aver® Custom Incentive. Self Direct incentives are applicable to Prescriptive measures that were installed more than 90 days prior to submission to Duke Energy and have not previously received a Duke Energy Prescriptive rebate.

Self Direct Program requirements dictate that certain projects that may be Prescriptive in nature under the Smart \$aver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart \$aver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion of the following program requirements:

			1	I
	\boxtimes	Proof of payment.*	Manufacturer's Spec sheets	Energy model/calculations
application(s) are completed				and detailed inputs for
				Custom applications

^{*} If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
	MSD Custom Part 1 □	MSD Prescriptive Lighting ☐	MSD Prescriptive Lighting ⊠
Lighting	Custom Lighting Worksheet	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐
Heating & Cooling	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Prescriptive Heating & Cooling MSD Custom Part 1 MSD Custom General Worksheet
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐	MSD Prescriptive Heating & Cooling □	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐
Chillers &	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Chillers & Thermal Storage ☐
Thermal Storage	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Motors, Pumps & Drives □
Motors & Pumps	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives □	MSD Custom Part 1 ☐
VFDS	Not Applicable	MSD Custom Part 1 ☐ MSD Custom VFD Worksheet ☐	MSD Custom VFD Worksheet
	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Food Service
Food Service	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
	MSD Custom Part 1	MSD Prescriptive Process	MSD Custom Part 1 ☐
Process	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom General Worksheet
Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐
Behavioral*** & No/Low Cost		MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	

^{**} Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

^{***} Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

^{****} Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this a	pplication:	☐ NE	EW (origin	nal) or	RE\	VISED (changes	made to	origir	nal appli	cation)			
Building Type – Require	d (check d	one)											
☐ Data Centers			F	full Service	Restau	rant] Office				
⊠ Education/K-12			□ H	Healthcare		□ F			Public Assembly				
☐ Education Other				ndustrial] Public	Order/Safety	/		
☐ Elder Care/Nursing Ho	me			odging					Religi	ous Worship/	Churc	ch	
☐ Food Sales/Grocery			□F	Retail (Smal	II Box)] Servi	е			
☐ Fast Food Restaurant			☐ F	Retail (Big B	Зох)				Ware	nouse			
Other:								•					
How did you hear about	the progra	am? (ch	eck one)									
☐ Duke Energy Represe	ntative		□ V	Veb Site					Radio				
				Other				_					
								•					
Please check each box to										N 0t		-1	
All sections of applicat	ion			make, modantity and	iei	⊠ Tax ID numb	er for pa	ayee		Custome Terms ar			
				nanufacture	er					ronno di	10 00	Taltiono	
									'				
Customer Information													
Customer/Business		Lakota	City Sch	nools		Contact				Robert Fischer			
Phone		513-777	7-3316			Account Number				9720-3641-01			
Street Address (Where in	centive sho	ould be n	nailed)			6947 Yanke Rd							
City		Liberty	Townsh	nip		State	Ohio			Zip Code		45044	
Installation Street Address	S	7630 Be	ethany R	Road									
City		Liberty	Townsh	nip		State	Ohio	0		Zip Code		45044	
E-mail Address		robert.f	fischer@	lakotaonli	ne.com								
*Failure to provide the acco	ount numbe	er associa	ated with	the location	n where t	the installation t	ook plac	e wil	l result	in rejection of	the a	oplication.	
Vendor Information		1											
Vendor		Plug Sr	mart			Contact				Lucas Dixo	n		
Phone		614-580				Fax				614-453-57	43		
Street Address		1275 Ki	innear R	oad Suite 2	229								
City		Columb	ous			State	Ohi	0		Zip Code		43212	
E-mail Address		lucas.d	ixon@pl	lugsmart.c	om								
If Duke Energy has ques	stions abo	ut this a	application	on, who sh	ould w	e contact?	C	usto	mer	⊠ Ven	dor		
Payment Information		<u> </u>											
Who should receive incen			Custo				☐ Ven	ndor (Custon	ner must sign	belov	N)	
I hereby authorize payme	nt of incent	tive	Custome	er Signature	e (writter	n signature)							
directly to the vendor:		Date											
Provide Tax ID Number for Payee Custo		Custome	er Tax ID #			31-600	0897	,					
	Vendor Tax ID # 26-2368277												
Terms and Conditions		_											
I have read and hereby ag	gree to the	1 erms 8	& Condition	ons and Pro		•	П						
Customer Signature						Vendor Signatu	re						
Date	l				II.	Date	J						

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

Title

Title



NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)		Incentive per fixture		Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps a	re eligible for incentives based on the	total meas	ured leng	gth of the lam	np.)	
T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.50		Hrs.		
T8 8ft 1 lamp replacing T12 8ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.		
T8 4ft 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.		
T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.		
T8 4ft 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.		
T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.		
T8 3ft 4 lamp replacing T12 3ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.		
T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$3.25		Hrs.		
T8 3ft 2 lamp replacing T12 3ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.		
T8 3ft 1 lamp replacing T12 3ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.		
T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.		
T8 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$2.10		Hrs.		
T8 2ft 2 lamp replacing T12 2ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.		
T8 2ft 1 lamp replacing T12 2ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		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%.
- 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 load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 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 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps a	are eligible for incentives based on the	total meas	sured leng	gth of the lan	np.)		
T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$7.00		Hrs.			
T8 HB 4ft 3L replacing 150-249W HID(retrofit only)	Ballast model# Lamp model #	\$15.00		Hrs.			
T8 HB 4ft 4L a replacing 250-399W HID(retrofit only)	Ballast model# Lamp model #	\$20.00		Hrs.			
T8 HB 4ft 6L replacing 400-999W HID (retrofit only)	Ballast model# Lamp model #	\$25.00		Hrs.			
T8 HB 4ft 8L replacing a 400-999W HID(retrofit only)	Ballast model# Lamp model #	\$20.00		Hrs.			
2 fixtures – T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 for 1 replacement (retrofit only)	Ballast model# Lamp model #	\$60.00		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%.
- 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 load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 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 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Fixtures must be permanently retrofitted to the lamp count specified. Reflectors may be utilized to maintain necessary lighting levels.	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 with delamping					•		
T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		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%.
- 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 load.
- 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.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T12 8ft and 4ft fixture replaced by T8 High Replace T12 and T12 HO 8' fixtures with High performance T8 qualified product list found or	Performance T8 4ft lamps and ballast. A	pproved lan	nps and	ballasts must	be listed on	the CEE Hi	gh
High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture	Ballast model# Lamp model #	\$5.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture	Ballast model# Lamp model #	\$5.00		Hrs.			
High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 lamp fixture	Ballast model# Lamp model #	\$10.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture	Ballast model# Lamp model #	\$12.50		Hrs.			
High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp	Ballast model# Lamp model #	\$3.00		Hrs.			
High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp	Ballast model# Lamp model #	\$4.00		Hrs.			
High Performance T8 4ft 3 lamp fixture replacing T12 4 ft 3 lamp	Ballast model# Lamp model #	\$6.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 4 ft 4 lamp	Ballast model# Lamp model #	\$8.00		Hrs.			
T-12 4ft fixture replaced by Reduced Watta Replace standard T12 systems with 4' 25W la from CEE reduced-wattage approved list. To compatibility varies; consult manufacturer's lit.	mps, 28W lamps, and approved CEE bal view the CEE Reduced Wattage T8 qualif	ast. In orde ied product	r to quali list, go to	ify for incention www.cee1.c	ves, bulbs an org. Note : Re	d ballasts meduced Wat	nust be t T8
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp – 34 W	Ballast model# Lamp model #	\$4.00		Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28 W or less & ballast replacing standard T12 4 ft 2 lamp – 34 W	Ballast model# Lamp model #	\$5.00		Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballast replacing standard T12 4 ft 3 lamp – 34 W	Ballast model# Lamp model #	\$7.00		Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28 W or less & ballast replacing standard T12 4 ft 4 lamp – 34 W	Ballast model# Lamp model #	\$9.00		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%.
- 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 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 watt T8 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 undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



						Lecig		
Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive	
T-12 fixtures replaced with T5 Electronic Ba	allasts				•			
T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.				
T5 4ft (28 watt) 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model#	\$4.00		Hrs.				
T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Lamp model # Ballast model# Lamp model #	\$5.00		Hrs.				
T5 4ft (28 watt) 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.00		Hrs.				
T5 HO 4ft 1 (54 watt) lamp replacing 34W T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.				
T5 HO 4ft 2 (54 watt) lamp replacing 34W T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.				
T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.				
T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.				
T5 HO 4ft 4 (54 watt) lamp replacing 60W T12 8ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.				
T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.				
T5 HO HB 2L replacing 150-249W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$15.00		Hrs.				
T5 HO HB 3L replacing 250-399W HID(retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.				
T5 HO HB 4L replacing 400-999W HID(retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$25.00		Hrs.				
T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.				
T5 HO HB 8L replacing 750-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$37.50		Hrs.				
2 fixtures – T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$60.00		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-5 lamps.
- Ballasts shall have a power factor greater than 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 load.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes 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%. Manufacturers 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-8 Fixtures replaced by High Performance Replace standard T8 systems with High Perfo T8 qualified product list found on the web at w	rmance T8 4ft lamps and ballast. Appre	oved lamps a	and ballasi	s must be lis	ted on the Cl	EE High pe	erformance
T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 4ft High Performance 2 lamp & ballast replacing standard T8 4ft 2 lamp fixture	Ballast model# Lamp model #	\$3.00		Hrs.			
T8 4ft High Performance 3 lamp & ballast replacing standard T8 4ft 3 lamp fixture	Ballast model# Lamp model #	\$3.10		Hrs.			
T8 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture	Ballast model# Lamp model #	\$6.00		Hrs.			
T-8 Fixtures replaced by Reduced Wattage Replace standard T8 systems with 4' 25W lan or less. In order to qualify for incentives bulbs qualified product list, go to www.cee1.org . No	nps, 28W lamps approved CEE ballast and ballasts must be from CEE reduce	ed-wattage ap	oproved lis	st. To view the	e CEE Reduc	ced Wattag	ge T8
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp – 32W	Ballast model# Lamp model #	\$2.00		Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing standard T8 4ft 2 lamp – 32W	Ballast model# Lamp model #	\$3.00		Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28W or less & ballast replacing standard T8 4ft 3 lamp – 32W	Ballast model# Lamp model #	\$5.00		Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4 lamp – 32W	Ballast model# Lamp model #	\$6.00		Hrs.			
Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less	Ballast model# Lamp model #	\$2.50 / 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%.
- 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 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.
- Reduced watt T8 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 undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



CFL Lamps and Fixtures	Incentive	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
42W 8 lamp HB CFL replacing 400W HID (retrofit only) Model Number	\$25.00		Hrs.			
CFL – Screw In (lamp only) replacing an incandescent (retrofit only) Model Number	\$0.75 / lamp		Hrs.			
CFL – Screw-In dimmable or 3-way bulb replacing an incandescent dimmable or 3-way bulb (retrofit only) Model Number	\$1.00 / lamp		Hrs.			
CFL – Hardwired Fixture replacing incandescent fixture (only pin based CFL's qualify) Model Number	\$5.00 / fixture		Hrs.			
Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only) Model Number	\$1.50 / lamp		Hrs.			
33W – 115W CFL lamp replacing 100 W or more incandescent Model Number	\$2.50 / lamp		Hrs.			
Energy Star LED Lamps						
Replace incandescent bulbs with Energy Star LED (retrofit only) LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify. http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_pdf Model Number	\$5.00 / lamp		Hrs.			
Replace 60-100W incandescent with ENERGY STAR qualified LED downlight 18 Watts or less. (retrofit 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?fuseaction=ssl.display_products_com_pd. Model Number	\$7.50 / fixture		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. 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.



Metal Halide				
320W Pulse Start Halide replacing 400W HID (retrofit only) **check one □R □FE Model Number	\$12.50	Hrs.		
Ceramic Metal Halide				
20W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 100 W Model Number	\$15.00	Hrs.		
39W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 150 W Model Number	\$15.00	Hrs.		
50W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 195W Model Number	\$15.00	Hrs.		
70W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 225W Model Number	\$15.00	Hrs.		
100W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 270W Model Number	\$15.00	Hrs.		
150W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 360W Model Number	\$15.00	Hrs.		
25 W or less Ceramic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light Model Number	\$5.00/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.
- 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 hallast.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Measure	Incentive	Qty	Annual Operating Hrs (minimum of 1800)		Date Installed and Operable (mm/yy)	Total Incentive
21" Tubular Skylight/Light 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 □FE Model Number	\$37.50 / fixture					
LED Exit Signs (replacing or retrofitting existing incandescent or compact fluorescent exit sign) Check one □R □NC □FE Model Number	\$5.00 / fixture					
LED Lighting In Reach-in Freezer or Cooler Case (replacing fluorescent fixtures) Model Number	\$25.00 / door					
LED Case Lighting Sensor Controls Check one □R □NC □FE Model Number Model Number	5.00 / sensor					
Under 500 W connected to sensor check one ⊠R □NC □FE Model Number	\$10.00 / sensor	67	2200	\$10,720.00	01/2009	\$670.00
Over 500 W connected to sensor check one ⊠R □NC □FE Model Number	\$20.00 / sensor	78	2200	\$12,480.00	01/2009	\$1,560.00

- 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.
- 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 Sensors (under 500W) installed on or built into High Bay fixtures are eligible for incentives.
- LED Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in lieu 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 be removed.
- LED case lighting system must be a permanently installed luminaire. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.
- LED Case Lighting Sensor Controls may only be installed with LED lighting systems. End of aisle and individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Outdoor Lighting	Incentive	Qty	Annual Operating Hrs (minimum of 1800)	Equipment cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
Exterior LED or Induction fixture replacing up to 175W HID Model Number	\$20 / fixture					
Exterior LED or Induction fixture replacing 176W – 250W HID Model Number	\$25 / fixture					
Exterior LED or Induction fixture replacing 251W – 400W HID Model Number	\$40 / fixture					
Exterior LED or Induction fixture replacing > 400 W HID Model Number	\$75/ fixture					
Garage LED or Induction fixture replacing up to 175 W HID Model Number	\$50/ fixture					
Garage LED or Induction fixture replacing 176W – 250W HID Model Number	\$75/ fixture					
Garage LED or Induction fixture replacing 251W – 400 W HID Model Number	\$125/ fixture					
Garage LED or Induction fixture replacing > 400 W HID Model Number	\$200/ fixture					
LED Auto Traffic Signals (replacing incandescent) Model Number	\$6.25 / lamp					
LED Pedestrian Signals (replacing incandescent) Model Number	\$12.50/ 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?fuseaction=ssl.display_products_com_pdf
 - http://www.designlights.org/documents/NEEPDLCQPL.xls
- Traffic and pedestrian signals using LED lights must replace conventional incandescent signals.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



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 alternative supplier are eligible to participate.
- Incentive will not be paid 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.
- 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 ineligible.
- 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 filing. 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 taxes. 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).

- Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
- Review program and equipment requirements on the incentive application. (Page7)
- Purchase and install eligible energy-efficient equipment. 3.
- Complete and submit application for equipment that was installed after 1/1/2008.
- 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:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. 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.
 - C. 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.
- Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
- Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
- 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.



Mercantile Self Direct Rebate Program **Requirements for Vendor Participation**

Program Overview

- Duke Energy offers it's eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to 513-419-5572.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies - only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in it's sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.



Mercantile Self Direct Incentive Program

Technology	Responsible for sales and not installs*	Responsible for sales and Installation*	Technology	Responsible fo sales and not installs*	r Responsible for sales and Installation*
Lighting			Thermal Storage		
Heating Ventilation			Pumps/Motors/VFD's		—
& Cooling			T dirips/Motors/ VI D 3		
Food Service			Chillers		
Water Heating			Refrigeration		
Process Equipment			Window Film		
(air compressors, injection molding, etc.)					
* Check all that apply	•				
requirements set forth there accurate to the best of my laccurate. I agree that any conformation, will be used for	d the Mercantile Self Dein. By signing this agr knowledge. I hereby re confidential information r the sole purpose of fa	eement, I agree to pro present and warrant to concerning my custo acilitating the custome	ovide my customers with in hat the Tax ID and Vendomer, including but not liming a participation in the Me	nformation and do or Tax Status provited to Duke Energi cantile Self Direc	gy service account
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Mailing Address					
City, State, Zip					
Phone/Fax					
Primary E-mail Address					
Secondary E-mail Address					
Vendor Signature					
Title					
Print Name					

For more information, call 1-866-380-9580 or visit <u>www.duke-energy.com</u>.

Date



Ohio Lighting Incentive Application

Is this application: NEW (original) or

Questions? Call 1-866-380-9580 or visit www.duke-energy.com. Email the complete, signed application with all required documents to PrescriptiveIncentives@duke-energy.com, mail to: Duke Energy • 431 Charmany Drive • Madison, WI 53719 or fax to 1-866-908-4921

REVISED (changes made to original application)

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Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email this form along with <u>completed Mercantile Self Direct Prescriptive or Custom applications</u>, proof of payment, energy savings calculations and spec sheets to <u>SelfDirect@Duke-Energy.com</u>. You may also fax to 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please indicate mercantile qualification:

a single Duke Energy Ohio account

multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

Please list Duke Energy account numbers below (attach listing of multiple accounts an/or billing history for other utilities as required):

Account Number	Annual Usage	Account Number	Annual Usage
9860-677-01	702,638 kWh		
4090-2053-01	504,054 kWh		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart \$aver® Custom Incentive. Self Direct incentives are applicable to Prescriptive measures that were installed more than 90 days prior to submission to Duke Energy and have not previously received a Duke Energy Prescriptive rebate.

Self Direct Program requirements dictate that certain projects that may be Prescriptive in nature under the Smart \$aver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart \$aver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion of the following program requirements:

^{*} If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
	MSD Custom Part 1 □	MSD Prescriptive Lighting ☐	MSD Prescriptive Lighting ⊠
Lighting	Custom Lighting Worksheet	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐
Heating & Cooling	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Prescriptive Heating & Cooling MSD Custom Part 1 MSD Custom General Worksheet
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐	MSD Prescriptive Heating & Cooling □	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐
Chillers &		MSD Custom Part 1	MSD Prescriptive Chillers & Thermal Storage ☐
Thermal Storage	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
	MSD Custom Part 1	MSD Custom Part 1	MSD Prescriptive Motors, Pumps & Drives □
Motors & Pumps	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives □	MSD Custom Part 1 ☐
VFDS	Not Applicable	MSD Custom Part 1 ☐ MSD Custom VFD Worksheet ☐	MSD Custom VFD Worksheet
	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Food Service
Food Service	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐
	MSD Custom Part 1	MSD Prescriptive Process	MSD Custom Part 1 ☐
Process	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom General Worksheet
Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐
Behavioral*** & No/Low Cost		MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	

^{**} Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

^{***} Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

^{****} Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this a	pplication:	N N	EW (original) or	RE\	/ISED (changes	made to	original applic	ation)		
Building Type – Require	d (check o	one)								
☐ Data Centers			☐ Full Service	Restau	rant		☐ Office			
☑ Education/K-12			☐ Healthcare				☐ Public	☐ Public Assembly		
☐ Education Other			☐ Industrial				☐ Public	☐ Public Order/Safety		
☐ Elder Care/Nursing Ho	me		Lodging				Religio	ous Worship/Ch	urch	
☐ Food Sales/Grocery			Retail (Sma	II Box)		☐ Serv		е		
☐ Fast Food Restaurant			Retail (Big I	Box)			☐ Wareh			
Other:							•			
How did you hear about	the progra	am? (ch	neck one)							
☐ Duke Energy Represe	ntative		☐ Web Site				☐ Radio			
			Other				_			
			•				- '			
Please check each box to		_					1,			
All sections of applicat	ion		oice with make, mod nber, quantity and	del	⊠ Tax ID numb	er for pa	ayee	Customer/verified Terms and the control of the c	endor agree to	
			ipment manufacture	er				Terris and	Conditions	
			•				l.			
Customer Information										
Customer/Business		Lakota	Local Schools		Contact			Robert Fisch	er	
Phone		513-77	7-3316		Account Num	nber		9860-0677-01		
Street Address (Where in	centive sho	uld be r	nailed)		6947 Yankee	Road		•		
City		Liberty	Township		State	Ohio)	Zip Code	45044	
Installation Street Address	S	5050 T	ylersville Road							
City		West C	hester		State	Ohio)	Zip Code	45069	
E-mail Address		robert.	fischer@lakotaonli	ine.com	•	,		•	-	
*Failure to provide the acc	ount numbe	er associ	ated with the location	n where t	the installation t	ook plac	e will result i	n rejection of the	application.	
Vendor Information										
Vendor		Plug Sı	mart		Contact			Lucas Dixon		
Phone		614-580	0-3352		Fax			614-453-5743		
Street Address		1275 K	innear Road Suite	229						
City		Columi	bus		State	Ohio)	Zip Code	43212	
E-mail Address		lucas.d	lixon@plugsmart.c	om		I		1	I	
If Duke Energy has ques	stions abo	ut this a	application, who sh	nould we	e contact?	☐ Cı	ustomer	⊠ Vendo	r	
Payment Information										
Who should receive incer	itive payme	ent?				☐ Ven	dor (Custom	er must sign be	low)	
I hereby authorize payme	nt of incent	ive	Customer Signature	e (writter	n signature)					
directly to the vendor:			Date							
Provide Tax ID Number for	or Payee		Customer Tax ID #							
			Vendor Tax ID #							
Terms and Conditions										
I have read and hereby ag	gree to the	Terms 8	& Conditions and Pro		•					
Customer Signature				١	√endor Signatu	re				
Date					Date					
Title				7	Γitle					

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to 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.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Builder and model Numbers	Incentive per fixture		Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps a	re eligible for incentives based on the	total meas	ured len	gth of the lam	np.)		
T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.50		Hrs.			
T8 8ft 1 lamp replacing T12 8ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 4ft 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.			
T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 3ft 4 lamp replacing T12 3ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$3.25		Hrs.			
T8 3ft 2 lamp replacing T12 3ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp replacing T12 3ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.			
T8 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$2.10		Hrs.			
T8 2ft 2 lamp replacing T12 2ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		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%.
- 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 load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 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 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps a	re eligible for incentives based on the	total meas	sured leng	gth of the lan	np.)		
T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$7.00		Hrs.			
T8 HB 4ft 3L replacing 150-249W HID(retrofit only)	Ballast model# Lamp model #	\$15.00		Hrs.			
T8 HB 4ft 4L a replacing 250-399W HID(retrofit only)	Ballast model# Lamp model #	\$20.00		Hrs.			
T8 HB 4ft 6L replacing 400-999W HID (retrofit only)	Ballast model# Lamp model #	\$25.00		Hrs.			
T8 HB 4ft 8L replacing a 400-999W HID(retrofit only)	Ballast model# Lamp model #	\$20.00		Hrs.			
2 fixtures – T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 for 1 replacement (retrofit only)	Ballast model# Lamp model #	\$60.00		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%.
- 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 load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 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 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Fixtures must be permanently retrofitted to the lamp count specified. Reflectors may be utilized to maintain necessary lighting levels.	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipmen t Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 with delamping	•	•		•		,	
T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		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%.
- 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 load.
- 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.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive			
T12 8ft and 4ft fixture replaced by T8 High Performance Replace T12 and T12 HO 8' fixtures with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.cee1.org.										
High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture	Ballast model#	\$5.00		Hrs.						
	Lamp model #	1.								
High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture	Ballast model#	\$5.00		Hrs.						
	Lamp model #	* * * * * * * * * * * * * * * * * * *								
High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 lamp fixture	Ballast model#	\$10.00		Hrs.						
	Lamp model #	A								
High Performance T8 4ft 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture	Ballast model#	\$12.50		Hrs.						
High Designation of TO 46 A leave Colored	Lamp model #	# 0.00		Lles						
High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp	Ballast model#	\$3.00		Hrs.						
	Lamp model #									
High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp	Ballast model#	\$4.00		Hrs.						
	Lamp model #									
High Performance T8 4ft 3 lamp fixture replacing T12 4 ft 3 lamp	Ballast model#	\$6.00		Hrs.						
	Lamp model #	1.								
High Performance T8 4ft 4 lamp fixture replacing T12 4 ft 4 lamp	Ballast model#	\$8.00		Hrs.						
	Lamp model #									
T-12 4ft fixture replaced by Reduced Watta Replace standard T12 systems with 4' 25W la from CEE reduced-wattage approved list. To compatibility varies; consult manufacturer's lite	mps, 28W lamps, and approved CEE ball view the CEE Reduced Wattage T8 qualificature before specifying products.	ed product	r to quali list, go to	www.cee1.c	ves, bulbs an org. Note : Re	d ballasts neduced Wat	nust be t T8			
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp – 34 W	Ballast model#	\$4.00		Hrs.						
<u>'</u>	Lamp model #	фг. co	-	11	1	-	1			
Reduced Wattage T8 4ft 2 lamp of 28 W or less & ballast replacing standard T12 4 ft 2 lamp – 34 W	Ballast model# Lamp model #	\$5.00		Hrs.						
<u>'</u>	'	¢7.00	-	l lua						
Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballast replacing standard T12 4 ft 3 lamp – 34 W	Ballast model# Lamp model #	\$7.00		Hrs.						
Reduced Wattage T8 4ft 4 lamp of 28 W or less & ballast replacing standard T12 4 ft 4	Ballast model#	\$9.00		Hrs.						
lamp – 34 W	Lamp model #									

- 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%.
- 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 watt T8 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 undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



							Lileig	
Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive	
-12 fixtures replaced with T5 Electronic Ballasts								
T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.				
T5 4ft (28 watt) 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$4.00		Hrs.				
T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.				
T5 4ft (28 watt) 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.00		Hrs.				
T5 HO 4ft 1 (54 watt) lamp replacing 34W T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.				
T5 HO 4ft 2 (54 watt) lamp replacing 34W T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.				
T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.				
T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.				
T5 HO 4ft 4 (54 watt) lamp replacing 60W T12 8ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.				
T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.				
T5 HO HB 2L replacing 150-249W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$15.00		Hrs.				
T5 HO HB 3L replacing 250-399W HID(retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.				
T5 HO HB 4L replacing 400-999W HID(retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$25.00		Hrs.				
T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.				
T5 HO HB 8L replacing 750-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$37.50		Hrs.				
2 fixtures – T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$60.00		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-5 lamps.
- Ballasts shall have a power factor greater than 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 load.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes 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%. Manufacturers 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 lumen summary chart.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-8 Fixtures replaced by High Performanc Replace standard T8 systems with High Perfor T8 qualified product list found on the web at w	ormance T8 4ft lamps and ballast. Appr	oved lamps a	and ballas	ts must be lis	ited on the Cl	EE High pe	rformance
T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 4ft High Performance 2 lamp & ballast replacing standard T8 4ft 2 lamp fixture	Ballast model# Lamp model #	\$3.00		Hrs.			
T8 4ft High Performance 3 lamp & ballast replacing standard T8 4ft 3 lamp fixture	Ballast model# Lamp model #	\$3.10		Hrs.			
T8 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture	Ballast model# Lamp model #	\$6.00		Hrs.			
T-8 Fixtures replaced by Reduced Wattage Replace standard T8 systems with 4' 25W lar or less. In order to qualify for incentives bulbs qualified product list, go to www.cee1.org . No	mps, 28W lamps approved CEE ballast and ballasts must be from CEE reduced.	ed-wattage ap	oproved lis	st. To view th	e CEE Redu	ced Wattag	ge T8
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp – 32W	Ballast model# Lamp model #	\$2.00		Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing standard T8 4ft 2 lamp – 32W	Ballast model# Lamp model #	\$3.00		Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28W or less & ballast replacing standard T8 4ft 3 lamp – 32W	Ballast model# Lamp model #	\$5.00		Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4 lamp – 32W	Ballast model# Lamp model #	\$6.00		Hrs.			
Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less	Ballast model# Lamp model #	\$2.50 / 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%.
- 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 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.
- Reduced watt T8 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 undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



CFL Lamps and Fixtures	Incentive	Qty	Annual Operating Hours (minimum of 1800)	Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
42W 8 lamp HB CFL replacing 400W HID (retrofit only) Model Number	\$25.00		Hrs.			
CFL – Screw In (lamp only) replacing an incandescent (retrofit only) Model Number	\$0.75 / lamp		Hrs.			
CFL – Screw-In dimmable or 3-way bulb replacing an incandescent dimmable or 3-way bulb (retrofit only) Model Number	\$1.00 / lamp		Hrs.			
CFL – Hardwired Fixture replacing incandescent fixture (only pin based CFL's qualify) Model Number	\$5.00 / fixture		Hrs.			
Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only) Model Number	\$1.50 / lamp		Hrs.			
33W – 115W CFL lamp replacing 100 W or more incandescent Model Number	\$2.50 / lamp		Hrs.			
Energy Star LED Lamps						
Replace incandescent bulbs with Energy Star LED (retrofit only) LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify. http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_pdf Model Number	\$5.00 / lamp		Hrs.			
Replace 60-100W incandescent with ENERGY STAR qualified LED downlight 18 Watts or less. (retrofit 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?fuseaction=ssl.display_products.com.pd . Model Number	\$7.50 / fixture		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. 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.



Metal Halide								
320W Pulse Start Halide replacing 400W HID (retrofit only) **check one □R □FE Model Number	\$12.50		Hrs.					
Ceramic Metal Halide								
20W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 100 W Model Number	\$15.00		Hrs.					
39W Ceramic Metal Halide fixture replacing ☐ Incandescent or ☐ Halogen of at least 150 W Model Number	\$15.00		Hrs.					
50W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 195W Model Number	\$15.00		Hrs.					
70W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogen for a total of 225W Model Number	\$15.00		Hrs.					
100W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 270W Model Number	\$15.00		Hrs.					
150W Ceramic Metal Halide fixture replacing ☐ Incandescents or ☐ Halogens for a total of 360W Model Number	\$15.00		Hrs.					
25 W or less Ceramic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light Model Number	\$5.00/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.
- 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 hallast.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Measure	Incentive	Qty	Operating Hrs	cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
21" Tubular Skylight/Light 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 □FE Model Number	\$37.50 / fixture					
LED Exit Signs (replacing or retrofitting existing incandescent or compact fluorescent exit sign) Check one □R □NC □FE Model Number	\$5.00 / fixture					
LED Lighting In Reach-in Freezer or Cooler Case (replacing fluorescent fixtures) Model Number	\$25.00 / door					
LED Case Lighting Sensor Controls Check one □R □NC □FE Model Number Model Number	5.00 / sensor					
Under 500 W connected to sensor check one ☐R ☐NC ☐FE Model Number	\$10.00 / sensor					
Over 500 W connected to sensor check one ⊠R □NC □FE Model Number OMNI-DT	\$20.00 / sensor	42	2200	\$6,720.00	01/2009	\$840.00

- 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.
- 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 Sensors (under 500W) installed on or built into High Bay fixtures are eligible for incentives.
- LED Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in lieu 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 be removed.
- LED case lighting system must be a permanently installed luminaire. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.
- LED Case Lighting Sensor Controls may only be installed with LED lighting systems. End of aisle and individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



Outdoor Lighting	Incentive	Qty	Annual Operating Hrs (minimum of 1800)	 Date Installed and Operable (mm/yy)	Total Incentive
Exterior LED or Induction fixture replacing up to 175W HID Model Number	\$20 / fixture				
Exterior LED or Induction fixture replacing 176W – 250W HID Model Number	\$25 / fixture				
Exterior LED or Induction fixture replacing 251W – 400W HID Model Number	\$40 / fixture				
Exterior LED or Induction fixture replacing > 400 W HID Model Number	\$75/ fixture				
Garage LED or Induction fixture replacing up to 175 W HID Model Number	\$50/ fixture				
Garage LED or Induction fixture replacing 176W – 250W HID Model Number	\$75/ fixture				
Garage LED or Induction fixture replacing 251W – 400 W HID Model Number	\$125/ fixture				
Garage LED or Induction fixture replacing > 400 W HID Model Number	\$200/ fixture				
LED Auto Traffic Signals (replacing incandescent) Model Number	\$6.25 / lamp				
LED Pedestrian Signals (replacing incandescent) Model Number	\$12.50/ 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?fuseaction=ssl.display_products_com_pdf
 - http://www.designlights.org/documents/NEEPDLCQPL.xls
- Traffic and pedestrian signals using LED lights must replace conventional incandescent signals.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.



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 alternative supplier are eligible to participate.
- Incentive will not be paid 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.
- 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 ineligible.
- 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 filing. 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 taxes. 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).

- Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
- Review program and equipment requirements on the incentive application. (Page7)
- Purchase and install eligible energy-efficient equipment. 3.
- Complete and submit application for equipment that was installed after 1/1/2008.
- 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:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. 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.
 - C. 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.
- Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
- Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
- 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.



Mercantile Self Direct Rebate Program **Requirements for Vendor Participation**

Program Overview

- Duke Energy offers it's eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to 513-419-5572.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies - only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in it's sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.



Mercantile Self Direct Incentive Program

Technology	Responsible for sales and not	Responsible for sales and	Technology	Responsible fo sales and not	Responsible for sales and	
	installs*	Installation*		installs*	Installation*	
Lighting			Thermal Storage			
Heating Ventilation & Cooling			Pumps/Motors/VFD's			
Food Service			Chillers			
Water Heating			Refrigeration			
Process Equipment			Window Film			
(air compressors, injection molding, etc.)						
 Check all that apply 						
requirements set forth there accurate to the best of my laccurate. I agree that any conformation, will be used for	om. d the Mercantile Self Diein. By signing this agrenowledge. I hereby reconfidential information r the sole purpose of fa	irect Incentive Prograr eement, I agree to pro present and warrant the concerning my custon acilitating the custome	m Requirements for Ve vide my customers wit nat the Tax ID and Ver mer, including but not I r's participation in the I	endor Participation, a h information and do ndor Tax Status prov imited to Duke Ener Mercantile Self Direc	and I agree to comply with all ocumentation that is true and vided below are true and gy service account	
Vendor Federal Tax ID Nur	mber					
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Print Name						
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For more information, call 1-866-380-9580 or visit <u>www.duke-energy.com</u>.

Date



Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to PrescriptiveIncentives@duke-energy.com, mail to: Duke Energy • 431 Charmany Drive • Madison, WI 53719 or fax to 1-866-908-4921

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be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.



DUKE ENERGY CORPORATION

Mercantile Self Direct Program 139 East Fourth Street Cincinnati, OH 45202

513 629 5572 fax

January 4, 2011

Mr. Robert Fisher Lakota Local Schools 6947 Yankee Rd Liberty Township, Oh 45044

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate

Dear Mr. Fisher:

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page three, a total rebate of \$4,920.00 has been proposed for your lighting projects completed in the 2008 and 2009 calendar years. All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).

At your earliest convenience, please indicate if you accept this rebate by

- providing your signature on page two
- completing the PUCO-required affidavit on page four.

Please return the documents to my attention via fax at 513-629-5572 or e-mail to SelfDirect@Duke-Energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. 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 contact me if you have any questions.

