

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

Case No.: 11-3686-EL-EEC

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

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

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

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

Section 1: Company Information

Name: DISCOUNT DRUG MART, INC. - #15 PURITAS Principal address: 211 COMMERCE DRIVE, MEDINA, OH 44256 Address of facility for which this energy efficiency program applies: 17815 PURITAS AVENUE, CLEVELAND, OH 44135 Name and telephone number for responses to questions: GEORGE KENNEDY -440-899-2222 Electricity use by our company (at least one must apply to your company—check the box or boxes that apply): We use more than seven hundred thousand kilowatt hours per year at our facility. (Please attach documentation.) We are part of a national account involving multiple facilities in one or more states. (Please attach documentation.) **Section 2: Application Information** A) We are filing this application (choose which applies): Individually, on our own. Jointly with our electric utility. ·B) Our electric utility is CLEVELAND ELECTRIC ILLUMINATING. We are offering to commit (choose which applies): Energy savings from our energy efficiency program. (Complete Sections 3, 5, 6, and 7.) Demand reduction from our demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.) Both the energy savings and the demand reduction from our energy efficiency program. (Complete all sections of the Application.)

Project #1: Lighting Upgrade

Section 3: Energy Efficiency Programs

A)	Our	energy efficiency program involves (choose whichever applies):
		Early replacement of fully functioning equipment with new equipment. (Provide the date on which you replaced your fully functioning equipment, and the date on which you would have replaced your equipment if you had not replaced it early. Please include a brief explanation for how you determined this future replacement date (or, if not known, please explain why this is not known). See Exhibit 1 and Exhibit 2
		Installation of new equipment to replace equipment that needed to be replaced. We installed our new equipment on the following date(s): See Exhibit 2
		Installation of new equipment for new construction or facility expansion. We installed our new equipment on the following date(s): See Exhibit 2
B)	Ene	rgy savings achieved/to be achieved by your energy efficiency program:
	a)	If you checked the box indicating that your project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) – (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:
		Annual savings: 140,101kWh
	b)	If you checked the box indicating that you installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:
		Annual savings:kWh
		Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment. See Exhibit 1

Project #1: Lighting Upgrade

	c)	If you checked the box indicating that your project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:
		Annual savings:kWh
		Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment. See Exhibit 1
		Section 4: Demand Reduction/Demand Response Programs
A)	Our	program involves (choose which applies):
	\boxtimes	Coincident peak-demand savings from our energy efficiency program.
		Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction). See Exhibit 1
		Potential peak-demand reduction (choose which applies):
		Choose one or more of the following that applies:
		Our peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
		Our peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
В)		at is the date your peak demand reduction program was initiated? See iibit 2
C)		at is the peak demand reduction achieved or capable of being achieved ow calculations through which this was determined): 25_kW See Exhibit 2

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

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

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

A)	We	are app	plying for:
	\boxtimes	Optio	n 1: A cash rebate reasonable arrangement.
	OR		
		-	on 2: An exemption from the cost recovery mechanism implemented e electric utility.
В)	The	value	of the option that we are seeking is:
	Opt	ion 1:	A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
	·		A cash rebate of \$ \$14,472 (Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined).
			OR
			A cash rebate valued at no more than 50% of the total project cost, which is equal to \$ \$11,344 (Attach documentation and calculations showing how this payment amount was determined).
	Opt	ion 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 formonths (not to exceed 24 months).

Project #1: Lighting Upgrade

•	ttach calculations showing how this time period was termined).
Ol	₹
	Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of an ongoing efficiency program that is practiced by our organization. (Attach documentation that establishes your organization's ongoing efficiency program. In order to continue the exemption beyond the initial 24 month period your organization will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program).
	Section 6: Cost Effectiveness
The program is cost ef (choose which applies)	fective because it has a benefit/cost ratio greater than 1 using the
	source Cost (TRC) Test. The calculated TRC value is:e to Subsection 1, then skip Subsection 2)
⊠ Utility C Subsection	Cost Test (UCT). The calculated UCT value is: <u>2.7</u> (Skip to on 2).
Subsection 1: TRC	Test Used (please fill in all blanks).
avoided sup	alue of the program is calculated by dividing the value of our program costs of our program costs tric utility's administrative costs to implement the program.
О	ur avoided supply costs were
0	ur program costs were
TI	ne utility's administrative costs were

2Project #1: Lighting Upgrade

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 43190.

