



Public Utilities Commission

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

13-0991

Case No.: ~~TE -12-1825~~-EL-EEC

Mercantile Customer: Evergreen Local School District

Electric Utility: The Toledo Edison Company

Program Title or Description: Evergreen Elementary, Middle, and High School Lighting Retrofit

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 ee-pdr@puc.state.oh.us.

Section 1: Mercantile Customer Information

Name: Evergreen Local School District

Principal address: 14544 County Road 6, Metamora OH 43540

Address of facility for which this energy efficiency program applies: 14544 County Road 6 & 14844 County Road 6, Metamora OH 43540

Name and telephone number for responses to questions: Meg Bair 440-243-3535

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. (Please attach documentation.)

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: The Toledo Edison Company

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) The customer's energy efficiency program involves (check those that apply):

- ☒ 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)). **If Checked, Please see Exhibit 1 and Exhibit 2**
- ☐ 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: 327,791 kWh

- 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. **Please see Exhibit 1 if applicable**

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

Annual savings: _____ kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

- 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):

_____ kW

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

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

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

A) 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 \$____. (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 showing how this payment amount was determined.)

OR

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

Section 6: Cost Effectiveness

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

- ☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____(Continue to Subsection 1, then skip Subsection 2)
- ☒ Utility Cost Test (UCT) . The calculated UCT value is: See Exhibit 3 (Skip to Subsection 2.)

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

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The 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 **See Exhibit 3**

The utility's program costs were **See Exhibit 3**

The utility's incentive costs/rebate costs were **See Exhibit 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.



Public Utilities Commission

13-0991

Case No.: ~~TE-12-1825~~ -EL-EEC

State of Ohio :

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

Jim Wyse, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Evergreen Local School District

[insert customer or EDU company name and any applicable name(s) doing business as]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

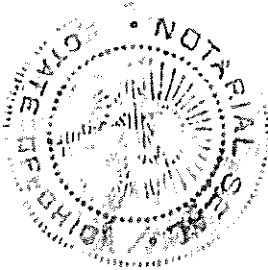
Jim Wyse, Superintendent
Signature of Affiant & Title

Sworn and subscribed before me this 10th day of April, 2013 Month/Year

Diane L. Patek
Signature of official administering oath

DIANE L. PATEK
Print Name and Title

My commission expires on May 7, 2017



DIANE L. PATEK
Notary Public, State of Ohio
My Commission Expires May 7, 2017

Exhibit 1

Customer Legal Entity Name: Evergreen Local School District

Site Address: Evergreen Elementary School

Principal Address: 14544 County Road 6

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	EVERGREEN LIGHTNG RETROFIT	THE LINEAR FLUORESCENT LIGHTNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGITNG SYSTEMS CONSISTING OF 25 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. METAL HALIDE FIXTURES WERE REPLACED WITH T5 HO FLUORESCENT FIXTURES	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	WE WOULD HAVE REPLACED THE LAMPS AND BALLASTS IN EACH FIXTURE AS THEY FAILED. THIS IS COMMON PRACTICE FOR THE MAINTENANCE OF LIGHTING IN A SCHOOL FACILITY. THE ONLY FULL RETROFIT WE WOULD HAVE PERFORMED WOULD HAVE BEEN AREAS UNDERGOING OTHER UPGRADES NO SUCH UPGRADES WERE OR ARE PLANNED FOR THIS FACILITY.	N/A

Docket No. 13-0991

Site: 14544 County Road 6

Exhibit 2

Customer Legal Entity Name: Evergreen Local School District

Site: Evergreen Elementary School

Principal Address: 14544 County Road 6

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C)	Note 1
2012	2,661,236	2,661,236	2,745,490	
2011	2,634,888	2,634,888	2,719,373	
2010	2,608,800	2,608,800	2,618,984	
Average	2,634,975	2,634,975	2,694,616	

Project Number	Project Name	In-Service Date	Project Cost \$	KWh Saved/Year Counting towards Utility compliance	KWh Saved/Year (D) eligible for incentive	Utility Peak Demand Reduction Contribution, KW	Commitment Payment \$
1	EVERGREEN LIGHTNG RETROFIT	11/18/2010	\$80,630	84,485	84,485	-	
				-	-	-	
				-	-	-	
				-	-	-	
				-	-	-	
				-	-	-	
				-	-	-	
			Total	84,485	84,485	0	\$0

Docket No.	13-0991	Savings as percent of usage	3.1% Note 2
Site:	14544 County Road 6	= Total (D) divided by Average (C)	

Customer Eligible Exemption Period: 38 Month(s) Note 3

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) Savings as a percent of usage is equal to the of total project savings (D) divided by the 3 year average Weather Adjusted Usage with Energy Efficiency Addbacks (C).

(3) Customer exemption determined by savings percentage in relation to energy efficiency schedule as set forth in O.R.C. 4928.66(A)(1)(a).

(4) The exemption period reflects the maximum potential exemption period. NOTE: The FirstEnergy Utilities cannot guarantee the length of the exemption period that will ultimately be approved by the Commission.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	84	\$ 308	\$ 26,045	\$ 4,050		\$845	\$ 4,895	5.3
Total	84	\$ 308	26,045	4,050	\$0	\$845	4,895	5.3

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
- (C) = (A) * (B)
- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (G) = (D) + (E) + (F)
- (H) = (C) / (G)

Evergreen Local School District ~ Evergreen Elementary School
Docket No. 13-0991

Site: 14544 County Road 6

Lighting Inventory Form

Applicant Name:	Evergreen Local School District
Facility Name:	Elementary School
Date:	12/15/2011

Instructions: Please use one line for each fixture type in a room or area.

For existing or proposed control, choose OCC for Occupancy Sensor, DAY for photosensor, HI-Li for hi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	84,485
Total Change in Connected Load	36.27

Annual Estimated Cost Savings	\$8,448.50
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$4,224.25
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$4,224.25
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	872
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	27.70
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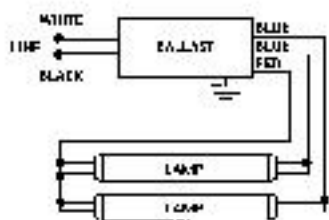
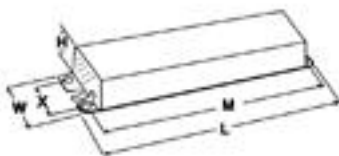


GE
Lighting

72262 - GE232MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Active Current Regulation regulates the output to each lamp with individual lamp inverter modules.
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	2 or 1- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency
Starting Method	Multivolt Instant Start
Lamp Wiring	Instant start
Line Voltage Regulation (+/-)	Parallel
Case Temperature	10 %
Ballast Factor	70 °C(158 °F)
Power Factor Correction	Low (.77)
Sound Rating	Active
Additional Info	A (20-24 decibels)
	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	72262
Description	GE232MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168722626
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168722629

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.4 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left	25 (635mm)
Blue	2	Right	31 (787mm)
Red	1	Right	45 (1143mm)
White	1	Left	25 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
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SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- NRCAN
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHS Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)(<=)	Crest Factor	THD% (<=)	Min. Starting Temp (°F/°C)
FE15T8	1	120	14	0.12 A	0.78	5.57	99	1 1/2	12	0.0 / -18
FE15T8	1	277	15	0.07 A	0.78	5.20	73	1 1/2	40	0.0 / -18
FE15T8	2	120	21	0.18 A	0.78	3.71	99	1 1/2	9	0.0 / -18
FE15T8	2	277	22	0.09 A	0.78	3.55	93	1 1/2	13	0.0 / -18
F32T8/WM	1	120	27	0.23 A	0.78	2.89	99	1 1/2	8	60.0 / 16
F32T8/WM	1	277	27	0.1 A	0.78	2.89	95	1 1/2	12	60.0 / 16
F32T8/WM	2	120	47	0.39 A	0.78	1.66	99	1 1/2	5	60.0 / 16
F32T8/WM	2	277	46	0.17 A	0.78	1.70	98	1 1/2	9	60.0 / 16
F32T8/25W	1	120	22	0.0 A	0.77	NaN	99	1 1/2	10	60.0 / 16
F32T8/25W	1	277	22	0.0 A	0.77	NaN	97	1 1/2	10	60.0 / 16
F32T8/25W	2	120	38	0.0 A	0.77	2.03	99	1 1/2	10	60.0 / 16
F32T8/25W	2	277	38	0.0 A	0.77	2.03	98	1 1/2	10	60.0 / 16

For additional information, visit www.gelighting.com

F32T8	1	120	28	0.23 A	0.77	NaN	99	1 1/2	8	-22.0 / -30
F32T8	1	277	28	0.11 A	0.77	NaN	95	1 1/2	12	-22.0 / -30
F32T8	2	120	49	0.42 A	0.77	1.57	99	1 1/2	5	-22.0 / -30
F32T8	2	277	48	0.18 A	0.77	1.60	98	1 1/2	8	-22.0 / -30
F28T8	1	120	25	0.21 A	0.77	3.08	99	1 1/2	8	60.0 / 16
F28T8	1	277	25	0.1 A	0.77	3.08	94	1 1/2	13	60.0 / 16
F28T8	2	120	43	0.36 A	0.77	1.79	99	1 1/2	6	60.0 / 16
F28T8	2	277	43	0.16 A	0.77	1.79	98	1 1/2	9	60.0 / 16
F25T8	1	120	23	0.19 A	0.80	3.48	99	1 1/2	9	-22.0 / -30
F25T8	1	277	23	0.09 A	0.80	3.48	93	1 1/2	13	-22.0 / -30
F25T8	2	120	39	0.33 A	0.80	2.05	99	1 1/2	6	-22.0 / -30
F25T8	2	277	39	0.14 A	0.80	2.05	97	1 1/2	10	-22.0 / -30
F25T12	1	120	24	0.2 A	0.80	3.33	99	1 1/2	9	0.0 / -18
F25T12	1	277	24	0.09 A	0.80	3.33	94	1 1/2	13	0.0 / -18
F25T12	2	120	41	0.35 A	0.80	1.95	99	1 1/2	6	0.0 / -18
F25T12	2	277	41	0.15 A	0.80	1.95	98	1 1/2	9	0.0 / -18
F17T8	1	120	17	0.14 A	0.79	4.65	99	1 1/2	11	-22.0 / -30
F17T8	1	277	17	0.08 A	0.79	4.65	80	1 1/2	36	-22.0 / -30
F17T8	2	120	27	0.23 A	0.79	2.93	99	1 1/2	8	-22.0 / -30
F17T8	2	277	27	0.1 A	0.79	2.93	95	1 1/2	12	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