Sincerely,

Grady Reid, Jr Product Manager

Mercantile Self Direct Rebates

cc: Mike Heath, Duke Energy Rob Yung, WECC

Lucas Dixon, Plug Smart

Please indicate your response	onse to this rebate offer within	30 days of receipt.
Rebate is accepted.	Rebate is	declined.
energy efficiency projects		ts intention to commit and integrate the into Duke Energy's peak demand reduction
necessary to secure appro		as joint applicant in any future filings quired by PUCO and to comply with any or as part of that approval.
pursuant to this rebate off limited to, project scope, e	er is true and accurate. Informequipment specifications, equip	information submitted to Duke Energy nation in question would include, but not be pment operational details, project costs, nservation measures installed.
If rebate is accepted, will reduction projects?	you use the monies to fund fut	ture energy efficiency and/or demand
X YES □ NO		
If rebate is declined, pleas	se indicate reason (optional):	
Robert Fischer	ROBERT FISCHER	1/5/12
Customer Signature	Printed Name	Date

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure (ECM)	Proposed Rebate Amount
ECM-1	Occupancy Sensors - <500 Watts (Quantity - 51) 6040 Princeton Rd	\$510.00
ECM-2	Occupancy Sensors - >500 Watts (Quantity - 67) 6040 Princeton Rd	\$1340.00
ECM-3	Occupancy Sensors - <500 Watts (Quantity - 67) 7630 Bethany Rd	\$670.00
ECM-4	Occupancy Sensors - >500 Watts (Quantity - 78) 7630 Bethany Rd	\$1560.00
ECM-5	Occupancy Sensors - >500 Watts (Quantity – 42) 5050 Tylersville Rd	\$840.00
Total		\$4920.00



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

	Only)	
Casi	Case No.:EL-EEC	
State	State of OHTO:	
Roß that:	ROBERT FISCHER, Affiant, being duly sworn according to law, deposes and sa	iys
1.	I am the duly authorized representative of:	
	LAKOTA LOCAL SCHOOLS	
	[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 forego application, including any exhibits and attachments. Based upon my examinat and inquiry of those persons immediately responsible for obtaining information contained in the application, I believe that the information is to accurate and complete.	tion the
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.	j
Roll Sign	Rebest Fisch DIR. BLD65 & GRD5 Signature of Affiant & Title	
Swor	Sworn and subscribed before me this 54 day of January,	
Sign	Signature of official administering oath EXECUTIVE SE	DERETARY
Мус	My commission expires on 4.19.2015 LINDA J. GOI Notary Public, State Commission Expires	of Ohio



Lakota Local

School District

5572 Princeton Rd Liberty Township, OH 45011 Phone: 513-874-5505 COMPLETION

IATE:

January 1, 2009

JOB:

Early Childhood

MSTALL

6040 Princeton Rd

ADDRESS:

Liberty Township OH 45011

SMLL TO:

Robert Fischer

Lakota City Schools 6947 Yankee Rd

Liberty Township OH 45044

Phone: 513-777-3316

DESCRIPTION & 2 1/2 44 1/4 1/4 1/4 1/4	QUANTITY	PRICE/FIXTURE	TWUOWA
OMNI-DT200 Lighting Control System	118	N/A	\$18,880.00
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Authorized Signature: Robert Fischer			12/15/11

Lakota Local

School District

5572 Princeton Rd Liberty Township, OH 45011 Phone: 513-874-5505 COMPLETION

DATE:

January 1, 2009

J08:

East Freshman

MSTALL

7630 Bethany Rd

ADDRESS:

Liberty Township OH 45044

SAL TO:

Robert Fischer Lakota City Schools 6947 Yankee Rd

Liberty Township OH 45044 Phone: 513-777-3316

DESCRIPTION	QUANTITY	PRICE/FIXTURE	AMOUNT
Hubbell LHIRD2 Lighting Control System	67	N/A	\$10,720.00
OMNI-DT200-RP Lighting Control System	78	N/A	\$12,480.00
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Authorized Signature:	Robert Frscher	Date: 12/15/11	
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Lakota Local

School District

5572 Princeton Rd Liberty Township, OH 45011 Phone: 513-874-5505 COMPLETION

DATE

January 1, 2009

JOBS

West Chester

MSTALL ADDRESS: 5050 Tylersville Rd West Chester OH 45069

Mil. TO.

Robert Fischer Lakota City Schools 6947 Yankee Rd

Liberty Township OH 45044 Phone: 513-777-3316

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Authorized Signature: Robert Fisika Date: 12/15/11



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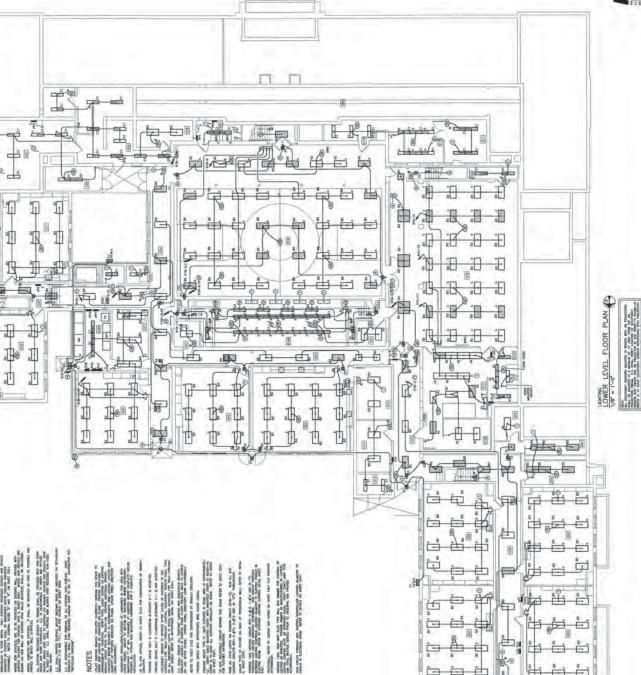
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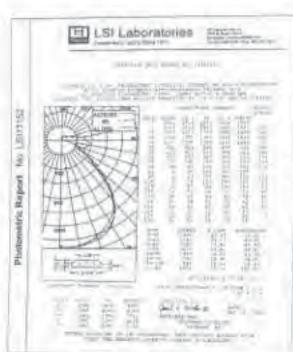
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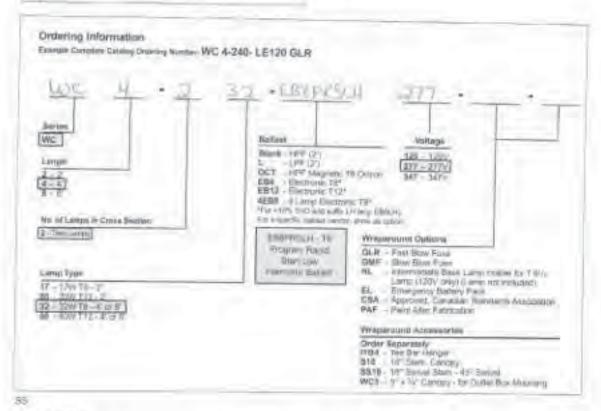


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10	40	30	24	40	146	(5)	24	28	781	23	10	117

LER: FW-67 Input Watts: 59-2 Energy Cost: \$3.58° RF: .88

The above energy calculations were conducted using a specific templications combination. Actual results may very departing upon the large and ballest used. Lamp and ballest wasofications are subject to charge without notice.

"Gospanian your lighting energy cost are 1000 commis based by 3000 hours and \$0,000 per ICAH



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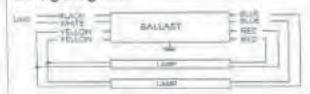


Electrical Specifications

VCN-2	S32-SC
Brand Name	CENTIUM
Ballast Type	Electronic
	Programmed Start
Lamp Connection	Series
Input Voltage	277
Input Frequency	
	Active

Lamp Type	blum. isf Lamp	Rated Lamp Watts	Min. Start Temp ("F/C)	(Amps)	Fower (ANSI Watta)	Ballest Factor	MAX THD	Power	MAX Lamp Current Crest Factor	B.E.F
.FI7TE	. 2	17	32/00	0.15	39	1.00	10	5.99	1.7	2.56
F2518	2	25	32/00	0.26	53	0.95	10	0.99	4.7	1.79
*F3QT8	2	32	32/00	0.25	63	0.86	10	0.90	1.7.	1.40

Wiring Diagram



Diag. 21

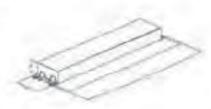
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Standard Lead Length (inches)

12.101.00.00.00.00.00.00.00.00.00.00.00.00		
	- 10	Crit
Black	221	55.9
White	321	55.9
Blue	26H	0.0
Fire	26R	98
Visitory	361	91.4
Tarrey		0
Viciet		0

Circles)				
	irt.	con.		
Yellow/Blue		D		
Blue/White		- 0		
Brown		0		
Orange		D		
Omnge/Black		0		
Block/White		. 0		
Fred/White		D		

Enclosure



Enclosure Dimensions

OverAll (L)	Widsh (W)	Height (H)	Mounting (M)
0.50*	1.7 "	1380	8.00 *
9 1/2	1 7/10	1 9/50	8 9/10
24.1 pm	4.3 cm	no C	22.6 cm

Revised 11/13/2001





Date is beaut upon taxes parformed by Advance Transformer in a controlled environment and representative or retains performence. Action performance are subject to change without softice. All specifications are named unless otherwise training.

Subsetting by Lorenze Same



Job Name:

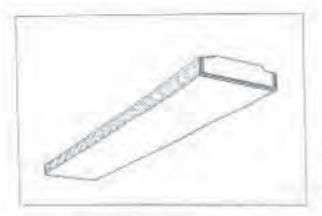
Latera Lova: School Chama - East Programme School

Catalog Number: WCW4-432-4EB8PRSLH277

Motor

Type:

A2



WCW2-4 WCW4-4 WCW8-4 PRODICY FOUR LAMP WRAPAROUND

TYLEY! July Dissorigitors

FEATURES.

- Clear acrysic premistic diffuser. Hinges from either side. Flar. notices and vertical sides:
- Linear side prisms control visual brightness and deact fight. mes adjacent celling area.
- i Straction moldest decorative give ands on diffuser licenses.
- Heavy gauge must havery, the errocesed for maximum. rightly.
- Heat sink enlocksments and leveling projections along street recenting of HPF factures on combunities facdensity certificae toerboard desiros.

SPECIFICATIONS:

Energy afficient satisate are thermoly occleded automatic researing. Class P. high power teams, CBM, eauto receipt. 20 with heliests are topper start. Class P. U.L. lieter.

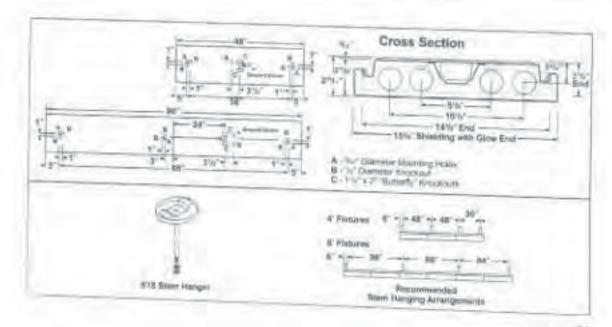
Finish

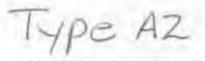
All parts pre-pained with high gloss traked white enamel. minimum reflectures Atths, applied over iron prouphale 196-Paultouri for maximum schedules and not manufacture.

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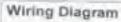






VCN-4S32-SC				
Brand Name	CENTIUM			
Ballast Type	Electronic			
Starting Method	Programmed Start			
Lamp Connection	Senes/Parallel			
Input Voltage	277			
input Fraquency	60 HZ			
Status	Active			

Сатр Тура	Num. of Lamp	Rated Lamp Wette	Min. Start Temp ("F/G)	Current (Amps)	Power (ANS) Watta)	Relast Fector	MAX THD %	Power Factor	MAX Lamp Gurrant Crast Factor	8.5.7
- PAYTE	4	17	32/00	0.29	79	1.00	-10	n de	1.0	17.00
F26TA	4.1	24	32/00			7		0.99	17	127
F32TB	-	44		0,36	101	D 96	10	0.99	1.7	0.94
1.06.10	-	32	32/00	0.45	121	88.0	10	0.99	17	0.73





The wiring diagram that appears above is for the larny type denoted by the autories in

Standard Lead Longth (Inches)

_	man Little
in	CITE.
221	55.9
221	55.9
369	91.4
36R	91.4
461	116.6
-	0

	41	CITI
Yellow/Size		0
Ellue/V/hou	36R	91.4
Drown	450	116.6
Orange		0
Orange/Brack		- 0
Black/White		0
Flied/White		0

Enclosure



Enclosure Dimensions

DV9CAH (L1)	Wight (W)	Method woll	
0.50 *	4.7.0	Height (H)	Mounting (M.
	-17	1.16	8.90 *
9.1/2	1.7/10	T 9/90	
24.5 mm.	2.5 cm/	- 67-263	8.9/10
	4.3 CHI	3 040	22.6 cm

Revised 03/01/2007





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Sulymond by Lastman Sales



Job Name.

Langto Limital Streng Drivint - Elimit Elipidarios Schiller

Catalog Number: WCW4-332-3EB8PRSLH277

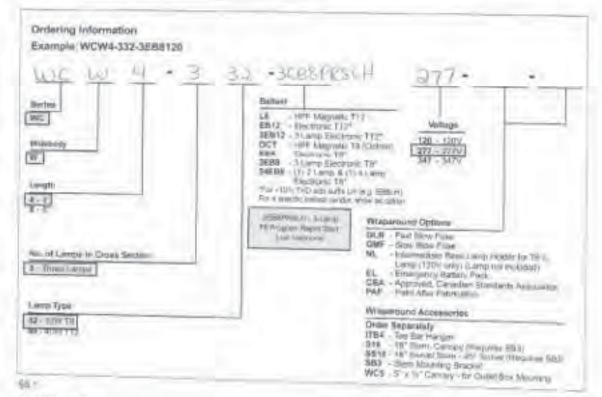
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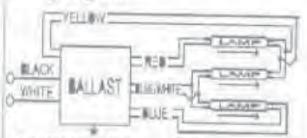


Electrical Specifications

VCN-3S32-SC				
Brand Name	CENTILIM			
Ballast Type	Electronic			
Starting Method	Programmed Start			
Limp Connection				
Input Voltage				
Input Frequency	60 HZ			
Status	Active			

Lamp Type	Mam. of Lamp	Rated Lamp Watts	Mint. Start Temp (°F/C)	Input Current (Amps)	Power (ANSI Watts)	Ballant Factor	MAX THD	Power Factor	MAX Lamp Current Crest Factor	BEF
P1716	3	55	32/00	0.22	61	1.00	10	0.00	4.76	100
F2576	3	25	32/00		- 41			0.99	4.7.	1.84
	1	40	-	0.28	11	0.95	10	0.99	1.7	1.23
* F32TB	3	32	32/00	0.34	91	0.88	10	0.90	4.7	0.07

Wiring Diagram



The wiring diagram that appears above a for the tamp type denoted by the saterisk (*)

Standard Lead Length (inches)

In	cm.
22£	- 65.9
22t	55.0
+6R	116.8
369	95,4
560	BL4
	0
	D
	22£

	-dru	CHIL
Yellow/Blue		- 0
BlueWhite	SBR	91.4
Brown		0
Drange		0
Crange/Black		0
Black/White		10
RedVinite		- 6

Enclosure



Enclosure Dimensions

Dyatkii (L)	Width (W)	Preight (H)	Mounting (M
9.50*	1.75	1.18.0	8.90
9.1/2	1 7/10	1 8/90	B-9/10
24 F pm	4.3 cm	5 cm	22.6 cm

Revised 03/01/2007





Data is based upon tests performed by Advance Transformer in a controlled an aromaint and representative of recover performance. Actual performs can very depending on operating conditions. Specifications are subject to covered worked online, As again nations are possess unless otherwise parted.

Submitted by London and States



Job Name:

Learn Lical School Divinet - East Freedman Arthur

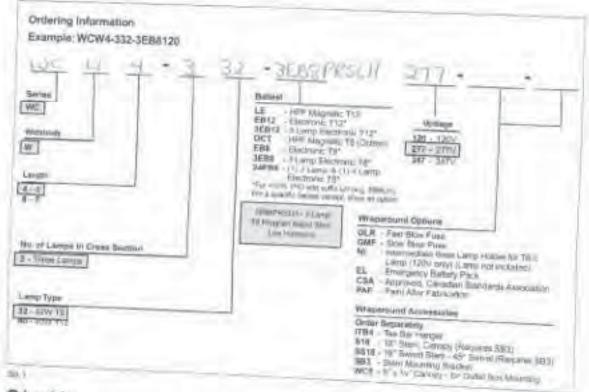
Catalog Number: WCW4-332-3EB8PRSLH277

Notice!

Type:

A3 2 Gallast

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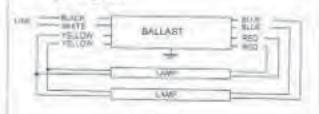
Type A3-2BAL

VCN-2	S32-SC
Brand Name	CENTIUM
Ballest Type	Electronic
Starting Method	Programmed Start
Lamp Connection	
Input Voltage	277
Input Frequency	BO HZ
Status	Active

Electrical Specifications

і атр Туре	Num of Lamp	Rated Lamp Watts	Min. Biters Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THO %	Power Factor	MAX Lamp Current Crest Factor	BE
£1778	2	17	302/00	0.18	39	1.00	10	0.99	4.9	7.00
FERTE	2.	25	32/00	0.20	53	-	100		116	2.50
* F2218	4	469			30	0.95	10	0.38	1.7	3.79
Pacific	- 6	22	32/00	0.23	63	0.86	10	0.99	1.7	1.40

Wiring Diagram



Diag 21

The wring diagram that appears above is for the tamp type decoiled by the estensk (*)

Standard Load Length (inches)

	161	OTI
Black	221	55.0
White	220	45.0
Blue	298	- 60
Red	26R	- 36
Yellow	36L	BL4
Grey	75	0
Viole		0

	ári.	CRI
YellowiStoe		0
Blue/White		
Brown		.0
Cirarige		0
Orange/Black		- 0
Black/White		- 6
Red/White		- 6

Enclosure



Enclosure Dimensions

1	Vviain (VV)	Height (H)	Moursing (M)
	1.7	1.181	# 90°
	1.7/10	1 9/50	8 9/10
7.	4.3 cm	3 cm	22.6 pm

Revised 33/13/2001





Case is based upon their performance. Active to a consulted entering and papersonable of relative performance. Active performance are early deposition for upon on constitute. Specifications are subject to drawing entrout notice. All appointments are consistent constitute of consistence of c



YPE A3 - 2 BAL

VCN-1S32-SC

Brand Name CENTIUM

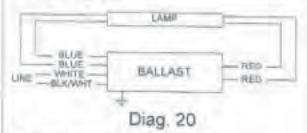
Ballast Type Electronic

Starting Method Programmed Start

Brand Name	CENTIUM
Sallast Type	Electronic.
Starting Method	Programmed Start
Lamp Connection	
Input Voltage	277
Input Frequency	80 HZ
Status	Active

Lamp Type	Num, of Lamp	Rated Lamp Watts	Min. Start Temp ("F/C)	Input Gurrant (Amps)	Power (ANS) Watta)	Bellest Factor	MAX THD %	Power Factor	MAX Lamp Current Great Factor	AEF
FITTE	1.0	17	32/00	0.08	22	1.00	10	-0.97	1.9	4.55
F25T8	1.0	25	32/00	0.10	28	0.95	-10	0.98	1.0	3.39
* F32TB	Y	22	32/00	0.13	34	0.90	10	0.96	1.7	2.85

Wiring Diagram



The wiring diagram that appears above is for the tamp type denoted by the admini (*)

Standard Lead Length (inches)

- tin	dm.
	0
221.	55.9
361	55.4
28FI	60
-	D
	0
	D
	361

	M	CIR
Yellow Blow		0
Risin/Mhitis		0
Bestwire		0
Orange		. 0
Ovange Black		- 3
Bleck/White	721	55.8
Regoverne	-	- 0

Enclosure



Enclosure Dimensions

Oyechii (L)	Width (W)	Frieget (H)	Mounting (M)
9.50 *	1.71	1.18*	8.90
P 1/2	1 7/10	1.9/50	6 9/10
24 f cm	4.3 cm	3 cm	22 F /mi

Revised 11/13/2001





Data is based upon their performed by Anvence Transformer in a committed polynoment and representative of relative performance. Actual performance can very depending on operating conditions. Specifications are subject to codings without sudge. All approximations are sometime unless otherwise noted



Job Name:

Acceptance School Panel | Earl

Catalog Number:

ST824-232G-FAA12.125-EB8PRSLH277-F0735 Mütele

Type:

B₂

LIEUTADI:

ST824-232

2 = 4, 2 T8 Lamps

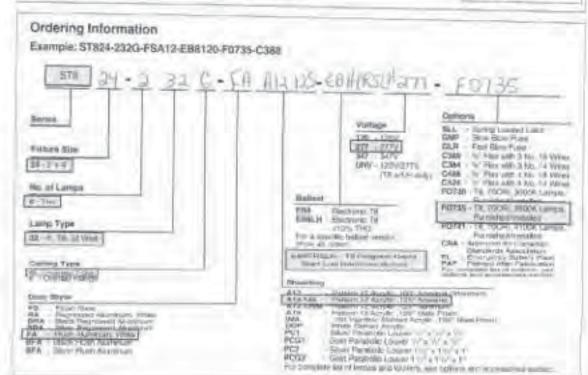
SPECIFICATION GRADE TROFFER



5T624-232G-F5A12-EB8-PAF Sec. No. 1250 Efferment MLE 25th Full L22 from 1,50 Coefficients of Utilization my PO 90 30 17. 30 TO 100 80 (1) 185 93 87 87 72 79 ré. TN. 79 54 00 00 Air 65 報報報 100 22 11 10 ŸĮ. 8-148 10 mm 10 2 11.0 24 90 36 35 31 24 Option. 400 70 13 超 55 ID: 43 00 35 41 33 30/ 05 31 26 48 36 31 = M 38 26 30 at. 74 til. 116 50. 40 20

Zzme	Limiera	Lamp	Fist
D-30	1962	76.9	231.3
0-40	2005	44.1	15.5 3
0-60	4226	77.4	85.3
10-00	4000	85,0	100.0
60-TBD	- 0	0.0	0.0
0.180	with.	185.6	100.0

Erwing Date LEW PLOT Energy Cost \$5.00 PER UNION BORN BF .M The above a weight and advantage with - Catio sing a contract target maket emphasion. Attaches and May rany femining arm to being and taken and, they are taken SHIP TOOMS AND ADMINISTRATION OF PERSONS AND ADMINISTRATION OF PER Tomorrow country to proper to the latest Market and Mar





Job Name:

John Load Screet the 1 - East

Catalog Number: ST824-232G-FAA12 125-EB8PRSLH277-FO738 Notes

Type:

B₂

(ES)/ASS

ST824-232

2 x 4, 2 Til Lamps

SPECIFICATION GRADE TROFFER

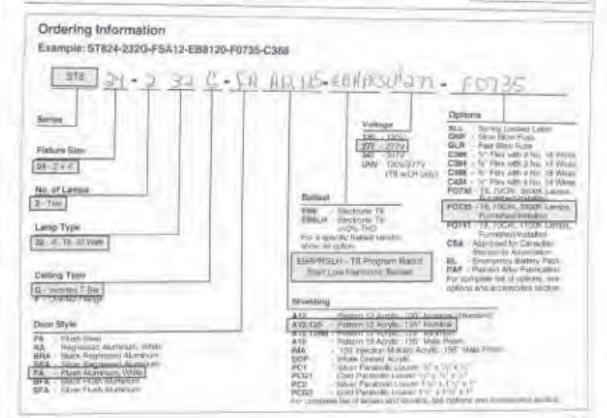


	may h	-			-	19 0	Oil	izatio	2011	101	neie	100
NO.				w	THE .					90		
MW.	70	30.	20	30	- PQ	50	30	1.0	165	30	10	- 0
	53.8	91	RE.	.89	22	84	10	87	80	63	87	13
(2)	87	45	7%	10	165-	PW	75	91	76	778	40	65
31	50	TR	OW	MY.	3	71	16.	EV.	60	640	66	67
14	74	475	58.	57	72	3.5	36	53	68	58	80.	700
78	158	36	50.0	40	60	57	90	45	-00	60	Rd.	AG
46	53	52	45	40	41	52	45	40	50	44	41	87
0.1	58	47	1817	95	-30"	VEP.	AD	.20	43	10	25	25
+	54	AU	360	31	30	nir.	16	25	41	371	31	186
9	4.0	38	21	29	48	ah	311	26	37	31	-29	24
10.	Ab-	56	211	29	45	541	330	.93	33		23	21

Zane	Luners	Lamp	Firet
0-30	1586	28.9	31.5
0.60	2664	44.1	371.5
0.00	4206	77.9	#Ph. Y
0-90	4965	85.6	100.0
100 cttl	- h	0.0	0.5
0.180	4005.	85.0	100.0

E	OWNEY D	eta .
LER PLAN	Energy 78	Cont 12/07 60: 40
The above of members of million comes	ITHE R 4944	into tarry
may very day and other specification	profession and Larry	and the large

Toronto area horse and more (40 hours losed a real back and Kallyan time.





Type B2

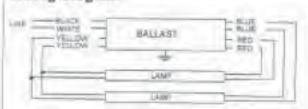


Electrical Specifications

VCN-2	S32-SC
Boind Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	277
Input Frequency	60 HZ
Status	Active

Lamp Type	Num. of Lamp	Rated Lamp Watts	Min. Start Temp (*f/Q)	Current (Amps)	Power (ANSI Watts)	Ballest	MAX THD	Power Factor	MAX Lamp Current Crost Factor	BEF
F1778	2	17	32/00	0.15	39	1.00	10-	0.99	1.7	2.58
P28TR	2	36	32/00	0.20	.53	P.95	10	0.99	1.7	1.78
* F32T8	2.2	32	32/00	0.23	63	0.88	10	0.89	1.7	1.40

Wiring Diagram



Diag. 21

The wiring diagram that appears above in for the tamp type devioted by the estimak (*)

Standard Load Longth (inches)

Mr.	099
220	55.5
224	55.9
268	
26R	- 65
361	91.4
	0
	0.
	26R

	m.	- Drn
Yellow/Blue		- 0
Blue/White		D
Begwei		0
Change		- 0
Oranga/Black		0
Black/White		0
RadWhite		0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Meight (H)	Mounting (M)
9.50 "	(7.7	1.18"	6.90 *
9.1/2	1.7/10	1.950	8.0/10
24.1 cm	4.2 cm	3 cm.	22.6 cm

Revised 11/15/2001





Data is limited upon from performed by Advance Transformer in a constraint environment and representative of history performance. Accord performance can vary depending on operating conditions. Specifications are subject to change reflect notice. All specifications are noticed unions otherwise noted.



Job Name:

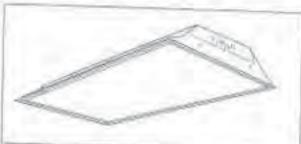
Lekinde Local School Denica - E-

Catalog Number: ST824-332G-FAA12.125-3EB8PRSLH277-FD735 NOTING:

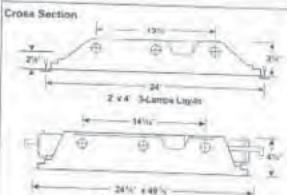
Type

B3

LENGT-LINE.



Cross Section



Flanged cut out dimensions for single unit only: 24" x 48%

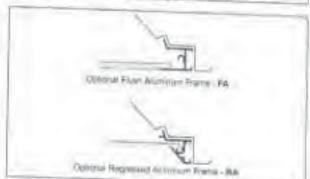
2 s.d. 3-Latripe Flamped



A 750" Distribute Minoratoual

R-P a 2' Instrugit from the account plate.

MOTE: As dimensions and in victims dimensions and associations on surport as single administration (masses contain factory or closely surface to confidence.



I have been all the same and the party of the

ST824-332 SPECIFICATION GRADE T8 TROFFER 2' x 4', 3 T8 Lamps

Alth Description

Features

- Opposi performance designed for TB large technology.
- is processed to model or a factor of the same and the same of
- i Mechinical light seal.
- · Altraction, post-parried povername with powers across
- Survigi coscles satories optional.
- Robbid Sisture adges include risk of souny during Relate handling and installation.
- Integral T-bar cape, quickly sepure fishing to grid arrown an house the resed for time-consuming loads parts
- Smitp-in feature covers can be removed when larger ere-
- Contex language for easy insuration and removes of door
- Occional flush or regressed statutary shielding frames available with positive action or soving leaded latches
- Housing ends secured by unique conser intersect, and

Housing

Hazoy gauge stass. Die formed for even nigdlijk Gritt housings. are designed for installation in standard the "Floor polings transpall Total fills are located in the end of the founding Fluorost francisco for local society features in the founding francial francisco for local society feature in entire names and sing francisco."

Energy efficient, thermally possettes, submissis; resetting, Class H righ passer factor, Child, sound ratio A, magnetic or electronic publishs.

All parts pre-parted with high gross based white entities merchant reflectance to be apprend over the phosphate ore-realment for measurer extremen and cust resistance.

Shielding

MON-class prematic styles, extraced and reli-endouses. disconally oriented female priority unitary observate specified.

All fictions carry the U.S. label (CSA supposes avenue). Use Suffic CEAT



Lancta Local School District - East Fraumories School

Catalog Number: ST824-332G-FAA12.125-3EBBPRSLH277-FO735

5T824-332G-F5A12-3EB8-PAF

Type:

B3

(MEDIADE)

ST824-332

2 x 4, 3 TB Lamps

SPECIFICATION GRADE TROFFER



RC		- 80	3	26						50		٦
HVY	70	50	50	10	70	50	30	10	50	30	10	- 1
1	83	30	87	84	.91	88	35.	·BX	84	82	801	29
21	465	467	.75	Fi	BM.	73	74	70	20	72	AA.	0
3.1	733	7.1	Md.	-80	773	70	04	100	68	193	50	5
1.	73	-51	57	52	24	83	57	50	81	30	81	-
3	67	MT.	50	45	1625	50-	471	44	M	-40	44.1	40
18	62	三!	44	40.	180	30	44	201	45	-43	58	15
10.1	67	455	200	34	3	48	Jq.	Six	44	345	33	. 7
3.	1597	41	.54	20	31	41	34	29	40	33	297	3
3	48	T	30	25	47	36	30	25	35	-39	36	2
70.1	479	34	27	73	:64	-33	27	70	10	26	20	3

Lumenn	Largo	Fld.
2011	26.4	30.0
3054	42.0	49.8
6235	75.3	84.5
2371	84.7	1000
1000	.08	1.85
	2011 3854 6235 7371	2011. 26.4 2054. 407. 6235. 71.3 7371. 847 0 06

	munity was
LD	FLIT Energy Cost \$2 (2) d Wests: 64 BF 39
lim)	Amos knorge citosislima tens Lintal urrig a qualfa lassi- al uertanakin Azbal mada-
XP4	oldy approximation open for major former small before and implest Physician are unimed to change
	All stite



Type B3

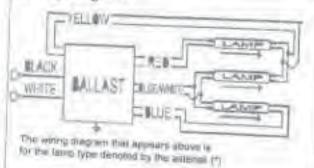


Electrical Specifications

Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Stan
Lamp Connection	Series/Parallel
Input Voltage	277
Input Fraquency	60 HZ
Status	Active

штр Туре	Num of Lamp	Rated Lamp Watts	Min. Start Tamp ("F/C)	Impui Current (Ampe)	Power (ANS)	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crest Factor	B.E.F
F1778	3 1	17	22.00	N 84	Watts)	-	10.70		- many mental.	
F2578	2	-0.6	32/00	0.22	81	1:00	10	0.99	1.2	1.44
	-	25	32/00	0.28	77				10	1.64
+F3278	3	32	32/00	0.34	Did.	0.06	10	0.00	17	1.23
dna Dian				0.00	91	0.88	10	0.99	47	0.97

Wiring Diagram



Standard Lead Length (Inches)

	10,	Grit.			
Black	225	55.0			
White	221	55.9			
Blue	409	100.0			
Red	36R	91.4			
Yekow	360	91.4			
Gray		0			
Violet	- 4	0			

	90.	DTI
YellowBhie		- 1
Blue/White	26R:	41.0
Brown		D
Crange		- 11
Change/Stack		0
Black/White		- 19
RedWhite		- 10

Enclosure



Enclosure Dimensions

	Mediaha dan T	Wagth (VV)	OverAl (L)	
Mounting (M)	condition (HO)	174	9.50 *	
6.90	1.10	1.7/10	0 1/2	
Z 5/10	1 9/50		24.1 pm	
22 f. cm	3 cm	4.3 cm	44.00	

Revised 03/01/2007





Data is bessed upon facts perferred by Advance Transferred by a duminated environment and representative of relative performance. Screen performance is a community environment and representative of relative performance. Screen performance is a subject to obtain notice. All electrications are nominal unless otherwise many.

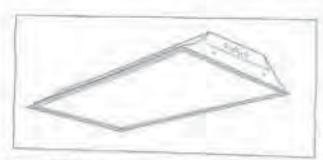


Job Name:

Laketa Litera School Franciscan School of Chottery - East.

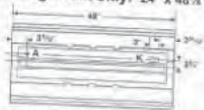
Catalog Number: ST824-332G-FAA12-125-EB8PRSLH277-F0735 Type:

B3-2BAL



Cross Section 21/2 20 Tax Stamps Layer 7456 24 1/4 # 49 1/4 2 x 4 34,mps François

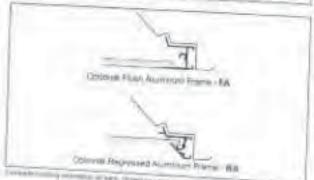
Flanged cut out dimensions for single unit only: 24" x 48%



A - W Domivier Greenout

K - T x 3" demagn, now for services yours.

NOTE AS promound we is maked delegation and the observed are assessed to thange wifers other Plane served body or price about to enthance



of months of the Commission of the State of

ST824-332 SPECIFICATION GRADE T8 TROFFER 2' x 4', 3 T8 Lamps

Type. Addressergment

Features

- Optical performance designed for TR lamp inchrology.
- 2.0 minerum spacing from eastern of large to bettern of
- Mechanical agressal.
- + Affrication, post-parential above from some positive economic
- + Spring loaded uspries options:
- Roted fixture edges reduce risk of injury during figure pandling and installation.
- integral Tiber clips quickly secure fature to grid system without the head for time-consuming occur parts.
- Snap-in taking olyens can be removed when arross are
- Corner hinging for easily insertion and remove of door frame from either side
- Optional flush or regressed authinum sheriding frames, systams with pussive action or stinno loaded latches.
- Housing ands secured by unique corner interlock and

Housing

feetry gauge steel Car fermed for earn madity Crist housings are designed to installation in sharidard "he" T-bar sallings. Principal Pitar cities are located in the entrol are housing.

Principal housings by hard callings from an entry floring with

Ballasts

Energy efficient, thermally protected, a sumula receiving. Dass F high power factor, CBM, shand relad A. magnetic in-

As party pre-presided with high gloss baked white ensemed malimus reliactance Selfs, applied over tim phosphate pre-produced for maximum adhesion and real reliabilities.