The utility's administrative costs were 4947.

The utility's incentive costs/rebate costs were 11344.

Section 7: Additional Information

Please attach the following supporting documentation to this application:

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



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

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Case No.: 11-3686EL-EEC
State of Ohio:
DAVE BOODJEH, Affiant, being duly sworn according to law, deposes and says that:
1. I am the duly authorized representative of:
DISCOUNT DRUG MART, INC. [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 the persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.
Signature of Affiant & Title
Sworn and subscribed before me this 18 day of FENRURAL . 1016 Month/Yea
Mourie D. Rose Signature of official administering oath Print Name and Title
MARCIA G RAGER MOTARY PUBLIC, STATE OF OHIO COMMISSION EXPIRES JULY 6, 2015

Customor Logal Entity Namo: DISCOUNT DRUG MART, INC.

Exhibit 1

SKs Address: DISCOUNT DRUG MART, INC. - #15 - PURITAS Principal Address: 17815 FURITAS AVENUE

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment. Š 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. The decision was made to do a lighting upgrade and replace the TT2 with the newer T8 technology for the energy savings, increase in light levels and maintenance savings. See attached spreadaheat for energy savings calculations. Verification of lenergy savings was performed villizing the partially measured returdit recibion method described in Section 3.4 of the international performance imeasurement a verification protocol. Description of methodologies, protocols and practices used in measuring and verifying project results Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment: LIGHTING UPGRADE Project Name LIGHTING UPGRADE Project No.

Docket No. 11-3686 Site: 17815 PURITAS AVENUE

Mercantile Customer Program

Rev (4.27.2011)

Customer Legal Entity Name: DISCOUNT DRUG MART, INC. Site Address: DISCOUNT DRUG MART, INC. -#15 - PURITAS

Principal Address; 17815 PURITAS AVENUE

			Prescriptive Rebate Amount (G)	\$19,297	
			Utility Peak Demand Reduction Contribution, KW (F)	92	•
			KWh Saved/Year (E) eligible for incentive	101,041,011	
			KWh Saved/Year (D) counting towards utility compliance	140,101	
Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1	776,501 794,821	785,861	50% of Project Cost \$	\$11,344	
V Weather Adjusted Usage, kwh (B)	636,400 654,720	645,560	Project Cost \$	\$22,587	
Unadjusted Usage, kwh (A)	636,400 654,720	645,560	in-Service Date	25102007	
	2010 2009	Average	Project Name	LICHTING UPGRADE	
			Project Number	1 LUGHTING	

Eligible Rebate Amount (H) \$

\$11,344

\$11,344

\$19,297

25

140,101

140,101

\$22,687

Total

Docket No. 11-3686 Site: 17815 PURITAS AVENUE

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) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08 kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO. 10-834-EL-EEC dated \$175.000, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

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2,7 Total 140 \$ 308 43,190 3,546 \$11,344 \$1,401 16,291

Notes

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

national average energy price, so for a better representation of the energy price that Ohio customers would Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a 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 (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

= (A) * (B)

(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)

DISCOUNT DRUG MART, INC. ~ DISCOUNT DRUG MART, INC. - #15 - PURITAS Docket No. 11-3 $686\,$

Site

17815 PURITAS AVENUE

Lighting inventory Form

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Project Estimated Annual Savings Summary