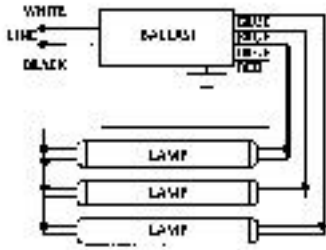
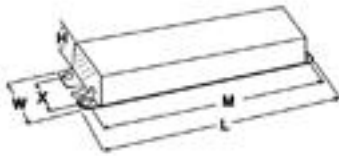


GE
Lighting

78621 - GE332MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	3 or 2- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency
	Multivolt Instant Start
Starting Method	Instant start
Lamp Wiring	Parallel
Line Voltage Regulation (+/-)	10 %
Ambient Temperature (MAX)	40 °C(4 °C)
Case Temperature	70 °C(158 °F)
Ballast Factor	Low (.77)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	78621
Description	GE332MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168786215
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168786218

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.1 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left	25.0 (635mm)
Blue	3	Right	31.0 (787mm)
Red	1	Left	37.0 (940mm)
White	1	Left	25.0 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
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SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHS Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)(<=)	Crest Factor THD% (<=)	Min. Starting Temp (°F/°C)	
FE15T8	2	120	27	0.23 A	0.77	2.85	99	1.4	10	0.0 / -18
FE15T8	2	277	27	0.11 A	0.77	2.85	88	1.4	10	0.0 / -18
FE15T8	3	120	33	0.28 A	0.70	2.12	99	1.4	10	0.0 / -18
FE15T8	3	277	33	0.13 A	0.70	2.12	91	1.4	10	0.0 / -18
F32T8/WM	2	120	53	0.44 A	0.87	1.64	99	1.4	10	50.0 / 10
F32T8/WM	2	277	53	0.2 A	0.87	1.64	95	1.4	12	50.0 / 10
F32T8/WM	3	120	69	0.58 A	0.77	1.12	99	1.4	10	50.0 / 10
F32T8/WM	3	277	68	0.25 A	0.77	1.13	97	1.4	10	50.0 / 10
F32T8/25W	2	120	44		0.84	1.91	99	1.4	10	60.0 / 16
F32T8/25W	2	277	44		0.84	1.91	97	1.4	10	60.0 / 16
F32T8/25W	3	120	58		0.77	1.33	99	1.4	10	60.0 / 16

F32T8/25W	3	277	57		0.77	1.35	98	1.4	10	60.0 / 16
F32T8	2	120	56	0.47 A	0.89	1.59	99	1.4	10	-22.0 / -30
F32T8	2	277	55	0.21 A	0.89	1.62	96	1.4	10	-22.0 / -30
F32T8	3	120	72	0.6 A	0.77	1.07	99	1.4	10	-22.0 / -30
F32T8	3	277	71	0.26 A	0.77	1.08	97	1.4	10	-22.0 / -30
F28T8	2	120	49	0.4 A	0.84	1.71	99	1.4	10	50.0 / 10
F28T8	2	277	49	0.19 A	0.84	1.71	95	1.4	10	50.0 / 10
F28T8	3	120	64	0.54 A	0.77	NaN	99	1.4	10	50.0 / 10
F28T8	3	277	63	0.24 A	0.77	1.22	97	1.4	10	50.0 / 10
F25T8	2	120	45	0.38 A	0.86	1.91	99	1.4	10	-22.0 / -30
F25T8	2	277	44	0.17 A	0.86	1.95	94	1.4	14	-22.0 / -30
F25T8	3	120	57	0.48 A	0.77	1.35	99	1.4	10	-22.0 / -30
F25T8	3	277	57	0.22 A	0.77	1.35	96	1.4	10	-22.0 / -30
F25T12	2	120	47	0.39 A	0.80	1.70	99	1.4	10	0.0 / -18
F25T12	2	277	47	0.18 A	0.80	1.70	95	1.4	10	0.0 / -18
F25T12	3	120	60	0.5 A	0.70	1.17	99	1.4	10	0.0 / -18
F25T12	3	277	59	0.22 A	0.70	1.19	96	1.4	10	0.0 / -18
F17T8	2	120	32	0.27 A	0.87	NaN	99	1.4	10	-22.0 / -30
F17T8	2	277	32	0.13 A	0.87	NaN	91	1.4	10	-22.0 / -30
F17T8	3	120	41	0.34 A	0.78	1.90	99	1.4	10	-22.0 / -30
F17T8	3	277	41	0.16 A	0.78	1.90	93	1.4	10	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

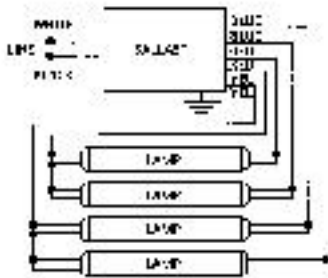


GE
Lighting

78625 - GE432MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	4 or 3- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency Multivolt Instant Start
Starting Method	Instant start
Lamp Wiring	Parallel
Line Voltage Regulation (+/-)	10 %
Case Temperature	70 °C(158 °F)
Ballast Factor	Low (.77)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	78625
Description	GE432MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168786253
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168786256

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.1 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Yellow	2	Left	39.0 (991mm)
White	1	Left	25.0 (635mm)
Red	2	Right	31.0 (787mm)
Blue	2	Right	31.0 (787mm)
Black	1	Left	25.0 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
--------------------------	-------------

SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHS Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)	Crest Factor THD% (<=)	Min. Starting Temp (°F/°C)	
FE15T8	3	120	37	0.31 A	0.76	2.05	99	1.4	10	0.0 / -18
FE15T8	3	277	37	0.15 A	0.76	2.05	91	1.4	10	0.0 / -18
FE15T8	4	120	44	0.37 A	0.70	1.59	99	1.4	10	0.0 / -18
FE15T8	4	277	44	0.17 A	0.70	1.59	94	1.4	10	0.0 / -18
F32T8/WM	3	120	76	0.64 A	0.83	1.09	99	1.4	10	50.0 / 10
F32T8/WM	3	277	75	0.28 A	0.83	1.11	97	1.4	10	50.0 / 10
F32T8/WM	4	120	92	0.78 A	0.77	0.84	99	1.4	10	50.0 / 10
F32T8/WM	4	277	91	0.34 A	0.77	0.85	98	1.4	10	50.0 / 10
F32T8/25W	3	120	61		0.81	1.33	99	1.4	10	60.0 / 16
F32T8/25W	3	277	60		0.81	1.35	97	1.4	10	60.0 / 16
F32T8/25W	4	120	77		0.77	1.00	99	1.4	10	60.0 / 16

F32T8/25W	4	277	75		0.77	1.03	98	1.4	10	60.0 / 16
F32T8	3	120	79	0.67 A	0.88	1.11	99	1.4	10	-22.0 / -30
F32T8	3	277	78	0.29 A	0.88	1.13	98	1.4	10	-22.0 / -30
F32T8	4	120	97	0.82 A	0.77	0.79	99	1.4	10	-22.0 / -30
F32T8	4	277	95	0.35 A	0.77	0.81	98	1.4	10	-22.0 / -30
F28T8	3	120	71	0.59 A	0.81	1.14	99	1.4	10	50.0 / 10
F28T8	3	277	70	0.26 A	0.81	1.16	97	1.4	10	50.0 / 10
F28T8	4	120	86	0.72 A	0.77	0.90	99	1.4	10	50.0 / 10
F28T8	4	277	84	0.31 A	0.77	0.92	98	1.4	10	50.0 / 10
F25T8	3	120	65	0.54 A	0.83	1.28	99	1.4	10	-22.0 / -30
F25T8	3	277	64	0.24 A	0.83	NaN	97	1.4	10	-22.0 / -30
F25T8	4	120	77	0.65 A	0.76	0.99	99	1.4	10	-22.0 / -30
F25T8	4	277	81	0.31 A	0.76	0.94	97	1.4	10	-22.0 / -30
F25T12	3	120	66	0.55 A	0.76	1.15	99	1.4	10	0.0 / -18
F25T12	3	277	65	0.25 A	0.76	1.17	97	1.4	10	0.0 / -18
F25T12	4	120	79	0.66 A	0.70	0.89	99	1.4	10	0.0 / -18
F25T12	4	277	78	0.29 A	0.70	0.90	97	1.4	10	0.0 / -18
F17T8	3	120	46	0.39 A	0.87	1.89	99	1.4	10	-22.0 / -30
F17T8	3	277	46	0.18 A	0.87	1.89	95	1.4	10	-22.0 / -30
F17T8	4	120	54	0.45 A	0.81	NaN	99	1.4	10	-22.0 / -30
F17T8	4	277	54	0.21 A	0.81	NaN	96	1.4	10	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

GE Consumer & Industrial
Lighting

T5 covRguard® High Output Starcoat® Ecolux®

New GE T5 HO covRguard® Fluorescent Lamps Offer
Exceptional Performance and Versatility, Combined With
Superior Shatter Protection – All From the Industry Leader.

Food and Customer Security.

GE's 10 mil thick FEP covRguard shield offers outstanding shatter resistance that helps contain glass fragments and phosphors if a lamp is broken, protecting your food, your customers, and your business' reputation. All CVG lamps meet FDA, USDA, and OSHA guidelines as well as being NSF certified for use in food service areas.

T5 High Output:

Reduce energy cost by up to \$132.00 per fixture. A 4-lamp 54 watt T-5 system with covRguard can replace a 250-watt HPS system for significant energy savings and even more light

Ideally suited for indirect luminaires and uplighting or as replacement for HID fixtures in warehouse or high bay applications.

Designed for T5 High Output:

Starcoat® T5 HO covRguard® lamps were designed to meet the rigorous demand of high temperature T5 HO operation. The exclusive GE covRguard shield is designed not to crack, peel, or become brittle over the life of the T5 HO lamp and can withstand temperatures up to 300F. You can rest assured that the T5 HO CVG lamps will keep your operation clean, bright and protected over it's rated life.

Environmental Considerations:

All-new GE covRguard Ecolux® T5 lamps comply with U.S. EPA guidelines and meet all TCLP-compliance regulations. The GE covRguard Shield is also easily removable for quick recycling. Check with your state for additional disposal guidelines.

Full Line of Lamps Available

GE's extensive line of CVG lamps includes a wide variety of quality lighting products including CVG T8 ECOLUX® as well as the just introduced T8 and T12 Mod-U-Line® family of CVG lamps.