Shielding

100% Over priematic acrylic, manufast and missimpossed, degrands orlened farcate priems, unless otherwise identified

All betures carry the U. lebel. CSA epproval evaluate Usa



Job Name:

Later to Local School (Seed of the Control of the C

Catalog Number: ST824-332G-FAA12.125-EB8PRSLH277-FO735

Type:

B3-2BAL

(FEDAM)

ST824-332

Z = 0', 3 T8 Lamps

SPECIFICATION GRADE TROFFER



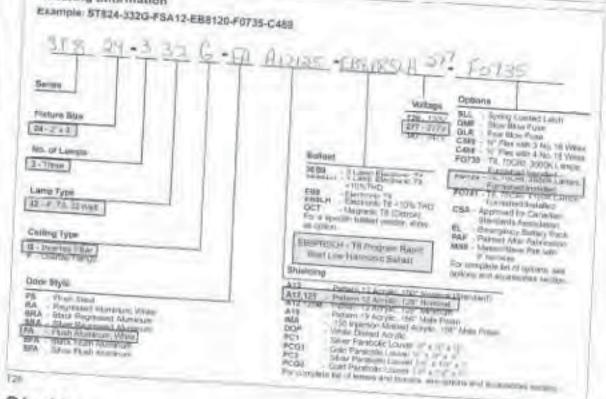
241		TZSE!		CHIE	_	da u	d Lim	Side Street			15. Tales	0 T.
by.	79	90	30	16	70	50	30	10	56	100 30	10	0.0
1	16	80	75	10	10	B8	85	3.2	54	30	80	70
¥.	79	71	05	10	77	71	84	80	75	79	82	94
4	73.	BE	57	30	71	60.	17	100	200	D5	20	-56
4	61	20	00.	40	66.	56	49	44	54	48	48	41
7	55	AC.	39	34	-	20	44	30	43	43	38	36
8.	屋	40.	34	28	51	45	-20	겠	96	38	33	/31
8.)	46	37	30	in.	47	30	3/1	20	40	33	29	17
X.	43	34	27	22	M.	33	笳	22	32	26	307	2

Zone	Comers	Lamp	Fiet
0-40 0-60 0-90 6-160 5-160	MS4 6215 7271	#25 #25 #1 1 1 1 0 0 7	901 492 84.6 100.0

Emergy Data

LES: PL-71 Energy Core \$1 12*
Septer Warms for the \$2 12*
Septer Warms for the \$2 tops for head for the september of the \$2 tops for head for the september of the





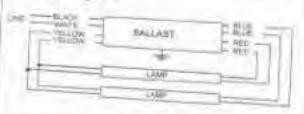


upe B3-ZBAL

VCN-2	S32-SC	٦
Brand Name		-
Ballaut Type	Electronic	7
Starting Method	Programmed Start	-
Lamp Connection	Senes	-
Input Valtage	277	Η
Input Frequency	60 HZ	+
Stetus	Active	4

Electrical Specifications

Lamp Type	T-60				Status Active							
22000 1100	Num. sef Lamp	Rated Lamp Watts	Min. Start Temp ("FIC)	Current (Amps)	Power (ANS)	Ballaut Factor	MAX. THO	Power Fector	MAX Lamp Convent	R.E.F		
F1776	2	17	32/00		Waten		- 84	12.5	Crest Factor			
F25TB	2	25	32/00	0.15	20	1.00	10	0.00	1.0	-		
*F3218	1 2	32	32/00	0.25	63	0.95	30	0.99	1.5	2.56		
latera Ma			100	0.33	63	0.86	10	0.96	11	1.79		
iring Diag	ram				I-			4-30	1.7	1.40		



Diag. 21

The wring diagram shall appears above to for the Gerna typer deviated by the esseries (*)

Standard Lead Length (inches)

		3 - 1 - 1
100	iri.	CITE.
Black	221	35.9
White	22L	55.9
filue	26R	68
Pility	200	190
Yellow	362	91.4
Caray	- 1	.0
Villat		0

ALC:	(0)	-Sm
Yellow Bitte	100	0
Missivatile		-
Brazway	-	- 0
Orange	-+	- 0
Drange/Black	-	- 0
EDANG DATE		- 0
Ellack/Vihite		n
Red/White		-

Enclosure



Enclosure Dimensions

OVERAIR.)	Whath (W)	(Maketal III II)	
9.50.1	170	Ladiflus (M)	Mounting (M
9.1/2	1.7/10	18	8.90 °
24.1 cm	4.5 cm	1.9/50	8 9/10
	4.3 200	3 cm	22.0 cm

Revised 11/11/2001





Date in based upon feets performed by Advance Transformer in a constrained interpolation and representative of relative performance. Against performance and advancing on participations are authors to change altered review. All approximations are described in the formal unities performance. Come is based upon tests performed by Asyanta Transferner in a continued ammoniment and representative of settline performance Asian performance of the performance o

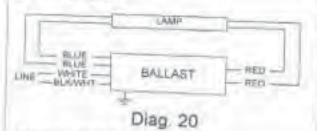


Type B3-2BAL

VCN-1	S32-SC
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Senes
Input Voltage	277
Input Frequency	60 HZ
Status	

Lamp Type	Mun. of Limp	Rated Lamp Watts	Min. Start Temp ("F/C)	Current (Amps)	Input Power (ANS)	Ballasi Factor	MAX THD	Power Factor	MAX Lamp Current Crast Factor	B.E.
F1716	1	17	12/00	0.08	Watts)		100			
F26TB		24	1		72	5.00	10	0.97	1.7	4.55
+F3218	4. 1	- 62	32/00	0.10	26	0.95	10	0.98	3.4	
E-178 547	7	72	32/00	0.13	34				14	3.38
						0.90	10	0.98	9.7	1 10 00

Wiring Diagram



The winnig diagram that appears above is for the tamp type denoted by the asterliek (*).

Standard Lead Length (Inches)

	_Att.	DM.
Slack		0
V/hillar	221	65.0
Blue	366	914
Red	2672	0.0
Yestow		0
Direy		70
Vidlat		- 6

	- 81	Omi
Yellow/Blue		- 0
Eliup/Vihita		Ó
Brown		0
Civarige		0
Orange/Black		- 0
Briedk/White	374	55.9
Para/White		

Enclosure



Enclosure Dimensions

OverAs (E)	Wan (W)	Height (H)	Mounting (M)
9.50	1.7=	1.58*	E 90 =
81/2	1 7/10	1.0/50	B W10
24.5 cm	43 cm	3 cm	22.6 cm

Revised 11/13/2001





Bata is because upon seem portured by Adverse Transformer in a controller environment and representative of receive performance. A many participant of the performance of the performanc



Job Name: Ealines Loop Spicer Owner Law Franciscon School Catalog Number: ST824-432G-FAA12.125-EBBPRSLHUNV-FO735

Type:

B4-2BAL

DEST-4781

ST824-432

C+tumbia

Z x 4, 4 TB Lamps

SPECIFICATION GRADE TROFFER



- CARLES AND THE PROPERTY OF SHORTHWAY.

ST824-432G-FSA12-4EB8-PAF

States (Feet 1.23 Name 1.30) Person for 12562 THIS STATE AND

RC I		80				7	4			10	10	- 15
HOVE	70	80	36	10	30	94:	30	50	190	30	10	. 1
	ŵ	-58	85.	ici.	95	83.	1967	61.1	101	11	19.	173
-2	As	76	74	700	. NK	0.1	Th	70	71	77	0.0	103
3.	78	71	60	60.	78	.09	64	60	ET	152	50	50
4	.72	294	57	52	71	82	56	50	80	55	311	48
10.1	-107	80	50	45	85	56	-20	Att.	50	140.	MA.	43
10	80	21	M	38	60.	201	-94	39	49	43	10.	3./
100	.57	40	.29	36	66	46	99	34	AA	39	24	Di
. 6	.63	42	25	30	51	41	30	20	40	34	30	28
.9	45	.37	31	26.	41	30	31	en.	30	30	The same	2
10	45	34	29	23	.64	34	27	.83	33	27	23	2

Zone	Lumena	Lamp	Plat.
0-30	5120	26.5	32.7
0-80	5005	45.7	52.4
E-60	824E	TUX	85.3
2-00	9963	65.5	100.0
90-193	0	9.0	- 49.0
D-180	9963	#3.3	100.0

Enwyy Data

LER: PL 27 Energy Cont \$3 12" report from: 310 BF - 58

The beautiful manage associations were companied calling a specific series foliated performance. Author would may york patienting upon the limit and tagline your Lamp and budget SCHOOL SECTION AND SHAREST RESTRICTED BY a Triang nation.

Compagine encer young prop-up on 100 serious sapples sink fours and 50 kb ps (IV)

Ordering Information

Example: ST824-432G-FSA12-4EB8LH120-F0741-C388



FORGING SIZE

24,754

No. of Lamps & Fills

Lamp Types 32 . F. TA. 27 WHI

County Type

A - Invened Table

Diser Style

Fluir Steel

RA . Trepreper Nominan Vising BEA . Stock Pages and Algorithm

FR - Free Abstraction Wilde SPAr ... Direct Plant Abureaum

126-1207 274 - 2779/ 347 - 2479

UMV - 1200277

(EBI 144,600 Electricity To office Atlant Carlons

Electronic 18 CONTRA THE THE

OCT OCT Negrate 18 (Com-Mon.en.gdbp

this. Stori Blov Fute **GWF**

GLR: Fast Blow Futer GCR FIRE WIT 3 No. 16 Wins COM4 N Fire WIT 3 No. 14 Wins COM4 N Fire WIT 3 No. 14 Wins COM5 N Fire WIT 4 No. 14 Wins GCR N FIRE WIT 4 No. 14 Wins FOTON - TE. 70 CRU 3000 Compo.

POTTO - TYL YOCKIL STOCK CARRY.

FD181 - 72 70CRL #100C arms Approved to Canadan

Threath Amicini, EL Country battery have PAF - Femal Abe / remains Plantoproteing the ortophore, was CONTRACT OF CHILDREN SWITCH

Battler 17 Graph: INT Acceptable Consistent!

Frature 12 Accepta 127 None at
Puttien 12 Accepta 128 None at
Puttien 10 Accepta 128 None at
Puttien 10 Accepta 128 None Priori
15th equation Change 128 No. 15th Accepta

White Ourse's Accepta

Short Paratte to Louise 128 No. 15th Accepta

Godd Paratte to Louise 128 No. 15th Accepta

Be of Manager 128 No. 15th Acceptable

Be of Manager 128 No. 15th Acceptable

Decorations and Decorations

Decorations ax1 ATE MAN

DOR PC1 PC01 PCI

PCSS2 GUS Farabotic Louver 1 (F. a. 1) (F. a. 1)

For complete the of lemma and business, was recover and access one are the trans-

HIGH FREQUENT ELECTRONIC BALLASTS

For 30W - 48" Lamps

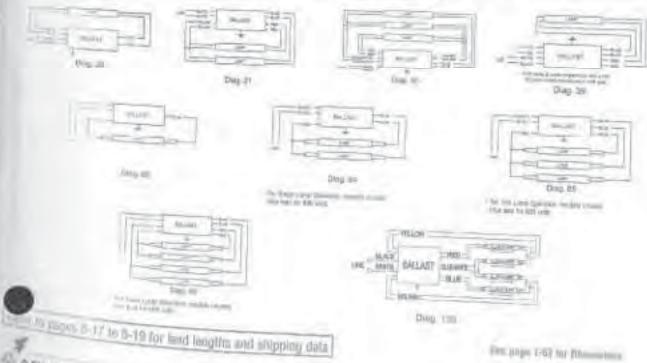
OTHER PACTOR SOUND RATED &





no. sé Lemps	Imput Volta	Lamp Elasting Method	Somet Tamby	Catalog Number	Power ARTI (Vintio)	Biolisci Facion	Mer. THO	Line Current (Advyc)	Min. Starting Tomp. ('F/'C)	Dim.	Mining Dia		
3218/8	ES (30W	- 48")											
			Charles	HEL-4P32-LW-SC	91	0.75	20	0.76		_			
		18.	Standard -	REL-APIZ-SC	104	98.0	70	0.87			60		
	100	PS	Cimium	RCN-4582-SC	134	0.88	10	0.97	5.00	5	138		
	120			ROP-4782-LW-SC	160	0.78	10	0.75	80/16	200	100		
		/S	Optimum	ROP-4PEE-SC	102	68.0	70	0.88			88		
				RGP-4732 HL-90G	133	7.18	1.07	1.12		K	100		
		100	Paradian	VEL-4P33-LW-SC	91	0.75	20	0.33		-			
	111 4	18	Standard	VEL-MP32-SG	104	titte	200	0.38	1 14		86		
977	PS	Carmini	VCH-4532-5C	358	0.86	10	0.42	200	8	138			
	271	IS				VDP-4P32-LW-5C	72	0.03	iQ.	0.32	3)'05		1,000
4			Optioners	VDF-4P92-SC	161	0.88	10	0.57			66		
				VOP-APSZ-HL-90C	132	3.18	30	0.48		A	90		
			Communi -	10%-4P32-LW-80	96-19	0.77	10	£76-03E					
			Petronettic	ICN-4P92-SC	185	0,88	96	0.66-0.38					
	Section 1	18		10P-4P32-LW-SC	90-88	0.77	10	2.76-0.33		8	66		
	130-277	1.00	Name of	IUP-4PIZ-SC	102-100	0.00	10	9.86-0.37	6076		945		
		-	Optimium	(09-4P82-HL-90C-0	142-140	1.1E	10	T.21-0.51	200	G			
9		79		IOP-4532-LW-90	36-64	0.21	10	0.71-0.31			1 77		
				10P-4532-SC	102-100	0.88	10	0.86-0.37		- 6	138		
	147	/5-	Streams	SBL40354W	180	0.70	79	0.26	1000				
or Can				BEL-4P32-RH-TP	162	0.85	20	0.30	50/16	R-	56		

Optimizer 2.0 (30P) modes a recommended to reduce stration in energy severy T8 immps (25W, 25W, or 20W). Remote or tandem on the conversion T8 immos (25W, 25W or 30W) is only recommended for Optional 2.0 (10P) modes.



time garges 1-67 for Discourses

For 32W Lamps

A DETAIL CHOICE PACTON EDITION WITH





No. of Lamps	Negrati Veftsj	Lamp Starting Melited	Ballani Fumily	Catholog Humber	Power ABSI (Writz)	Bullest Fother	Blaz. TMD %	Live Correct (Aund)	Starting Terup, ("F/"C)	Dies.	Milying Dis.		
3216.	FB031TE	F3218	U6 (32W)										
			AmbiSar*	BEB-2P32-90	58	0.88	120	0.60					
		1		REL-2P30-LW-9C	51	0.75	20	0.64					
				REC-2P32-50	58	0.57	20	0.49			54		
		15	No. of Co.	REL-2P32-HL-80	77	1.20	20	0.65	DF-16.				
			Standard	REL-SP32-UV-SC	55	0.87	20	0.49	201	- 8			
				REL-3F92-5C	85	1.81	20	0.54			165		
	120		-	FEL-3732-HL-85	-85	1.32	20	0.71			.40		
		P5	Centinery	PON-2532-EC	63	0.58	10	0.63	37/0		100		
		RS	Powrkyt	INC-2532-TP	82	0.67	15	0.50	50/10	A	21		
				NOV-2P32-UW-60	43	0.78	10	0.41			20		
		-	O-towns	FIQ#-2F32-5C	55	0.61	HI.	0.47	10000	200	64		
		18	Optanium	R0P-3P32-1W-SC	54	0.65	10	0.45	30-18	В	-		
				RDF-3P32-5G	63	0.94	10	0.53			768		
	200	- 25	Pawrin	VK-2932-TF	63	0.57	-15	0.29	50110	- 1	21		
				VEL-2P32-LW-50	- 61	0.75	20.	0.10					
				VEL-QP20-8C	38	0.87	20	0.21	5		64		
		18	Standard	VEL-22/32 HIL-SE	. 77	1,20	20	0.29	nere.				
	277	10-	GENTALIN	VEL OPSE LW-SC		0.67	20	0.21	0/-18	n.			
				VEL-3P32-6C	16	1.03	20	0.24			+05		
			5000	VEL-SP30-18-50	16	1.32	20	0.21					
		75	Derrigen	VGN-2832-5C	53	0.88	10	0.23	33/0		21		
		RS	Powrkid	VK-2532-TF	62	0.87	35	0.24	50/10	A	21		
			-	16			VOP-SP32-LW-SC	48	0.78	10	0.17		
E)					Options	VDF-2P32-SC	55	0.86	10	0.20	0/-10	n	134
					Open	VOF-3P32-LW-SC	54	0.85	10	0.20	- Great	E.	188
				VOP-3932-5C	83	0.54	10	0.24			1.44		
				ICN-ZM32-MC	50	0.88	10	0.50-0.21	1	42			
				EN-2P32-LW-SC	60-49	0.77	10	0.42-0.12](1 1		54		
			Cartriam	EN-2P\$2 6C	50	0.35	10	0.49-0.22					
				€N-3F32 LW-5C	57-58	0.86	10	0.48-0.21			165		
		100		EN-3P32-SC	So.	1.01	10	0.54-0.24			- 60		
		15		KIP-SPSE (W-BI)	40	0.77	10	D.41-0.17					
	120-277			(0)F-(0P32-65) (0)F-(0P32-66-50)	58-5X 19-7Z	0.07	10	0-17-0-30	0/18		84		
			Cotomero	10P-3P32-1V-50	35-54	0.05	10	0.46-0.25		4	-		
			and the same	GP GP3E-60	60-62	1.00	10	0.50-0.73			FRE		
				07-2532-UW-SC	80-79	1.56	10	0.07-0.25	4				
		PS		10P-2532-60	\$6-55	0.71	10	0.38-0.17			27		
		1000	Mari 5	5C-2S32-92	61	0.85	10	0.47-0.20	4				
				SEL-2P32-UV-SH-2F	52	0.75	10	0.51-0.23		-	-		
		15	Startiero	GEL-2P\$2-\$C	50	0.87	20	0.15	D/78	A.	- 54		
	300	HS		GEL-2932-RN-TP	62			0.17	1000	- 4			
	247		200	GCM-RP32	3/1	0.00	20	0.18	32/0		21		
	261	15 Continue		SHEATER BY GREEN	311	0.00	10	0:17	200.00		8.6		
		165	Contiers	6CN-2532	62	0.10	10	0.10	32/0	A.	-		

- The source Architigal ballance are mornal power factor and labelled. For Persidential Use Outy

Feeler to progres 5-17 to 8-19 for land langiful and altiputing data

Dan page 1-62 for Discontinue Dan page 1-67 for White Dispress



Job Name:

Lacina Look Street Olded - Sail

Catalog Number: P424-332G-LD36-S-EB8PR8LH277-F0785 Nilles:

Type:

B5-2BAL

LEHOT-AUTS



_											
RC-I		- 1	KI .			7	0.			90	
HR!	30	20	30	10	70	20	30	10	30	20.	150
	85	int.	-81	-	105	10		24	T/U	'n.	75
3	194	70	77	46	70	74	71	26	72	10	34
	74	Air	83	65.	73	67	lig.	80.	46.	àn.	- 63
100.4	No.	His	190	14	-016	41	100	Jan.	166	54	157
116.1	36.	95	-10	46.	140	-84	402	MK.	.23	-14	40
116.1	30	301	8.5	20	100	-0/	-01	73/4	38	4	
	144	35	29	3.7	1111	-	100	ika i	(3)	20	34
1.0	56	162	.94	25	40	25	31	29	200	-20	28
1.00	M	100	24	75	4/1	35	29	8	3	-31	20
100	40	30	34	200	LAC	100	25	27	0.1		

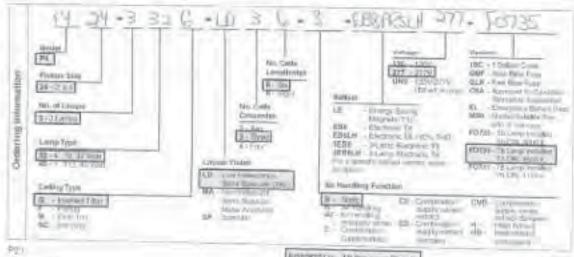
0.00		.,,	HILC		19-					٣.
Distance	me.		-	Here					natro	
21	***	4.1	*3.0		19,0	19.	68	104	13.0	19
		- 19	186	100			34	46.	100	'n
25.5		18.7	78	м.	91		-	-	-81	м
8.2		111	7.9	**	-66		911		310	=
- 7.7		199	10.	9	171		- 11	16"	54	71
-61.6		-0.1	100	N	781		711		100	-
		:01	181	.14	25		- 01	-	10	74
90.00	9	-0.4	79-	76	100.		70	100	10.0	'n
. 20.0		180	-		10.0		91	46.	45	54
100 10		- 00		-	79		77	-	-	ы

LER: FP-01 Energy Coat: \$3.64" Imput Water: 90. BF: 37

The story energy calculations were emetacined using a specific large basked commercian. Actual resolutionally we expending upon the large and belless used curring area. halliss specifications are subject to charge without richiai.

Companies are on the light ways and the least of the least of based on 3000 feature and 90-08 per William

	1	TENTH OF SELECTION
200		Bull a part spec
fide-	44-	
	WILL THE	
	4 W M	4 4 6 W W W W W W



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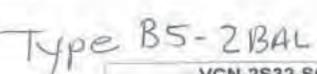
Enterny (



Editoristics 19 Program Rapid Saft Low Paymonic Balant

married surround base

1600

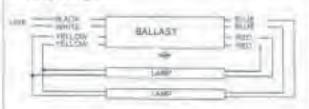




Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	277
Input Frequency	80 HZ
Status	Active

Lamp Type	Num of Lamp	Rated Lamp Watts	Min. Start Temp ("F/C)	Input Current (Ange)	Power (ANSI Watta)	Ballest Factor	MAX THO %	Power Factor	MAX Lamp Current Crest Factor	B.E.F
FAJTE	2	17	32/00	0.15	39	1.00	30	0.99	1.7	2.58
FXSTS	2	26	32/00	0.20	53	0.95	10	0.99	27	1.79
* F3278	2	32	32/00	0.23	63	0.88	10	0.99	1.7	1.40

Wiring Diagram



Diag 21

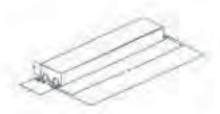
The wiring diagram that appears above is for the lamp type denoted by the satures (").

Standard Lead Length (inches)

	Jim.	CRI
Black	22L	55.9
White	221	55.9
Blue	20R	
Red	26R-	96
Ablow	300	91.6
Gray		0
Missel		- 6

	49.	CRN.
Yellow/Blue		0
Blue/White:		-0
Brown		- D
Orange		- 0
Orange/Weck		10
Bleck/White		0
Threst A Minutes		U

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mourning (M)
9.50	17=	7.18	8.90
9 1/2	1.7/10	1 9/50	8.970
24.1 cm	#-3 cm	3 cm	22.0 cm

Revised 11/13/2001





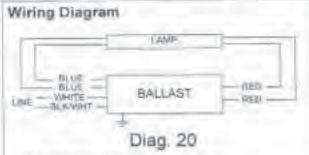
Data is based upon taxes performed by Advance Transformer is a committee environment and recreasing of receive performance. Actual performance can vary asserting on operating possible at the meaning are subject to change without come. At againtigations are remine actions different actions.



Type B5-2BAL

VCN-1	332-SC
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	
Input Voltage	
Input Frequency	
Status	Active

Lamp Type	Num- of Lamps	Rated Lamp Watts	Min. Start Temp ("F/C)	(Amps)	Power (AMSI Watte)	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crast Factor	BEF
ETTTO	Centique	17	32/00	0.08	22	1.00	10	0.97	1.7	4,55
FESTE	1	25	32/00	0.10	26	0.95	.10	0.06	1.7	3.30
+FOOTB.	1	32	32/00	013	34	0.90	10	0.98	4.7	2.65



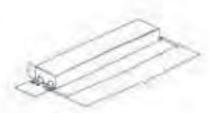
The wiring diagram that appears above is for the large type denoted by the asterisk (*)

Standard Lead Length (Inches)

in.	CERTS.
	0
22L	66.6
361	91.4
2/D41	06
	- 5
	0

	174	OWN
Yelsw/Blue		- 0
Skyar/Vymag		D
Brokes		0
Change		0
Cirange/Black		
Discs/White	221.	56.0
Hest/White		0

Enclosure



Enclosure Dimensions

CiverAll (L)	Width (W)	Height (H)	Mounting (M)
9.50*	1.71	1.157	8.90 **
9 1/2	1.7/10	1.9/50	8.9/10
24.1 cm	4.3 cm	. 2 cm	22.6 cm

Revised \$1/43/2001





Data is based upon tests performed by Advance Transformer in a controlled embourment and representative of relative performance. Active performance can be sent to the performance of the sent to the



Job Name: Lands Lincol Scient Daniel - Eso. Freedmin Scient

Catalog Number. ST824-432G-FAA12125-EB8PRSLH277-FO735-G3 Notes

Type:

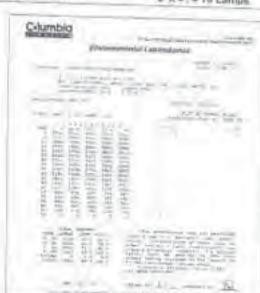
B6-2BAL

(22214)61

ST824-432

2' x 4', 4 T8 Lamps.

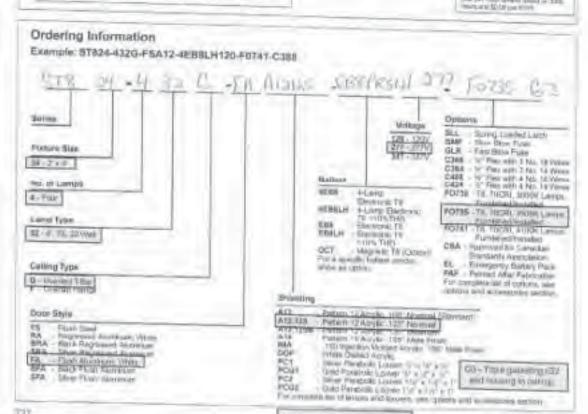
SPECIFICATION GRADE TROFFER



14	nuny n	9894	-	Court		(2.) (b) (1		izan	in .	E 1.2	2 Nov	meg
NV.	70	10	50	10	10	50	30	10	B	30	10	1
31	80	300	BE	(11)	(91)	87	54	RI	63	81	70	24
	165	.79	14	30	83	27	73	907	In	71	67	12
9	73	31	6年	NO.	.70	60.	194	WO .	1.7	162	66	-33
4.1	32	34	67	52	71	ici	50	100	-81	525	-	20
6	MT.	52	00.	CAB	NA.	500	411	120	200	100	40)	48
	167	57	44	59	195	77	32	70	35	40	191	-89
1	307	diff	852	38	794	107	70	37	-0	(98)	28	95.
ir i	86.	42	-380	0.0	2.1		35	30	44	-39	-38	72
0.1	NO.	67.	30	50	24	31	20	36	10,7	36	00	76
ñ-1	MC	24	700	200	200	ar.	31	20	761	30	20	-54
-		34	900	D	90	114	27	29	255	37	29	74

Zone	Lumens	Lamp	First.
0.30	3124	20.0	32.1
0.40	5065	49.7	824
Deb	3245.	75.8	85.1
W3-180	99902	80,3	1200
0.100	20063	00.7	93

	argy Data
INDER PROPERTY	Energy Cast \$3.72 118 99 46
talial tenti hiti ray dap hiti salah ya	miles Arme results entry spectra land his Lang trespansa are papers for thoogs.



727



EBWYES, For TR Program Report Black Law Harmon's Ballet.

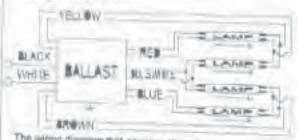




VCN-4	S32-SC
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Senes/Parallel
Input Voltage	277
Input Fraquency	80 HZ
Status	Activa

Lama Type	Num. of Lamp	Nated Lamp Watts	Min Start Temp (°F/C)	Current (Amps)	Power (ANS) Watts)	Ballast	MAX THD	Power Factor	MAX Lamp Current Creet Factor	B.E.F
FEATTR	A	17	32/00	0.29	79	1.00	100	0.00	7.5	-
F2578	4	25	32/90				7.0	0.05	17	1.27
				0.36	101	0.95	10	0.90	4.7	0.94
FORTE	4	32	32/00	0.45	121	68.0	10	0.99	1.7	0.7

Wiring Diagram



The wiring diagram that appears above is for the lamp type panoted by the asteriak (*)

Standard Lead Length (inches)

-	NT.	dm.
Black	221	55.9
White	221	55.9
Bice	389	B1:4
Red	18R	91.4
Tellow	46.	116 à
Bray		0
Violet		D

	in.	CITI
Yellow/Kum		- 1
BlueWhite	SHIS	91.4
Brown	480	110.6
Orange		-6
Crange/Blace		- 0
Black/White		- O
Regivities		0

Enclosure



Enclosure Dimensions

Mounting (N)	Height (H)	Width (W)	OverAll (L)
8.90	1.18*	17"	9.50*
8 9/10	1 9/50	1.7/10	9.1/2
25 6 on	3.00	4,3 cm	24.1 pm

Revised 03/01/2007





Date is bread upon tears performed by Advance Transformer in a communical environment and representative of reading performance. Actual performance san vary depoleting an operating conceiling. Southingsome are subject to change without notice. All appendications are nominal unless offertaken notice.



Job Name: nu Denis - East Francisco School School

Catalog Number; ST822-240TTGFAA12125-EBT1277-F40+TB35 Notes

5T822-232U6G-FSA12-EB8-PAF

Type:

B7

ABOUT-ALIE

ST822

2 x2,2,3 & 4 Lamps

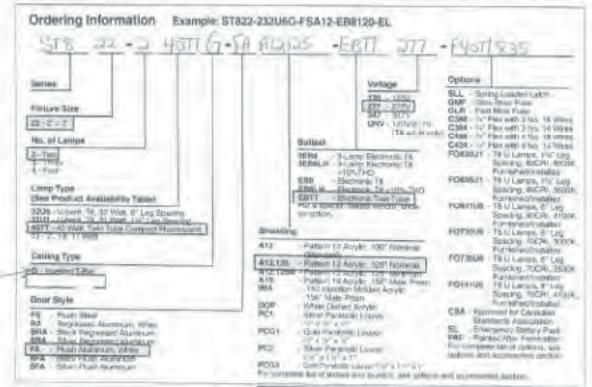
SPECIFICATION GRADE T8 TROFFER



100	any li	let'rel	-	oem	2011		UIII	jan/iu		Sex N	Palle	
BC T	-	M				7	73			90		0
FIME.	.70	30	38	10	70	50	30	79	20	30	.79	0
	87	Act -	(87	719	85	ME.	79.	44.	19	1/0	761	m
3.	W.	78	70	300	70	71	01	40	79	306	100	700
3	78	10.00	30.1	543	100	705	00.	-56-	10	611	50	50
16.1	681	10.0	AY	400	100.	-50.	100.	155.	.62	52	48	40
16	63	53	10	42	(0.0	52	40	42	51	14/5	45"	31
8	-58	48	RE	37	56	MT	-01	36.	46	30	28	34
31	-60	Md	37	32	AZ	10.	7365	42:	41	38	30	34
0.1	45	36	32	28	Ab	36	32	25	37	30.	7.0	26
25	45.	36	43	24	0.8	36	-26	JA:	34.	20	24	- 27
hà:	167	123	28	23	41	31	25	21	21	25	21.	33

Zone	Lumma	Lamp	Flut.
0.00	1408	34,7	35.4
5-00	93/87	AD. 1	图 8.25
24(0)	2791	88.5	84.6
0.90	4883	70.6	100.0
00/1807	.0	0.0	0.0
0-180	9462	78.6	1000

LDF PL-73 Energy Cost 53,29 legat Winter 34 BF : 38 The costs overly processing a service of costs overly and costs overly processing a service of costs overly better than the costs overly better than the costs over	En	ergy D	nily.
continued asing a sum for larger radius community, or the property was very immering after the pro- tee radius, and party and sufficient the radius and party and sufficient property and party and the com- party of the property of the pro-			
the ridding land, party and following	scretcyted as	PS 6.500	ETV APRIL
provided the last state of the last			
		201 446	
	Deputers on the title	letter i in	100 100



C-lumbia

PROTEIN TO HIGH Dayou P. S. Propagation Section Advanced Social Column

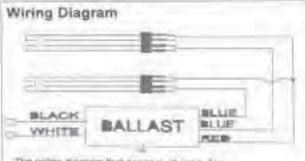




VICAL STTDAM SC

VCN-	211	P40-30	
Brand Na	arma (CENTIUM	
		Electronic	
Starting Met	hod	Instant Start	
Lamp Connec			
Input Val	tage	277	
Input Freque	ency	50/60 HZ	
		Active	

Lamp Type	Num. of Lamps	Lamp Watts	Min. Start Temp ("F/C)	Current (Amps)		Factor		Power Factor	MAX Lamp Current Crest Factor	BEF
FT40W/2G11/RS	-	40	06:38	p.16	34	0.97	15	0.97	1.7	2.20
· FT4DW/2011/RS		40	07-111	0.20	12	0.88	10	0.99	1.7	1,23



The wiring diagram that appears above is for the lamp type denoted by the asteriak (*)

Standard Lead Length (inches)

The second second second		
	Mt.	om.
Barck	25.0	
White	25.0	
Mise	30.0	
Red	30.0	
Yellow		
Gray		
Volid		

	in.	CIT
Yellow/Blue	-	
BlumWhite		
Brown:		
Crange		
Orange/Black		
Black/Mus		
RegWhite		

Enclosure



Enclosure Dimensions

Width (W)	Height 0-0	Mounting (M)
1.5"	1.10*	8.90 *
1.7/10	1 9/50	8.9/10
4.3 cm	3 (21)	22.5 cm

Revised 68/17/2005





Data is besid upon term performed by Advance Transformer at a culting of entire and representative of results performed performance and performent and performed performed performed performent and performed performed performed performed performed performent performance and performed per

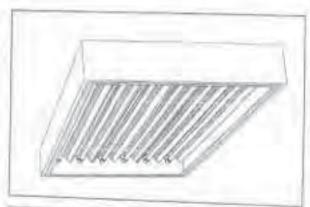


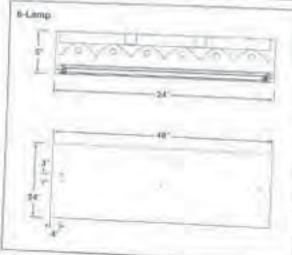
Job Name: Lakole Linux School Delhici - East Freshman School 88

Catalog Number: LHC24-432-FAA12125-EB8PRSLH277-FO735 Molisis

Type:

B8





LHC

Enclosed & Gasketed Linear Fluorescent Hi-Bay 6-Lamp T8, T5 or T5 HO

the Elektryton

- * Exitematy encount fluorescent terminate replaces HID at man and enlother applications
 - . Emergy severage up to 51%
 - * Excellent lumen manifemence (44-95% semilier 65%) for Syprost make names.
 - + Higher maintained jurisons per wat our to 85, versus 40 for typical melor histor hi-bays
 - CANADA VIDENTA *
 - Consequent color
 - Bupwifor color rendering (82-64 CRI), versus 65-70 for metal frainty
 - Wile choos of lamp only.
- regrey soncular corrourne reflectors think light onen to provide excellent various fluorisations
- · Burnery pack openin (CL) provines statass on emissions furtinging (no) available to wat location)
- Optional damp or well receive facing. Wt. #vellable
- + Fully maked howing for use or Come I Clean com-
- Алопуліс выполені выполит долг типне.
- One-piece. Vit gauge element as cold-railed steel doors.
- + Tool-free access to series and balance on element opo-

Riveted code pauge Issue convincion

standard was a play, stocky 100%, regir stryle. For other avalleds as sale torough less option about or operately our Constitution. Specially, the Standard Publishers of Sections concerned absorbed acts or comment overlands to enter between the enter between the entertainty of many contracts of the entertainty of t

Reflector

Chairs of MINO 4 signs reflectures must become approximate reflector they extended approximate account approximate plants of their particular for their best testant expense.

Energy efficient electronic, thermally projected, suitor and resulting. Class P. high power factor, CBM, sound reter A. Positive entities and recreases become surgenistions. All configurations have been held assertion entered execution and participation and provide productions.

Finiah

As steel surfaces are peopled after territation with high class makes white shares, sophied over any program provinces for manufacture.

Direct of moveming harmonic, including the last and feetale DEH adjustable cable system for situation resulting to wood concrete or steel celling depts, or is beams, putting or restal stills. Approvables with harmonic to ensure sections in other as directly to make what Optional

Cartification

First regions a UL/GUL area by U.E. or Canada.