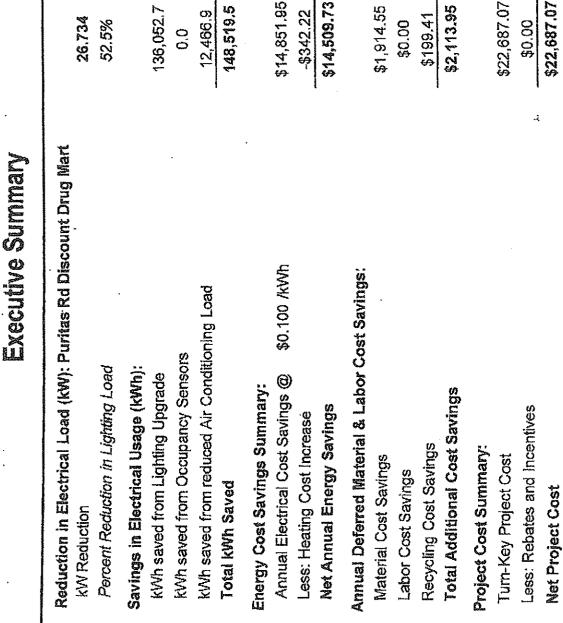
Estimated Annual kWh Savings	140,101.69
Total Change in Connected Load	24.55
Annual Estimated Cost Savings	\$14,010.17
Annual Operating Hours	5,311
interior Lighting incentive @ \$0.80/W (excluding CFLs, sensors, or LED exit signs)	\$18,720.80
Extenor Lighting incentive @ \$0.50/W (excluding CFLs, sensors, or LED exit signs)	\$576.00
Total CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all CFLs, both interior and exterior)	\$0.00
Total LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$19,296.80
Total Fixture Quantity excluding CFLs and LED Exit Sign	430
Total Lamp Quantity for Screw-In CFLs	0
Total Lamp Quantity for Hard-Wired CFLs	0
Total Fixture Quantity for LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
	j

Please briefly describe how you estimated your coincidence factor (CF) for facility type "Other" indicated on the Lighting Form tab

Total Quantity for Daylight Sensors

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15- Puritas 15



United Resource Group, Inc.

Simple Payback in Years

Report
Upgrade
Lighting

12/14/2010

UltraMax® Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78623 - GE332MAX-N/ULTRA (replaces 71719) UltraMax® Instant Start Multi-Voltage High-Efficiency 3 or 2 - F32T8 120 to 277 "N" .87 BF UltraMax®

General characteristics	ત્રાં આવેલી કાર્યા કે માટે કરી હતા.	in the bearing should have
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Solost Type	Electronic - High-Efficiency Multivolt Instant Start
Starting Method	Instantistort
Lamp Wiring	Potallel
tine Voltage Regulation (+/-)	10%
Ambient Temperature (MAX)	55°C1131°FI
Case Ternograture (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	
Sound Rating	A(20-24 decibels)
Additional info	Anti-striction control Auto-restort, Thermolly protected

Electrical characteristics

Supply Current Frequency	S0Hz/50Hz
Order information	THE STATE OF THE S

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- Energy-saving high-efficiency instant-start electronic ballost l> 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
 Cold temperature -22°F Minimum Starting Temperature
 UL 55C Ambient Temperature roting

Dimensions in the state of the

Wiring diagram - LFL IC - see example on Page 10-5	2
Cose dimensions - Ref Drawing - A - see Page 10-65	
Length (U)	9.5 in 1241 form)
Width(W)	1.7 in (43 mm)
Height IHI	1.18 in (30 mm)
Mounting dimensions	
Mount Length (M)	8.9 in 1226 mm)
Moting Width IX or FI	1.18 in 130 mm)
Mount Stats IMSI	(0.3 in (8 mm)
Weight	1.40 <i>l</i> bs
Exit Type	Side
Remote Mounting Distance to Lamp (F3218)	18 ft
Remote Mounting Wire Gouge	18 AWG
Leadlengths	Length(± 1 in)
Black	25 in 1635 mm)
White	75 in 1635 mm)
Red	37 in (940 mm)
Blue	31 in 1787 mml