Benefits of T5 in High Bay Applications:

Energy Savings-up to \$132.00 Per Fixture

Great Lumen Maintenance (95%)

Superb Color Consistency and CRI (85)

No Restrike or Warm-up Delays

Use With Energy-Saving Controls Like
Occupancy Sensors and Dimmers

No End of Life Cycling

Full Range of Color Temperatures

Reduced Disposal Costs With
TCLP-Compliant Ecolux®



imagination at work

covRguard® T5 High Output Lamp Specifications

Performance Data

CVG Product Code	Description	Bulb	Watts	Initial Lumens	Mean Lumens	CRI	Life	Color Temp	Case Quantity
48433	F54T5/830/HO/ECO/COV	T5	54	4850	4560	85	20,000	3000K	40
48436	F54T5/835/HO/ECO/COV	T5	54	4850	4560	85	20,000	3500K	40
48458	F54T5/841/HO/ECO/COV	T5	54	4850	4560	85	20,000	4100K	40
80311	F54T5/850/HO/ECO/COV	T5	54	4850	4560	85	20,000	5000K	40
48469	F54T5/865/HO/ECO/COV	T5	54	4850	4560	85	20,000	6500K	40

Physical, Electrical and Photometric Characteristics

Base Type	G5 Min BiPin	Nominal Lamp Operating Current (mA)	460
Max Base Face to Base Face (A) Inches	45.236	Nominal Lamp Operating Frequency (kHz)	>20
Max Face to End of opposing Pin (B) Inches	45.515	Minimum Starting Temperature (deg C)	-20
Min Face to End of opposing Pin (B) Inches	45.421	Dimmable	Yes
Max Pin to Pin (C) Inches	45.800	Rated Life (hrs) 3 hr Cycle - RS Ballast	20,000
Max Bulb Diameter (D)	0.669	Rated Life (hrs) 3 hr Cycle - IS Ballast	16,000
Nominal Lamp Watts	54	TCLP Compliant	Yes
Nominal Lamp Volts	117		

Spectral Power Distribution

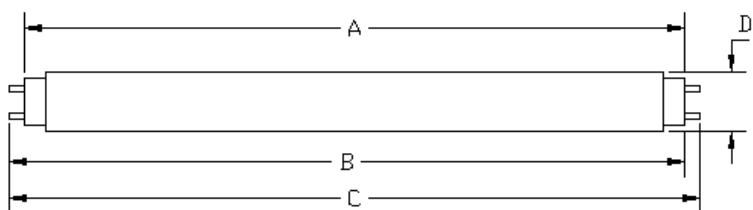
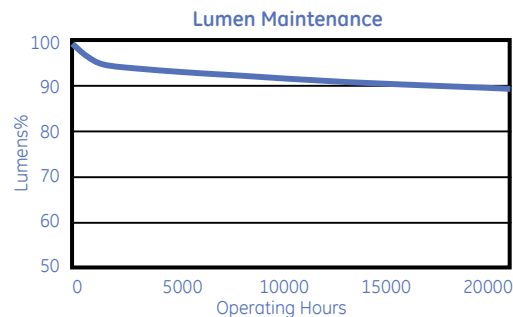
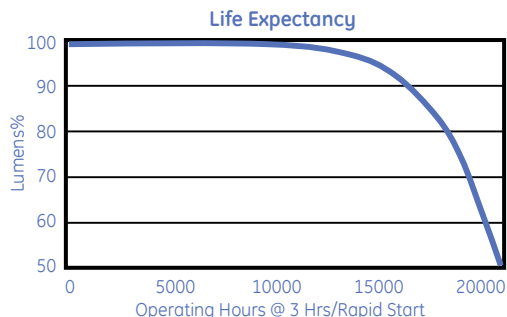
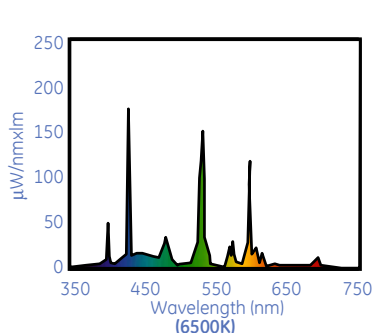
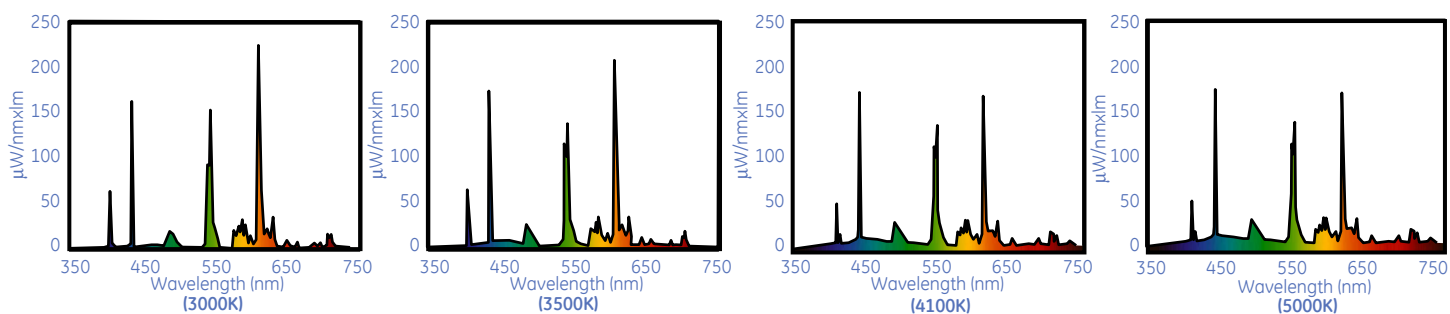


Exhibit 1

Customer Legal Entity Name: Evergreen Local School District

Site Address: Evergreen Local School Campus

Principal Address: 14544 County Road 6

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	EVERGREEN LIGHTNG RETROFIT	THE LINEAR FLUORESCENT LIGHTNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGITNG SYSTEMS CONSISTING OF 25 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. METAL HALIDE FIXTURES WERE REPLACED WITH T5 HO FLUORESCENT FIXTURES	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	WE WOULD HAVE REPLACED THE LAMPS AND BALLASTS IN EACH FIXTURE AS THEY FAILED. THIS IS COMMON PRACTICE FOR THE MAINTENANCE OF LIGHTING IN A SCHOOL FACILITY. THE ONLY FULL RETROFIT WE WOULD HAVE PERFORMED WOULD HAVE BEEN AREAS UNDERGOING OTHER UPGRADES NO SUCH UPGRADES WERE OR ARE PLANNED FOR THIS FACILITY.	N/A
2	Evergreen LED lighting Retrofit	Replaced parking lot pole light High Pressure Sodium fixture heads with new LED fixture heads	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	WE WOULD HAVE REPLACED THE LAMPS AND BALLASTS IN EACH FIXTURE AS THEY FAILED. THIS IS COMMON PRACTICE FOR THE MAINTENANCE OF LIGHTING IN A SCHOOL FACILITY. THE ONLY FULL RETROFIT WE WOULD HAVE PERFORMED WOULD HAVE BEEN AREAS UNDERGOING OTHER UPGRADES NO SUCH UPGRADES WERE OR ARE PLANNED FOR THIS FACILITY.	N/A

Docket No. 13-0991

Site: 14544 County Road 6

Exhibit 2

Customer Legal Entity Name: Evergreen Local School District
Site: Evergreen Local School Campus
Principal Address: 14544 County Road 6

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C)	Note 1
2012	2,661,237	2,661,237	2,903,878	
2011	2,634,888	2,634,888	2,878,431	
2010	2,608,800	2,608,800	2,642,165	
Average	2,634,975	2,634,975	2,808,158	

Project Number	Project Name	In-Service Date	Project Cost \$	KWh Saved/Year Counting towards Utility compliance	KWh Saved/Year (D) eligible for incentive	Utility Peak Demand Reduction Contribution, KW	Commitment Payment \$
1	EVERGREEN LIGHTING RETROFIT	11/18/2010	\$163,703	156,680	156,680	-	
2	Evergreen LED lighting Retrofit	11/01/2010	\$121,445	86,626	86,626	-	
				-	-	-	
				-	-	-	
				-	-	-	
				-	-	-	
				-	-	-	
Total				243,306	243,306	0	\$0

Docket No. 13-0991

Site: 14544 County Road 6

Savings as percent of usage 8.7% Note 2

= Total (D) divided by Average (C)

Customer Eligible Exemption Period: 84 Month(s) Note 3

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) Savings as a percent of usage is equal to the of total project savings (D) divided by the 3 year average Weather Adjusted Usage with Energy Efficiency Addbacks (C).

(3) Customer exemption determined by savings percentage in relation to energy efficiency schedule as set forth in O.R.C. 4928.66(A)(1)(a).

(4) The exemption period reflects the maximum potential exemption period. NOTE: The FirstEnergy Utilities cannot guarantee the length of the exemption period that will ultimately be approved by the Commission.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	157	\$ 308	\$ 48,301	\$ 2,025		\$1,567	\$ 3,592	13.4
2	87	\$ 308	\$ 26,705	\$ 2,025		\$866	\$ 2,891	9.24
Total	243	\$ 308	75,006	4,050	\$0	\$2,433	6,483	11.6

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) = (C) / (G)

Evergreen Local School District ~ Evergreen Local School Campus
Docket No. 13-0991

Site: 14544 County Road 6

[illegible]

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	86,626
Total Change in Connected Load	22.60

Annual Estimated Cost Savings	\$8,662.60
Annual Operating Hours	3,833

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$4,331.30
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$4,331.30
----------------------------	------------

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	80
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	0.00
--	------

Lighting Inventory Form

Applicant Name:	Evergreen Local School District
Facility Name:	High School / Middle School
Date:	12/15/2011

Lubbock Zone (asterisk not bill)

Instructions: Please use one line for each fixture type in a room or area.