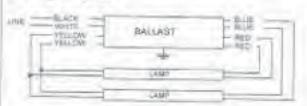




VCN-2S32-SC	
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	
Input Voltage	277
Input Frequency	
Status	Active

Lemp Type	Num. of Lamp	Rated Lemp Watts	Min. Start Temp ("FIG)	Inpul Current (Amps)	Input Power (ANSI Watta)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Cutrent Crest Factor	BEF
F1773	2	17	32/00	0.15	30	1.00	10	0.99		0.00
F251III	2	25	22/00	0.20	42				1,4	2.86
F3278		32		1-00	5.3	0.96	10	0.99	1.7	1.79
7 144, 119		- 74	32/90	0.23	83	0.86	10	0,99	1.7	3.40

Wiring Diagram



Diag. 21

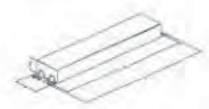
The wring diagram that appears above is for the lamp type deviated by the asteriok (")

Standard Lead Length (inches)

School Park	Pater P	arregus.
	16	0.00
Back	22%	55.9
White	223.	35.0
Elian	28F	.06
Red	269	06
Yellow	36).	D1-4
Gray		0
Motor		0

	in.	OTL
Yallow/Blue		- 10
Blue/Vihito		. 0
Brown		- 13
Orange		D
Otange/Black		- 15
Binck/White		0
RedWhite		D

Enclosure



Enclosure Dimensions

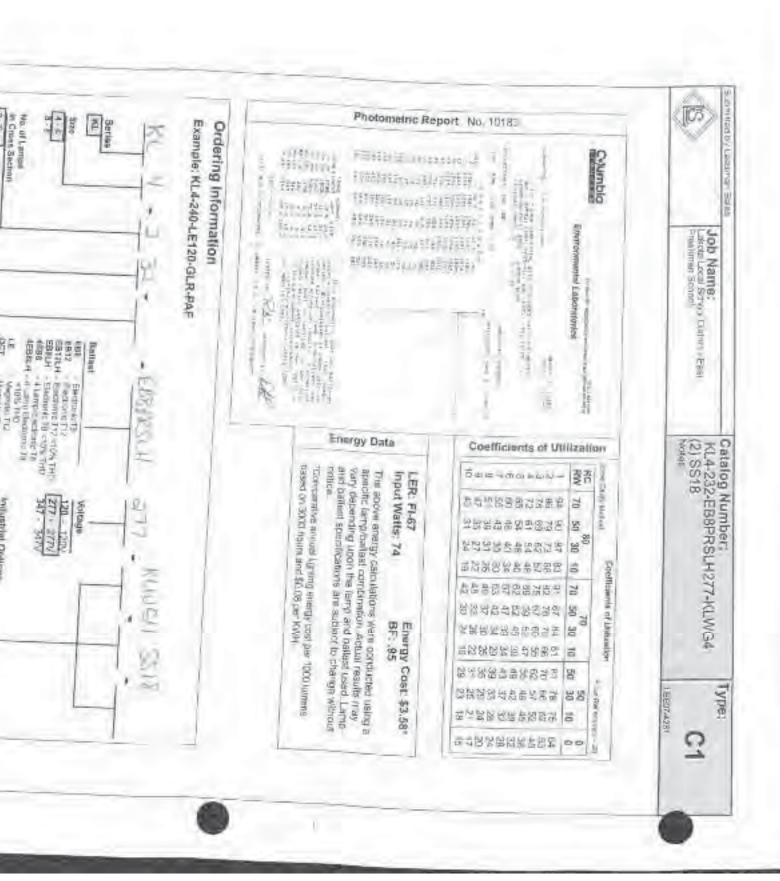
OverAll (L)	Wan (W)	Height (H)	Mounting (M)
1.50 *	1.71	1.19 *	8.00 *
0.1/2	1.7/10	1.9/50	0.0/10
24 1 cm	#3 cm	3 cm	22.6 pm

Revised 11/13/2001





Care is search upon here performed by Advance Transformer in a constrained enteruntation and supresentative of reading performance. Act, at performance can very densiring on operating conditions, Specifications are actived to change without copies. All specifications are remove unless (green and operating conditions)





Type CI

VCN-25	S32-SC
Brand Name	CENTIUM
	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Ingul Voltage	277
Input Frequency	60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num of Lamp	Rated Lemp Watts	Min Start Temp (°F/C)	Input Current (Amon)	Power (ANSI Watte)	Ballast	MAX THO	Power Factor	MAX Lamp Current Creef Factor	B.E.F.
FATTH	2	17	32/00	0.15	38	1.00	10	0.99	17	2,56
F2578	2	25	32/00	0.20	53	.0.95	10	0.00	1.7	1.70
-\$x3T5	2	32	32,00	0.23	63	16.0	10	0.99	1.7	T.40

Wiring Diagram

Diag 21

GM

The swing diagram that appears above is for the tamp type denoted by the asterial (*)

Standard Lead Length (Inches)

In.	OTH
221.	55.9
22L	50.5
269	66
268	60
386	91.4
	-0
	22L 22L 26A 26A

	_in.	cm
Vallow/Blue		- 0
BlueWhite		- 0
Brown		D
Orange		- 0
Orange/Black		0
Bisculvine		- 0
Red/White		. 0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Missening (M)
0.50 *	4.7.1	1.16*	8.80*
9.1/2	1 7/10	1 9/50	8.9/10
24.1 pm	4.3 cm	3 cm	22.6 cm

Revised 11/13/2001







Job Name: Lakes User School Dated - East Frankrich Bibbox Catalog Number: KL4-232-EB8PRSLH277-KLWG4 (2) SS18 C1-EM

EEE-CHI



DE C	erly Villa	end.							- 6	= Th	lear.	=,
RC .		- 1	00	700		- 7	0			30	103	- 1
NON	70	50	.30	10	74	30	30	10	50	30	10	- 1
W	THE.	100	427	0.5	97	RT	154	19/1	(81)	THE	75	A
2	89	79	71	his.	82	76	70	00.	755	156	952	20.00
2.	75.	66	82	D.T.	75	67	60	35"	62	57	52	1
	27	671	34	48	89	592	69	47	: 55	40	45	
5	80	154	.46	40	62	50	45	39	40	42	35	13
4	BC.	48	42	34	57	47	20	34	43	37	-32	the same
2	65	47	:21	30	53	407	34	20	29	23	23.	1.2
	.03	30.	31	75	49	3.7	50	20	70	20	24	13
3	107	35	37	72	45	30	20	22	31	25	21	1
и.	HY.	31	24	75	12	30	24	10	29	23	1.0	Н

LER: FI-67 Input Watts: 74

THREE THE GRAD

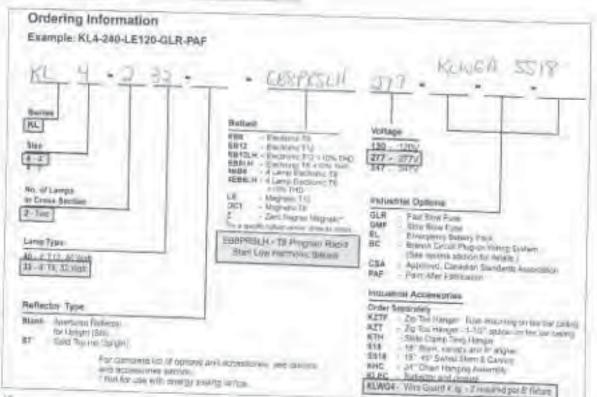
Duta

Energy

Energy Cost: \$3.58° BF: .95

The spove energy calculations were conducted using a specific temporalised composition, Actual results play any depending upon the lamp and ballest cased. Lamp and ballest specifications are subject to change without relice.

"Comparative ground righting energy cost per 1000 symmetry based on \$000 feaths ever \$0.00 per 1000.





Job Name: Laken Line Brind Daniel Had Pandone Setual Catalog Number: S60F

Notion.

Type:

C1-EM

LEGAT-KEST



EXT. Bits 1288 - New York Edway, P.C., 14839- 1709 TOSLI-1811, 869-900-7540 (TAX 327-048-9678) Order Estry (Cys.) mass Service - 7013, 48437, 803-400-4449 (ASS 467-540-070)

S60F

FLUORESCENT EMERGENCY BALLAST

SPECIFICATION GLADIC ONE OF TWO-LAMP EMERGENCE REVALDADED.

APPLICATION

One form the convenient congregacy hadrant works to congruent mean someone to hadron as maken one or employed Emperatural finances into someone about the first contents of a high temperature solving radional taking, the general effect of the property of the song action to the property of the song action of the song action to the property of the song action to the property of the song action to the property of the song action to the song ac



TABLE 1 LANF COMPATIBILITY						
LAMP	BASE TYPE		(EMBRERALL)			
16.18.162.101 00.1236.12301	Delta del	U-09[24]	1			
11, 1404, 1407	-	H - 75 # [E-8]				
1004.000927	CPR (2011)	16 - 27 R	1			
		10 0 W	A			
COMPACT	4-PIK (G24)	18 - 43 W	1			

OPERATION

When it, power fails, the SWF control and control or an incompany made, torque prior yet or yet large differented at a reduced instant copper.

In a control of the control, when M, provide control the both an exact all implies to the Charging made.

INSTALLATION

The SMF sizes and affect normal flattime operation and may be used with either a medicated for consolidated frame. Our weekless of consolidate of the consolidate of

Facilities for the following surveyors, or remove from the factors. The compress belless may be extract contained up to both the distance the AC builders made actively recommends removing the AC builders from the large, or up to 30 test, whichever is fear, foundations to not contained with the property of the architecturing made and all the fact the property of the architecture in the architecture of th

THEORY



Primer annotate.

UL and CODE COMPLIANCE

The SARF has been traced in a index was a consensure in a circlasse with the standards are note in C1914—"Emergency Lighting and Power Equipment," and is 10. Linked to Carter's industries or field standit Emergency Observation stone excepts the Turnound Carter (MCC). The Address Code (MHA-CSC) and 91. Wentbook requirements.





Type CI-EM

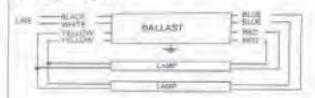


Electrical Specifications

Brand Name	CENTIUM
Ballast Type	
Starting Method	
Lamp Connection	Series
Input Voltage	
Input Frequency	
Status	Active

Lamp Type	Num- of Lamp	Rated Lamp Watts	Min. Start Temp (*F/G)	Current (Amps)	Power (ANSI Watta)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Gurrent Crest Factor	BEF
	N	12	32:00	13.15	39	1.00	10	0.99	4.7	2.55
F1776	2	- 25	-	E-20	63	0.95	10	0.09	1.7	1.79
F2510	2	25	32/00		63	0.88	- 10.	0.99	1.7	1:40
4 F32TB	7 1	32	32/00	0.23	0.7	M-100	346	The second		

Wiring Diagram



Diag. 21

The eming diagram that appears above is for the lamp type denoted by the staletak (*).

Standard Laad Length (Inches)

iri.	.cm.		
221	55 M		
221	55.9		
26R	0.0		
20R	- 66		
30L	B1.4		
	- 0		
	0		
	22L 26R 26R		

	310	SITT
Yellow/Blue		0
Blue/White		0
Brown		0
Crampe		-0
Orange/Black	- 37	- 0
Black/White	1	- 0
Red/White		0

Enclosure



Enclosure Dimensions

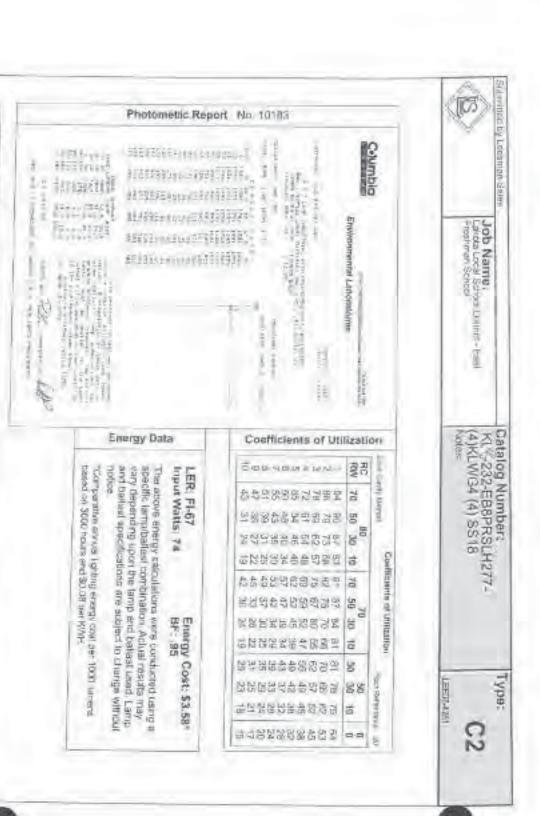
OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.50 "	1.7 *	1.181	8.90 *
0.1/2	17/10	1.9/00	.6 W10
24.1 om	4.3 cm	3 cm	

Revised \$1/13/2001





Data is tracted upon tracts performed by Advance Transformer to a controlling environment and representative of relative performance. Actual performance are published relative and executive are normal unions otherwise.



8bn

SBB - Decimal N EBST - Epolitet 712 - 10% PAD EBST - Epolitet TI - 10% PAD EBST - Epolitet TI - 10% TAD

ALE - 455 ALE - 455 AUCT - 621

Voltage

Ballost

弄

Example: KL4-240-LE120-GLR-PAF

ı

Ordering Information

Section that by Lastytene Serve



Job Name I predictors School District - East Framman School Catalog Number: 560F

MERHIC.

Type:

C2

(BE#429)



Side-Lite

S60F

FLUORESCENT EMERGENCY BALLAST

SPECIFICATION CRACKS
UND ON TWO-LISALP EASING ALL OF LILLURINATION

APPLICATION

The Man's the content area or existing financies in communities with the Sallact to content area or existing financies. Others in correspondy in thing. The emorphics builds contains of a stept to represent mixed contents builds; contains at a stept to represent mixed contents builds; contains contents of a stept to represent mixed to be the party and end contents. The form of the first taken to be the content of the party and of the present to the party of the party and of the present to the party of the contents of the party of the



TABL	TABLE 1 AAMP COMPARISHLITY									
LUIP	BASE 78YE		DENERGENCY)							
16, 79, 5% TO	STREET, SW	17 - 48 9 [2:4]								
TF: 3-1/4", 3-1/2")	46.0	40 - 711 W (2-41)								
ANNO COMPACT	4-em (1970)	4.198	4							
		49-35 6	1.0							
Devict	SATAN	38 - AL R	1							

OPERATION

When AC power fails, he will immediately concluse to the emergency made acting rather one or two larges dominated as a reserved largest constraint of Newtonian When AC power is received, the fact automatically of the chargety work.

INSTALLATION

The 1900's down our effect surround having approximated since to used with course a secure performance had been all contracted a surrounded in the contracted in the contracted in the contracted believe. The enterprise had as sometime for the same branch contract to the AC halford.

The 560 was be invalided unide, or top of an owner from the fineter. The more stay to be some as remove annually her shall be distance the 60 belief manufacturer consecuted remove the 60 belief from the large or or to be inches as less residence in our communical well instance of our regulation to your first large of the positions of the constant o



Fitting occurred.

UL and CODE COMPLIANCE

The 2009 that here being be Undersomers concerns on manufactor of the standards of byth of UL926 + "I suggested by the party manufactor of the second Topics of Topics of Topics of Topics of the Second Topics of the Second Contract of the Second Topics of the Second Contract of the Second Contract





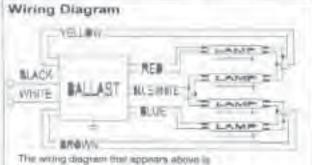


Electrical Specifications

TypeCZ

VCN-4	S32-SC
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series/Parallel
Input Voltage	277
Input Frequency	60 HZ
	Active

Lamp Type	Num. of Lamp	Rated Lamp Watts	Min Start Temp ("FIC)	(Ampe)	Power (ANS) Watta)	Ballast Factor	MAX THD	Power Factor	MAX Lamp Current Crest Factor	BEF
* F1778	4	17	32/00	0.29	79	1.00	10	0.99	1.7	1,27
FROTE	6	25	32/00	0.36	101	0.95	10	0.09	1.7	D.94
F3276	4	32	32/00	0:49	121	0.80	10	0,99	1.7	0.73



for the larry type denoted by the assense [7]

Standard Load Longth (inches)

	40.	. EITH.
Black	225	55.9
White	225	55.0
Blue	36R	91.4
Flad	368	21.4
Vollaw	46L	115.8
Gray	- 1	. 0
Violet		10

	in.	CITY
Vellow/Elize		- 0
Blam/Ahron	30%	91.4
Brown	481.	115.0
Orange		- 0
Orange/Elack		- 0
Black/Vinite		
RedWhite		- 3

Enclosure



Enclosure Dimensions

Mounting (M)	Height (H)	VVIolati (VV)	OverAll (L)
8:90 *	1.10	1.7"	9.50"
8.9/10	1.9/50	1.7/10	9.1/2
22 8 cm	3 cm	4.3 cm	24.1 cm

Ravised 03/01/2007





Date is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance is an very depending on oversting conditions. Specifications are support to change without notice. All specifications are nominal university or previous conditions.



Job Name: anote Listed Town Drawn (* East Francisco School Catalog Number: LUN8-244/EB8LH277-DR-TP

Noise

Date

Energy

Type:

C3

LEECH ALL

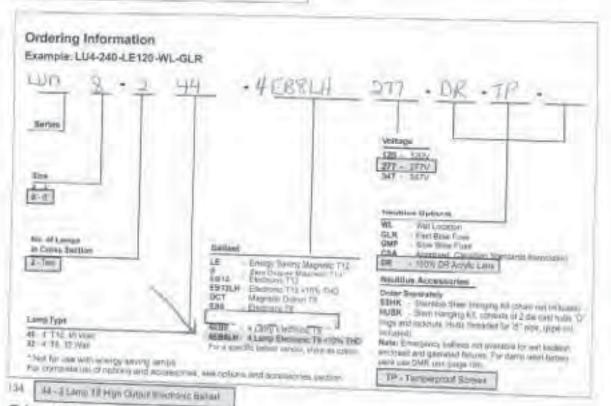


100	edy bis	-		Chef	Ticon I	10 100	unto	-	13	nel les	non	ď
AC NOV	70	50	90 36	10	70	50		12	50	50 10	16	d
-9	74	PÜ	NI.	83	71	67.	64	91	63	60	58	-5
-2.	YES.	80	100	50	104	58	93	46	194	160	67	-4
2	192	50	46	41	5.0	51	116	81	40	83	100	-3
4	55	46	40	-35	13	45	38	34	42	37	18	12
3	100	161	34	79	30	39	33	29	37	32	26	13
	1861	36	30	25	164	30	21)	36/	XI.	28	24	1.5
7	42	30	76	22	21	33-	26	21.	30	24	25	13
	-30	29	21	13	36	26	72	78	27	22	10	
-8	36	26	20	165	10	20	20	16	24	19	10	н
10.	34	24	110	ta	942	23	38	74	27	12	-58	

LER: 50 Input Watts: 65 Energy Cost: \$4.60° HF: 95

The above energy calculations were conducted using a executic tempitalisat combination, Actual results may vary depending upon the lamp and balliationed, Lamp and barries steroflowloom are subject to change without notice.

*Communities arrows lighting areally now per 1900 have a timed any 3000 recurs are \$0.00 per KINH



MOH FRETUYES C3

T8/HO

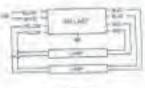
For 44 - 86W Lamps

WEN FACTOR RIVERS NATED &

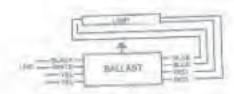


fin of Lamps	Input Veltx	Lamp Starting Method	Boliant Family	Catalog Hamiler	Juput Pensy ARSI (Watta)	Balliot Facior	Max. THD	Limi Corrant (Anapa)	Min. Marting Temp. ("F/"G)	Dim.	Wiring Dia.
F48T8/	HQ (44W							T E and a day			70.6
-	120-277		warmen I	1216-2316	59	1.02	20	0.50-0.23	-20/-29	0	TRA
4	120-277	FG .	Centium	60N-2886	96	0.95	35	0.84-0.36	200	1170	21
EKRTR/	HD (55W	1								_	T He V
(mile) red	120:277			KN-2886	70	1,00	20	0.58-0.26	00/-29	- 0:	39A
2	120-277	PS	Cerobusy	104-2586	118	0.92	16	104-045	20.55		21
	MO (65W	ny .									77
1 141	120-277	PS	Centern	104-258E	五1	1.00	15	0.60-0.30	-201-29		39A
-				REL-2586	790	0.00	50	1.11	80/10	0	100
1	277	RS	Standard	VEL-2586	(10	10.04	20	0.44			21
2	120-277	PS	Cerdium	(CN-258)	140	0.04	10.	1.25-0.54	-29/-29		
-	The second second		Direction.								
FR018	/HO (86W		Townson I	ICN-2886	100	1.00	1.0	0.84-0.36	20/-29		29A
1	120-277	PS	Denuum			1 777		1.36	ENGE		
	120	85	Basedard	REL-2585	180	9.65	23	0.80	50/16	100	21
2	277		The same of	VEL-ZERI	185	D-06	10	1.57-0.88	-20/-29		
	120-377	PS	Centium	ICN-2986	100						





Dag. 21



(Neg. 39/L

For single lamp operation visually vallow tesds individually for 1000V

ATTENUES TO A



Job Name: mena Linear Series (Vision - East) Catalog Number: CS4-232-EBBPRSLH277-CSRA4

Halm (305/8

Typo:

C4

LEBUTAL!!



inst	or it the	-		Dod	tran	by mit	Unio	wint		4	bein	ž,
RC RW	70	50	30	10	70	90	30	40	90	86 30	10	90
12	35	AS:	90	100	60	31	4.7	26	10	M	年	715
1.5	- 65	71	74 63	8	78	TIP 60	15	57	76	8	部	82
1.0	73	40	154	-86	71	61	All	47	15.0	62	47	44
1.9	90	34	46	40	254	53	40	39	51	64	165.	36 36 31
1.0	EX	48	40.	34	559	47	-39	-36	46	-79	-33	
11.20	56	43	36	23	51	45	29	39	44	93	29	50
-0-	-55	199.	30	22	30	37	30	85	37	30	55	20
13	1.55	31	34	21	GE.	31	25	21	33	29	21	11

LER: FI-77 Input Watter 60

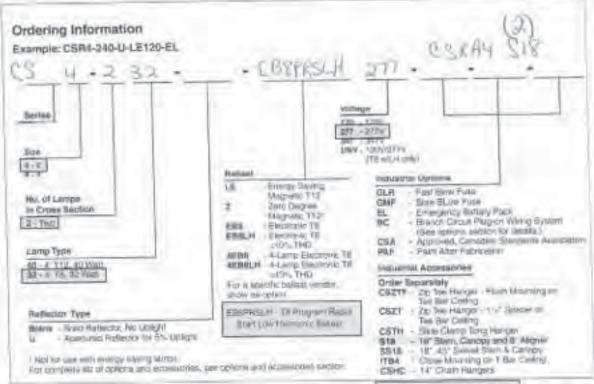
Data

Energy

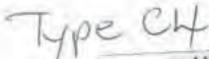
Energy Cost: \$3.12" BF: M

The above energy calculations were conducted using a specific temp/ballest combination. Actual results mily vary depending upon the tamp and ballest used. Lamp and balast coecifications are subject to change without motion.

Comparative entition lighting energy specifier 1000 furnishing



139



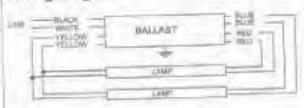


Electrical Specifications

Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
amp Connection	Series
Input Voltage	277
Input Frequency	60 HZ
Status	Active

				See of	Input	Ballast	MAX	Power	MAX Lamp	BEF
Lamp Type	Muni- of Lams	Rated Lamp Watts	Min. Start Temp ("FIC)	Current (Amos)	Power (ANSI Watte)	Factor	THD	Factor	Gurrent Great Factor	
			Accord	0.15	39	1.00	10	0.99	3.7	2.50
F1773	2	- 17	32/00		415	0.95	10	0.99	-1.7	1.79
F25T8	2	25	02/00	0.20	53	-	-	-		1.40
*F32T6	1.2	32	32/00	0.23	(3)	0.88	30	0,99	1	1.00

Wiring Diagram



Diag. 21

The wiring diagram that appears across in for the lamp type devoted by the selection (*)

Standard Lead Length (inches)

difference of	-	-
	90,	CH.
Stack	225	55.9
White	231.	\$5.8
Buss	26R	66
Red	26R	86
Valida	361	61.4
Gray		- 0
Violet		-0

1	- 171	DITT
Vellow/Blum		0
Blue/White		. 0
Brown		0
Orange.	-	10
Orenge/Black		0
Black/White	- 1	- 0
Regovitita		- 0

Enclosure



Enclosure Dimensions

OverAf (L)	(VV) emany	Height (H)	Mounting (M)
9.50*	17"	1.16*	5.90*
9.1/2	1.7/10	1.9/50	6.9/10
24.1 cm	4,5 cm	3 011	22.6 om

Revised 11/13/2001





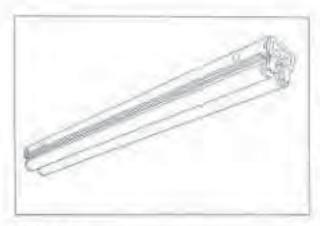
Superisted by Dental Dates



Job Name:

Catalog Number: CS8-232-4EB8PRSLH277-[2]CSRA4 Notes /2)C/9 C4-8FT

BUTT-LINE



CS2-2, CS3-2 CS4-2, CS8-2 STRAIGHTLINER CHANNEL TWO LAMP TS & RS

Typo:	
Joh Describer	

FEATURES:

- · Available 2', 3', 4' or 8'
- · rinny de lamas destinames
- . Rokey lock lampholders by positive lamp contact,
- · Ditarvel ends double as jonera
- Individual or row repuriting. Surface or suspenden.
- Balles open or 5 and 5 units are secured with 10-cyn/faithman

SPECIFICATIONS:

Ballasts

Energy officiant bullents are thermally protected, accountic resetting. Garai P. High power factor, CBM, sound releat A. unless off-erwise specified. 20 wall buildests are trigger start, low power factor, China P. Alf are U.L. Nated.

Hausing

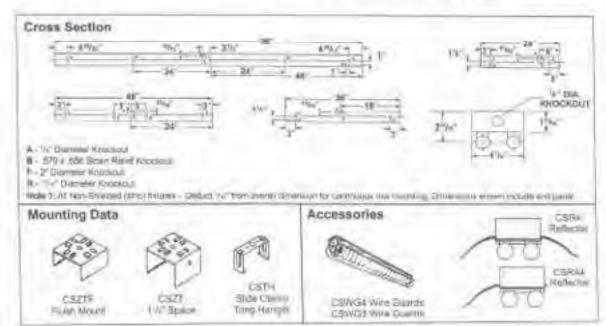
De formed alore with heat with embreuments for cooler runting billests. Socket saddles are factory installed:

Perint

All parts pre-painted with right gross sweat emile ensured minimum reflectance RVIII. applied over not phosphale prelimitation for maximum adhesion and roal resistance.

Labels

All fetures carry the U.L. label 2. 2 and 4 units are listed to the 60 combustible loss density collubes (Rentource college, ICSA approval anniable. Use Suffer CSA*).



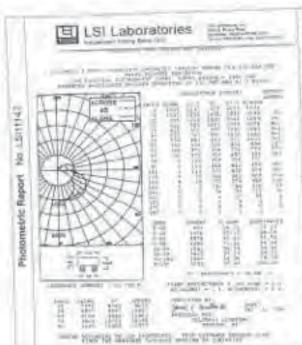
Commence of Learning Solar



Job Name: Lakela Lyrel Screen District - Basi Humani Baroni Gatalog Number: CBB-232-4EB8PRSLH277-[2]CSRA4 Type:

C4-8FT

LERES-LIN.



	ally (MI)								- 17	No. of Section		
RIC RIV	75	50	30	10	yn-	30	20	10	10	M 35	10	8
1	-	11/1	150	34	541	èsi	84	W	81	76	75	80
1.9.	60.	79	72	00	BA	76	59	54	60	Di.	50	46
1.2	80	400	80	54	70	30	200	92	55	16	81	90
1.2	띪	60	44	37	1 82	51	42	26	46	100	34	37
1 2	90	47	38	50.	67	46	XF	30	41	34	26	7
1.5	700	42	33	17	.83	90	35	26	30	30	252	38
1.2	90	37	29	23	48	26	- 96	-22	33	-20	21	3
ma.	47	-34	23	70	145	10	20	-39	30	7.3	.19	1.2
100	-0.6	31	022	110	162	23	22.	37.	127	.20	16-	L 2

LER: FS-79 Input Watts: 52

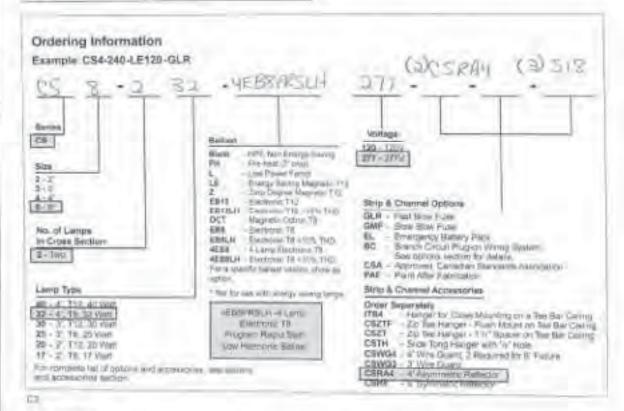
Data

Energy

Energy Cost \$3.04" BF: 88

The above energy deculations were conducted using a specific immubalisat combination. Actual results may vary depending agon this lamp and ballast used. Lamp and pulled specifications are actual to change window males.

"Communities and a righting arrings coal par 1030 samens travels on 3000 from and \$1.00 per in 694.





Type C4-8ft.

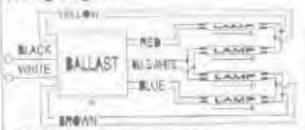


Electrical Specifications

VCN-4	S32-SC
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Senes/Parallel
Input Voltage	277
Input Frequency	60 HZ
Status	

Lamp Type	feum. of Lamp	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Ampe)	Power (ANSI Watts)	Bellast	MAX THD	Power	Current Crest Factor	B.C.
*F1718	4	17	32/00	0.29	79	1.00	10	0.99	17	1.2
FRATA	4	25	59/061	0.00	10.1	0.66	-10:	0.99	1.7	10.54
FSSTR	4	33	3/2/190	10.4D	424	0.80	10	0.99	1.7	0.7





The winny diagram that appears above to for the tamp type denoted by the asterna (*)

Standard Lead Length (Inches)

liet.	671
220	55.9
22L	55.9
36PI	91.4
362	95.4
4GL	110.B
	- 0
	0
	22L 36R 36R

	-in.	ons
Vallow/Blue		- 0
Blue/VVhite	36R	91,4
Bitwin	461	1963
Orange		0
Overge/Black		.0
BlackWhile		
RedWhite		- 0

Enclosure



Enclosure Dimensions

(L) RAmyC:	Width (W)	Heright (H)	Mounting (M)
9.50+	1.7	1.18*	8.90
0.1/2	1.7/10	1 9/50	6.9/10
94 t cm	4.3 cm	.70 cm	22.6 ov

Revised 03/01/2007





Data is leaved using tests performed by Advance Transformer in a controlled snormalized representative of relative performance. A rivel performance can vary assurance on operating controlled. Specifications are support to change version poster. All apportunities are premisely unless of services unless.

Subjection by Leasurean Series



Job Name: sep Unit - Fair Lakella Local Sens Frashman Senoti

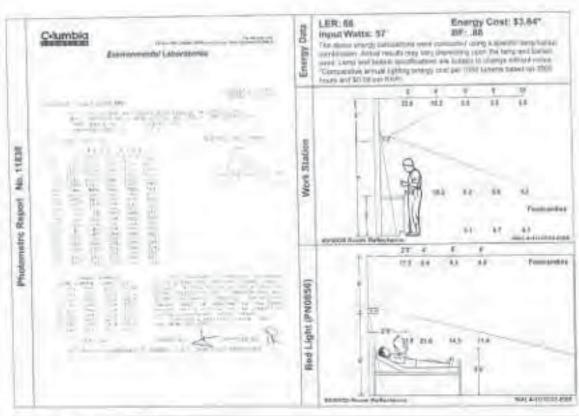
Catalog Number: WAL3-2UD25-EB8PRSLH277

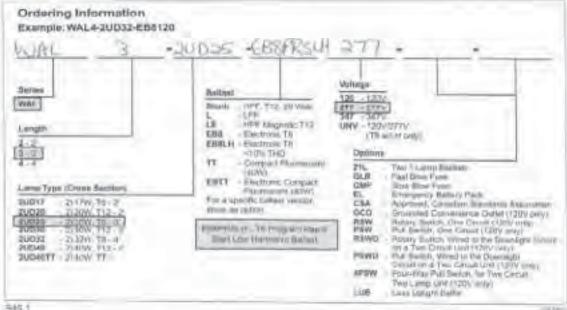
Notes:

Type:

D1

LEBIT-KIRT





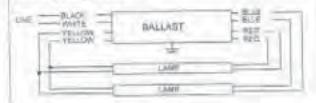


Electrical Specifications

VCN-2	S32-SC
Brand Name	CENTIUM
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Sanes
Input Voltage	
Input Frequency	
Status	

Lamp Type	Num of Lamp	Rated Lamp Watts	Min. Starf Temp ("F/C)	Current (Amps)	Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	REF
F1778	- 2	17	32/00	0.15	33	1,00	10	0.91	1.7	2.50
F25TB	2	25	32/00	0.20	53	0.95	10	0.99	17	1.79
* F32T8	2	32	32/50	0.23	63	0.88	10	0.90	1.7	1.40

Wiring Diagram



Diag 21

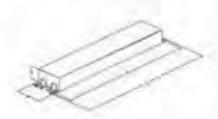
The wring diagram that appears above is for the tarry type denoted by the asterial (")

Standard Lead Length (inches)

DIMINIONIO C	DOMEST F	or offer
	in.	anu
Hittok	22%	705 E
White	226	55.8
Blue	2612	98
Hep	PMC	96.
Veiktwy	36L	91.4
Civay		0
Violet		-0

	le:	(287)
Yellow/Blue		0
Blue/Mibile		
Brown		- 0
Oninge		- 0
Orange/Black		10
Black/Mhite		13
Red/White		- 1

Enclosure



Enclosure Dimonsions

OverAll (L)	Width (W)	Fleright (FI)	Mounting (M)
0.50=	1.7	1.19 *	₹ 90 *
9 1/2	17/10	1 9/10	8 9/10
24.1 cm	4.3 cm	3 071	22.6 cm

Ruyised 11/13/2001





Data is based upon twice performed by Advance Transformer in a committed any removant and representative of resource performance. Actual performance I an very depressing on operating conditions. Specificacións are subject to introge without notice. All specifications are summir unless otherwise noted

Augmitted by a more than



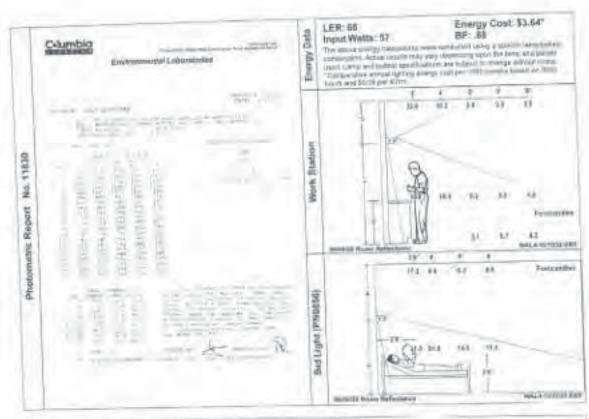
Job Name: Leicha School Derpig - Case Treatmen School Catalog Numbert WAL4-2UD32-EB8PRSLH277

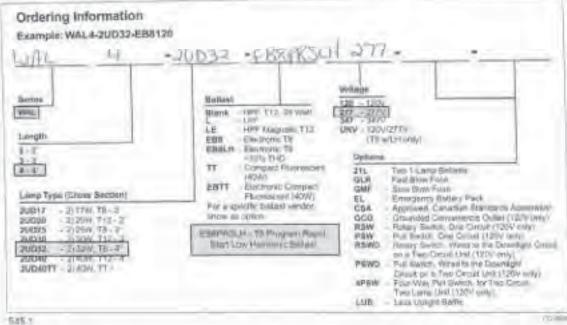
Notes

Type:

D2

(HEI/-1281







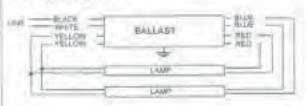
Type D2

VCN-2	VCN-2S32-SC				
Brand Name	CENTIUM				
Ballast Type	Electronic				
Starting Method	Programmed Start				
Lamp Connection	Sories				
Input Voltage	277				
Input Frequency	60 HZ				
Status	Active				

Electrical Specifications

Lamp Type	Num. of Lamp	Rated Lamp Watts	Min. Start Temp ("FrC)	Input Gurrent (Amps)	Power (ANSI Watts)	Ballast Factor	THD %	Power Factor	MAX Lamp Current Creet Factor	BE
F1718	2.	17	32/00	0.15	39	1.00	10	D.09	1.7	2.56
F25T8	2	25	32/00	0.20	53	0.95	1.0	0.99	1.7	1.79
* F32T6	2	37	32/00	0.23	63	0.88	10	0.99	1.7	1.40

Wiring Diagram



Diag. 21

The Wring diagram that appears above it lies the tamp type denoted by the asterial (*).