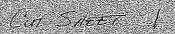
Specifications by lamp and wattage

.αmp	#of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Foctor%(>=)	Crest Factor (<=)	TH0%(cm)	Min. Storting Temp (*F/*C)
VIII.	1 3	120	82	0.72 A	0.87	1.06	99	1,4	10	-72.0/-30
	3	277	80	0.31 A	0.87	1.09	98	3.6	10	-22.0/-30
	2	120	64	0.56 A	ZO97 }	1.52	99	14	10	-22.0(30
3218	7	277		0.25A	G-197	1.54	97	14 1	13	-22,6/-30
	3	120	. 77	0.68 A	0.87	1.13	99	14	10	50.0/10
	3	277	76	0.29A	0.67	1.14	98	1.4	0	\$0.0/10
	2	120	59	0.51 A	0.95	1.61	99	1.6	30	50,0/10
3218/WM	2	277	58	0.23A	0.95	1,64	97	14		50.0/10
	3	120	70	0.65 A	0.87	1.24	99	14	10	50.0/10
	3	277	70	0.27A	0.87	1.24	98	14	10	50.0/18
	2	120 277	54	0.47 A	0.93	1.72	99	14		50.0/10
2818	2	277	53	0.21A	0.93	1.75	97	3.4	16	50.0/10
	3	120	65		0.87	1,34	99	IA	10	60.0/16
	3	277	64		0.87	136	98	1.4	10	60.0/16
	2	120	50		0.93	1.86	99	1.4	10	60.0/16
3718/25W	2	277	48		0.93	1.94	97	1.4	10	60.0/16
	3	120	67	0.59A	0.84	1.25	99	1,6	10	-22.0/-30
	3	273	67	0,26A	0.84	L25	98	24	- 13	-22.0/-30
	2	277	51	0.20 A	0.94	1.84	97	1,4	17	-22.0/-30
F2518	2	120	51	0.45A	0.94	1.04	99	1,4	10	-22.07-30
	3	120	45	0.40A	0.86	191	99	1.4	10	-55'0/:30
		277	45	0.18A	0.86	191	97	14	17	-22.0/-30
	2	120	35	031A	0.97	2.77	99	1.4	10	-22.0/-30
1718		277	35	0.15A	0.97	277	95	1.4	19	-22.0/-30
		120	35	0.31A	0,77	2)4	99	1.4	10	0.0/-18
	3	277	36	0.16A	6.77	2.14	96	1.4	23	0.0/-18
		120	28	0.25A	0.R6	3.07	99	1.5	10 23	0.0/-18
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	3	120	68	0.60 A	0,78	1,15	99	1.4	10	0.0/-18
	3	277	67	0.26 A	0.78	1.16	98	1.4	13	0.0/18
		120	52	0.46 A	0.89	1.71	99	14	10	0.0/-18
F25112	2	277	SZ.	0.21A	0.89	1.71	97	1.4	16	0.07-18

Safety and performance

UL Type I Cundoor UL III Type HL FCC - CLASS A Non-Consumer UD UL Class P CULListed UD UL Type CC UL Listed RoHS Compliant