For existing or proposed control, choose OCC for Occupancy Sensor, DAY for photosensor, H-Ls for hi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

[illegible]

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	156,680
Total Change in Connected Load	58.32

Annual Estimated Cost Savings	\$15,668.00
Annual Operating Hours	2,286

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$7,834.00
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$7,834.00
----------------------------	------------

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	1669
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	44.55
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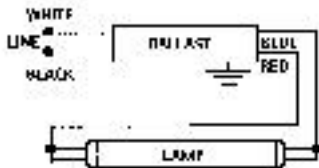


GE
Lighting

72258 - GE132MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Active Current Regulation regulates the output to each lamp with individual lamp inverter modules.
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	1- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency
	Multivolt Instant Start
Starting Method	Instant start
Lamp Wiring	Parallel
Line Voltage Regulation (+/-)	10 %
Case Temperature	70 °C(158 °F)
Ballast Factor	Low (.77)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	72258
Description	GE132MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168722589
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168722582

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.4 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left	25 (635mm)
Blue	1	Right	31 (787mm)
Red	1	Right	45 (1143mm)
White	1	Left	25 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
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SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHs Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)(<=)	Crest Factor	THD% (<=)	Min. Starting Temp (°F/°C)
FE15T8	1	120	11	0.09 A	0.77	7.00	99	1 1/2	11	0.0 / -18
FE15T8	1	277	11	0.05 A	0.77	7.00	77	1 1/2	21	0.0 / -18
F32T8/WM	1	120	24	0.2 A	0.78	NaN	99	1 1/2	6	60.0 / 16
F32T8/WM	1	277	24	0.09 A	0.78	NaN	95	1 1/2	9	60.0 / 16
F32T8/25W	1	120	21	0.0 A	0.77	3.67	99	1 1/2	10	60.0 / 16
F32T8/25W	1	277	21	0.0 A	0.77	3.67	97	1 1/2	10	60.0 / 16
F32T8	1	120	25	0.21 A	0.77	3.08	99	1 1/2	6	-22.0 / -30
F32T8	1	277	25	0.09 A	0.77	3.08	96	1 1/2	9	-22.0 / -30
F28T8	1	120	20	0.08 A	0.78	3.90	93	1 1/2	11	60.0 / 16
F28T8	1	277	22	0.09 A	0.78	3.55	94	1 1/2	10	60.0 / 16
F25T8	1	120	20	0.17 A	0.81	4.05	99	1 1/2	7	-22.0 / -30
F25T8	1	277	20	0.08 A	0.81	4.05	93	1 1/2	11	-22.0 / -30
F25T12	1	120	21	0.18 A	0.80	3.81	99	1 1/2	7	0.0 / -18

F25T12	1	277	21	0.08 A	0.80	3.81	94	1 1/2	10	0.0 / -18
F17T8	1	120	14	0.12 A	0.79	5.64	99	1 1/2	9	-22.0 / -30
F17T8	1	277	14	0.06 A	0.79	5.64	88	1 1/2	13	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

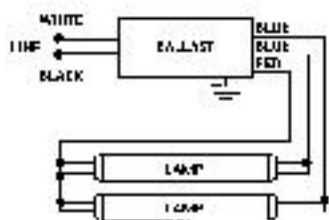
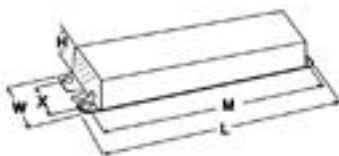


GE
Lighting

72262 - GE232MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Active Current Regulation regulates the output to each lamp with individual lamp inverter modules.
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	2 or 1- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency
Starting Method	Multivolt Instant Start
Lamp Wiring	Instant start
Line Voltage Regulation (+/-)	Parallel
Case Temperature	10 %
Ballast Factor	70 °C(158 °F)
Power Factor Correction	Low (.77)
Sound Rating	Active
Additional Info	A (20-24 decibels)
	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	72262
Description	GE232MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168722626
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168722629

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.4 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left	25 (635mm)
Blue	2	Right	31 (787mm)
Red	1	Right	45 (1143mm)
White	1	Left	25 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
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SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- NRCAN
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHS Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)(<=)	Crest Factor	THD% (<=)	Min. Starting Temp (°F/°C)
FE15T8	1	120	14	0.12 A	0.78	5.57	99	1 1/2	12	0.0 / -18
FE15T8	1	277	15	0.07 A	0.78	5.20	73	1 1/2	40	0.0 / -18
FE15T8	2	120	21	0.18 A	0.78	3.71	99	1 1/2	9	0.0 / -18
FE15T8	2	277	22	0.09 A	0.78	3.55	93	1 1/2	13	0.0 / -18
F32T8/WM	1	120	27	0.23 A	0.78	2.89	99	1 1/2	8	60.0 / 16
F32T8/WM	1	277	27	0.1 A	0.78	2.89	95	1 1/2	12	60.0 / 16
F32T8/WM	2	120	47	0.39 A	0.78	1.66	99	1 1/2	5	60.0 / 16
F32T8/WM	2	277	46	0.17 A	0.78	1.70	98	1 1/2	9	60.0 / 16
F32T8/25W	1	120	22	0.0 A	0.77	NaN	99	1 1/2	10	60.0 / 16
F32T8/25W	1	277	22	0.0 A	0.77	NaN	97	1 1/2	10	60.0 / 16
F32T8/25W	2	120	38	0.0 A	0.77	2.03	99	1 1/2	10	60.0 / 16
F32T8/25W	2	277	38	0.0 A	0.77	2.03	98	1 1/2	10	60.0 / 16

For additional information, visit www.gelighting.com

F32T8	1	120	28	0.23 A	0.77	NaN	99	1 1/2	8	-22.0 / -30
F32T8	1	277	28	0.11 A	0.77	NaN	95	1 1/2	12	-22.0 / -30
F32T8	2	120	49	0.42 A	0.77	1.57	99	1 1/2	5	-22.0 / -30
F32T8	2	277	48	0.18 A	0.77	1.60	98	1 1/2	8	-22.0 / -30
F28T8	1	120	25	0.21 A	0.77	3.08	99	1 1/2	8	60.0 / 16
F28T8	1	277	25	0.1 A	0.77	3.08	94	1 1/2	13	60.0 / 16
F28T8	2	120	43	0.36 A	0.77	1.79	99	1 1/2	6	60.0 / 16
F28T8	2	277	43	0.16 A	0.77	1.79	98	1 1/2	9	60.0 / 16
F25T8	1	120	23	0.19 A	0.80	3.48	99	1 1/2	9	-22.0 / -30
F25T8	1	277	23	0.09 A	0.80	3.48	93	1 1/2	13	-22.0 / -30
F25T8	2	120	39	0.33 A	0.80	2.05	99	1 1/2	6	-22.0 / -30
F25T8	2	277	39	0.14 A	0.80	2.05	97	1 1/2	10	-22.0 / -30
F25T12	1	120	24	0.2 A	0.80	3.33	99	1 1/2	9	0.0 / -18
F25T12	1	277	24	0.09 A	0.80	3.33	94	1 1/2	13	0.0 / -18
F25T12	2	120	41	0.35 A	0.80	1.95	99	1 1/2	6	0.0 / -18
F25T12	2	277	41	0.15 A	0.80	1.95	98	1 1/2	9	0.0 / -18
F17T8	1	120	17	0.14 A	0.79	4.65	99	1 1/2	11	-22.0 / -30
F17T8	1	277	17	0.08 A	0.79	4.65	80	1 1/2	36	-22.0 / -30
F17T8	2	120	27	0.23 A	0.79	2.93	99	1 1/2	8	-22.0 / -30
F17T8	2	277	27	0.1 A	0.79	2.93	95	1 1/2	12	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

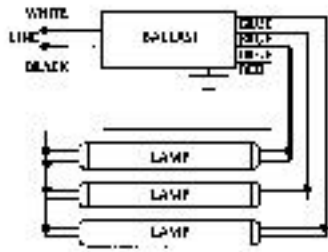
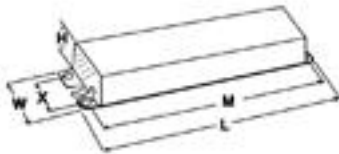


GE
Lighting

78621 - GE332MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	3 or 2- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency
	Multivolt Instant Start
Starting Method	Instant start
Lamp Wiring	Parallel
Line Voltage Regulation (+/-)	10 %
Ambient Temperature (MAX)	40 °C(4 °C)
Case Temperature	70 °C(158 °F)
Ballast Factor	Low (.77)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	78621
Description	GE332MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168786215
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168786218

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.1 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left	25.0 (635mm)
Blue	3	Right	31.0 (787mm)
Red	1	Left	37.0 (940mm)
White	1	Left	25.0 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
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SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHS Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)(<=)	Crest Factor THD% (<=)	Min. Starting Temp (°F/°C)	
FE15T8	2	120	27	0.23 A	0.77	2.85	99	1.4	10	0.0 / -18
FE15T8	2	277	27	0.11 A	0.77	2.85	88	1.4	10	0.0 / -18
FE15T8	3	120	33	0.28 A	0.70	2.12	99	1.4	10	0.0 / -18
FE15T8	3	277	33	0.13 A	0.70	2.12	91	1.4	10	0.0 / -18
F32T8/WM	2	120	53	0.44 A	0.87	1.64	99	1.4	10	50.0 / 10
F32T8/WM	2	277	53	0.2 A	0.87	1.64	95	1.4	12	50.0 / 10
F32T8/WM	3	120	69	0.58 A	0.77	1.12	99	1.4	10	50.0 / 10
F32T8/WM	3	277	68	0.25 A	0.77	1.13	97	1.4	10	50.0 / 10
F32T8/25W	2	120	44		0.84	1.91	99	1.4	10	60.0 / 16
F32T8/25W	2	277	44		0.84	1.91	97	1.4	10	60.0 / 16
F32T8/25W	3	120	58		0.77	1.33	99	1.4	10	60.0 / 16

F32T8/25W	3	277	57		0.77	1.35	98	1.4	10	60.0 / 16
F32T8	2	120	56	0.47 A	0.89	1.59	99	1.4	10	-22.0 / -30
F32T8	2	277	55	0.21 A	0.89	1.62	96	1.4	10	-22.0 / -30
F32T8	3	120	72	0.6 A	0.77	1.07	99	1.4	10	-22.0 / -30
F32T8	3	277	71	0.26 A	0.77	1.08	97	1.4	10	-22.0 / -30
F28T8	2	120	49	0.4 A	0.84	1.71	99	1.4	10	50.0 / 10
F28T8	2	277	49	0.19 A	0.84	1.71	95	1.4	10	50.0 / 10
F28T8	3	120	64	0.54 A	0.77	NaN	99	1.4	10	50.0 / 10
F28T8	3	277	63	0.24 A	0.77	1.22	97	1.4	10	50.0 / 10
F25T8	2	120	45	0.38 A	0.86	1.91	99	1.4	10	-22.0 / -30
F25T8	2	277	44	0.17 A	0.86	1.95	94	1.4	14	-22.0 / -30
F25T8	3	120	57	0.48 A	0.77	1.35	99	1.4	10	-22.0 / -30
F25T8	3	277	57	0.22 A	0.77	1.35	96	1.4	10	-22.0 / -30
F25T12	2	120	47	0.39 A	0.80	1.70	99	1.4	10	0.0 / -18
F25T12	2	277	47	0.18 A	0.80	1.70	95	1.4	10	0.0 / -18
F25T12	3	120	60	0.5 A	0.70	1.17	99	1.4	10	0.0 / -18
F25T12	3	277	59	0.22 A	0.70	1.19	96	1.4	10	0.0 / -18
F17T8	2	120	32	0.27 A	0.87	NaN	99	1.4	10	-22.0 / -30
F17T8	2	277	32	0.13 A	0.87	NaN	91	1.4	10	-22.0 / -30
F17T8	3	120	41	0.34 A	0.78	1.90	99	1.4	10	-22.0 / -30
F17T8	3	277	41	0.16 A	0.78	1.90	93	1.4	10	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