Standard Lead Length (inches)

	400000	
	in.	G/8-
Black	22L	85.9
White	221	55.9
Baum	25Ft	66
Rad	THE	96
Visitizer	361.	91.4
Gray		.0
None		0

	77.	CHI
Yellow/Blue	- 1	0
DiseNthiae		0
Errown		33
Dvange		- 0
Crange/Black		.0
Black/Vhite		.0
NeoWhite		- 13

Enclosure



Enclosure Dimensions

OverAll (L.)	With (W)	Height (H)	Mourning (M)
9 50 *	1.77	1.16.1	8.90 "
9 1/2	1.7710	1 9/50	8.9750
24.1 pm	43 cm	3 cm	22.6 cm

Revised 11/13/2001





Date is trated upon tests gertomed by Advisor Transformer in a contrating anytrograms and representative performance has very depending on uporating conditions. Specifications are subject to change amount nodes. All apprintances are nothing unless otherwise coled.

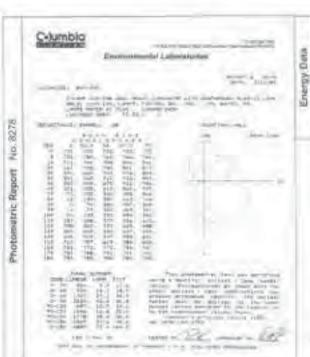
Job Name: Lakon Lyca School Crumo - Lesi Free man School Catalog Number: SA4-232/EB8PRSLH277

Nillias.

Type:

D3

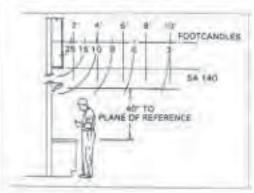
A REST, 7,425 -

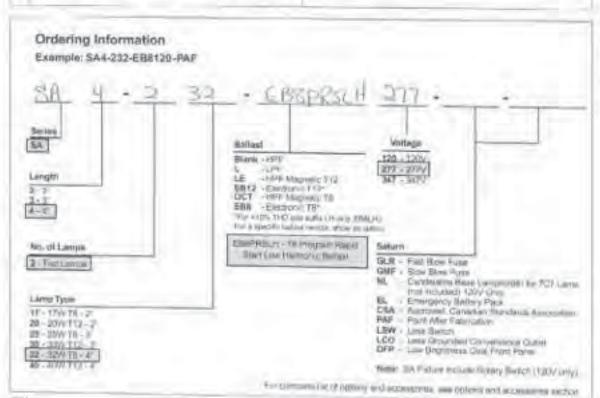


LER: FW-52 Input Watts: 90 Energy Cost: \$4.62* BF: .95

The above energy calculations were conducted using a specific templicalist combination. Actual results may vary depending upon the tump and better used, Lamp and ballist specifications are subject to change without notice.

"Congarythm monae righting enemys topic per 1000 lummers based on 3000 horses and \$0.08 per RWH.







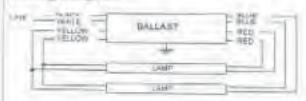
Electrical Specifications

Type D3

VCN-2	VCN-2S32-SC			
Brand Name	CENTIUM			
Ballast Type	Electronic			
Starting Method	Programmed Start			
Lamp Connection	Series			
Input Voltage	277			
Input Frequency	60 HZ			
Status	Active			

Larop Type	filian, of Lamp	Rated Lamp Watts	Min. Stan Temp ("F/C)	Gurrant (Amps)	Power (ANS) Watts)	Ballast Factor	MAX THO	Power	MAX Lamp Current Crest Factor	B.E.F
FITTO	2.	L.Y.	(10/54)	0.10	28	1.00	10	0.99	9.7	2.98
F25T8	2	25	32/00	0.20	53	0.95	10	0.99	3.7	1.79
* F32T8	2	33	32/00	0.20	02	0.96	10	0.00	1.7	1.40

Wiring Diagram



Diag 21

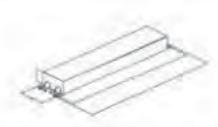
The wiring diagram that appears above is to the tamp type denoted by the asterisk (*)

Standard Lead Length (inches)

-		
=	-(1)	om
Black	220	55 p
White	220	35.9
Blue	269	-60
Red	26R	- 50
Ynilow	861	31.4
Ghay		0
Violet		п

	in.	OHI
Yallow Blue	-	- 0
BlueWhite		- 0
Brown		- 0
Orange		0
Chinge/Black		0
Black/White		- 0
RedWhite		- 15

Enclosura



Enclosure Dimensions

OverAlt (L)	Whitin (W)	Height (H)	Mounting (M)
# 50 =	1.7"	1.18.1	8.90=
6.1/2	1.7/10	1.9/50	8.9/10
24.1 cm	4.3 cm	3 cm	22.6 cm

Revised 11/13/2001





Date is based upon train performed by Advance Constormer in a controlled a revolutional and representative of revolve performance. As fast performance can vary depending an appreciate of the specifications are subject to sharps we out notice. As specifications are noticed at the otherwise noted.

Job Name: Lakota Losa Sako Bund - Lan Pasamin Ropol

Catalog Number: LFFTWSQ.H6-13EB-6FFT&-PKT261

Type:

PHOTOMETRIC DATA

LiteFrame - 6" Lensed Square 1875/14281

CFL Downlight - LFFTWSQ-H6-13EB

	L	-	
		SHOP	0.1
	l		200
	ı		
	ı		
	И		

181.50 Wildle	76		L	1	DISTRU
	8	4	60	15	BUTION
		272	****	tr-o	
		-10	un i i i i	Sass	NUMAR
		-3	121	12-	18

Some HAAN	96
All Statement China	925

Salast Fuels

Task Hamselt Dillams

400 Sittle 1400 ac

Tard System Weth Input Symmet (Amount

Input Frequency in His

30/AC 30/AC

20/46 20/46 Web

AGEL

2774 45 MC

NIN AKPE BALLAST DATA

F (- 62 A STRING FOR STRING FOR

(FFTWSO-Ho-13EB 6EPH

TWG
100000 B
emose &
S Servine

CONTRACTOR OF THE PROPERTY OF	VENUETERESS TO A	2004277522 2004277752	
VENUETERESS TO A	PARTICIPATE SERVICE SE	# - 2 1 1 1 1 4 4 5 5 6 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6	ON THE
VENUETERESS TO A	PARTICIPATE SERVICE SE	E-DVESESTER :	SQL STRUCK AN
The second secon	S Honorphic C		NOWN
	ASSESSED AS	The second second	



Job Name: Latte Land Street Dated - Emil

PHOTOMETRIC DATA

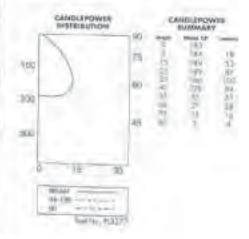
LiteFrame - 6" Lensed Square CFL Downlight - LFFTWSQ-H6-13EB

BAILAST DATA		CRV Nov.	
erica de prime	130V	277V	3479
Land System Wells 1994 Toronto Homes 1994 Toronto Parket Barkest Francis	16W G17 SVell	17W 117M 937W 1977	North
Catal Marriero Discretion	1000	10% 195 lp tr	

LAMP DATA	State Servi
Resided Commercial	=00
Efficacy (LPVV)	1/9
Frank (its	10,900
CIV	82
Mn litting face.	(2) 1

LIFTWSQ-HO-13ER OFFE

Committee Control Con



LUMINANCE DAYA IN CANDELA/SQ. METER

Argle 8 Versioni	Average D	
43 55	4108 2818	
75	23.22 23.21	
0.7	1550	

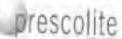
AVERAGE INITIAL POOTCANGLES

Material Late Ligitary Resort

SPACING		100	90%
4.0	79.	Tale	10
50	17	10).	9
DO	. 72	12	- 3
7.0	6	1.6	- 5
N CI	5		-2

Ł	10		100	15	7	-		1	12.5			er.			IIIs	
1				Т		77	40 %	×	Ξ,	7			-			
V1.79	F-109	ж	16	.88	AB.	38	10	486	M	w	40	-	4	-	-	
129	-22	=	70	-24	==	-	100	100	38	40)	-0	-33	70	7	æ	-
200	146	-	-9	.70	**	-	UHB.	AK.	m.	ы	-61	TI.	-21	-	57	
	-49	-	-8	Alt	8.1	-	3/5	32	4	3.00	42	70	듸	5	36	π
93.0	1.40		-	W.	m	20.	.74	346	-	542	-	r	-21	•	-80	-
	Δn	-	296	87	Th.	=	-53	œ	α	а	60	os.	3	25	M	
F 1.70	100	=	-53	70	40	æ	-0	-57	-	-91	A./	м	-31	-	20	Ð
F- 3	- 55	S	а	35	æ	-	-53	11	-	346	40	1.5	-	-	w.	-5
A 1.77	-	л	420	22	-	æ	珊	76	=	м	110	끖	330	24	in.	A
212	12		840	41.	-	-23	311	360	38.	34	35.	m	-	-	-	31
200			-39	30	31	A.	140	34:	w	-14	ΔY	w	-	31	44.	31
93,49	a i		-	ж.	=1.	-		œ	-	ш	111	100	-3	=	Viii	-

NOTES



prescolite was were proceeding come - 1 (484) 777-4832





CT213UNVxxx

APPLICATION and PERFORMANCE SPECIFICATION

Description: Literature compact fluorescent ballest for (21) CFTF3W9GR7 a-pin 1 km 34 temps

Line Vottage: 120mm to 277mm in 10%, 50-6042

High Flower Endoor

Programmed Rapid Wart

- Sidne Lang Connectors

	Lee	Láresi		Argost	Normal	Subsec.	Phone	THE	Cost
Dame	2000	1,00		Water.	Lors Argo.	Feder	7600		French
OTZ13UNV	130	CFT(IW)	2	.26	0.22	.60	>.50	< 10%	97.6
U1212UNV	271	CFT13W	2	- 25	0.10	.56	> 56	< 10%	41/9
CT218UWV	120	CFT13W	1	15	0.12	.56	> 58	4.10%	w1.6
CISTAGNA	271	CFT19W	- 4	15	0.06	:58	> 57	<13%	41.6

Appenance and Participants afpendication Represent Cultural in Change Safetial Intelligence

Parformines:

- 1 Mous Althi Naruset CR2.11
- · Mees FCC Part 18 (Non-Consumer), Conta for EMURFI.
- Auto-Russe Shundown Circuit our NEMA Recommodations.
 - Both lamps strough his registered sil and of the

 - Lens relights upon insenser, in audial
- Surrante for use in air handling soucies when NEC wining guidelines with Missinsk

DIF, HE C 123" F. 60" C.

157" F. 76" C

- Maumum Ampliert Temperature

Application

· Manmum Casa Temperaura (g) to:

- Minimum Starting Temperature

- Soon Rand

+ Leutomigratio

SE SVIG Ext nov *

» BE - Bossom Eals

in BES-Bottom Extraor Study (2" on contant

- Remote Mounting

12 100

Bulletin's

- No PERM
- UL formd (Class P)
 - Type 1 Gutosor, Type CC. Type HIL
- CSA Currifinal

Physical Parsmaters

Langth 4.00 STREET 2.31 Mourting AET. Height A.der (Verght OST Iba **ChilCanini** 25 Color SE-Vinna

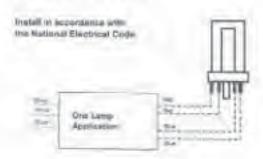
BEIRFS Black

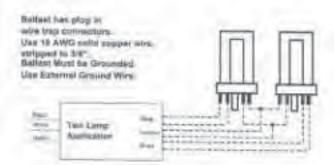
Call Mesons:

Warranty

Universal Lighting Tachnickogus warrant to the practicable that each electronic validatival for their from oblects in market or workmanship for a period of 5 years from date of manufacture sman properly installed and under reprodiced should be use. Call 1-696-SALLAST vide for technical assurance.

Menufestured in North Assump













Shown: GPR86

Features

- ± If ged 1≥ voit operation
- · Aummum housing and gimbal assembly
- Drives For 36 sealed beam tungsten and halogen lamps
- Fully recessed design
- Installation in mechanical and sheetrock college.

Ordering Information

SERIES

GPR812 = 12 MOV. 6 WHITE

lingston.

GPROS = G MIL II MOTT GPR186 = 4 yor. 13 wast

GPR256 = 5 volt. 25 wet.

GPR1812 = 12 yor 18 wati GPR2812 = 12 wat 28 wati

ACCESSINGES (ORDER AS A SEPARATE ITEM)

56 - Bit sanger ait for mechanical ceilings

HAL SPECIFICATIONS SHOPE TO CHANGE WITHOUT AGRICU







Job Name: whole Local School Clatters - Fast metro an School Catalog Number: CFT832HEB-STF802H-B24

Notine

Type:

F1

LENGTH STATE



Immy WhoS-urce Games

8" Horizontal Open & Wall Wash Downlight CFT832HEB

One 26W, 32W, or 42W Triple Tube 4-Piri Lamp

North Rated 120V, 208V, 240V, 277V, or 347V DME Debit Sephit HOAD.

Architektür

Manners onling freshren 175 for intriguous to not beauty WHEN MAN BY 25 6 Notice Tiber

APPLICATIONS:

tra CENTETERS often a terromistic temped complex for receive depretages and and or em to do not be per only supported to the second se subject without provides the unity to mange assistant by versity changing the factor. The beneficial is possible a wood wheely of mention is from onling commonless. milder control read and materials he CORSERED a completely with the largered family of end-incorporate morning.

HOUSING:

HOUSING: Despise parent Trigging galaxinosis and pattern. Present size are require-ant to yany among clerks of shipling and socked for examine light single. See Senten in considerate discretion and sale and discretion of con-

REFLECTOR: Health purity allowance fideric virginia Jeapton annual ment approximate ordering Schauer (ST) summerst. Fairness after men ent NATI Average Balling carry dignated and published whose call were

BALLAST

Che (1) company Aproporty Case T control that A 11 Co in our 7 T taken white of operating at 25 W 12 W, and 42 W operating at 25 W.

and I'OL promotion aureous Accusing the artists being 317's artists being 317's artists approxy water promotion opening.

LAMP:

(CALL PLANT) TOWN (SACRED STATE) THE CALL STATE (CALL PLANT) IN A SACRED PLANT STATE Lump Revisions by common

SOCKET

Owh (1) rejudicy makes used support for 250V 37W and LIW right see lange browns

INSTALLATION:

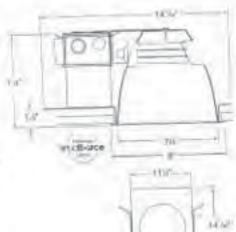
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Job Name: Landy Local Street County - East Freehman Ednood Catalog Number: CFT832HEB-STFB02H-B24

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Type:

Liscot + 194

PHOTOMETRIC DATA

Arshitektür - 8" Horizontal Open & Wall Wash Downlights - CFT832HEB

RALLAST DATA		my/Sinte			Per base	A	100	W. bippe	
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LAND DATA			
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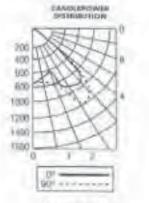
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C2642UNVxxx

APPLICATION and PERSONALARCE EPECHICATION

DIRECTORNAL EXCHANGE COMMENT OF THE PROPERTY O (3)+) CFO/TR29WGX24q or (1) CF528WGK10q (20) + on large or (1) FC975-12Wor (1) FC1271-40W (1) CESSIWGRING II (1) CEMSIWEGIS

- Line Winage +2Dyoc to 277 yes, ±10%, 58-60801
- High Power Factor

Frogramms Raint Start

+ Serves Larrer Committee

	Limit	Large .		- mark	Nicolae.	-	Proper	Dell	21m
Meser	Verti	Type	-	Albert.	Line furgra	Note	Feder		FACNS
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Chimmié	377	CFG/TRUINV	-6	56	5.91	.56	> 110	= 101E	41
02642UNV	120	CFD/TR26W	1	28	0.25	1.00	> 1.38	< 10%	+1.5
CT-SWITCHES.	277	CFQ/TPJHW	-	20	0.11	1 02	+ 0.90	T0%	41.1
mad training	120	CFM42W	- 10	48	0.41	36	r-0.98	× 30%	-41]
CSEKERINA	277	CFM42W	-1	-4.0	0.18	- 36	+0.98	= 10%	41.1
CHARLINY	-1201	CKYR IZW	3	36	0.40	1.56	+0.00	+ 10%	+7.1
PERMITTY	277	CFTR32W	1	- 38	0.15	1.50	> 0.99	= 10%	151.5
CHITCHECO	120	CESSIMWGHT00	1	31	15.07	.10	= 0.95	= 10%	411
CAMPADRA	277	CFS2EW/GR10g	1	31	0.12	98	> 0.95	~ 10%	=1.6
CZGGZLINV	1257	FC9T6-22W	(1)	29.	0.21	1.00	-0.08	<.10%	97.5
- annual residence	377	FORTS-72W	_A	28	0.10	1.00	-0.00	= 10%	+11
CS642UNV	120	FC(3TS-63W	- 1	42	0.35	.08	= 0.00	= 10%	=1.5
PERSONAL PROPERTY.	377	FC12T5-40W	7	42	0.16	.90	> 9.96	× 10%	#15
C254ZUNV	320	CFE38WWGR100	- 1	55.	0.27	60	> 2.05	< 10%	+13
A STATE OF THE PARTY OF THE PAR	1500	CF\$36WGA10g	-1-	3.5	0.12	- 80	> 0.08	= 10%	51.1
G2642UNV	120	COMMENSAGE	-1	32	0.37	- 501	- E.BB	4.10%	41
CHIEF CHIEF	277	CFMMWQQ10	- 1	32	0.12	1,00	= 0.90	- 12%	<1

[&]quot; of Simonway metage 35°C artises, herafile: https://www.iap

REPORTED AND PREVIOUS REAL PROPERTY AND ADDRESS OF CHARGE AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR

Parformance:

- Mewis ANSI Standard Citi. 11
- Mosta FCC Part 18 (Non-Consumer), Limits for EMURE)
- Operating Frequency Bange Above 60 AHz
- Auto-Reset Strattown Circuit per NEMA Recummentations
 - Born lamps should be replaced at end of life
 - Lamp resignes upon inversion in socket
- Sursone for use in air herming spaces when NEC winning outcomes are followed
- ME window Input Fermions I, MG Interced for one autory commission limbs

Safety:

- 41 MG PORTS
- + U.E. (Hitted) (Class P.):
- Type I Chadow, Type DC Type H.
- I CSA CottAcc

- + Minmain Starting Tumperson
- Maximum Case Temporature (III Li) Briefel Rates
- + Ligar configuration.
 - SE- Sice Ent 222.0
 - w full Button Earl
 - # BES Bottom Exit with Study (3" on center).
 - . ME Multi-Ent Reglacement (Cl.for Distribution
- Remove Mounting
- Alan operates on 125VDC input (+)L (-)N

Physical Farameters

Countral Langton 3,64" WHITE 2.81" Mourming 4.81" HHIPLE 9.00* Waight 0.57 tea. City Carrier

SE-What Compr BE/BES-Black

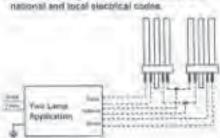
MC-White Can Material Material.

Hawwasi Lighting Technologies instrume to the purchaser that each electronic ballish will be free from seriods in material or workstanship for a period of 5 years, from date of manufacture when properly avstalled. and woder formed conditions of use. Call 1-800-BALLAST #800 for securics assistance.

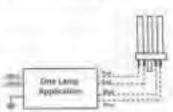
EF SEC

MATERIAL TOPIC

- Menufactured in North America
- Ballast has plug in wire trap connectors.
- Use 16 AWG sold copper wire, stripped to 3/8".
- Balliast must be grounded in accordance with









Lighting Since 1895

OMMON & FRR-07017-45-46

AND HOME LAKOTA KAST FRESHMAN

we FZ

WATERS Click here I VOLUME Click h

7" 1 Triple 42 WATT MAXIMUM

FRR-07037

Type IC (Air Tight Optional) Regressed Lens Shallow Plenum Downlight

Features

 Designed for any 4 per type tupe somigner or must compact decrescors were VECTOR WITH AN ARCHITECTURE

Ballast: Mutti-Wallage/Vallage

- · Dectrone high power locate treatmony protected. For more suffrages: Colody: 41.
- 120-217 multi-vill, 50/00 Hz.
- CICKDUCK connectors for easy service.
- Cold wowther 27"F (30"C)
- 4 End of samp the protection broad. HEI fitter THO tion they live.
- Internally Nated. Also see Option 45.

Rehaptor

+ Topicular Attak" aluminust

Trim Assembly

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Aluminum Housing

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Outlet Box

Present 14 CA SECL gabersons sum Ut total. 172" unit = 6" tiraclosoft.

installation

- 27 gillioneed hunger bars with adjustable.
- mouning brackets (2) supposes
- Recessors indust or outdoor in covered. kilcitkinti

UL C-UL (Canada) Listings

- Wet, drifting or any locations, crisings callings
- Type IC (non-garming) Approved to direct
- Treatist time to traductory it also

 Transa Versa United Warrants

 Complete annualization interior



Recessed Round Regressed Lens Shallow Plenum Type IC

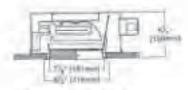
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Performance at a Glance

FRR:07017

Core of Light Fire Desired the Paris October March 2019 of File



Opening All Adjust Statement

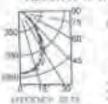


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FRR 07037 (1 Triple 47W)



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THE KIRLIN COMPANY

RENAISSANCE SERIES COMPACT FLUORESCENT LIGHTING MARKAN WATERGE

CATALOGNIAMER

FRR-07037

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FRR-07037 (1 Triple 42)



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Ballast, Wattage and Voltage

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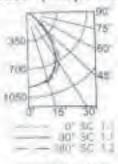
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FRR-07037 (1 Triple 42)



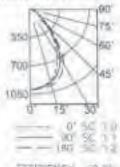
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FRR-07037-40 (1 Triple 42 - White Flare)



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SUBMITTAL DATA

APPROVAL STAMP

THE WARL LAKOTA EAST FRESHMAN

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FRR-07037-45-46

For 26 - 32W Triple Lamps

AND POWER PACTOR SHAPE DAYED IN





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			10	IQF-2826-M1-L5							
				RDF-2526-H1-LD-Q5							
	120	100	Amplister	BCF-2526-M1-B5-Q5	- 54	3.00	10	0.45			
	140		Section .	RCF-2526-M1-L5-QE	1 2	1	100	-			
		DS		ICF-2528-H1-LD-G5	1	1					
			100	ICF-2826-M1-85-GS	54	1.00	10	0.45-0.20	See 1	700	1
					IDF-2826-M1-LS-DS		Size T				
			1 1	1DF-2B25-H1-LD							
				ICF-2829-HT-LD-K CI		1.7		1000			
L				10F-2526-M11-85	.54	1,00	10	0.45-0.28	DF-16		1.59
	375700		Section 1	1CF-2S26-M1-LE					- 34		100
	120-277	1	SmartMase	ICF-2842-M2-88			10 0.46-0.21				
		79	-	ICF-2542-M2-L0		1 - 3		Vanch			
				ICF-2842-M2-LD-K ①	10	1.00		10	0.86-0.25		
				TCF-2942-M2-L5		100	1-2-	1000	41.	Size I	
				ICF-2SA2 90C-M2-BS		_		1	1		
				ICF-2542-00C-M2-L0	65	1.09	10	0.46-0.21			
				ICF-2542-900-MQ-L5			100	A	V		
CETHS	2W/GX24	lg - 32W	CFL Triple	Tube Lamp (PL-T32W)	AP. F32	TEX/4P	CE32D	T/F1			
	2017 01300	1	2.2.0.0.0	RCF-2526-H1-L0-06	1	1019 414	01.04.0	11-1			-
	520		Sentifica-	ACT OSIS MIT BS OF	100	0.58	Yii	9.01	0.00		
		1.3		RCF-2S20-M1-LS-QS		100	- 11	9-01			
		05		ICF-2526-H1-LD-QS		-	-	-	4		
7				ICF-2525-M1 BS-05	36	0.98	to	0.2) -0.12		11-27	
1.0				IOF-2629-M1-L3-05	-	10.00	1.00	0.27 0.12	Dr 10	-time t	100
	120-277		Smareklary	ICF-2926-H1 (.D.				1	1	100	11.54
	2000			10F-2626-H1-LD-K (II)		1.00		1500 5	1		
		PS		ICI-2525-M1-85	30	0,90	10	0.31-0.13			1
				1CF-2S26-M1-LS		1279		10000			
	-			ICF 2542-M2-B5	1						
			17	ICF-2S42-M2-L0							
	425			IDF-2542-M2-LD-K-0	63	0.98	10	0.57-0.25			
191	277	PS	SmartMar.	IGF 1542-1/2-1.5	1			1000	07-15	500 3	1150
-	1000			ICT-2542-00C-022-08					10-10	-July 2	1,000
				IGF-8542-90G-M2-LD	168	0.08	10	0.67-0.25			
				(CF-2542-90C-M2-L5	4 100	N 24	197	Will Tark Street			

Milithres failures are normal obsess factor except -K resultes when are high power factor.

Depletion-manufal-bridge failures fails overcomed by Basis Type with come 8 are available to discounters. Failer in page 1-24 for details.

to pages 8-17 to 8-19 for lead lengths and shipping data

See page 1-26 for Dimession: See page 1-28 for Willing Diagrams

180



DATALOG .. FRR-11040-45-46

Type F3

THE HUMB LAKOTA EAST FRESHMAN

WATERS Click here I Water Click h

11" 2 Triple 57 WATT MAXIMUM

FRR-11040

2-Lamp High Wattage with Regressed Lens

Features

Lamp

 Designed to this 4-per dependon table amalgain. contract fluorists and lumps 97W inple hour hobe

Egitast Mulli-Voltage

- Electronic righ power factor thermay remarked for lower settages Camon 43.
- promise secolum 115-051
- ClickOutor connectors for easy service.
- Single provid wring or see Option will
- Cost whether 22th [30°C]
- End of Every tile protection securi. All New York PERSONAL PROPERTY AND PERSONAL PROPERTY AND
- Internety fused, like too Oppoint 15: 10.

Hatteolor

Special Atom standard

Trim Assembly

- Тарелет имитите от тиси сиси броскороне with white things an air white school-soft ferrgod. Tim (Dation 40) as shown in section nine
- Responsed completed promote C471 are:

Aluminum Housing

- Acylic sopower. Busproof Excess 1000. YOUR ASTEM SIN SHIP GOTHY BIGG
- Lightweigh Mointies stelling load.
- Door observior: Extends compositive the
- a Trave Lemman personal Debugs aperture
- But in prepare frame.

Outliet Box

Privilege of the INEXT-gallerized Meet, LIL fixed 107 and 107 snockado

Installation

- 27 galumized hanges bars with regintable miniming brackers (3) supposed.
- Respected indexy or quidour in covered

UL. C-UL (Canada) Listings

- y West distributed to the design of the control of
- through boinch comfactors (6 #32).

Three Year Limited Warranty

Compens serviced tables and parent

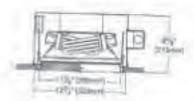
Recessed Round Regressed Lens

Selected Optional Trims

- · Ope Diffuse Option (19)
- White Groovsess Fore Obtion 40
- · French Long College File

Performance at a Glance

FRR-11040

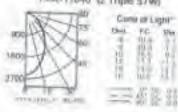


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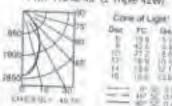
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Towns Curious 12%





FRR-11040-43 (2 Triple 42W)



Control of Light Rey FOR THE ROLL

PLANTAGE WHITE AND ADDRESS OF Committee of the same The state of the state of

THE KIRLIN COMPANY

SHOT EAST JEFFERSON AVENUE + DETROIT, MICHIGAN HUDT-LITSE (113) (50 6400 •) on (113) 256 9400 on (113) 259-3725 • Over totalignory com-

RENAISSANCE SERIES COMPACT FLUORESCENT LIGHTING

CATALOD BUILDING

MANIMENTALE 2 Triple 57

FRR-11040





No. of Lamps	loped Yolk	Lamp Starting Method	Bellani Parally	Calabog Mandor	Augul. Parrer Altili (Walto)	Balliuri Factor	Max. 1900	Line Current (Amps)	filia. Starting Temp. ("F/"C)	Din	Wiehrs Des
CFTB43	W/GX24	q - 42W	CFL Triple T	ube Lamp (PL-T42W/	oP. F42T	BX/4P.	CF42DT	/E)			
		-		RDF-2535-H1-LD-DS	-			100			
	120	1	AmbiStar	RDF-2535-MT-B5-Q5	68	0.98	10	0.38			
	200	0	V-	ROF-2525-M1-L5-05				1.00			
		05		IDF-2526-H1-LD-0/I							
				10T-2S26-M1-8S-0S	55	0.98	10	6.38-0.17	nine.	Park	600
5			1	ICF-2526-M1-L5-G9	100				0.18	S04 1	180
	120-277		SmartMas	ICF-2S26-H1-LD							
	les of	100	- Committee	ICF-2828-H1-LD-K (I				1.000			
		75	17	IOF-2526-M1-85	40	0.90	AD.	0.38-0.17	1		
		10.0		ICF-2S26-M1-L5							
-	_	_		ICF-2S42-M2-85							
			1	ICF-2842-M2-LD		1000		1000			
	1		1	ICF-2542-M2-LD-K	62	0.97	10	0.78-0.33		500 2 16	
-	120-277	P9	Greenstee	IEF-2542-M2-L5	411				BV-18		100
1	140-411	600	Disertome.	ICF-2542-98C-MZ-85	-				1875		100
			1 h	ICF-2542-80C-M2-LG	50	0.67	10	0.78-0.33			
				EF-2842-90C-442-L5	100	0.07	40	0.50-0.31	1. 7		
cerne	man embed.		West Committee		-	-	-	-			
PELHO	/W/GAZ	d - 0/M	CEL Camili	FS708X/4P, CF57DT/	- (2						
		100		ICF-2942-M2-BS				1	100		
	100			IDF-2S47-M2-LD	59	0.94	30	0.80,0.23			
	255%	1) of l		ICF-2842-M2-LD-II	-29	25 (24)0 (0.00-0.2)	0.94 10 0.80-0.21	10 0.80-0.2)	1000		
1	120-277	PD	Smartylana	101-2542-M2-L5					14/410	Size 1	180
				ICF-2S42-90C-M2-85				2.5			
				ICF-2842-90C-M2-LD	7.10	0.04	10	0.80-0.21	41		
		100		ICF-2543-90C-MQ-L5	100	11.00		1000			
2	120-277	PS	SmartMate	ICF-2570 M4-B5	128-126	1 66	le.	ATT ATT	- Avenue	Sec. 2	100
	11 1000		16.1501000	ICF-2570-M4-L0	1620-123	1.00	10	1,07-0.48	0/-18	Size 4	169
CFTR7	BW/GX2	4q - 70W	CFL Lamp	F700BX/4P)					-		
	1		1-1-1-1	ICF-2512-M2-BS				1			
				ACK DE KD MID LED	- 25	line	100				
			3	ED-3883-883-LD-8-T	112	0.06	10	0.63-0.27			
1	FX0.077	L/X	Terrestation.	604-2582-M2-C5		-			5.6-10	Gue 2	760
				ICF-2542-00C-M2-BS	-		100				100
				1 1-1841-800-855-FR	14	11.000	10	# 60 O I			
-2	120/072	NO.	Committee	IDF-2570-M1-85	han see	1	1	0.0000	100	100	
	1214513	- 65	- ScoutMany	ICF-2570-M4+LD	456-411	1.00	+6	1.30-0.58	40.16	III Line II	199

III Replacement/Retroll bediest bits indicated by field Type with solfin & are emirated to recruitment. Held to page 1 De for subside

See gags 1-33 tor Dismostress and Working Diagrams.

Refer to pages 8-17 to 8-19 for load languis and shipping that



Job Name:

Lavota Lucai Biou Presiman School OF THIRD PERSON Catalog Number: LVH4-277V-LV2G

hichm.

Typer

F4



4" Accent Luminaires. LVH4

2075W MR 16 Non/C Rolled 120V 277V, or 347V 11.5V Secondary

DAME PERmad PRCHIC

Architektur

Celling Cuttout 41/11 Martiner Celling Robinson 1 The Control State Every Control multiply technically 23.4 Nill to Scole

APPLICATIONS:

The Architecture (VMX series provious to 4" specifiesfrom grade, victim functions for a raids variety of commental and implant repulated protest. The able for new constitution where restation, if present to our conduct share to service 2° at the liston. The 1956 is ideal for applications from regars bee public, architecture reding planes and homory, the property of the conditions and an action of the property of the condition of th ingers, ever bell-our.

HOUSING:

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OPTICS/REFLECTORS

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are a complete from the condition of the Alask which and not reflect these waste biggs while the majorities and Today been anadolide with (2) Zee transless of the book of (27) addition ring

LAMP/SOCKET:

Harris Super Locker with Wiles Smith Bringsell. had shall them also seems follow. tan certaining what increasely intelled a perfectional Accommission 23/73W ME-15 Arrays: Device hershilled by soluce.

TRANSFORMER:

Magnetic excellent frombition PSVA, 11.5V secondary. Transferrer servizedile from below. spilor.