																ffeels Tederal		voning ond	
Bula Shana	D- cr		Length	Order		Case	RatedLife	Roled Life	hidal	Megn	Color		Righ C olor	Energy	Reduced	Cfficers	Foot-	Collon	Additional
T8 Ste	rcoat ^a Lo	mps (c	ontinue	() (1)	Processing State of the Control of t	<i>UKKA KA</i>		(A.1.5)(F.1.)	PROTEIN AND IN	M11.03153	SHAGBIAN			e company	Manual Co.	POR CONTRACTOR	128445	Tanibites ()	N. SULLEH CLESS
	colux*								di Sile			120					in es		
T8	Medium Bi-Pin	25	36.0		F25T8/SP30/ECO	24	20000	24000	2080	1970	3000	78	£th'				16	101	
1	(G13)	25 25	36.0 36.0	45754 45756	F2518/SP35/ECO	24 24	20000	24000	2080	1970	3500	78	0				18	101	
		25	36.0	45753	F2ST8/SP41/ECO F2ST8/SPX30/ECO	24	20000	24000 24000	2080 2150	1970 2040	4100 3000	78 86	£.		<u> </u>		18 18	101	
		25	36.0	45755	F25T8/SPX35/ECO	24	20000	24000	2150	2040	3500	85	ø				18	101	<u> </u>
	[25	36,0	45757	F2518/\$PX41/ECO	24	50000	24000	2150	2040	4100	86	ø				18	101	
	colux®XI						i	1		T			T T		<u> </u>				
18	Medlum Bi-Pin	25 25	36.0 36.0	15486 15487	FZST8/XL/SP30/ECO FZST8/XL/SP35/ECO	24 24	24000 24000	29000 29000	2080 2080	1970 1970	3000 3500	78 78	6'				18	101	<u> </u>
1	(G13)	25	36.0	15488	FZST8/XL/SP41/ECO	Z4	24000	29000	2080	1970	4100	78	4		,-		18 18	101	
		25	36,0	15489	F25T8/XL/SPX30/ECO	24	24000	29000	2150	2040	3000	85	0				18	101	
		25	36.0	15490	FZSTB/XL/SPX3S/ECO	24	24000	29000	2150	2040	3500	86	£7				18	101	
		25	36.0	15491	F2STB/XL/SPX41/ECO	24	24000	29000	2150	2040	4160	86	67				18	101	
1		25 25	36.0 36.0	10416 16314	F25T8/XL/SPX50/ECO F25T8/XL/SPX65/ECO	24 24	24000 24000	29000	2050	1950	5000	86	<u> </u>			ļ	18	101	ļ
A 18	Ecolux ^e	23	38.0	12314	LS310VF/3LV@3EFO	24	24000	29000	1950	1755	6500	85		35 (S) (E)		ing Sayabah N	18	101	L
18	Medium	32	48.0	26655	F32T8/SP30/ECO	36	30000	36000	2800	2660	3600	78	T &	Special residence for the	************	6	18	101	
- 1	8i∙Pin (G13)	3.5	48.0	26667	F32T8/SP35/ECO	36	30000	36000	2800	2660	3500	78	5			<u>©</u>	18	101	l
	(025)	32	48.0	26668	F3218/SP41/ECO	36	30000	36000	2800	2660	4100	78	a			©	18	101	<u> </u>
1	. [32	48,0	16090	F32TR/SPSO/ECO	36	30000	36000	2750	2610	5000	78	ø			€	18	101	
		32	48.0	15091	F32T8/SP65/ECO	36	30000	36000	2700	2565	6500	78	Ø			(6)	18	101	
ł		32	48.0	25611	F32T8/SPX30/ECG	36	30000	36000	2950	2800	3900	86	677			©	16	101	
-		32	(2.5)	75612	P3218/SPK35/4CO	36	30000	35000	5820-	2800	3500	86	0			(E)	18	101	