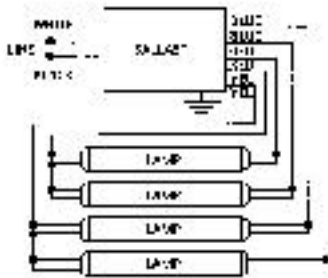


GE
Lighting

78625 - GE432MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivolt Instant Start Ballast

- Energy saving high efficiency instant start electronic ballast (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Cold temperature -20F Minimum Starting Temperature



GENERAL CHARACTERISTICS

Application	4 or 3- F32T8 120 to 277 "L".77 BF
Category	Linear Fluorescent
Ballast Type	Electronic - High Efficiency Multivolt Instant Start
Starting Method	Instant start
Lamp Wiring	Parallel
Line Voltage Regulation (+/-)	10 %
Case Temperature	70 °C(158 °F)
Ballast Factor	Low (.77)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striation control/Auto-restart/Thermally protected

PRODUCT INFORMATION

Product Code	78625
Description	GE432MAX-L/ULTRA
Standard Package	Case
Standard Package GTIN	10043168786253
Standard Package Quantity	10
Sales Unit	Standard Pack
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168786256

DIMENSIONS

Case dimensions			
Length (L)		9.5 in(241.30 mm)	
Width (W)		1.3 in(33.02 mm)	
Height (H)		1.2 in(30.48 mm)	
Mounting dimensions			
Mount Length (M)		9.0 in(228.60 mm)	
Mount Width (X or F)		0.9 in(22.10 mm)	
Mount Slots (MS)		0.3 in(8.20 mm)	
Weight		1.1 lb	
Exit Type		Side	
Remote Mounting Distance to Lamp		18 ft	
Remote Mounting Wire Gauge		18 AWG	
Lead lengths	Qty	Exit	Length (± 1 in.)
Yellow	2	Left	39.0 (991mm)
White	1	Left	25.0 (635mm)
Red	2	Right	31.0 (787mm)
Blue	2	Right	31.0 (787mm)
Black	1	Left	25.0 (635mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50 Hz/60 Hz
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SAFETY & PERFORMANCE

- cUL Listed
- FCC - CLASS A Non-Consumer
- UL Class P
- UL Listed
- UL Type 1 Outdoor
- UL Type CC
- UL Type HL
- RoHS Compliant
- NEMA Premium®

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)	Crest Factor THD% (<=)	Min. Starting Temp (°F/°C)
FE15T8	3	120	37	0.31 A	0.76	2.05	99	1.4	10
FE15T8	3	277	37	0.15 A	0.76	2.05	91	1.4	10
FE15T8	4	120	44	0.37 A	0.70	1.59	99	1.4	10
FE15T8	4	277	44	0.17 A	0.70	1.59	94	1.4	10
F32T8/WM	3	120	76	0.64 A	0.83	1.09	99	1.4	10
F32T8/WM	3	277	75	0.28 A	0.83	1.11	97	1.4	10
F32T8/WM	4	120	92	0.78 A	0.77	0.84	99	1.4	10
F32T8/WM	4	277	91	0.34 A	0.77	0.85	98	1.4	10
F32T8/25W	3	120	61		0.81	1.33	99	1.4	10
F32T8/25W	3	277	60		0.81	1.35	97	1.4	10
F32T8/25W	4	120	77		0.77	1.00	99	1.4	10

F32T8/25W	4	277	75		0.77	1.03	98	1.4	10	60.0 / 16
F32T8	3	120	79	0.67 A	0.88	1.11	99	1.4	10	-22.0 / -30
F32T8	3	277	78	0.29 A	0.88	1.13	98	1.4	10	-22.0 / -30
F32T8	4	120	97	0.82 A	0.77	0.79	99	1.4	10	-22.0 / -30
F32T8	4	277	95	0.35 A	0.77	0.81	98	1.4	10	-22.0 / -30
F28T8	3	120	71	0.59 A	0.81	1.14	99	1.4	10	50.0 / 10
F28T8	3	277	70	0.26 A	0.81	1.16	97	1.4	10	50.0 / 10
F28T8	4	120	86	0.72 A	0.77	0.90	99	1.4	10	50.0 / 10
F28T8	4	277	84	0.31 A	0.77	0.92	98	1.4	10	50.0 / 10
F25T8	3	120	65	0.54 A	0.83	1.28	99	1.4	10	-22.0 / -30
F25T8	3	277	64	0.24 A	0.83	NaN	97	1.4	10	-22.0 / -30
F25T8	4	120	77	0.65 A	0.76	0.99	99	1.4	10	-22.0 / -30
F25T8	4	277	81	0.31 A	0.76	0.94	97	1.4	10	-22.0 / -30
F25T12	3	120	66	0.55 A	0.76	1.15	99	1.4	10	0.0 / -18
F25T12	3	277	65	0.25 A	0.76	1.17	97	1.4	10	0.0 / -18
F25T12	4	120	79	0.66 A	0.70	0.89	99	1.4	10	0.0 / -18
F25T12	4	277	78	0.29 A	0.70	0.90	97	1.4	10	0.0 / -18
F17T8	3	120	46	0.39 A	0.87	1.89	99	1.4	10	-22.0 / -30
F17T8	3	277	46	0.18 A	0.87	1.89	95	1.4	10	-22.0 / -30
F17T8	4	120	54	0.45 A	0.81	NaN	99	1.4	10	-22.0 / -30
F17T8	4	277	54	0.21 A	0.81	NaN	96	1.4	10	-22.0 / -30

CAUTIONS & WARNINGS

Warning

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

GE Consumer & Industrial
Lighting

T5 covRguard® High Output Starcoat® Ecolux®

New GE T5 HO covRguard® Fluorescent Lamps Offer
Exceptional Performance and Versatility, Combined With
Superior Shatter Protection – All From the Industry Leader.

Food and Customer Security.

GE's 10 mil thick FEP covRguard shield offers outstanding shatter resistance that helps contain glass fragments and phosphors if a lamp is broken, protecting your food, your customers, and your business' reputation. All CVG lamps meet FDA, USDA, and OSHA guidelines as well as being NSF certified for use in food service areas.

T5 High Output:

Reduce energy cost by up to \$132.00 per fixture. A 4-lamp 54 watt T-5 system with covRguard can replace a 250-watt HPS system for significant energy savings and even more light

Ideally suited for indirect luminaires and uplighting or as replacement for HID fixtures in warehouse or high bay applications.

Designed for T5 High Output:

Starcoat® T5 HO covRguard® lamps were designed to meet the rigorous demand of high temperature T5 HO operation. The exclusive GE covRguard shield is designed not to crack, peel, or become brittle over the life of the T5 HO lamp and can withstand temperatures up to 300F. You can rest assured that the T5 HO CVG lamps will keep your operation clean, bright and protected over it's rated life.

Environmental Considerations:

All-new GE covRguard Ecolux® T5 lamps comply with U.S. EPA guidelines and meet all TCLP-compliance regulations. The GE covRguard Shield is also easily removable for quick recycling. Check with your state for additional disposal guidelines.

Full Line of Lamps Available

GE's extensive line of CVG lamps includes a wide variety of quality lighting products including CVG T8 ECOLUX® as well as the just introduced T8 and T12 Mod-U-Line® family of CVG lamps.



Benefits of T5 in High Bay Applications:

Energy Savings-up to \$132.00 Per Fixture

Great Lumen Maintenance (95%)

Superb Color Consistency and CRI (85)