INSTALLATION

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LABELS

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HOMBHOT HUMBE	EV HO	Charle	1/7/8)	000	WIE INMERTALIS
LVH4 (20)		WALL	TIME	TRING	ACCIDIONS.	ACDISIONES.	+CCESTORES
47, 10 20, 779 Miles III All All All All All All All All All	ASASTARE 1472 End delle 1472 Code Alexa 1571 157	OW SIGT ADJUTABLE J LVS AND WHILE LVS AND	ANTICO ISSUE LY9 ANTICO ISSUE ANTICO ISSU	LVSQL LVSQLQ Gold LVSQLQ Gold LVSQLZ Jar OEDV LV10 CLA LV10 CLA About About LV10 CLA About LV10 CLA About LV10 CLA About LV10 CLA About About	LV10 Links Spreed Links LV12 Inches spreed LV12 Inches spreed LV17 Diffusion LV17 Diffusion LV18 Tread Line LV19 Since LV20 Music C1 Spreed LV20 Music C1 Spreed LV20 IN Sp	COMON NO PARTS CONTRACT Marsian Part LEVENT LEVENT Marsian LEVENT Marsian Avent LEVENT Marsian Avent Avent	Process #201 Groups 8-5 for hanging to the process Toron Deck Second only recognition TEXA2 That racking adoptes of the process of the proces
THE S	COLITA			2.00			

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An Address of Teached Layering are.

to the state of the second state of the second seco

ARCHING-006

Supplied by Limitary San



Job Name:

Caketa Local Servoy Davido - Emil Presiynan School

Catalog Number: 1062M114-SDFA-400MHFE-120/277V PRUSE START BALLAST-WT847-B24

Notes

Type:

F6

DEED COL



12" Ellipsoidal One Lamp MH Downlights 1062M11

Dire 400W ED-37 or BT-37 MH Lamp 120V or 277V

PROJECTION OF WAST.

Architektür

Celling Cittal 1777 reported Celling Stellman, 1775 For surveys on to mill motors multiply makes by 75.4 Trial to Tester

APPLICATIONS:

The Archimistic 1001M leaves offers it. may working become all manufact mornel. takin decelept the proper covers bendered and other record. The high pulling application redshing measured used and houselfs aren-

HOUSING:

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REFLECTOR

righ ponty aluminam Alem, otherer. Removable respiraça buille or com som white pulsar triplece intel ring

BALLAST

Evolution and author, 17,7-1, stool report nedge with consumi waiting more retralorme K.VAN Assentide Vices below underg

LAMP:

OH# (1) #00W 50-77 = 81-37 ----moral believe beng Spray Scott South by afrair to rekorpotion

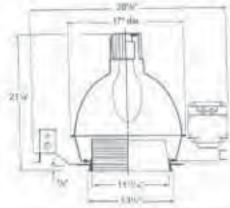
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INSTALLATION

Detroyed teaching trackets register () ESS resides as 11/2 latering distribution of urband, or President (A* later families) (824 to \$10)

LABELS:

UL CSA Lond Typoside Inc (Horse Augustum Approved by Heavy's entity. Thereally protected Hart Death





Ballietts are 45% sprendrical about and opinior line Top View.

٨ H Start Pak FE Sahot

1964MIL ISDEA HOOMER 120/2774 W1847

HOLIMAG OFFICING HEMONS. LIMEBOLL - DOS 12 17 416W Audiory social on infer on back J FSDFA how hit remailed at Charte married laws

new for held prignt □ 347V

MUAST EFFECTORS.

☐ 400MHRE 2-\$184P FE receive cells of Silvert Prok Wisto

For Silver Fash Bullion, Immer 70 Team Block Alimb save J WT840 Once halfin Conduction.

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J 66 Sat of Aug (2) him respondentally president 24.

I FEDRI First his feet half

☐ 65A120 Betal radio offspier last note in well steps

DUDGEN PLUSE STERT BALLAST



to the continuing where the traction product provide the nationality of the Company with a material product is restorate that it was approximate and that the function of the product Well waves prescuilling about 1 and 3 appears (\$38) 777-4832

ARCH-HID-018





Specification Sheet

Catalog Number,

1110-247SC-TC

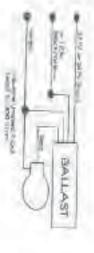
Date: 9/27/2002

N/A	-amp Starter
NIA	Japacitor Pari Number
M/M	Capacitor Volt Rating
INTERNAL	Capacilor Value
Class A (90°C)	Insulation Class
CWA	Circuit Type
10/5	Recommended Fuse
ZH 09	Frequency
+/-10%	Regulation
120/277	Line Voltage
M59 or H33	ANSI Dasignation
400VV MH	Had A due

400W METAL HALIDE

See Catalog	waxiirum Listance to Lamp
UL/CSA	y cerum
YES	Bidelia Available
Yes	BOOM SAN
N/A	vabilities catalog #

WHITE DISCHIES 34



FEATURES:

Thermally protected

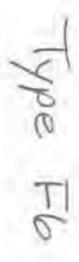
Anchor bracket / Tab provided for splice box (SB-4 Not included) Enclosed in fluorescent style ballast can

Electrical Characteristics

	113		120	450	Line		
-	High		High		Power Factor		
	1.70		3.90		Opring	LINE	
	1.50 1.00		3 25	1	Open	Current in	
1.00			3 75	Cathoria	Stort	Amps	
400	455		455		MARTIN	Input	
300	300		Voits 300			Open	
152	152		Out Volts				
-30°C	-	3000	Land Line	PATO	Cipit	Z Min	
c		2	Kinner	Dation	Dimoc	2	



Reference Drawing



Specification Sheet

Catalog Number: Date:

9/27/2002 1110-247SC-TC

400W METAL HALIDE

Recommendad	rrequency	Neguration	Bearing vollage	Honey Charles	ANSI Designation
100	5H 09	+/-10%	120/277	M59 or H33	400W MH

Waximi in Dietonos	Berry Cellifolion	Adenos Cartifica	HOUSE MANAGEMENT	Drodinston A.	Significa Wallable	Samples Appliable	A BOIRIOR CAIRIOR	
ACOL	1000	YES	450	100	Vos	WIE	NIA	



Specification Sheet

Catalog Number:

1110-247SC-TC

Date

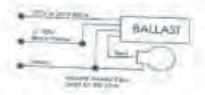
9/27/2002

400W	METAL	HALIDE

Lamp Type	400W MH
ANSI Designation	M59 or H33
Line Voltage	120/277
Regulation	+/-10%
Frequency	60 HZ
Recommended Fuse	10/5
Circuit Type	CWA
nation Class	Class A (90°C)
Capacitor Value	INTERNAL
Capacitor Volt Railing	N/A
Capacitor Part Number	N/A
amp Starter	N/A

Replaces Catalog #	N/A
Samples Available	Vos
Production Available	YES
Agency Certification	UL/CSA
Maximum Distance to Lamp	See Catalog

Wiring Diagram 34



FEATURES:

Thermally protected

Enclosed in fluorescent style ballast can

Anchor bracket / Tab provided for splice box (SB-4 Not included)

Electrical Characteristics

Line	Power	Line (Current in	Amps	Input	Open	1000		
120	High	3.90	\$ 25	3.60	AAGGG	VORS	VOIL	Temp_	Rating
277	High	4.70	3,20	2.50	455	300	86	-30°C	C
47.4	111/211	1.70	T.50	1.00	455	300	152	-30°C	0



Reference Drawing

Physical Characteristics

Length Width Height Langth Langth With Living Dim		
de se la company de la company	Ballast Net	Length
19.25 3.19 2.63 18.06 18.93 2.00 0.23	Weight 23:00	finches 12-14

For samples, contact your Universal Lighting Technologies Representative Specification and Performance Information Subject to Change without Notification

KIRLIN

RR30612 RR30613

RECESSED ROUND: Q500 WATT (MAX.) TUNGSTEN HALOGEN DOWNLIGHTS

High Light Output: Mall, Convention Center, Church

Features

Lamp

- a. Onlighed the Tiredical (2500) must firmed targeter. NORTHER THE
- Mre-nocduster, some boro.
- Training 2000 from inc. 100 (2P)
- Three-pale continue by a room.

Lamphotser

A. Alba contratuent bent processors screw base mountain bed as a regress assumed marginary facilities it impatible diagraphs. of laws book hour

Bullectors

- Opport Spreakly Apply Objected was indedidictor for places, collision of equip-
- * Lorent Line burger with their femiliar Direction Alline abstracts construct framework
- Tromptional set flanged cohe colors and british musikible. See Options.

Link

* RECOETE Temperat Mirrotan HOLD A RESTREE | New Yorks Long to up to refer to ALS SIMPL Opportal temperal to CATE presonant place (Celtury-15, With Coll. White or a lowered open sheel Option (III) seminal Subhit expense

A STEED OF THE STATE OF THE STA

Housing

- Scryfic wastookid 100% obstanzer violated
- (Animormal cress/read law person of housing effected daug also lamp base have
- Considerant Installer college; descrifor manufactor management line
- Businesof, Except, 1000 hour ARTM 5% arb sexay sex-
- Little Chargest with the several by Fig. but pellymaph revessed are specifical
- Topucomi slanged: Imple province.
- 2" counting Solar parents resolar entiting restation or Dort in placine have-

Captiert Box

- Previous team (NES) gehinicularities str. isted. With expressoral produits to the
- e. Ust and him mercunate.

lestalismon-

- ≥ 27 galvarenvis henger ham supplied (i);
- a FURY scaled the telescop parameter touries are left marpled (2). As ages SUFFER TO A W. Indiana Separate Land Co. Co. Co. condut-
- Partition red to the partition in a country. only 2' column activity empt these #Imprecializations



For Higher Collings Four Distributions Offered

10 Optional Lower Cone Finishes

- . But MARKED SPACINGS CHITCH! BUILD UL, C-UL (Canada) Listings
- . We damp or sky locations covered college
- Throughfolder from an armington in #12 AWG 150 C

Three Year Limited Warranty

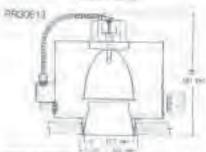
Complete standard fedora

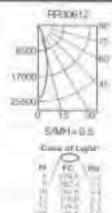
Thermal Protection (Per Current NEC)

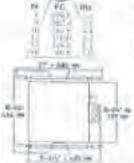
Thermal periodical included which provides suffernate that of a part function in Solution constants hadronia

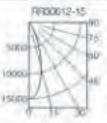
Performance at a Glance





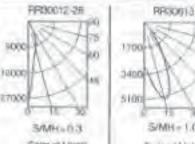














MARKED SPACINGS CALTION

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Come of Light Fury

Principal Association of the Children of Control of Con

Decrease may be extra-

THE KIRLIN COMPANY

MONEYART APPEARS ON A VEHICLE . DETROYT MICHIERAN WINTER AND 01.0 2 E 10 Pa Fa 11 1 150 GOOG (\$15) 20 11 1

Church, Retail, Office Q250 Halogen Lighting

Features

Lamp

- Designed for I WHILE LICED FINE I BUILD GRAPHET Pulbers-T F
- · Double preside beyond 45.76 from
- 1 STREET ZORT PLAN BY THE THE
- · memback modern by compl

Limphalder

- Goder Council toyons: non-countries
- Longs Social smarket moughest on from MVI.

- Vppor Special stock alumption colector NO DESCRIPTION OF STREET
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Installation

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Inconspicuous 6" Apertures Shallow Plenum Applications Four Distributions Offered

10 Optional Lower Cone Finishes

UL C-UL (Consoli Listing):

- + Well dawn in thy Lagrana improved control
- Through-branch circuit conductors in #1.1 AWG 90°CL

Three Year Limited Warranty

Complete standard Bellin.

Thurmal Protection (Per Current NEC)

They not protected included which provides manyan capatify and empended a incurring, ilmostration regards

Performance at a Glance RH30610-28 RR30611 FR30610 RR30610-15 FIR20610 S000 1000 17/00 F1500 mi eo DECKY Sabb 2000 2000 40 15000 0100 34500 5000 BARRESA D/MH = 1.0 SMH = D.F SAMH = 0.1 Cone of Light" Edme of Light" FE. FE HR30611 per sistem 别集 Constant Light Key - 11年 1日2 mm-1 To deliver the second of the least of the le

THE KIRLIN COMPANY

LIDITERST JEH ENGON AVENUE - DETKORT MICHIGAN HORD NO. I.



PARAMED NUMBERS

Recessed Lensed T-6 Bi-Pin Ellipsoidal and Parabolic Downlights: 39 to 150 Watt



HRR-04050 150W HRR-06051 150W HRR-06052 150W

Multiple Beam Spreads Available

Features

- · Deservoir a serical I is supermand backs being See than below to should we. OCCUPATION AND ADDRESS OF THE PARTY.
- resident and the behavior time. distant.

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- 3/2" very 3/4" knockouts.

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UL C-UL (Canada) Lawren

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Tree Year Limited Warninty

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Wattage Availability and Cut-Out Dimensions

Catalog No.	Lamp/Base	Standard Wattage Pulso MH	Option -41: Lower Westage: Polse MH	Wonnge (+49-55-66)	Cut-Out Diameter	Optical Style
Catalog No.	Pitter Persons	100000000000000000000000000000000000000	40.00			E Gymd willist
HIER 04070	T-6/612-61-pm	160	J9-70 J6-70	700	0.5	Efficiential Transpole
AUTO-COOP-	T garata sa pin	PA.	80.00			

Options

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- or, Automorphism of Artificial Comp.

Wattage and Voltage

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- cars have been secured beatering
- THE WAY OF THE DOMEST
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Relays, Standbys, Lamps (See Charl) (-49, -65, -65 NA for HRR-04050)

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Reflectors and from (Self-Flanger)

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Mounting Options

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- Lothy Facel of Colonia Describe Layer. 2 x 5 get White

Other Options

- COLUMN TO MAN CONTRACTO
- Shaka phospiri 1/0° malifika tahi rasit y matsaeating
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PULSE and PROBE START METAL HALIDE BALLAST ELECTRICAL and SOUND DATA

DESC DING FINE				SOW 70W		70W (Te lamp)		10098		125W		150W		
			-		P10.75		V4.0.9E		POESI		PSL58		PLASE	
For Lamp Type	PO	35	Pul	_		_	- 0	5%	100	19	- 19	The contract of	+55	5%
Power Pastor	_	7hi-	= 13.		-	40	- 50	106	-100		30C -	-	-80C A	725
Min. Start Temp.	-30C	2.5	_	· EJF	-	0.979	1777	2779	1000	1779	TUTY	7770	3200	2771
Norm Input Volts	139V	3771	1709	277V	320V			100	IND. FIFT	S. HET	SEWA	E John	HX HIT	MHP
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Equivalent F-Can	Fi	1 1	30	- 4	- 0	- 4		-						

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6lina, Input Amen	1.00	A.F.		4	202	1,376	790	333	100	786	347	- 0th	-300	0.00		-
Ental System Watts**	308	1984	1	100	177					-	11 per		L.E.	14	. 6	- 9
Sound Ratings***	1		1		B	1.	1	1 W.	1	.6	1	- Contractor	-			0
Kirlin Winger Pack	100	-	-	-	320.3	West div		0		C	907	Milmone	_	_		
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Equivalent F-Carr					77.644	75000	X75W	1000%		WDE
1	600	W	400	ZW.	450W	POLSE	Pun St	PULL	1	380
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For Lamp Types		5	10	2%	- 0.01%	+ 0.5.30	-30C = -22	-30E = 32F	-30C	0.1226
Power Factor		-	300	* -725	30C = 13E	-ADE - FEE	Control Control	170V Z27V	120V	STIL
Min. Szart Temp	-	- 28F	120V	3116	120N T1N	120W 277V	The second second	5-CWA		WW
Non-Input Violes	1200	2779	-	WA	5.CW4	5-1.W/V	5 0948		9.0	1.9
Ballant Type	5-CWA	SHILE	-	1.2		T.0 12	82 55	1080	-	1000
Max. Input Amps?	38	21	AB		409	916	940	1000	-	
Total System Watts"	407	475	-	458	-	1000	house Enraned	Bullold Prinklan	er.	
Sound Ratings*** Kirlin WhisperPack	1	n.		8		Now, Auditor	HIROTA PICTURE		_	_
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HIGH PRESSURE SODIUM BALLAST ELECTRICAL DATA

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	15%	W.	50W		195	50	>30	40F	400	4/5	40C = 40F	400 - 400 Table 3500
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Mirr. Start Timps	130V	2116	120/	2175	1,/704	3414	JEDA.	HX HIT	R-1401	MEMP	EWA.	13 17
None Input Votes	G-HPE	MA	R.HPS N	J.HP	S-HPT	10.117	+ 8	0.5	2.1	1.3	13 14	404
Ballett Type	the same of the sa	Sub-	10	0.0	TA	91	115	130	570	100	240	
Mas. Work Amps." Total System Water	46	100	97	šĒ.	1.6	1 3	-					

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Ellipsoidal and Parabolic Recessed Lensed T-6 Bi-Pin Downlights: 39 to 150 Watt



150W

150W 150W

HRR-04050 HRR-06052 HRR-06051

Multiple Beam Spreads Available

- [34] Illy red fire worth of The Brison metril builde. Line Diption -43 and chain below to be well eagethest femalities omply see creat helder for agendant soil

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SUCCESSION DATE: SHEARS WHAT

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Dutlet Box

· Preview 14 SW MECH BRAHINGS STOLEN · 1/2 and 3/4 brackouts lessed, with removable insulated rised

Installation.

- Early adjustable primersor moralturi exaction. 27 galvingud rangin bies supplied (2)
- Supplied (5) DOMEST.

UL C-UL (Carneda) Listings

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- Thermal Protection
- · Par chiment MEC

Max. Standby

Cut-Out Diagonalias 100

> Optical Style

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Wattage Availability and Cut-Out Dimensions

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Options

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KIRLIN lighting since 1895

Features and Options

Recessed Lensed T-6 Bi-Pin Ellipsoidal and Parabolic Downlights: 39 to 150 Watt



HRR-04050 150W HRR-06051 150W HRR-06052 150W

Multiple Beam Spreads Available

Features

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Outlet Box

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- A SUP AND WA SHOCKERS.

Installation.

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- Polly or produce continue reported facilities subplina (i)
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III., C-UL (Canada) Listings

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- Through exercis these condumes is 41.0.

Trace Year Limited Warranty

- truck offers, buildings Company stamped house. Thermal Promotion
- a True exercise NEC

Wattage Availability and Cut-Out Dimensions

Wattage Av	allability and	COL-OUT DITTE	ne transcer co.	Mus. Statestly)	Cirt-Out	Optical
		standard Wattage Pulse MH	Option -42: Lower Wettage Pulse MH	(-411-105-6ft)	Diameter	Style
Catalog No.	Lamp/Base	Page 1911 1	70.75		70	Headt
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Options

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wattage and Voltage

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- LVIC. TYD-100 HOLET SHREET
- THE PART LITTLE SHADO
- THE RESIDENCE OF THE PARTY OF T MARKET RETURN
- CONCURRENCE DIRECT DESIGNATION CONTRACTOR

Relays, Standbys, Lamps (See Chart) (-49, -65, -68 NA for HRR-04050)

- Construct DCL was Done only American or another some of
- through superplayment series in power. tokung till same proate mercide kal-AND DESCRIPTION OF THE RESERVE OF
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- morel Editoria paring promising professional and market 70% output has me figure 4.%
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Pelliscion and frims (Salf-Flanged)

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Mounting Options

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Other Options

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- Departure in any organization of the



THE KIRLIN COMPANY

SHEET EAST TELTERS ON AVERUE + DETRUT, MICHIGAN, 18201-1202 HTTB 250-6400 + Fair DV B 259-0405 OF DVB 235-3121 + www.cetanghair.com

Kirlin WhisperPack™ Ballasts

i ar more reformation, including specification shoets and phytomology, on these products and all other Kirlin products, Dates wisk www.kirlinlighting.com is call your boal furth Solor Paperson above the the Metal Halide Lighting catalog (02P5)

Pulse and Probe Start HID Ballast Electrical and Sound Guide

WhisperPack™ vs. F-Can Encapsulated Ballasts

Kivin's exclusive WhoperPack encased and polled balants are sound rated. This allown you to quantify the benefits of WhisperPack's ultra-quiet design when comparised to compensure if Carl style encapsurated ballasts. The MDs Ballast Guelle below but, sound ratings for all WhisperPack (purse and probal stim) balasts, as will of moneyer available f. Cart protects

Note WhisperPack's superior performance over E-Cas's sound ratings. Furthermon. WhisperPack ballasts are available in all waitages from 39 to 400 watts. units F. Can ballatts, which are not evalleble in several popular watteres.



	3	W	50	W	- 1	SA/	TOW (T	6 umpt	100	SAV.	125	244	150	ONV
ForLamp Type		LEA	PU		PARA		PULL		PIRAL		Polist		PULSE	
FOWER FECTOR	. 19	0%	- 48	15	470	45% -65%		1000		19376		-979		
Miri Start Tomp	-300	- PRE	-300 -	- 22F	-00C	175	-300	+ 371	30C	317	-800	+ 1227	anc.	- 321
Norm Imput Volts	120€	2770	1200	2771	1704	271y	133	7779	1707	27.7%	1501	2771	1207	27.79
tumniTipe	HOLDHIA	H-H6%	DE DEST	SQUIPE	VIV. HIPS	filespe.	310	1468	FIX-Frank	3.147	2-CWA	PCANIN	HE HOL	E HP
Max.legat/Amps*	0.0	DE	1.0	9.0.	1.9	0.8	1.6	51	2.6	125	4.3	0.9	-37 -	1.6
Tatal System Wells**	56	- All	77	65	500	(0)	7-1	R	128	110	190	MT	700	773
ound Ratings** Kirtin WhisperPack	.X.		1	A	. 6	W			N.	0	.0	A	A	Α.
Equivalent F-Can	B	8-	81	- 8	- GL	- B		II.	- 6	B	Fitts A	LIP MODELL	8	- 6

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Printed Factor	- 48	26	+0	6%	- 4	Mr.		9%	- 16	976	+9	5%	- 9	16	14	27%
Min Start Temp.	300	-38.1	-30C	×-725	300	- 225	-300	- 12F	-30C	*-22F	-30C	-134	-300	921	300	10
Nors-Input/Volto	1904	TITLE	TEM	2777	3,700	2754	1.3%	1574	1200	7,774	120V	2770	120V	277V	120V	-377V
EalistType	3 Cult	(E sak	C	AM.	T-CWA	LR.+HT	SIWA	E HAT!	- 0	AG.	S-CWA	LEHP	5-CWA	D HOT	5-CWA	LR: HPF
Max. Input Amps*	19	3.9	1.0	0.8	7.0	71.5	.73	110	2.5	11	129	1.5	13	13	1.8	37
Total System Watts"	-78	19t	5	10	330	236	790	272	2	95	343	374	.100	342	400	3075
SoundRatings*** KirlinWhisperPack	0.	. IA		A	2	A	c	A		c	10	1	·6 -	4		4
Equivalent F-Can		В		D.	. Srot.A	suppose.		1			Not Air	WKIDA:				

	100	DVV	40	ON	45	KW.	7/50	ONE-	107	MAR	100	W	100	370		
For Lamp Type	P(/	.56	PRONE		P9	LSE	PU	59:	PU	LSE	PU	LSE	PRI	OGE		
Power Fairtor	- 6	19	1-9	HMN		HMON		-95% -07%		1576		189%		+85%		
Min. Start Famp	-300	- 225	-30C	±-22F	30C+ 32F		300 - 326		30C - 229		300 × 30F		-30C = -22F			
Norm. Instus Volts	120/	2779	1204	2771	180	2774	-0.08	#ZTV	1701	2779	1709	2774	1.HOV	2779		
Ballast Type	SOW	LRHPF	0	CWA.		CWA.		DWA.	5-CWA		5-CWA		S-CWA		CWA	
Miki. Input Amps."	2.8	31	4.0	1.7	1.5	1.0	3.6	EO.	16.0	1.35		1.9	9.0	3.9		
Total System Watts**	452	425	- 4	53	538		Atte		940		1000		1000			
Scury/Rotings*** (OrlinWhisperPack)	2	-N	В			Not Available - Proposit Conformat Bissest Provided						-				
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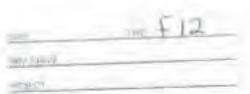
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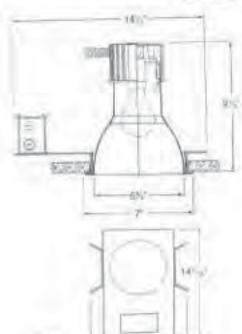
6" Recessed A-Line Downlight INC600

One 100W A23 or 150W A21 Lamp 120V or 277V



Architektür

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APPLICATIONS:

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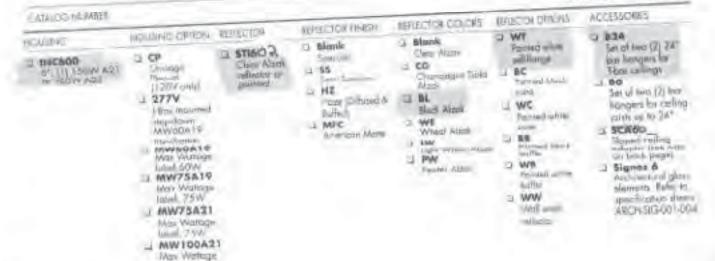
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Job Name:

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Catalog Number:

CFT632EB-STF602-BB-B24

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Type: F13-ALTE2



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APPLICATIONS

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6" Vertical Triple Open & Wall Wash Downlight

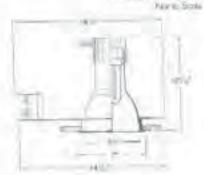
CFT632EB

One 26W, 32W, or 42W triple Tube 4-Pin Lamp

Nan IC Rainch 120V, 208V, 240V, 277V, or 347V

\rchitektur

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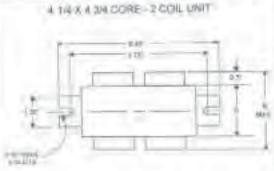
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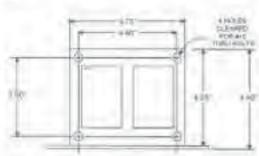
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Metal Halide Lamp Ballast Catalog Number 71A6092A For 400W M135/M155 (P.S.) 60 Hz SUPER-CWA Status: Active

DIMENSIONS AND DATA





Capacitie 7G260P33-H

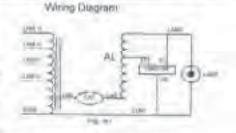


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Order Suffix	Description
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(ETL) + 2 Set Temp Rating 105°C

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Advant performance can vary depending an operating condition. Specifications are subject to change without solder.

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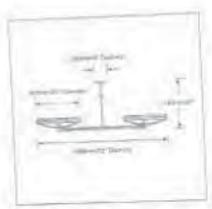


Job Name: Cakinta Local School Craimid - Eall Freeman School Catalog Number: 63-2442-4A-OP-OC-2-OT BLACK/ SN STEM (Applicati

Type: H2

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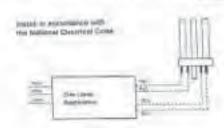
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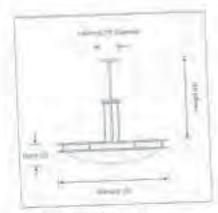
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SPECIFICATION GUIDE

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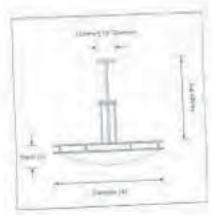
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Ī	QUIC	KTRONIC* Instant Start - Home Sa	INT DL40	CONT. THU		1			-	_	_	mi
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Job Name: Landa Local Spros Dured - Bast Freshmen School

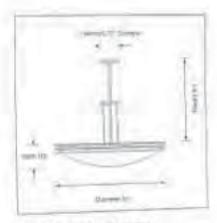
Catalog Number: 88-3739-0P-0C-2-0T-BLACK/ Notes

Type:

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GENERAL SPECIFICATION

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C340SI120RH & C340SI277RH

APPLICATION and PERFORMANCE SPECIFICATION

Description

High frequency electronic talked designed exclusively for 3 or 2 FTA0W(2GF1 lamps

- · Livre Voltage: 120vac o/ 277vac ±10%, 80Hz
- Enri-of-Lamp-Life Safety Shutdown Circuit

* Journal Hours

- Passive Power Factor Carrection

Larre	Desc	Line	thout -	Newmo	Power	Ballier	Belan Efficial	Harmonic	Chee
Tion	VAN.		Water	Link Arger	Facility	Factor	FMOUT	Total.	Face
FT40W/2G11	170	3	98	88.0	> 95	.29	0,90	< 20%	< 1.7
LI DEMONTA	120	2	75	0.86	> 50	39	1.32	4.70%	< 1.7
FT40W/2G11	277	3	96	0.38	⇒.96	.88.	0.90	< 20%	5 1.7
FT40W2G11	277	7	75	0:30	= .90	:00	1.32	× 20%	417

Performance:

- Meeta ANSI Standard CEZ 11/1983
- Meets ANSI Standard 082,41-1991
- . Mosts FCC Part 18 (Class A) for EMI and RFI

Non-Consumer Limbs

Application:

- Minimum Starting Temperature
- Maximum Ambiers Temperature
- . South Raled
- · Remale Maunting

60° F. 10° C

(2 h. max, lead length, to AWU.

Safety.

- · No PEGO
- * Ut. leted (Class P. Type ! Clustoor)
- . CSA Contlidd

Physical Parameters

Length 9.50" Wildh 2.40" height 1.50" Weight 2.70 lice

Lizad Langin

Ros. Shre 37 (4 17)

Rod, Shre 31

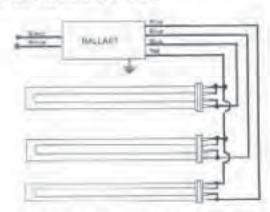
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Warranty:

Universal Lighting Technologies warrants to the purchaser that each electronic balloc will be free from defects in material or workmaning for a period of 5 years from uses of manufacture when properly installed and under normal conditions of use. Call 1-800-BALLAST for service.

Manufactured in North America

Ballant Must be Grounded



hose. For two temp application, cap one bive wed.

Submitted by Leasman Sales



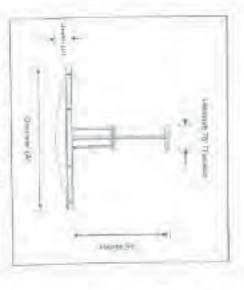
Job Name: Lakota Local School Dillinot - East Freshmen School

Catalog Number: 68-3027-OP-QC-OT BLACK /SN STEM Notes:

Type:

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GENERAL SPECIFICATION

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A SPECIFY LAMP CONFIGURATION/LUMINAIRE TYP

V 25.60	A SPECIFY LAMP CONFIGURATION/LUMINAIRETTPE	TOW/LUMIP	SAIRETT	20		
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10 E US	D + OCH MAN BLA TO ADMISS + P	73/mm/25*	IBSWINEST IBSWINEST	22mm655		Flui 883023 Flui 883027
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or provide a sample paint chip)	and describe to great Agenda on the	900	El Historianone	196
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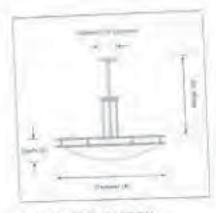
EN Emergency auston**



Job Name: worth Local Screen Doured - Emil and Total School Catalog Number: 68-3027-OR-OC-OT BLACK ISN STEM Type: H6

CONTRACT!

ZEDOS SR



GENERAL SPECIFICATION

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SPECIFICATION QUIDE

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Product Line Guide - Electronic Ballasta Pe H6

Product Line Runder QUICKTRONIC Again are ix	PROFES PROFES PROFES PROFES	SIONAL T5HO	PROStart 0.47/0.20	UNIVERS	Risted Lummans (firs) AL VOLTA 2000	Bo. of Lamps	Factor (BF)	System Lumens 2000	9 9	375
10101	OTTO 1420-24TGHOANNA PSA	120-277	0.4770.20	EDSOTSHO EDSOTSHO	2000	N		1.00	IF!	2000
49101	OTP 1x39-24T5HO/UNV PSN	120-277	0.38/0.15	FP38T5HQ	3500	- 14 -		1,00	1.00 3500 1.00 7000 1.00 3500	
19121	QTP 1x5/T5H0/UNV PSN	120-277	0.51/0.21	FP5475HO	5000	-		1.00	1,00 5000	9
49131	OTP 2454T5HO/UNV PSN	120-277	1.00/0.43	FPS4TSH0	5000	- N		1.00	1.00 10000 1.00 5000	
19161	OTP IXBOTSHOUNV PSN	120-277	0.7470.32	FPBOTSHO FTBOTSDL	7000 6000			1.00	1.00 7000 1.00 8000	
QUICK	QUICKTRONIC® PROFESSIONAL To PROStart® UNIVERSAL	NAL TS PE	ROStart® U	NIVERSAL	VOLTAGE SYST	SYSTE		SWE	MS	MS
SOUTH	HEALMHISSESS FREE	112 051	0.20/0.12	SINGE	alem			1,00	1,00 2990	
4918)	NSA AMIYELBZZZ ALD	120-277	0.55/0.23	FP2875	2900	- 45		1,00		5900 E
QUICK	QUICKTRONIC® PROFESSIONAL	NAL T5HO	PROStart	T5HO PROStart® DEDICATED VOLTAGE S	ED VOLTA	GE SY	to	YSTEMS	STEMS	STEMS
10003	OF SASHINGS FRO	1221	1,00	FPS4TbHU	5000	74E		1,00	1,00 10000	
19651	QT 2x54/277 PHQ	277	0.45	FP54T5H0	5000	na		1.00		10000
49660	OTP 1x80TBHQ/120 PSN-E	120	0.76	FPBOTSHO	7000 8000			1.00	1.00 7000 1.00 6000	7000
49670	OTP 1X80T5H0X277 PSH-E	277	0.33	FP80T5H0	7000	1		1.00	1.00 7000	

Type H6

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MICK	RONIC PROFESSION	DALL CONTO						- 10	Sec	14
100	OTP 1x36-24TSHOVAN/ PSN	120-227	0.258.10	FR2475H0	2000	1	1.00	2000	20	76
1101	OTH SIGN SATSHOURN PSH	120-277	0.479.50	(POSTSHO)	1000	1.5	1.00	3000	SN54 29	757.6
9511	gil 200 240 minutes								- 0	65
0101	CITY 1639-24TS/OANN PSN	120-277	0.05/0.10	FP391540	3500	1	1.00	3530	85/85	NEAR
80.5	GTP 2x39-24TSHOARW P5h	130-277	076031	telluno	3500	1	1.00	7000 3300	42	63
in a feet	GTP TUSKTISHOVUN PSR	120:277	0.51(0.2)	(P541590)	5000	1	1.00	5000	62/60	81/00
(912) (813)	US PREMIUM NO	120-077	1,000,61	(PSdSH)	5000	2	1.00	10000 5500	121/116	92/65 -83/65
Q151*	OTP THRITSHOURN PEN	128-277	6740.57	FRIGHIO FINITSD.	7900 0000	1	1.00	7000 6000	90	78 67
DUICK	TRONIC° PROFESSIO	NAL TS P	ROStart* U	INIVERSAL	VOLTAG	E SYSTE	MS	-		
	Contract to the Princip	MIL		-	2902	1		2900	32	90
MR175	DTF NERTSARN PSR	126-277	0.58/0.13	PERSONAL PROPERTY.	2900	- 1	1.00	5800	65/83	liky9
43165	THE SCHOOL SAID	125-277	9.860.43	********	-	1	1.00	2900	30	90
	CTRONIC® PROFESSIO	NAL TSH	O PROStar	H DEDICA	ED VOL	AGE SY	STEMS	100		
	gT 2-54/126 PHO	120	1.00	PESITERO	3000	2	1.00	19800	190.	83
#9555	OT 265A/277 9HD	277	0:45	FP5475HQ	5000	7	1.00	18000	.112	8.0
49654 49660	QTP 1001340/120 PSH-E	120	5.76	FTSOTSOL	7000 6000	1	1.00	7000 6000	91	77 86
19079	OTP 16079-0/277 PSI-E	271	6.33	FTRETSON	7000 6000	1	1.00	70d) 6000	90 90	76 87
quick	CTRONIC® Instant Star	t DL40	m true				The state of			
_	TTS leveland Objet - Horman Guille	150	939	Friedts	3150	1	0.58	900	40	76
49541	QT 1x40/120 QL		314	FT4015	3150	- 1	0.96	3000	- 40	76
49542	QT 1460 Q77 DE	277		F14075	3150	2	0.05	0.045	75	81
49643	OT 2546/120 DL	LSD	2.63		3155	1	0.96	8045	70	- 61
89544	UT 2×10/27 DC	177	0.20	FTARTS	3150	3	0.98	9070	510	150
10645	07 3640/120 DC	130	0.94	FT4013	2130	_	2.06	9070	110	TO
498=E	0T 3k40/377 DL	271	0.42	FEARIS	2136		-			
QUIC	KTRONIC PROFESSIO	ONAL PRO	Start DL	40	100	100	200	100	1000	9539
50(0)	QTF 1+40TTS-120 PSN-F	120	932	3778075	3180	1	2.05	1970	38	1
50330	QTP 1=407T5/277 RSN-F	277	0.52	FFARES	3150	-1	0.88	2776	9.7	7
50340	OTF 25/40773/130 PS94-7	100	0.83	FTANTS	1150	ġ	0.00	5511	71	7
50050	Q1P 2H6775/277 PSN-?	227	0.27	FTADTE	.0110	7	0.88	5545	73	7
50360	01F 3H60TTS/120 PSK-B	120	0.02	FT40T5	3150	. 8	9.16	8315	170	7
Bridge.	Col. Service Leep Service					_	0.86	8315	100	7

Submitted by Linesman Salos

Job Name: Lakora Legal School District - East Prestimen School

Notos:

Type:

CATAIOG Number: CF10UD232EB-242EB-277-STD COLOR

[JHH](1-4281



10" Direct Wall Mount Up/Down Cylinder

Two 26W, 32W, or 42W CFL Triple Tube 4-Pin Lamp 120V, 277V, or 347V Four 26W, 32W, or 42W CFL

THAT THE THE

PACIFIC

LiteForms

For sanvertion to millimeters methyly inches by 25, 4 Norto Scale



Job Name: Lasta Loca Scheel Osinsi - Edw Francisco School Osinsi - Edw

Catalog Number: CF10UD232EB-242EB-277-STD COLOR Notion?