		32	48.0	25613 42064	F32TB/SPX41/ECO F32TB/SPX50/ECO	36 36	30000	35000 35000	2950 2800	2800	4100	86	27			©	18	101	<u> </u>
2) TA	K Skulon				F0210431 K30/LCG			1000000	Loco	- 5660	5000	-86				(18	101	1
78	Medium	37	48.0	27616	F32T8/XL/SP30/ECO	36	36000	42000	2800	2660	3000	78	·		1	l ©	18	101	T
	8i-Pin (G13)	32	48.0	27617	F32T8/XL/5P35/ECO	36	36000	42000	2800	7660	3500	78	0			6	18	101	
	10157	32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4100	78	~			6	18	101	
		32	48.0	27619	F32TB/XL/SPX30/ECO	36	36000	42000	2950	2800	3000	86	67			(g)	18	101	
	į	32	48.0	27620	F32T8/XL/SPX35/ECO	36	36000	42000	2950	2800	3500	86	621			(D)	18	101	
		32	48.0	27621	F32T8/XL/SPX41/ECO	36	36000	42000	2950	2800	4100	88	6			(E)	18	101	
		35	48.0	16313	F32TR/XL/SPX50/ECO	36	36000	42000	2800	2660	5000	86	414			<u> </u>	18	101	
1300000		32	4B.O	16089	F32T8/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85	6°		NUMBER SERVICE	©	18	101	erinistration
4218 18	Fcolum St Medium	per Lo	19 Life 30 48.0	73093	F3218/SXL/SPX30/ECO	36	40000	45000	2850	T 2020	3000	0.	T _		T	[T	T
	8i-Pio	32	48.0	73094	F32TB/SXL/SPX35/ECO	36	40000	46000	2850	2675 2675	3500	84 83	57		<u> </u>	(C)	18	101	<u> </u>
-	(G13)	35	48.0	73095	F3ZTB/SXL/SPX41/ECO	36	40000	45000	2850	2675	4100	81			 	6	18	101	<u> </u>
		35	48.0	73096	F32TB/SXL/SPX50/ECO	36	40000	46000	2800	2630	5000	80	47	 		(E)	18	101	
Ultra	Energy So	ving Ti	Lamps		}	٠	I		·				1	L	L	L		1	<u> </u>
2 18	colux?W	att-Mis	er®15W		p.										1000				
18	Medîum Bl-Pin	15	24.0	72132	F17T8/XL/SPX30/ WM/ECO	24	24000	29000	1200	1130	3000	85	0	\$	*		3,18	101	
	1G131	15	24.0	72133	F17TB/XL/SPX3S/ WIN/ECO	24	24000	29000	1200	1130	3500	85	0	S	*		1,18	101	<u> </u>
		15	24.0		F1778/XL/SPX41/ WM/ECO	24	24000	29000	1200	1130	4100	82	ź»	s	-		1,18	101	
		15	24.0	72135	F17T8/XL/SPX50/ WM/ECO	24	24000	29000	1175	1105	S000	80	±2V	š	*-		1,18	101	
3'18	colux*W	ott-Mis	er# 22 W	ott Lam	p.							2507	1 05090018						l.
Т8	Medkum Bi-Pin	22	36.0		FZSTB/XL/SPX30/	24	20000	29000	1925	1810	3000	85	0	\$	*		1,18	101	
	(G13)	ZZ	36.0	72137	WM/ECO FZST8/XL/SPX35/	24	24000	29000	1925	1810	3500	85	0	s	· · · ·	 	1,18	101	
l l		- 1			WM/ECO				<u> </u>	<u> </u>	ļ	 		<u> </u>			<u> </u>	ļ	<u> </u>
		22	36.0	72138	FZST8/XL/SPX41/ WM/ECO	24	24000	29000	1925	1810	4100	82	4	\$	_		1,18	101	