No Restrike or Warm-up Delays

Use With Energy-Saving Controls Like
Occupancy Sensors and Dimmers

No End of Life Cycling

Full Range of Color Temperatures

Reduced Disposal Costs With
TCLP-Compliant Ecolux®



imagination at work

covRguard® T5 High Output Lamp Specifications

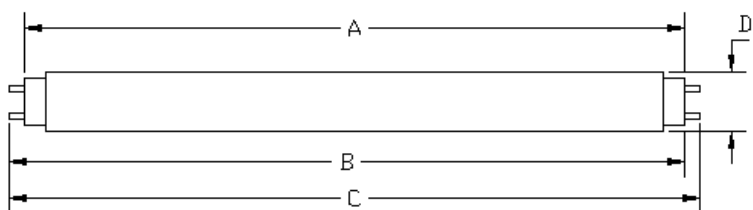
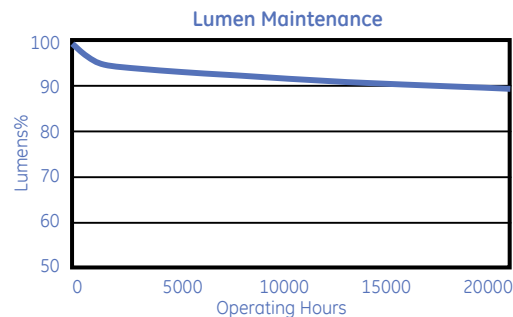
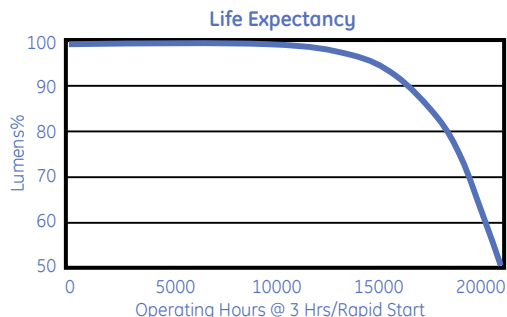
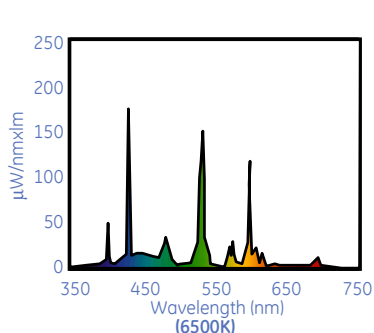
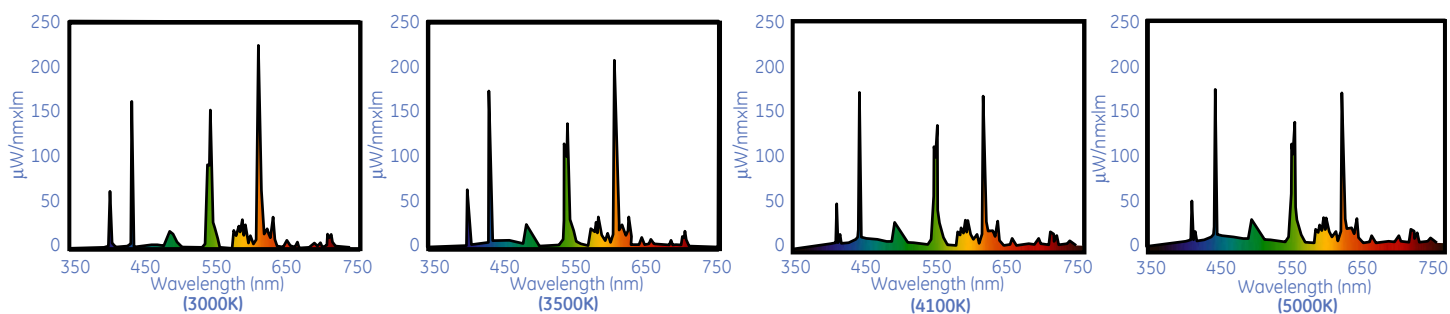
Performance Data

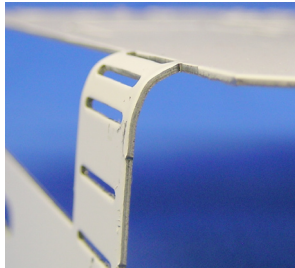
CVG Product Code	Description	Bulb	Watts	Initial Lumens	Mean Lumens	CRI	Life	Color Temp	Case Quantity
48433	F54T5/830/HO/ECO/COV	T5	54	4850	4560	85	20,000	3000K	40
48436	F54T5/835/HO/ECO/COV	T5	54	4850	4560	85	20,000	3500K	40
48458	F54T5/841/HO/ECO/COV	T5	54	4850	4560	85	20,000	4100K	40
80311	F54T5/850/HO/ECO/COV	T5	54	4850	4560	85	20,000	5000K	40
48469	F54T5/865/HO/ECO/COV	T5	54	4850	4560	85	20,000	6500K	40

Physical, Electrical and Photometric Characteristics

Base Type	G5 Min BiPin	Nominal Lamp Operating Current (mA)	460
Max Base Face to Base Face (A) Inches	45.236	Nominal Lamp Operating Frequency (kHz)	>20
Max Face to End of opposing Pin (B) Inches	45.515	Minimum Starting Temperature (deg C)	-20
Min Face to End of opposing Pin (B) Inches	45.421	Dimmable	Yes
Max Pin to Pin (C) Inches	45.800	Rated Life (hrs) 3 hr Cycle - RS Ballast	20,000
Max Bulb Diameter (D)	0.669	Rated Life (hrs) 3 hr Cycle - IS Ballast	16,000
Nominal Lamp Watts	54	TCLP Compliant	Yes
Nominal Lamp Volts	117		

Spectral Power Distribution





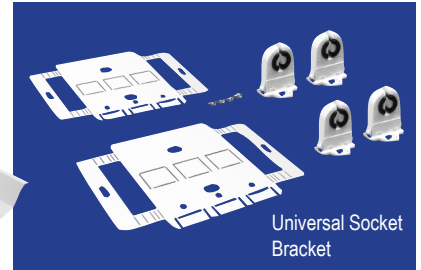
NEW One-piece Socket Bracket

Simply center the socket bracket and bend the sides to fit. 8' kit now only requires 3 socket brackets, new design can be used as end or center brackets.



D17 - White Reflector

X20 - MIRO® Reflector



Universal Socket Bracket

Specifications

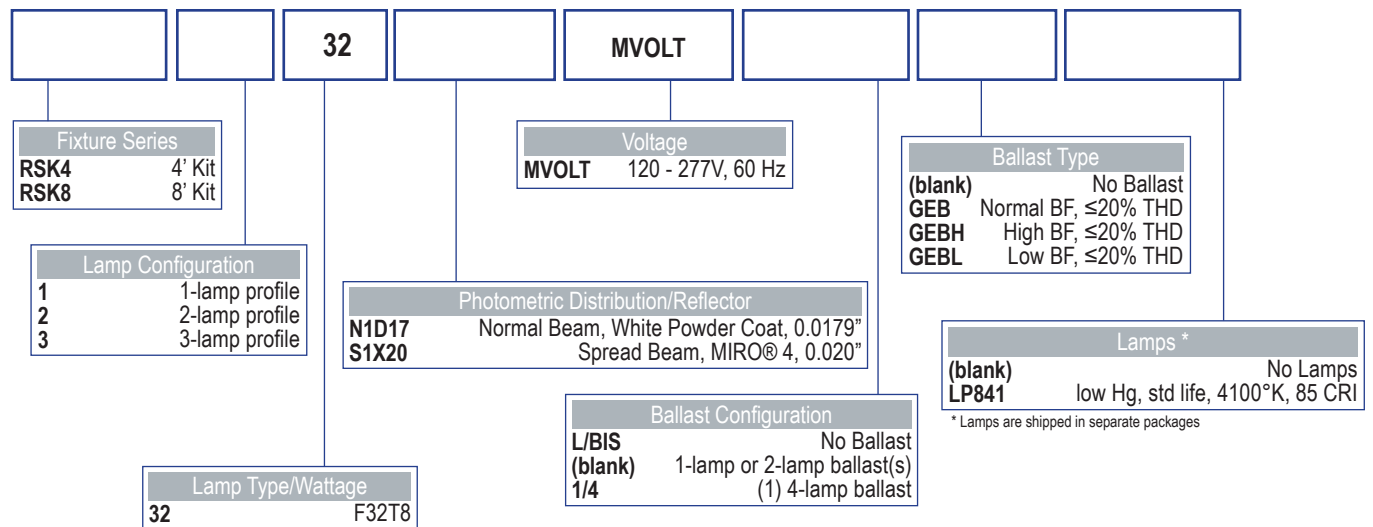
Reflectors - Precision formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum warranted for 25 years. White reflectors have 93+% total reflectance and are finished with an in-house polyester powder coating system.

Mounting - The RSK universal strip retrofit kit mounts easily, requiring only simple hand tools. The process includes removal of the existing ballast cover(s) and removal of the existing socket brackets and ballast. The new channel cover is then attached to the existing strip channel with a universal socket bracket and self-tapping screws. The universal socket bracket can fit channels from 4" to 5 1/4" in width. The RSK strip retrofit kit serves as the ballast cover. Mount and connect new ballast to sockets. Close the ballast cover using captive quarter turns and install lamps.

Electrical - Lamps are secured with rotary locking lamp sockets for ease of relamping and to reduce lamps disconnecting due to vibration or incidental contact. Kit is bi-national listed (UL 1598 and CSA C22.2 No. 250.0-00) and is suitable for damp locations. Lamp socket accepts No. 18 gauge wire, either solid, solder dipped or twisted-tinned or fuse wire.

Approval - UL Listed as luminaire conversion, retrofit.

Catalog Logic



MRSK48T8RR20RK30603

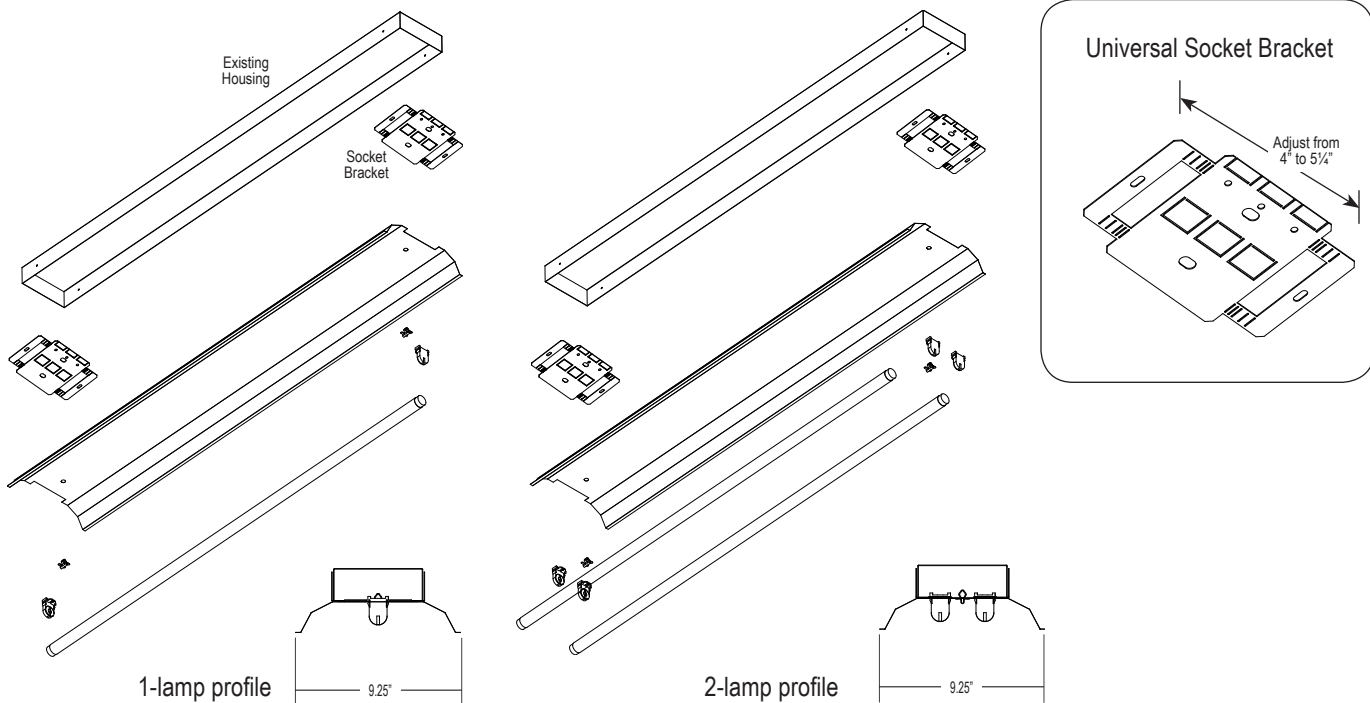




Applications

MetalOptic's RSK strip retrofit kit is designed to provide maximum efficiency lighting for retail, industrial and commercial applications. RSK easily converts existing 4' and 8' strips to enhance light levels. The RSK strip retrofit kit maximizes fixture efficiency and provides uniform light distribution.