Type; 11

CHIEFT-FEET



Throw Wilds-urce @ who

10" Direct Wall Mount Up/Down Cylinder

CF10UD

Two 26W, 32W, or 42W CF. Triple Tube &Pin (amp. 120V 277V, or 347V Four 26W, 32W. = 42W CFL Triple Tube 4-Pin Loep. 120V, 277V, or 347V

4	1/11	
NUMBER OF STREET		
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APPLICATIONS

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CONTRACTOR Class Proceedings of the Contractor o

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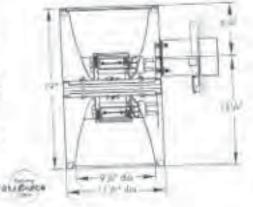
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Job Name:

Lakola Local Scrool Ostrict - Evel Presidenan Rimoni

Catalog Number: CF10UD232EB-242EB-277-STD COLOR Notes

Type:

PHOTOMETRIC DATA

LiteForms" - 10" Direct Wall Mount Up/Down Cylinder

RALLAST DATA	/Way	3600	5.0'v	time	2/7V	34%	190V	42W	3471
Seed Somes Wilder	28W	28W1	HW	2.DW	1/w	17W	AFTE	4700	HEW:
"SUFFERENT NOSS"	5.23	0.5	0.11	0.27	0.12	0.10	0.69	0.17	0.14
Paul Frequency	10/60Hr	SSIADHe.	6006094	35/W/W	III/WHY	SECTION	56-50%	307/80Hz	10/60mm
Sewer Frederic	-085	0.79%	1975	VEVV	- 100°S	wWP%	-09%	-997	49/50
Faline Footer	7.00%	4.00%	>750	SEN	VE'S	1487	9.7%	97%	MARK!
Total However, Drawings	+10%	+10%	4179	=10%	a. (17%)	610%	410%	410%	a (12%
Wilman Starting Terry	165 57	HALL PLA	MECEN	SEC DY	THE DE	1977 1971	HALL IDA	HETE	148C (09)

LAMP DATA PHILIPS			
Laur Web	26W Tople	37W Trysle	47VI Trole
Asient Lunion	1.950	2.460	3200
Efficacy LPWI	1.0	70.	76
Raned Gille	(0.000) Name	10 3377 tours	10-000 hours
XX	82	AT	183
William Starting Temp.	018	0.0	10/10

LUMINANCE DATA IN CANDELA/SQ. METER.

Argle a	Average D*	Average 90	
43"	8795	14065	
64"	597	347	
65	270	504	
75	124	4.5	
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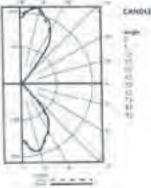
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NOTES

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Ri CETRREWILLIAZAN - 24AN CEL Triple Lamp (PL-T26M, F26T8XANP, CF260T/E) 232 Di 591 ID DIDENCED SZ: DE ΞF 41.0 HILE 8L-10 1,45 EEU 150) (B) (I 110 D 000, 03-8125-13 90 .01 501 0.5 96 D W. El 10 (146) 110 201 CETREMANGAZA - 14W CEL Triple Tube Lamp (PL-118W, F1818XVAP, CF1810T/E) ME H 107.1 MZ. Tin. 面 (()) () () () () () MY 862 11.90 500 Wil 600 417 20 BC. 811 30°E 100 THE REPORT OF THE PARTY OF ŒĬ. 0 1,44 THE DEC CETHT3WCXZAg - 1XW CFL Triple Tube Lamp 250 Bill 70 (00 F 435 r ID (DEX: 401-14-21-15) 367 (C = 5) DYG 32 92 111 153 0.10 ME *) 46 90% 15 17.11 × **新国的-22-95**至点 OEZ: 11.965 24.0 nti. 01.9 242 41 000 21.0 CL 2556-17-XH (ii) 190 (67) EZT mt. CECISIAN/CS/Id - SeW CET Closed Table Lamp (PLL-C26W/IP, F26D8X/IP, CF26D0/E) 112 m mar renst ro 61 0 Q15 91/0 187 OE O 150 100 UT 用包 进 E (000 12/9152-0) 001 81 80.0 REE. lit-in 10 91.0 mi. CFQYHWIG244 - 18W CFL Quad Tube Comp PL-CYUWAR, FYRDRXAR, CFTBRDAS 41.0 111 ACT. к 100 57 PLTI E STANKE STOR 662 22 3.1 7,40 520 (III) 9010 (6LL 均市 0.000000000 BV 0.2 61-67 (1.600) EVIL CFQ13WFG24q - 13W CFL Quind Tubin Lump (PL-C13W/4P, F13DBX/4P, CF13DB(R) PAN PAN **劉(11)** todayet unfest state 6349 CHIME **BONG** dell' Selping. Reiorci Sugary excellent NW 786 1003 (well Milita MITT

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Job Name:

Catalog Number: WD18D2/400SMH277/DB-P/SF

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WD18
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Type: Job:

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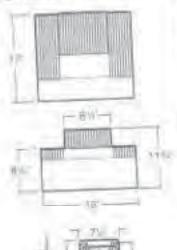


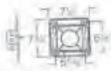
Approvals

Date: Page: 1 of 4

Specifications

Maximum Fedura Weight (400HPS) = 13 hr





Mounting Plate must be securely are cred to war outside the J-ton permeter



Reflector Housing: Core quere de can alaborate sub-lategral cooling fire. Rotanagainst ballum brassing as provide 10° of adjustment with degree consiers cant and brassing At O adjustment, less it estably conceased fices vises above forbustal with monte sepect constraint.

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Spea Reflector Module: Special Afra: operal span protests is minly received to a self-unitaries receive which emphasis the bearing by a method acknowledge bearing the protest and proven be speak descriptions. When we still be bearing and apply by time the strengthese. All softwares may be sent 1975 cases to self-unitaries and that seems their programmed section, with models of ficure large speakages. All methods are bearing the protesters all methods are bearing processed with a public decreasing a given material and tables.

Electrical Components: High power factor ballans are rigidly measured instability liquids and an across proving with a quick discounter play for matrix to the wicker. Surling ligroundships are 40°F for F65 lamp modes and -20°F for A0°F lamp envilse.

Meaning Plate. The standard manning plan is interched in wall be officed outside the function been preceded, all recording plates are the user about more with emissioned disface much see preceded in early place with flange rate in allow finding recording by furthele shall be supported by others toposed insulating plane and most stop scales as most a dry hindown Box.

Finally signs TCC immension polyectes pointed conspice 2.5 nm recently the leaves applied men a changes conserved coming 2.00 hour salt grow for including blanched colors on plack Carls Brosier, light Carly Harrison Short, to White Conversional are available and sobject to additional thanges minimum quantities and longer had times Come it representation.

Conflication: Us Assess to U.S. and Canadian party standards for my boations. Follow manufactures shall employ a quality program that is conflict to most the 142'4200's support.

CAUTION: Forces must be estanded in accordance with local podes or the humanal flower of Gode Fallam to the number and in according personal system.



Job Name: micky Local School Hand - San Catalog Number: WD18D2/4008MH277/DB-P/BF

faction.

Type:

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WD18 18" Wall Director" reverse when a work odd

Type:

Job

Page: 2 of 4



Standard Features

Fixture:

Car No. designan WD18 frame, Lip (L) or Douri ID configuration, and light distribution (L.), 4, G or 5.











Land Charles House

Cal. Peril. (Sapr 1817)



Type III

Wall Craze

36.07

Electrical Mediule

HPB - Hugh Present fordam MH - Aretal Platists PMH - Pube Stan Sheat France



Largi Large Live Watts Typie Volts 450 HPS 277

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250HPS100	400HPS2III
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5-15, Close E-18. Clinic Surry: Mocul time Mount Base Society. 5.51 and makes 5.10 Vigne

	250MH120 250MH20B 250MH240 250MH277 250MH347 250MH480	400MH120 400MH208 400MH240 400MH277 400MH347 400MH347	250PMH120 250PMH208 250PMH240 250PMH277	400PMH1208 400PMH208 400PMH240 400PMH277 400PMH347 400PMH347
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Social	Mondiffee	satisfied Base	Mogul Rese	Alogail Base
NAME OF THE OWNER.	IN-SIS	AA 59	KI-LOV	36431

Finish

Super TCIC powder cost paint over a chromate ronvesion cabel

Block Color: Call No. _ BL-P

Die Brosse DB-P

Light Cray LG-P

Flattre ro Silver PS-P

White

Loacon Ciston WHP CC-P

Custom cores suggest to additional charges, rememor countries and extended loss saves Consult representative. Eastern color description



Job Name: Laude voca beauti Count Laud Freshwar School Catalog Number; WD18D2/400SMH277/DB-P/SF

Note

Type:

K1

(ESH-ESH)



WD18
18" Wall Director"
remore 41/02 • wrth pd

Type:

Page: 2 of 4



Standard Features

Edure at No. dissipation WD18 short, Up It or Deser (In suffiguration, and light	WO Feeling	0		(A) ==	a G
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Electrical Module HPS = High Pressure Socilism MH = Wesal Halide PMH = Pulse Stan Metal Hullicki		250HPS120 250HPS208 250HPS240 250HPS277 250HPS347 250HPS347 250HPS480	400HPS120 400HPS208 400HPS240 400HPS277 400HPS347 400HPS480		
0	Lamp	P-15. Clear	E-19, Cless		
	Socies	Magail Have	Atagol Bare		
U Su	ANS Balliett Type	5-90	5-51		
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	Larrer	BT-26 or	ED-28 Clear	ED-28, Clear	(D-28, Clear
	275	EO:28, Clear	View Office	Mogul Base	Mogal Base
	Sadwi	Mogal Base	(Acap il Base	65.138	ACCUL
	ANSI Ballini Type	NI-58	65.59	West and	11000
Finals Super TGK powder Load paint over a shromat conversion conting	Cat No. 0	at Luk Ber BLP DB-P on subject to add	SLG-P	number chambles as	WHP CCP



Job Name: Calum Loca School million is a Catalog Number: WD18D2/400SMH277/DB-P/SF

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Type:

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WD18

Type: Job:

Page: 3 of 4



Optional Features

Photocell Control Cal No. (see right) No Option	Factory Installed spaids francisis with fully gardened sensor on sole wall. Cat. No. Line Volts: Cat. No. Line Volts: A-30 120V
Houseside Shield Di. No. (see right) No Option	CAUTION: Do not use the Housean Shald opiner with the wall Course is a well injection with the lancage shall opiner with the wall Course is a well injection with the total course total Course is a well injection with the total Course is a well injection with the total Course is a second course to the flat in the flat in the Conversion. Lat. The course with opportal convex place in the flat in the flat in the flat in the conversion.
6" Streetd Cat No Option	Alterenters shield held attached to loss from Alexanders a horizontal cased fisher edge when the harmonice is there \$' - Finished to much the fisher.
Polycarbonate Shield	For DOWN facture models only fully grained one piece vacuum tempered clear LIV stabilized polycurbonate piece vacuum tempered alim tone 250W minustrate reprocess annual tempered alim tone 250W minustrate pieces annual temperature during ficture operation will not occure not. NEDTE: Line cody within vacquities is anticipated to be from the larger of the process of the process of the periodic replacement in highly reconstructed to manual periodic replacement is highly reconstructed to manual optimism that an purchase is
Convex Glass Lens	Lemponed comvins glore lens replaces standard for lens.



18 Wall Director protection 4/1/02 - sed18-pdf

WD18

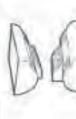
Page: 4 of 4

MES LIGHTING

Job: Type:



Optional Features



Fusing

(see right)

CAL NO Line Volts:

> SF 1200

208V 무

> 777V SF

> > SF 742N

> > DF ABOV

마 2400

No Option

socket during initial lamp start-up or after a power toser prior. The energines prior to HILD. Jamp reset blog full brightness. The balogue temp by others 210 with mediculars. integral electronic device energizes a 1-4 mini-can

Quartz Standby

Cal No.

No Option

Surface Conduit Mount Call No. No Option SCM18

Cast aluminary function Box and fixture mount for attachment (by others) to existing walls, bears or columns, SCM18 has one 15 NPT conduct tap in each side, top and bostom. Finished to match the fixture SCM18 for all fixtures, LIP and DOWN





coat paint, over zinc plated wireform. Finish is super TGIC thermoset polyester powder 11 ga (12" dia) 88 Wire 15" x 14"// x 15" deep-NOTE: Only available with flat lens applications:

Wire Guard Car No

No Option



Submitted by Lessman Sales

Catalog Number: WD18D2/400SMH277/DB-P/SF

Notes

Lakiyta Local School Datno, - East Fransıman School

Job Name:

Type:

LEEDT-4281

revision 4/1/02 • wd18.pdf 18' Wall Director

WD18

Page & of 4



GM LIGHTING

dol. Type

BURNING

STRUCABLE

1200 207

ABO.

340V

299V

1471

48GV

DR PAGE

Optional Features

DW 240 Quartz Standby OH NO (see right) No Option Integral electronic device energiase a LH ininucan serial during initial temp stant-up or eller a power interruption. Developping prior to H4.D. tamp reaching full brightness. TH halogen lamp by others are useful transferiers.

CH NO Surface Conduit Mount No Option

columns SCM18 has one 'at NPT conduit up in each side, top and bottom. Finished to match the fixture. SCM18 for all fixtures, UP and DOWN.





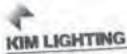
Job Name: Levels Look School District - Earl Free School School District -

Catalog Number: WD18D2/400SMH277/DB-P/SF

Type

K1

Limity 4201



WD18 18' Wall Director negation 4/1/12 · cold Egelf

Type: dot

Page: 4 of 4



Optional Features

	Optional	reatt	11 40.00				100%
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Cal. To Option	Invested changes invested changes invested on C maching tall bit 200 leaft masin	de or organism ghanese. To	state of the	SELEN. SAFE	5		
Surface Conduit Mount Cat No. 1 SCATS No Option	Call aluminum attichment lby columns SCM side, lop and to SCM16 for all	18 hours	ned to match	di tap în est the ficture	ti		
Wire Guard Cat. No. WG No Option	11 ga. C12° 0 Fresh is sup- cost past, or NOTE Only	an zinc pla	ted wintern		2 .	-	>

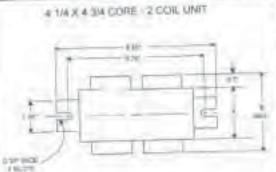


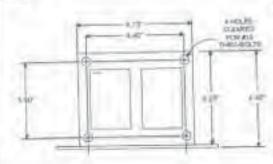
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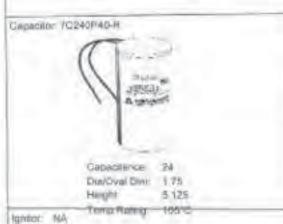


Metal Halide Lamp Ballast Catalog Number 71A6091 For 400W M59 60 Hz CWA Status: Active

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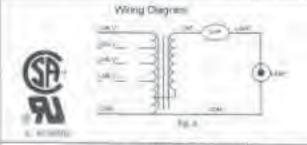






This ballast does not require the use of an ignitor.

BUT VOLTE		120	200	210	-	
DINGUIT TYPE	CWA					
POWER FACTOR (mm)	90%		- 1		- 11	
BOULATION .	1		- 1			- 7
Line Vittle	±10%	- 4				
Larry Wets	#107h	_				
INE CLIRALAT IAMEN	400	0.77			4.7	
Contrating		4.00	7:30	2.00	1,25	_
Don Drive		3.00	1.75	1.50	130	
Marring		5.50	0.00	1.75	1.50	_
A TEMPERATURE RATINGS		(11)				
manager Clank	+KABG-C1	1, 1		1.6		
Coli Temparature Colis	1025	_ t)	- 8	D	- 0	
WAL AMBREST STARTING TEACH	SEE BY SEE				. 1	
HOM DIVEN CHICLIT VOLTAGE	300			100		
ABUT VOLTAGE AT LAMP DROPOUT		50	104	120	138	
MINUT WATTS	468					
RECOMMENDED FUSE (APRIL)		- 92	7		- 5	
CORE was DOIL						
Dimension (A)	3.00			1	1 1	
Directors (6)	3.00	1				
Winspirit (firm.)	12				1	
Lorent Lampina	12	1	U.	1		
CAPACITOR REQUIREMENT						
Microheside	24.0					
Vices (1797) I	400					
Faul Durant Witness (empt)						1
10 HE TEST PROCEDURES (Finish to Adv.	white Text					
Processor for HID Ballatin - Form 1275	0		1	1		
High Polantal Text (Volta)						
I mende	2000					
If sections	2500					
Count Casual Guillage Test (Viole)	270-830	3				
Short-Growt Current Test (Amps)			1			
Secureary Current	1,504.30					
mask Current		2.7	1.5	6 13	1.10	
		18.26	0-12.6	0124	0.11.60	



phone on Advance to suffic evaluation				
Order Suffix	Description			
6/602	Bureal Withster Breaker & Dry Film Ceparatry			
etali	Bases Only, No Capacital			

Constitution of the process of the system The system are commonly from the Constitution of the Constitutio

ADVANCE

Budomilled by Livearrain Salar

Job Name: Lakota (p.a. School Opind - East Freetman School

WD14D2/175SMH277/DB-P/SF/ QS

3

1-1/2-4-201

IGM LIGHTING

Type:

Job: Catalog number:

FIRMS Element Middle

- 23ml and MINT - (ng) CHAMBLE

Approvals:

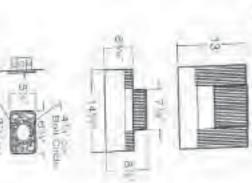
14" Wall Director modelan 4/1/02 * ((0) 4-0d)

WD14

Page: 1 of 4

Specifications

Mayarun Fidura 10 90 = (Subtraction



Mounting Plate Boll Crysta

Attaches directly to any standard 4" 1-box (by others)

Reflector Housing: One piece discuss abstraction with tregged cooling time. Related applicant hallone because to provide 10° of adjustment with degree markets can use applicant hallone because to provide 10° of adjustment with degree markets can use meaning plant with hybride stop means both lands for securing and wring. One standers are a society for whether the reflector transfer to reflect transfer transfer to reflect transfer to reflect transfer t Ballast Housing. Die piece ille-cast ukrolirum with integral cooling into Tawers to the street frame outside almang. Talthering the screws hicks the two housings argedier with equing provided by a sillicome govern for visual arming, adjustment may be accordant path the first one. reasing. At the edgestrical, term is totally concented from seew allique horizontal with Land Prairie: One plus o the can almonium with integral hinges and dainless stort fifth tempered glate seeled to born france with a silecture gasket and receive effect for the models had being mented from well market for weath our oil, and a safetone acaded. provided by a cinc piece extruded and vulgarized silicone garket, Lens is clear fiat. I'm the

recorded to an alternative modale which stacked to the liquidity by a reason quiet discussive ting hings and externit, All scaled till perceive mediate the tradity of the belief middles are future, presented with a quest electronics, play for making to the belief middles are future, presented with a quest electronics, play for making to the belief and the referent light distributions, all more transports within the surrectionality. Type II, III, and IV Reflector Module: Specular Alzak, updeal sometimes are made

Wall Grazge Reflector Module: severalar Alzak' ogle al segmente rigelly familied into a adisconstruct retains which sensities as the handrighty at module of the retarding the hints and desirrer. Black letwer varies has powed a fire temp are no controlling the had specified the behind the fishure, and spill light module surrespirate. All sectors amount sold in medican base and itsy. All module—no fectors provint from a particular arrangement in a fire Brighted and the Brightest

Spot Reflector Module: Spoother Mark, opined spire particle is requiry incontrol to a self-deviative in reduct which attacked to the formularity by a moderal quick-development by the control of the self-deviation and present but spire and control of the control matery to the bottest.

Mountains Plate: Nounting plate aliathes directly us may standard in Nincton Bire Starting compensates are -40°F for Hars lamp modes and -20°F for With lamp modes. having and an factor provined with a nurk-disconnect plug for naving to the socker Electrical Components: High prive latter ballass are mightly incurred inside the

Sutimities by Lawsman Saies

Job Name; Lincta Local School District - East Freshmen Songo

> WD14D2/175SMH277/DB-P/SF/ QS Catalog Number:

Notes:

Type:

LEBOY-4281

X3



KIM LIGHTING

Type: Catalog number: Jobi

- administra

See little 1-4

Approvals:

14" Wall Director Technica 4/1/02 = wd1-4pd

WD14

Page: 1 of 4

Specifications

Maximum Fature 26 ip



Reflector Housing: One piece dis-case aluminum with integral exciting first listates against halfast housing to provide 10° of adjustment with degree unaffects said historicans, Au C' adjustment, lens is ratally exactorated from upon above hadranial with ground airried disknoward.

Ballast Housing. One piece diesest altronomers with integral cooling fine Entern to habitating place with keyhole-lost inusing tech hands for securing and within Constant states shall collect hearing to rotate for alming. Taylitening the straw locks the two housing frees the reflective hearing provided by a silicante gaster. For securi almine, adjustment may be accomplished with the februre on.



Sacra Lica: Schur Dahiri - Enil Baahings Miroc Job Name:

Catalog Number: WD14D2/176SMH277/DB-P/SF/ 0S Model

1 VPR

LEST ATTE

KIM LIGHTING

WD14 14" Wall Director meson-Unit + wat soft

Type: Job:

Catalog number:



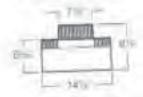
Approvals:

Date: Page: 1 of 4

Specifications

Material Follow Winds (1974/PS) = 35 th







Mounting Plate Allwines directly to any regressed 4" Jobox (by others)



Reflector flowing: Our prese the constituent of the angular carling from finite against failed beauting to provide 10° of againness with degree numbers pair but to treating to the action of the provide the state of the state o livium above downward.

Ballant Housing: Eine piece descent aluminum von vargrai canima fire. Danser to The state of the control of the first of the control of the contro

Larm Process. Care play a different planning on the miss of though and station of pro-train-taining unterlanguage can better on one long than on probability serious day to the probability of the plant or distribution of the missing probability of the probability of the process of the proce ters is makinged that will have for your run off and it efficient scaled

Type II, III. and IV Reflector Module: Specular Altain opinial symbols are region measured to an electrical module which attaches to the bounds by a module specific disconnecting brings and fastonic All sociate are perceitan medium trace uses (see, or medium on factory prevent outle a quarterine recent giving the material to the bulliar Available in time light distributions, all exerctanges his within the carse fearing.

Well Greate Hartactor Morbile Specular Alsak operative process a nightly seminal into a with contained market which studies to the heaven by a noticed quick situation for the party of the heaven by a noticed quick situation for the heaven and particle to the temp are for controlling the felt quick situation belond the heaven and particle mention and particle mention. All washes are procedure median belong that AVV. All the outer on factors personnel with a special constraint to the matter of the best of

Special Resolvantion Management (Special Control of Special Control of

Electrical Components: then proceed in a finite house, we appear the world work of bostons and an incidence provided with a special decomment plots for receiving in the same waters are provided as the first large modes and other than the bare modes.

Materiana Plate recommendate market streets to an execute a special box.

All manufactures are the constitute of a survey of the bost made are provided to only the bost with flatter rate to determine the facilities for the street of the street of the special treet of the special treet. others have an executed plan and treatming radiate to know a vity purescentiles.

Pleaste super TOX members polyette powder coat paint, 2.5 mil membra mickness, and sent respectively. The members produce the product of the sent test week a more rating. The plant of the

Cartification, LR Limit pt 1.25, and Consolan conty stantants for our locations. Focus of standard particular stantant property of standard personal data for the second personal persona

CALITION: Felices must be grounded in accordance with kind codes or the historical Electrical Code. Failure to do un man result or service personal my ny

Catalog Number: WO14D2/175SMH277/DB-P/SF/ QS (site)

Туре:

122-1281



WD14 14" Wall Director minor 4712 - - 11424

Type:

Page, 2 of 4



Standard Features

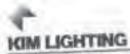
Flature Cal. No. designates WD14 Insuré, Up ILD or Nove ID	WD Fedure	(3)	0	0		ō
configuration, and light munbasen G. I, 4 G in S.	Light Entrésient	Type 8	Type III	Dyse (V	Wali Graces	Spor
	Cir. No.: (Up-14) Cir. No.: (Covm (4)	WD14U		□ WD14U4 □ WD14D4	WD14UG WD14DG	WD1408
Electrical Module	Cat. Nov. na Electr	ical Modelles av	Attable:			
HP5 = High Pressure Scullum MH = Menal Habite		70HPS120 70HPS208 70HPS240 70HPS277 70HPS347	100HPS120 100HPS208 100HPS240 100HPS277 100HPS347	150HPS2 150HPS2	05 40 77	
000	Lamp	ED-15. Clear	FD-17, Clear	ED-17, CRes		
CAC III	Godan	Medium Base	Wednin Base	Mellum Bis		
Lamp Lamp Lam	INSI Ballant Type	SAN	534	5.55		
Mare Type Votes		FORM1200 FORM1200 FORM124G FORM1277 FORM1342	100MH250 100MH250 100MH277 100MH347	150MH21 150MH21 150MH21 150MH31	1754 10 1754 77 1754	H240
	Aliche	ID-17 Clear	EELTY-Clean	ELIT Chi		
	Societ	Michael Maler	Machine Base	54omam Ba	-	those
	ANSFINALIAN Type		39-00	71303	70.52	
Firms (Chr. provider Steel paint over a provider Steel	Color that Cat No. 17 CLP		LO-F	PAP		CE#

Job Name:

Catalog Number; WD14D2/175SMH277/D8-P/SF/ QS H-1--

Туре:

Samuel State



WD14 1.4 Wall Director*

Type:

Page: 2 of a



Standard Features

a. No. designates WD14	0	0	(80)	(v) =	a
gum, Up (1) or Down (D) optigunitum, and light subution (2, 1, 4, G or 51	VVII Fisher Vige Desidence	1990 11	Type III	Type IV - IVs	Grazer Spot
	Lat. No.: (Cap 147) Cat. No.: (Dison 14	WD1402		Albido.	VD14UG WD14US VD14UG WD14US
Dectrical Module	Cal. Non, for Boyon	I Abedules av	nildste		
IPS = High Freezen Sodhule MH = Monal Fishion		70HPS120 70HPS206 70HPS240 70HP6277 70HP6347	100HPS120 100HPS208 100HPS240 100HPS277 100HPS347	150HPS 120 150HPS 208 150HPS 240 150HPS 277 180HPS 347	
nistra	Limp	ED-17, Chia	FD-17, Plan.	ED-17, Chair	
rac II	Societ	Medium Dave	Midden Haw	Medium Res	
Limp Line	ANSI Hallam Type	5-10	5.54	5-55	
Vivito Type Volta 150 HPS 120		70MH120 70MH208 70MH240 70MH277 70MH347	100MH120 100MH206 100MH240 100MH277 100MH347	150MH120 150MH208 150MH240 150MH277 150MH347	175MH120 175MH208 175MH240 175MH277 175MH347
	Larep	ED-17, Clear	ED-17, Clear	EO-TZ, Clini	EO-TT, Clene
	Societ.	Medican Dave	Virgitor Haw	Atedium flore	Mediam Baw
	ANSI Ballast. Type	Mar	14.90	W-105	M-57
Finish Super TGIC powder coat paint, ever a chromate	Color Madi Cat. Not.: 7BLP	Ches Brown			MH-P TCC-P
Conversion coaling	Consili representa	peti to addison rive. Contoni co	al charges, minim alor description	mum quantities a	nd eidended lead time



Job Name: Leste time Scroot Dennit - East Freshman Scroot Catalog Number: WD14D2/175SMH277/DB-P/SF/ QS Number Type: K3

189,491



WD14 14 Wall Director revolute \$102 + workput

Type

Job:

Page: 3 of 4



Optional Features

Photocell Control Factory installed made floating with fully gastesert Cal. No. (see right) montor on side wall. No Option Cat. No. Line Vehic Little Volte Photocal A-30 A-31 120V A-33 Control 1001 A-35 347% A-32 240V Houseside Shield Complements become should and black end-panel for refector. Factory establed to reflector module. Reduces both toward wall by the arround abovan. Cat No. (see right) No Option CAUTION. Do not use the Exposescle Shield option. with the Wall Grazze as a will interiore with the light. Approximate Light THERE Type III Type IV Reduction Toward vyall-H5 HSC to flat look his convex with HS for But lens HSC for finance with perional convey glass lens. Aluminom drade sold-attached to lone trame. Maintains a horseoplal cutoff reduce reign when the furnishing is 5" Shield 50814 Citi. No. med 5% Firmhed to match the fature. No Option h" Smith For DOWN fixture models only, fully guilland our piece vacuum formed clear L/V subilized polycarbonate Polycarbonate Shield LS Cat No. shared replaces starefull tempered glass lone. Na Option Phlymrocom Convex Glass Lens Tempered convex data lens replaces standard flag lens CGL EM-No. No Option Cheverham

Type:

줐

PB07-4281

14" Wall Director revisua anaz • wd 4.pdf

WD14

Page: 4 of 4



KIM LIGHTING

Type: Job:



Optional Features

Fusing CHE NO. (see right)

Line Vulus

120V

JOHN Y

240V

1777V

SF

347V

Cat. No.

Quartz Standby
QS
QNO Option specked during initial lamp start-up or offer a power interruption. De-energias prior to H.J.D. lamp reaching full prightness. T.4 halogen laws by others. injegral electronic device energizes a 1-4 muni-cam TOO WASH LINEXPARED.

Surface Conduit Mount Cal No. SCM14D No Option

surface, Froistwal to march the lixture and Editors unly. Must be securely minimized to wall attachment (by others) to existing walls, beams or columns. SCM14 has one W conduit tap in each side Cast aluminum function Bus and fixture mount for

198

Trisk is super TGIC thermuset polyester powder coal SCMTAD for DOWN returns only





DAL NO. Wire Guard

No Option



Summitted by Lecentian Sales Job Name: Laxola Local School District - Esci Fresieman School Catalog Number: WD14D2/175SMH277/DB-P/SF/ QS Notos Type: LEEUY-4281 돐



KIM LIGHTING

14" Wall Director®

Page: 4 of 4

Type:

Job:



Fusing Call No.

(see right)

Line volu:

120V

PF VBOZ

Z40V

277V

347V

Cal. No.:

Optional Features

Tal No Cas Option Augusts standing integral allocarrate desper entergizes a 1-4 mini-can socker during initial lamp vani-up or alter a power interruption. De operation prior is HillD. Jamp reaching foll brighness. 1-4 halogen lamp by others. 100 war maximums.

Cast aluminom tametion Box and more mount for attachment the others to existing walls, beams or columns, SCM14 has one W conduit tap in each side and bottom only. Must be securely mounted to wall surface. Finished to match the focure.

Surface Conduit Mount

DAY

SCM14D SCM14D





Job Name: Labous Lonal Seriori (Labous - Emil Assertment School) Catalog Number: WD14D2/175SMH277/DB-P/SF/ D5 Notes

Туре К3

PREMIERS.



WD14 14" Wall Director mass 4"(8) • adriable

Type: Job:

Page: 4 of 4



Optional Features

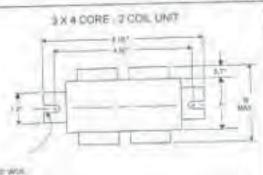
Fusing (see right) No Option	Limit Vote: 120V 204V 240V 277V 147V 147V 147V 147V 147V 15F 15F
Quarte Stanoby	integral electronic device anarghous a Tot region as section during within hamp staff-up or other a power interruption. Co-entergrass prior to 113, D. Langu reaching sub-languages. The habition tamps by others. This was manifestation.
Surface Gondult Mount Cal, No SCM14U _ SCM14D _ No Option	Cost abarringer function Box and foruse require for interferent flay others; to extrem really, beams or columns. SCAN-I has one to conduit up its each side and bettom only, must be securely recorded to stall soffice. Finished to match the fluture. SCM14D for CX NV's induses only. SCM14D for CX NV's induses only.
Wire Guard Little WG No Option	1) ga 1.12' zha.i Bih Wire. 12 hr. x. 1600' x. 1 hr. deep. Eshih is super TGIC therrespet polyeder ponder cost pant, over zox plates wisetom NOTE: Only mailothe was that lies applications. Wire Gra

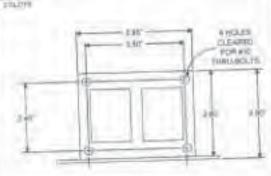
Type K3

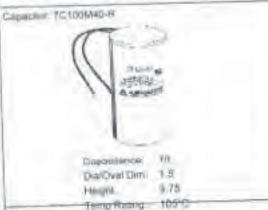


Metal Halide Lamp Ballast Catalog Number 71A5590 M57/M107 For 175/150W 60 Hz CWA Status: Active

DIMENSIONS AND DATA







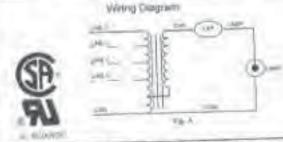
ignitor NA

This ballast does not

Temp Roman

require the use of an ignitor

THE JAN. 1875 HARDY VOLTE CWA CHICUIT TYPE Mrs. POWER FACTOR IMMI REGULATION 430% Line Vote #10% Limit Hate LINE CURRENT (AMIN) 1 NO 1 DA 0.90 0.00 Operating... 180 104 080 080 Open Catali 130 076 0A0 056 Elliwith UL TEMPERATURE RATPION H(180°D) TRANSPORT CHIEF 1029 B D D Col Templeshire Core VOTE OF SHIP MIN AMBIBIT STARTING TEMP 506 NOW OPEN CHICLITY VOLTAGE 130 104 120 INFUT VOLTAGE AT LAKE DROPOUT 210 REPORT WIRETEN RECOMMINISTED FURE (Ameri) CORE WHI COR 8.50 Discounter (A) 3.70 Correction (II) ±25 inheight little i 12 Load Lengths CAFACITOR REQUIREMENT 100 Montheads 400 Vota (min) Cault Corners Withstand (wmpt) BS HE TEST PROCEDURES (Rate to Atlanta Task browning for set) Balanta - Form (270) High Potential Test (Vote) 3000 1.mmas 2500 2 seconds 275-335 Open Catalit Vollege Test (Vota) Shirt Catali Current Tata (Ampa) 155-150 Sepondary Current 0.45 0.46 0.56 mput Commit. 1:20 0:70 0:50 0:50



Typical Ordering information Union off Adverse for Buttle greatmenty)

Order Suffix	Description
5100	Salari e-Welder Braciel & Dry Nin Capacitis
900	TRANSPORT OF THE CAPTURE OF THE PARTY OF THE

Salver controllers on the property of reporting and report Data in fayors upon have perfections by Advance Transferre

ADVANCE

E V-SERIES

INCLOSED/GASKETED



Features

- + For less and dirty enurgements Where enclosed/gasketed flatures are
- Cover selections exclude permant, colong, bracket and stars bon mounting
- Modular design services selection of royal body, globe, guard and reflector for succent applications.
 Threader rubs for interhoners to conduit anil set screen provided in
- pendant sovere
- + Twis size housings for 350W and 100W max.

- Colored globes existable
 Body/Quand Copper-free (-0.3%) cast aluminum
 Globe Standard and tempered glass, Clear polycamonate for 75W
- · Reflector White Polystroff plants:
- · UL1598 Dump Location
- NEMA 3.4 (when over with VSFC body and twispered globe)
 ULBM, Class I. Division 3, Groups A.B.C.D (VXEC only)

Ordering Information

Ordering /	110111111111111111111111111111111111111			Carper Comprised in	-
Catalog Burnish	Maximum (emp Sins	1916:3119		Cover	Sau_
No. of Concession, Name of Street, or other Persons, Name of Street, or ot		rend			
tim seed!	150/6-21	101	William	(P-Y	VG-15
VP-151	150/6-21	5447	V8845	Lend	VD-13
VP-tsZA		1/50	WINNESS.	08-1	MG-EN
VP-381	100/9-45	tie	VFP-30	UTIG	WG-TI
VP-303	(0.045-15	Kalling Or			
	and the state of	Canada Co.	/4.R-72	VX-17/4F	MARKET
VX-151/	150/0-21	147	VIII-15	ide devel	105-75
VX-813/	1304-21	144	Wester	30613VAR	Voide
VX-301	10052-53	1.02	200	106-279AF	VD-58
VX-302	500/P5-C19	54	M-30	48-27400	99000
		Carling	Plate	0.00	1/0-15
VE-551	1504-17	-	610-17	1989	
VI-301	30075-25		VFB-3E	986	VG-III
10.000		Wall Arm	Drawlerk Slove		and the sales
VWX-1511	150/A-27	3/2"	WEB 15	MANAGES.	96-11
VWX-152	13008-21	704"	W40-15	ANN ANN 2	VIS-U
VWX-301	3000/6-25	1/2	999,00	3000-3000-7	VG-86
ANX-301,	36045-E1	314	VFH-30	1/1/4/1/10/2	MS-30
Assessant.	2001		or Malayaret		
VW-191	140/A-21		VED-15	MW-E	VC-11
VW-301	300/9525	-	1978-337	SMALE	VG-38
A44-301	2000012-822	Standing	at Montey		
145.44%	15884-27	T 1/4"	VH6-11	V5-4	VII-12
V5-158	100/95-35	3.1667	VF5-30	VO-I	95-20
V5-300	11/4/12-4/1	2 1-00	2.000		

The Gard, Dursen Card NEWs St. Reptice: VER-TS and VER-T Residence of WELTS and VER-TS a

VO D

Cotating Number	Citatan
	150 Wwts
9G-TI	Clinar, Standard
VCEP-105	Class Sempred.
VAASGE 100	Ambai, lempered
VGGP-198	Green
V#G#-198	The State of the S
V86P-18Y	Blue
V6W15"	Pilifycardraniana
VPLGC-1001	Polycarophiate (for Mrt)
No.	RIES WANTS

Clear, Itserdant

Chrys, Temperate



VFB-30 VXFC-200-N34



VAF Celling Box Adapter







Wall Arm Outlet Box

Wall Arm Mount

Stanzhion Mount







HUBBELL

VCGP-200

trey main

Plate of Learning:



Job Name: Laures Local Server District - Gall Freshman School Servers

Cetalog Number: LHIRD2-STD COLDR

Notes

Type: WALLSWITH

SPECIFICATIONS	- LW charge rate
mell/DAPT =	Self-adjusting timer
	 Self-adjuming possive infrared sensitivity
	 Automotic filme-on, filme-off corrections
	No manual adjutements required
Omer Timeous	 Automatic mode: 4-30 minutes, self-adjums based
	IN OCHORNICS
	 Fixed moder 4. B, 15 and 30 minutes
	+ Test mode 5 seconds.
Pastive lefrared	 Dual element pyrometer and 12 element cylindrical
	AlmoTuff len
Protectil	Adjustable anchent light override ranges from:
	10 foot-candles to 500 foot-candles
Coverage	+ 1000 sq. fc. 180°
Power Raissaments	- 120/277VAC 30/60Hz
Decitical Range	# 130VAC 800W Excandiscent, 1000W Flucrescent, I/B HP
Out of the State o	* ZTTVAC, 1800/V Fluorescent, 1/6 HP
Load Requirements	A 15g minimum load
Operating Environment	Indoorsan anle
and a second second	 Operacing temperature: 32° – 104°E (0° – 40°C)
	 O'll su PS% relative humidaty, non-condensing
Construction	 Housey – high impact, injection-molded plastic (UL-94-5V)
Spirits state.	Impact resistant Lens
	Color-coded Mada are 6" tong
Spo & Wegne	* Size 42" s 18" s 2.1" extends cue 37"
Who is assetted	+ Wuglet 2.9 oz
Color	White, Ivory, Light Almond, Gray, Black
Montria.	* Single going NAPMA style werealt bore
	(Decorator style wall plate not included)
Corefrances	* ETL Listed (Conforms to UIL SYD SOR Correlled to CAN/CE)
	STD C21.2 NO. 14)
Warrance	· 5 years

HOW TO DRDER

Description

Facility before Dual Comes Wall bench Storme som bestattablet met december Storme Commit.

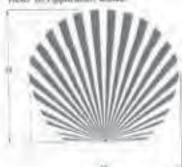
120/277VAC

DHERDO* Passive Infrared Dual Circuit Wall Switch Sensor with Intel AQAPT and Automatic Only Control. 120/277VAC

* = W - White, - hory A - Light Airmind, G - Gray, B - Black

RANGE DIAGRAM

*Refer to Application Guide.



WIRING DIAGRAM



HUBBELL | Building Automation, Inc.

Mothers Rending Reductions, be mad Decrap Rend Rending Con. Scientist (MC) 400-100 (10) 400-4118 for stress hubbell-automation com-



Job Name! Lasta Loca School Conner-Base Frankrim School Sansons OMNI-DT2000-RP

Notes

Type

CEILING

agent dame

Hores Using PIR sessing traph servor annually, with US thaps sensitivity) provides quast performance. Conventional cooling transmit out that servors are a single formule to operation BOTH for ON, EITHER for KETP ON. The method requests that both sensors remains that the servors to the CIN. The CINNA DIT uses a provi separate signal for KETP CIN. The CINNA DIT uses a provi separate signal are saded separate to form a small whom a the separate strongers are added separate to form a small whom a the separate strongers are added separate to form a small PIR separate such The absence of this method is than a small PIR separate such as wrough The invalidation between the separate strongers and continued only all minutes to be added to prevent the separate strongers adjustence and calculated only all minutes time continuent adjustences and calculated board to nominabilities servors.

The sensor requires a 24V DC. MP Series power pack. The ascentring base, provided with the series, allows quick and assy recentling.

ADAPTIVE FUNCTIONS

The CMMI companity analysm and adapts to changing conditions:

Period Insulation	Time 60 nordes	Action Times automatically resets from Test (9 accords) to 6 mouton.
Liucomy	Four meets	Covernors

Considers blue offs)

Z. Air current adaption

3. Torser optimization

Adjustment Male
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SPECIFICATIONS

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Plouring — Rugged high-impact, equition motion plants. KR 6BS Cycles (Lt.-945VA)

Turne clear rating. UV symbolors. Color-coded leads are 6

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35 mm height, 142 y l

Color White-

Regurements 24VDC, 33 mA

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Chapte 14 VOIC region to receive superior superi

Operating

52"f so 104"f (0"C so 40"C) 0% to 95%

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For Indept use Offic Rolley and Photocoli Included (Sorn) Rolley NO + NC special's 500ms rated

iii) 24vic, three acre, colored reserving Photocell, 0-1000 Line adjustable.

Warranty 5 years briefed.

MODELS Application Coverage Color Car. No. Private Office. CHEV/Vivia 500 su. R. CMNLDTS00 Pristate Official 500 sq. #... CMINI-DITSOURP CHEVIVIVI Down Diffice 10000 eq. ft. DISTANTANCE. OMNI DT1000 Open Office. 1000 ss. W. **CRE VVVision** OMNI-DT1000-RP 2000 sq.ft. Open Office. CHI White 2000 sq.ft. Open Office OMNEDT2000-RF CHWINE

RANCE DIAGRAM



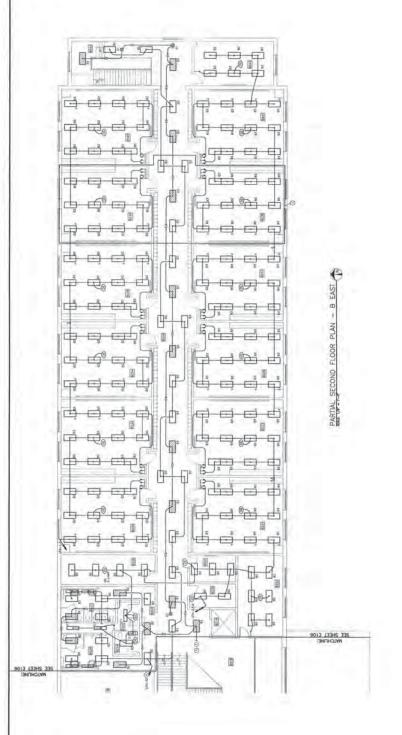
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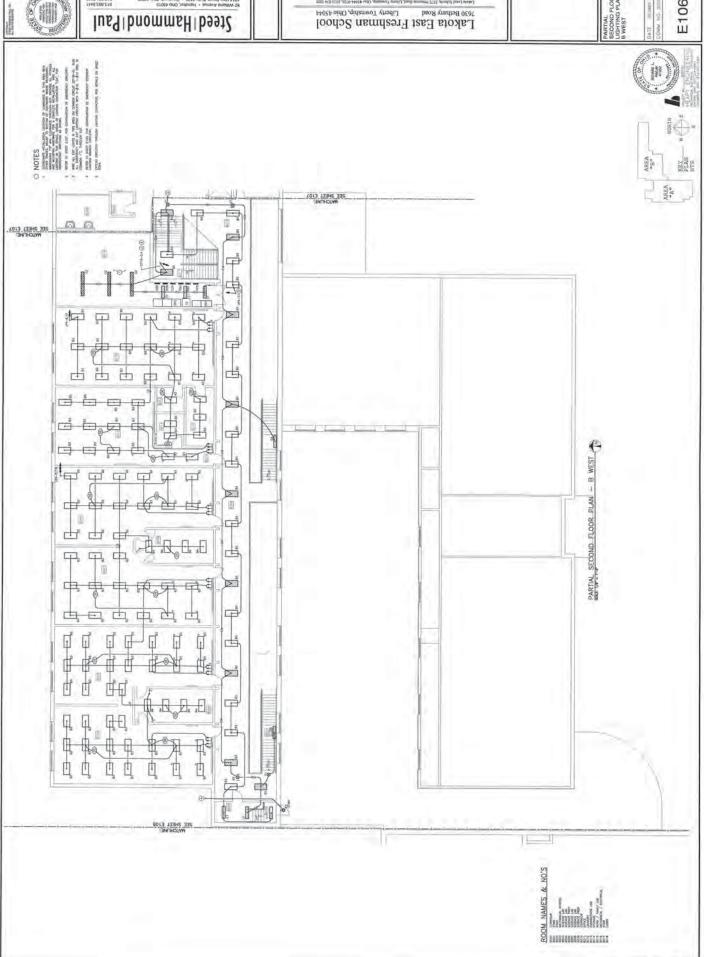
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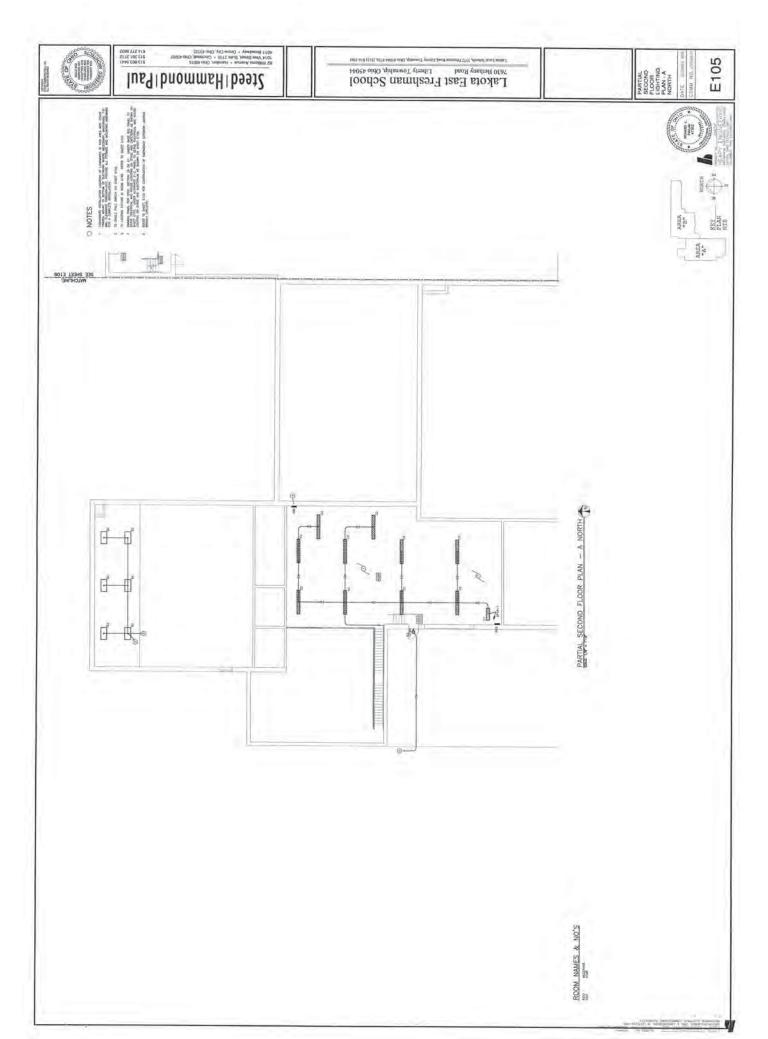
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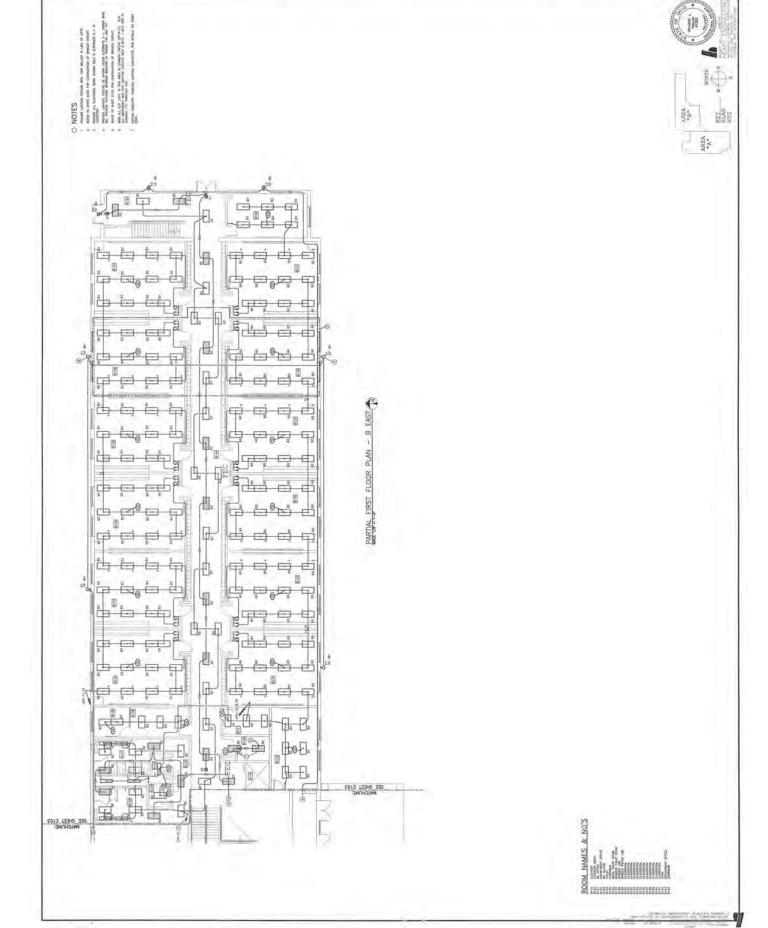
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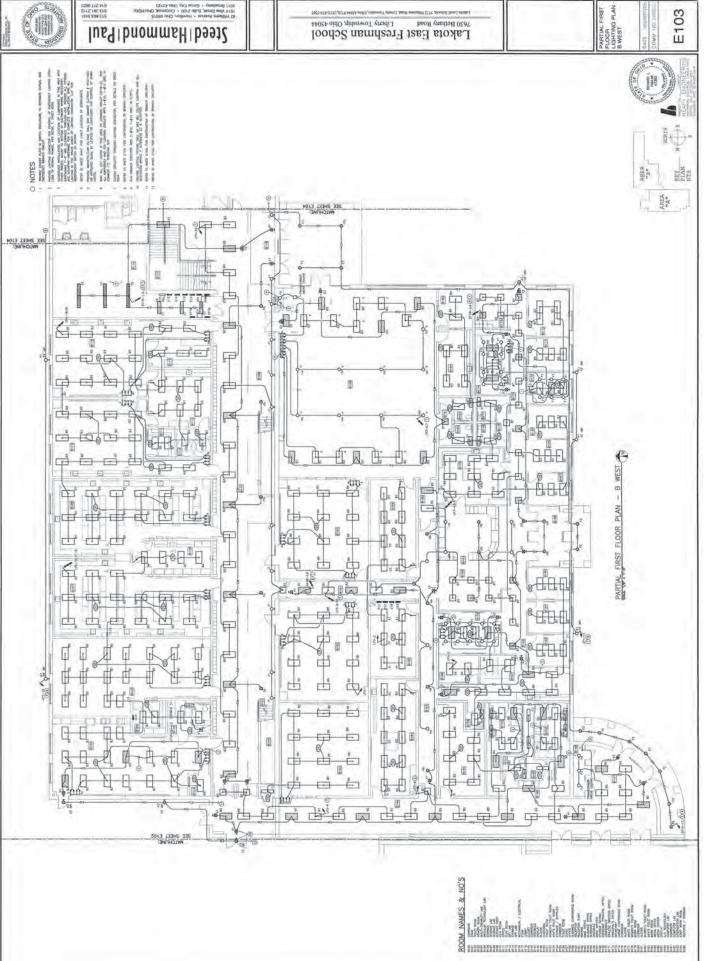




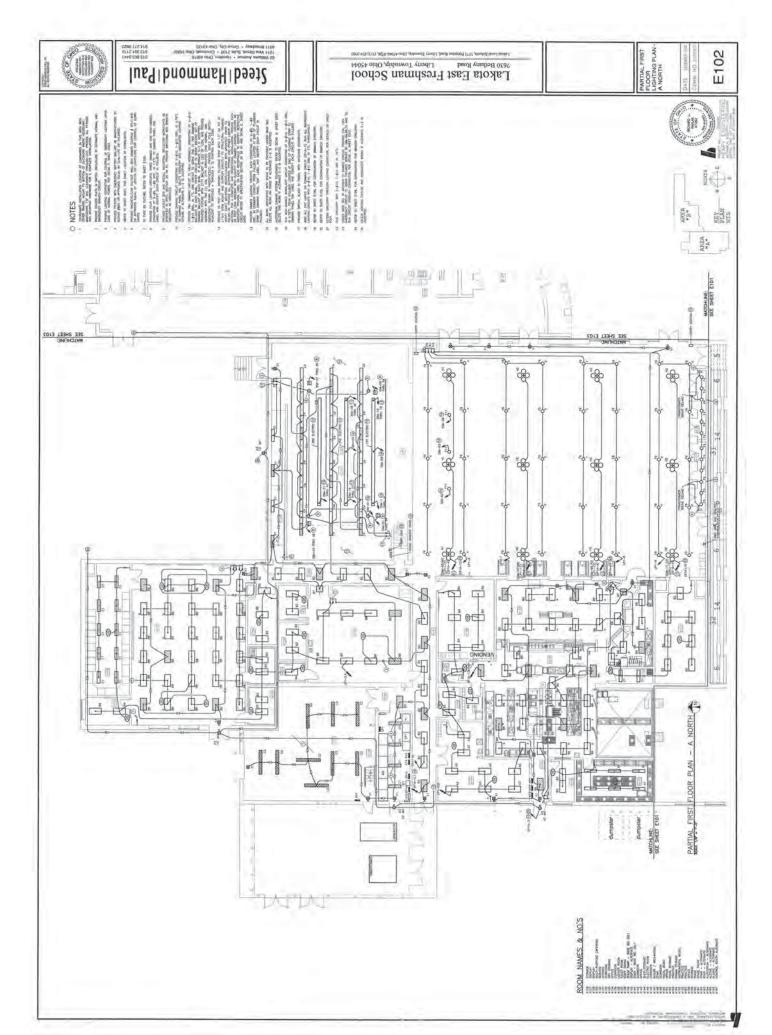


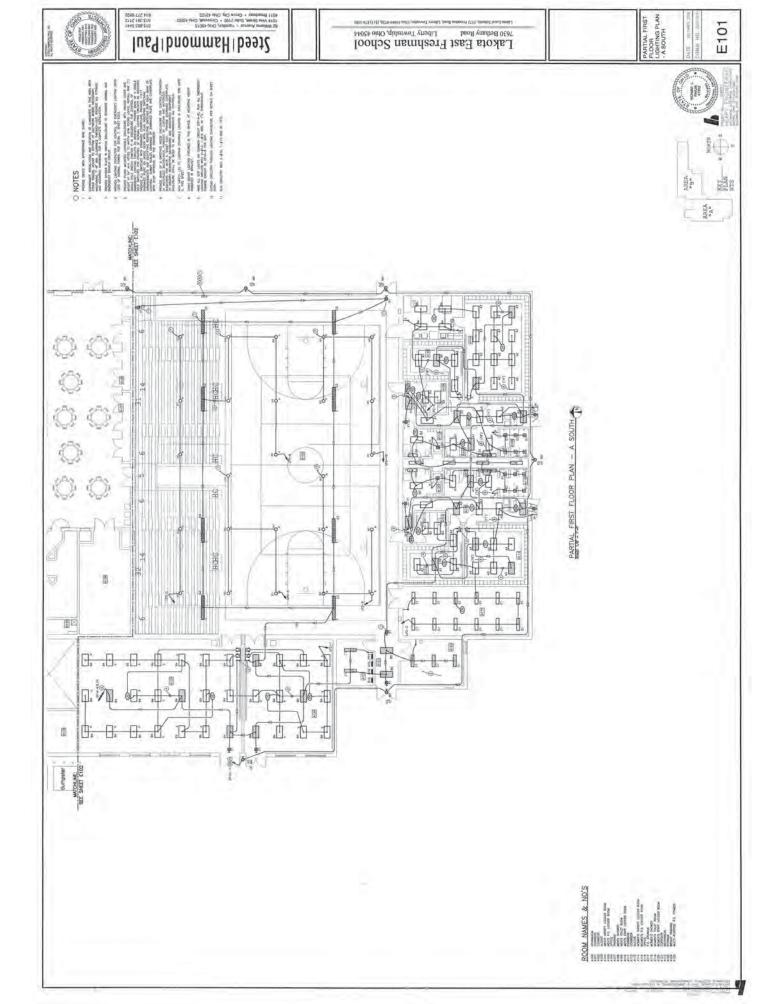
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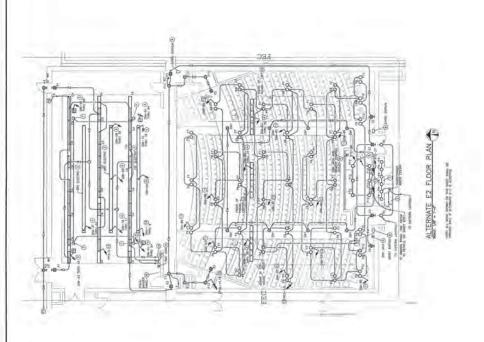
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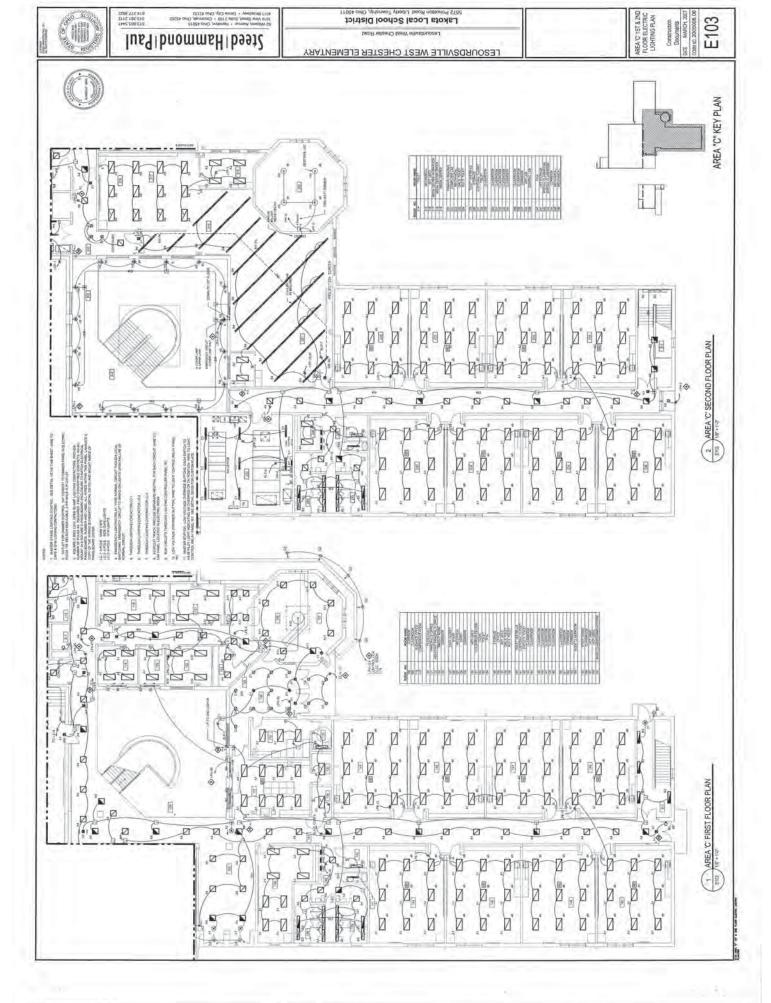
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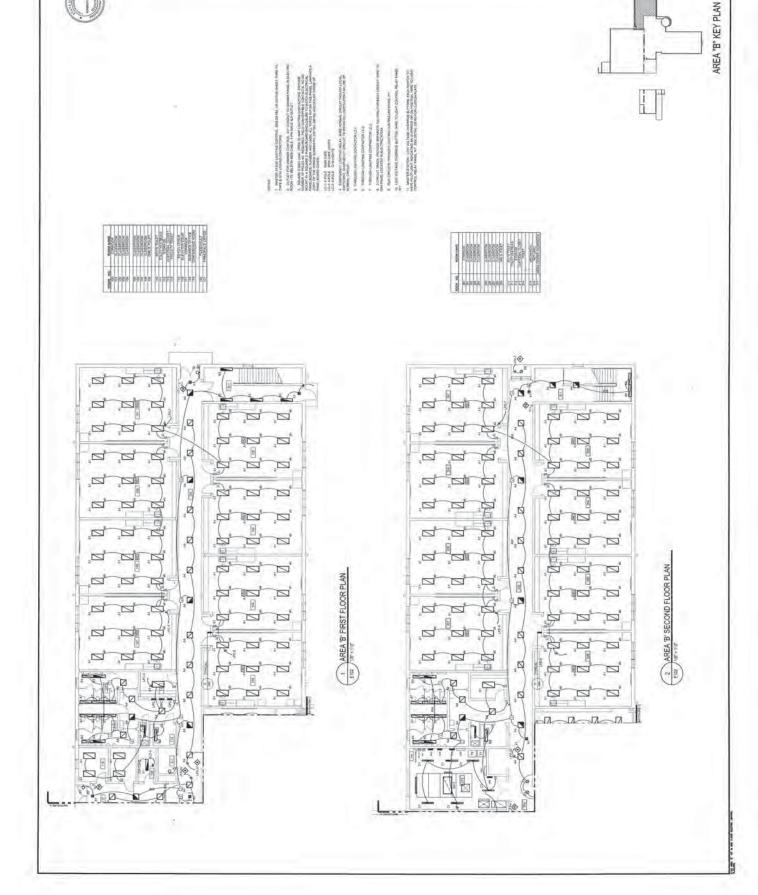
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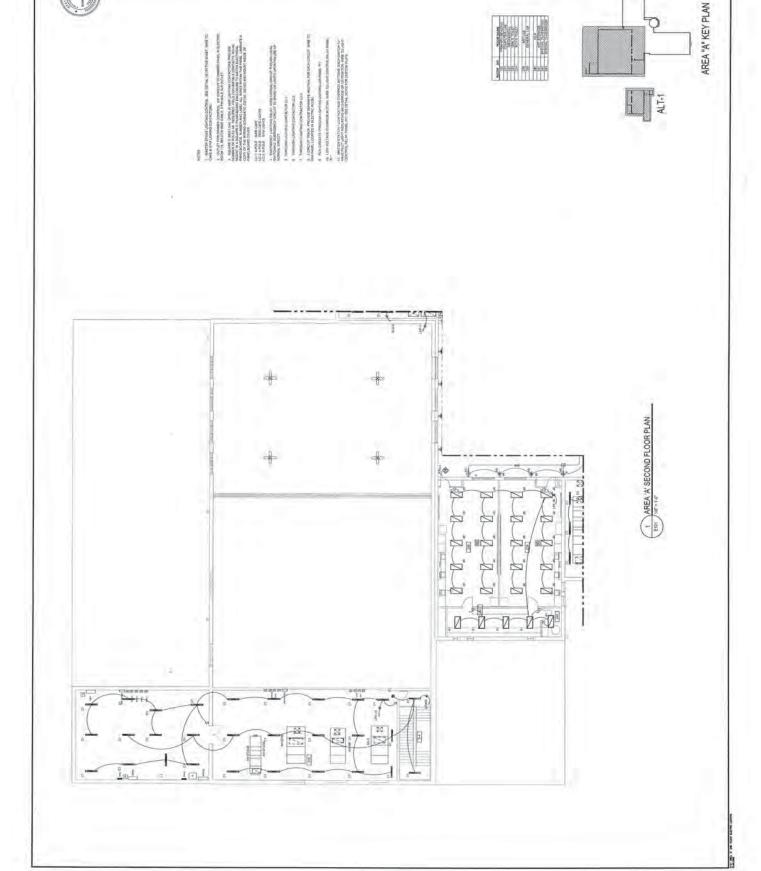
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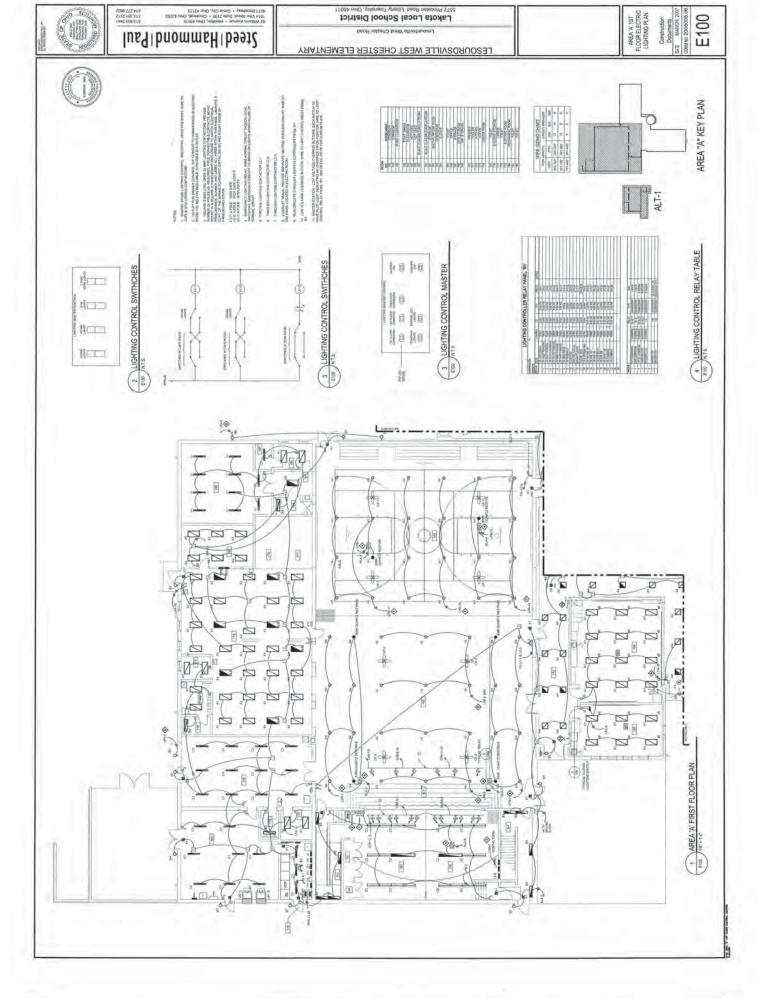


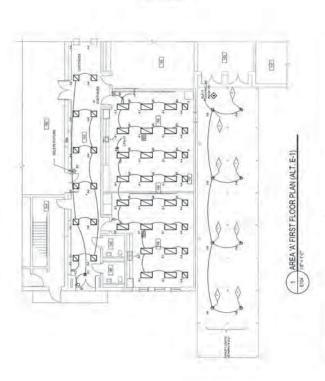


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Lakota Local School District 572 Petroeton Road Liberty Township, Onto 4901

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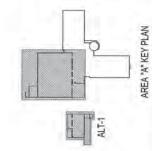








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Lakota Local School District

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