Dimensions



Features

The RSK Universal Retrofit Kit is designed for 4' or 8' fluorescent industrial and strip fixtures and installs with simple hand tools. The universal socket bracket is designed for simple fit up to most standard fluorescent channels from 4" to 5 1/4" in width. The Reflector mounts to final wired socket brackets with 2 quarter-turn fasteners for easy maintenance after retrofit is complete. Components are shipped separately in unit packages.

Photometrics

SC Across Definitions:

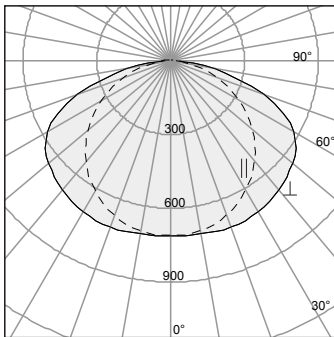
Focus = < 0.9 Spacing Criterion (SC)

Spread = 1.4 to 1.8 Spacing Criterion (SC)

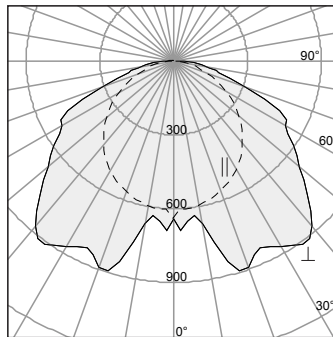
Task = 0.9 to 1.2 Spacing Criterion (SC)

Broad = > 1.8 Spacing Criterion (SC)

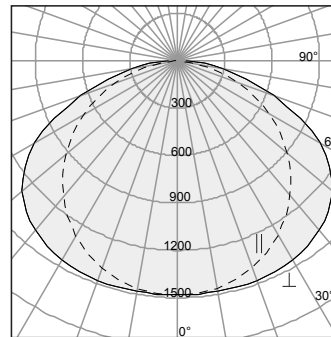
Normal = 1.2 to 1.4 Spacing Criterion



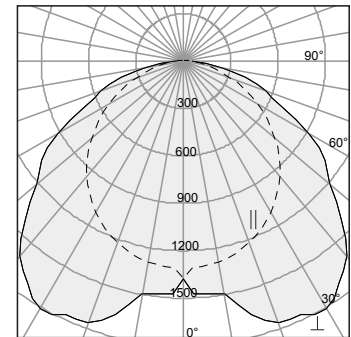
RSK4 1 32 N1D17
Test #ALP200466MR
Fixture Efficiency: 91.2%
SC Across: 1.5, SC Along: 1.3



RSK4 1 32 S1X20
Test #ALP200465MR
Fixture Efficiency: 94.1%
SC Across: 1.8, SC Along: 1.2



RSK4 2 32 N1D17
Test #ALP200463MR
Fixture Efficiency: 89.9%
SC Across: 1.5, SC Along: 1.3



RSK4 2 32 S1X20
Test #ALP200462MR
Fixture Efficiency: 91.6%
SC Across: 1.7, SC Along: 1.2





D-Series Size 1 LED Area Luminaire



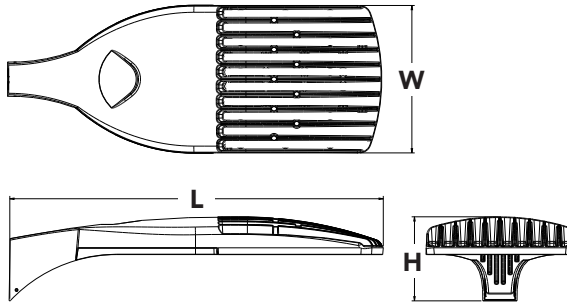
DESIGNLIGHTS
CONSORTIUM



d-series

Specifications

EPA:	1.2 ft ² (0.11 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

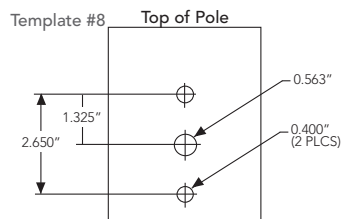
The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 – 400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 2 30B700/40K SR3 MVOLT SPA DDBXD

DSX1 LED							
Series	Light Engines	Performance Package ¹	Distribution	Voltage	Mounting	Options	Finish <i>(required)</i>
DSX1 LED	1 One engine (30 LEDs) 2 Two engines (60 LEDs)	530 mA options: 30B530/30K 3000K 30B530/40K 4000K 30B530/50K 5000K 700 mA options: 30B700/30K 3000K 30B700/40K 4000K 30B700/50K 5000K	SR2 Type II SR3 Type III SR4 Type IV SR5 Type V FT Forward throw	MVOLT ² 120 ² 208 ² 240 ² 277 ² 347 ³ 480 ³	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket	Shipped installed PER NEMA twist-lock receptacle only (no controls) DMG 0-10V dimming driver (no controls) ⁴ DCR Dimmable and controllable via ROAM® (no controls) ⁵ HS House-side shield ⁶ SF Single fuse (120, 277, 347V) ⁷ DF Double fuse (208, 240, 480V) ⁷ WTB Utility terminal block TLS Tool-less entry trigger latch DS Dual switching ^{8,9} PIR Motion sensor, <15' mounting height ¹⁰ PIRH Motion sensor, 15-30' mounting height ¹⁰	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Drilling



DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	DM29AS	2 at 90°
DM28AS	2 at 180°	DM39AS	3 at 90°
DM49AS	4 at 90°	DM32AS	3 at 120° *

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

Tenon Mounting Slipfitter *

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

* For round pole mounting (RPA) only.

NOTES

- Configured with 4000K (/40K) provides the shortest lead times. Consult factory for 3000K (/30K) and 5000K (/50K) lead times.
- MVOLT driver operates on any line voltage from 120-277V (50/60Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Not available with single board, 530 mA product (1 30B530).
- Not available with 347 or 480V.
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
- Also available as a separate accessory; see Accessories information at left.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Provides 50% dimming capability via two independent drivers, each operating half the luminaire. N/A with PER, DCR, DMG or WTB.
- Requires an additional switched line.
- PIR specifies the [SensorSwitch SBR-10-ODP](#) control; PIRH specifies the [SensorSwitch SBR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Dimming driver standard. Not available with DCR or WTB.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Accessories

Ordered and shipped separately.

DSS124N 1.5 TJUE U	Photocell - SSL twist-lock (120-277V) ¹¹
REN277-NM1 U	ROAM® node (277V) ¹¹
SC U	Shorting cap ¹¹
DSX1HS U	House-side shield (one per light engine)
SPA19/MR2 DDBXD U	Square pole DM19 to DM19AS adapter (specify finish)
RPA19/MR2 DDBXD U	Round pole DM19 to DM19AS adapter (specify finish)

For more control options, visit [DTL](#) and [ROAM](#) online.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Light Engines	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 67 CRI)					50K (5000K, 67 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
1 (30 LEDs)	530	30B530/--K	55 W	SR2	4634	1	0	1	84	5056	1	0	1	92
				SR3	4695	1	0	2	85	5123	1	0	2	93
				SR3 HS	3425	0	0	1	61	3737	0	0	1	68
				SR4	4694	1	0	2	85	5122	1	0	2	93
				SR4 HS	3459	0	0	1	62	3774	0	0	2	69
				SR5	4696	3	0	1	85	5124	3	0	1	93
				FT	4694	1	0	1	85	5122	1	0	2	93
				SR2	5679	1	0	1	77	6223	2	0	2	85
				SR3	5835	1	0	2	79	6394	2	0	2	88
	700	30B700/--K	73 W	SR3 HS	4239	0	0	2	58	4645	0	0	2	64
				SR4	5798	1	0	2	79	6354	1	0	2	87
				SR4 HS	4294	0	0	2	58	4706	0	0	2	64
				SR5	5769	3	0	1	79	6322	3	0	2	87
				FT	5820	1	0	2	79	6378	1	0	2	87
				SR2	9109	2	0	2	86	9929	2	0	2	93
				SR3	9257	2	0	2	87	10,010	2	0	3	94
				SR3 HS	6717	0	0	2	64	7302	0	0	2	69
				SR4	9204	2	0	2	87	10,010	2	0	2	94
2 (60 LEDs)	530	30B530/--K	106 W	SR4 HS	6800	0	0	2	64	7446	0	0	2	70
				SR5	9223	4	0	2	87	10,198	4	0	2	96
				FT	9183	2	0	2	87	10,020	2	0	2	95
				SR2	11,170	2	0	2	78	12,312	3	0	3	86
				SR3	11,391	2	0	3	80	12,462	2	0	3	87
				SR3 HS	8285	0	0	2	58	9047	0	0	2	63
				SR4	11,332	2	0	2	79	12,368	2	0	3	86
				SR4 HS	8318	0	0	2	58	9149	0	0	2	64
				SR5	11,723	4	0	2	82	12,455	4	0	2	87
	700	30B700/--K	143 W	FT	11,662	2	0	3	82	12,531	2	0	3	87

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSX1 LED 2 30B700** platform in a **40°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.92	0.87

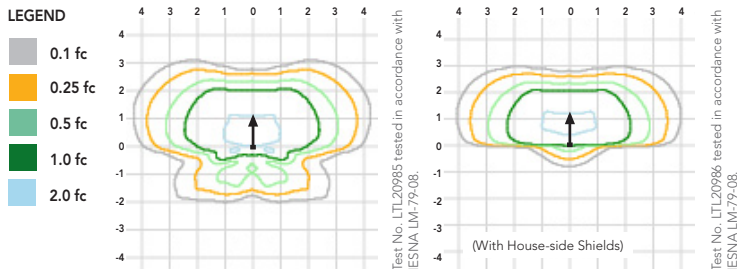
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
1	530	55 W	0.46	0.26	0.23	0.20	0.16	0.11
	700	73 W	0.61	0.35	0.30	0.26	0.21	0.15
2	530	106 W	0.89	0.51	0.44	0.38	0.31	0.22
	700	143 W	1.19	0.69	0.60	0.52	0.41	0.30

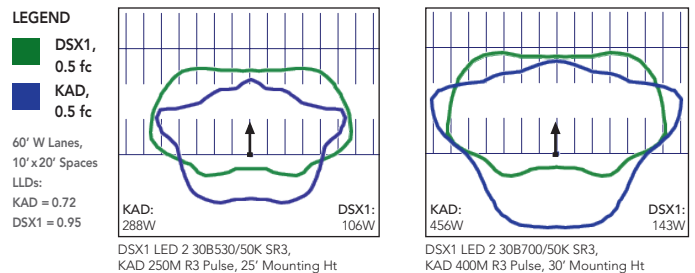
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 2 30B700/50K SR3. Distances are in units of mounting height (20').



Distribution overlay comparisons to 250W and 400W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.2 ft) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000K (67 CRI) or optional 3000K (80 CRI) or 5000K (67 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 30 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. and international patents pending.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.



Mercantile Customer Project Commitment Agreement
Exemption Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Toledo Edison Company, its successors and assigns (hereinafter called the "Company") and Evergreen Local School District, its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined in R.C. § 4928.01(A)(19), doing business within the Company's certified service territory; and

WHEREAS, R.C. § 4928.66 (the "Statute") requires the Company to meet certain annual energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

WHEREAS, when complying with certain EE&PDR benchmarks the Company may include the effects of mercantile customer-sited EE&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit 1 (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency & Peak Demand Reduction Program Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, the Customer, pursuant to and consistent with the Statute, desires to pursue exemption from paying charges included in the Company's then current cost recovery mechanism (hereinafter, "Rider DSE") as approved by the Public Utilities Commission of Ohio ("Commission") for recovery of the DSE2 costs associated with the Company Plan; and is committing the Customer Energy Project(s) as a result of such exemption.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for inclusion in the Company Plan has been reasonably encouraged by the possibility of an exemption; and

WHEREAS, in consideration of, and upon receipt of, said exemption, Customer has consented to committing the Customer Energy Project(s) to the Company and complying with all other terms and conditions set forth herein, including without limitation, the submission of an annual report on the energy savings and/or peak-demand reductions achieved by the Customer Energy Project(s).

NOW THEREFORE, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

1. **Customer Energy Projects.** Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit 1. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer

acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.

- a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements.
 - b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively as applicable, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's exemption benefits discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations, including without limitation any reporting requirements, as set forth herein.
 - c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
 - d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of a joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.
 - e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
2. **Joint Application to the Commission.** The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" in which they will seek the Commission's approval of (i) this Agreement; (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's exemption from paying the DSE2 charge of the Company's Rider DSE.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:

- i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
- ii. A copy of this Agreement; and

- iii. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.

3. Customer Exemption and Annual Report. Upon Commission approval of the request for exemption, the Company will exempt Customer from paying any Rider DSE charges consistent with any Commission directives as set forth in the Commission's Finding and Order approving the Joint Application. Such exempt status shall apply to those accounts identified by Customer that pertain to those Customer sites with one or more Customer Energy Project(s) approved for integration into the Company Plan by the Commission in the Joint Application.

- a. For purposes of this Agreement, a "site" shall be a single location with one or more facilities. As examples only, a site includes an industrial plant, a hospital complex or a university located on one or more parcels of land, provided that said parcels are contiguous.
- b. For purposes of this Agreement, an "account" shall be as defined by the Company through its normal business practices. Any account identified by Customer shall be eligible for exemption, provided that said account pertains to a specific site with at least one Customer Energy Project that qualifies Customer for exemption from paying Rider DSE charges.
- c. Any new accounts created at a site on which there is already an approved Customer Energy Project shall, at the option of the Customer, be included within the exemption granted under said project, and shall be included for purposes of calculating future eligibility for exemption under the project. Any such election shall become effective in the first billing cycle after March 15th following identification of said account in the annual report required under Section 3(d)(iii) below.
- d. Customer acknowledges and agrees that if it desires to pursue such exempt status, as evidenced in the Joint Application, Customer is obligated to provide to the Company an annual report on the energy savings and peak-demand reductions achieved by the Customer Energy Project(s) on a calendar year basis. Company shall provide Customer with such information as it may require, that is in Company's possession, for the purposes of preparing such report. Company shall provide a template for Customer to use in preparing the annual report and shall make available a designated Company representative to answer questions.
 - i. Said report shall be submitted annually on or before January 31 of each year after Commission approval of the Joint Application.
 - ii. Said report shall provide all information required under the Rules, and where the requirements of the Rules conflict with a requirement under this Agreement or the Joint Application, the requirements of the Rules shall control.
 - iii. Said report shall, at a minimum, include the following information for each Customer Energy Project that has been approved by the Commission:
 - 1. A demonstration that the energy savings and peak-demand reductions associated with the Customer Energy Project(s) meet the total resource cost test or that the Company's avoided cost exceeds the cost to the Company for the Customer's program;
 - 2. A statement distinguishing programs implemented before and after January 1 of the current year;

3. A quantification of the energy savings or peak-demand reductions for programs initiated prior to 2009 in the baseline period;
4. A recognition that the Company's baselines have been increased by the amount of mercantile customer energy savings and demand reductions;
5. A listing and description of the Customer Energy Projects that have been implemented, which provides the detail required by the Rules;
6. An accounting of expenditures made by the mercantile customer for each program and its component energy savings and peak-demand reduction attributes; and
7. A timeline showing when each Customer Energy Project went into effect and when the energy savings and peak-demand reductions occurred.
8. Any other information reasonably necessary for the Company to (i) verify Customer's continued eligibility for exemption from paying Rider charges; and (ii) report in the Company's annual status report to the Commission the EE&PDR results related to each Customer Energy Project.

e. Customer's exemption shall automatically terminate:

- i. At the end of the exemption period as determined by the Commission
- ii. Upon order of the Commission or pursuant to any Commission rule;
- iii. If Customer fails to comply with the terms and conditions set forth in the Company's then current Rider DSE, or its equivalent, as amended from time to time by the Commission, within a reasonable period of time after receipt of written notice of such non-compliance;
- iv. If it is discovered that Customer knowingly falsified any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application. In such an instance, Company reserves the right to recover any exempted rider charges from the date of approval of the Joint Application through the date said exemption is terminated; or
- v. If Customer fails to submit the annual report required in (d) above. In such an instance, Company reserves the right to recover any exempted rider charges from the date of approval of the Joint Application through the date said exemption is terminated. It is expressly agreed that this provision shall not apply should said report contain errors, provided that the submission of said report is made in good faith. It is further agreed that the Company will provide written notice of the date on which said report is due at least thirty (30) days prior thereto.

f. Company reserves the right to recover from Customer any Rider DSE charges incurred by Customer after the date Customer's exemption terminates.

3. **Termination of Agreement.** This Agreement shall automatically terminate:

- a. If the Commission fails to approve this Agreement through the Joint Application;

- b. Upon order of the Commission; or
- c. At the end of the life of the last Customer Energy Project subject to this Agreement.

Customer shall also have an option to terminate this Agreement should the Commission not approve the Customer's exemption, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

Customer acknowledges that if a Customer Project is withdrawn pursuant to Paragraph 1(b) of this Agreement, the exemption or a portion of such exemption may be affected. Should Customer elect to withdraw a project pursuant to Paragraph 1(b), Customer shall provide Company with reasonable assistance in preparing any documentation that may be required by the Commission and, upon reasonable request, shall provide documentation supporting the necessity to withdraw such project.

- 4. **Confidentiality.** Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-confidential basis at the time of disclosure.
 - a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys, consultants and agents have been advised of the confidential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.
 - b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.
 - c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.
 - d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
- 5. **Taxes.** Customer shall be responsible for all tax consequences (if any) arising from the application of the exemption.
- 6. **Notices.** Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

If to the Company:

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FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
Attn: Victoria Nofziger
Telephone: 330-384-4684
Fax: 330-761-4281
Email: ymnofziger@firstenergycorp.com

If to the Customer:

Evergreen Local School District
14544 County Road 6
Metamora, OH 43540
Attn: Jim Wyse
Telephone: 419-644-3521
Fax:
Email: jwyse@evgvikings.org

or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received by the recipient if the recipient confirms receipt telephonically or in writing.

7. **Authority to Act.** The Parties represent and warrant that they are represented by counsel in connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.
8. **Non-Waiver.** The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.
9. **Entire Agreement.** This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.
10. **Assignment.** Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.
11. **Severability.** If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.

12. **Governing Law.** This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.
13. **Execution and Counterparts.** This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

The Toledo Edison Company
(Company)

By: *John C. Dargatzis*

Title: VP of Energy Efficiency

Date: 6.25.13

Evergreen Local School District
(Customer)

By: *Jim Wynn*

Title: Superintendent

Date: 4/10/2013

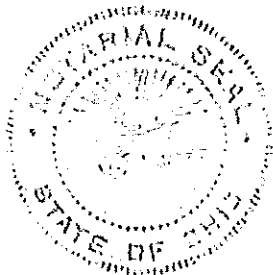
STATE OF OHIO)
COUNTY OF *Julton*) SS:

1. I am the Title of Customer Name ("Customer"). As part of my duties, I oversee energy related matters for the Customer.
2. The Customer has agreed to commit certain energy efficiency projects to Please Select Operating Company ("Company"), which are the subject of the agreement to which this affidavit is attached ("Project(s)").
3. In exchange for making such a commitment, the Company has agreed to provide Customer with a Rider Exemption ("Incentive"). This Incentive was a critical factor in the Customer's decision to go forward with the Project(s) and to commit the Project(s) to the Company.
4. All information related to said Project(s) that has been submitted to the Company is true and accurate to the best of my knowledge.

Jim Wayne

Sworn to before me and subscribed in my presence this 10th day of April, 2019.
Heena S. Patel
 Notary

DIANE L. PATEK
Notary Public, State of Ohio
My Commission Expires May 7, 2017



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

8/5/2013 10:49:12 AM

in

Case No(s). 13-0991-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of The Toledo Edison Company and Evergreen Local School District electronically filed by Ms. Jennifer M. Sybyl on behalf of The Toledo Edison Company and Evergreen Local School District