Rated life for 2 ft through 4 ft Starcout® Ecolux® Medium Bi-Pin 18 lomps is determined on programmed start ballasts. Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 26% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-a).

Cut SHEET 2

UltraMax® Instant Start Multi-Voltage 120-277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78627 - GE432MAX-N/ULTRA (replaces 71727) UltraMax® Instant Start Multi-Voltage High-Efficiency 4 or 3 - F32T8 120 to 277 "N" .87 BF UltraMax®

له خاری به است.		A A S S A S A S A S A S A S A S A S A S
General	charc	cteristics

Bollast Type	Rectronic - High-Efficiency Multiwolt Instant Start
Starting Method	Instant slort
amp Wiring	Paraliel
Line Voltage Regulation (+/-)	10%
Ambient Temperature (MAX)	I SS°CI131°F1
Case Temperature (MAX)	70°C(158"F)
Bollost Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striction control Auto-restart. Thermally protected

Ministrate (Manager), in the New York alone

Electrical characteristics

50 Hz/60 Hz Supply Current Frenuency

Order information White Carlot Wallet and the Carlot

CIME BUILDING	APPROXIMATE TO A SECTION OF A S	4 - 1 - 4 - 4 4 7 7 7 4 4 4 4 4 4 7 7 4 4 7 7 7 7	
10 Pock	Pellet Pack	DIV Pack	IP Pack
78527	78628(renlanes 71729)	7173@tranincas 239621	

- Energy-saving high-efficiency instant-start electronic bollost (> 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
- Cold temperature -ZZ°F Minimum Storting Temperature
- UL 55C Ambient Temperature rating

Dilitoriototo :		. :
Wiring diagram - LFL 1D - see example on Page 10	1-62	. :
Case dimensions - Ref Drawing - A - see Page 10-6	5	·
Length(13	9.5 in (241 mm)	
WidthWi	17io(43 mm)	
Height (H)	1,18 in (30 mm)	
Mount live dimensions		٠,
Mount Length (M)	8.9 in (226 mm)	٠.
Mount Width (K or F)	1,18 in (30 care)	
Mount Slots (MS)	1 0.3 in 18 mm)	
Weight	1,40 lbs	
Exit Type	Side	_
Remote Mounting Distance to Lamp (F3218)	1B (L	
Remote Mounting Wire Gouge	1 18 AWG	٠.
Leadlengths	Lengthix Lini	. i
Blue and Red	31 in (767 mm)	٠,
White	25 in 1635 mm)	
Yellow	39 in (991 m/m)	
Black	25 in 1635 mml	. :

E		I	·	wattage.
SPECIA	วิที่เกิดเรา	LY RESIDENT	t mus	UNDESTREETED

3218/WM 2218/WM 2218/WM 2218/WM 2218/WM	4 4 4 4 3 3	120 277 120 277 120 277 120 277		0.97A 0.01A 0.81A	(0.87)	0.80 0.81	59	1.4	30	-27.0/-30
5218AWM	6 3 3 4 9 3	120 277 120 277		0.81 A		โกส				\$ 1.502.02M
5218AWM	3 3 4 9 3 3	277 120 277			/ Au //		98	1.4	10	-27.0/-30
5218AWM	3 4 9 3 3	120 277				1.02	99	14	10	-22,0/-30
2878	4 9 3 3	27.7	103	D.81 A	Ta Vi	1.03	99	1.4	10	-52.0/-30
878	4 3 3			0.91 A	0.87	0.84	99	1.4	10	50.0/10
878	3		101	0.38A	0.87	0.86	98	1.4	10	50,0/10
878	3	170	85	0.75A	0.91	1.07	99	1,4		50.0/10
		277	84	0.32 A	0.91	1,08	97	1A	10	50.0/10
	4	120	94	A58.0	0.87	0.93	99	1,4		50.0/10
	4	277	92	0.35A	0.87	0.95	98	14	10	50,0/10
	3	120	77	0.58A	0.89	1.16	99	14	10	50.0/10
37072534	3	277	76	029A	0,89	117	97	14	13	50.0/10
	4	120	87		0.87	1.00	59	14	10	
	- 6	277	85	1	0.87	1.01	98	14	10	
TANDERS !	. 3	120	71		0.89	1.25	99	1.4	10	
K 10/C 2YY	3	277	71		0.89	1.25	97	14	10	
<u></u>	4	120	89	0.78A	58,0	0.92	99	1.4	10	-27.0/-30
ļ		277	88	0.33A	0.82	0.93	98	14	10	-22.0/-30
<u></u>		120	74	0.65 A	0.90	1.22	99	14	10	-27.0/-30
518	3	277	73	A 85.0	0.90	1.23	97	1.4	15	-22.0/-30
<u>}</u>		120	61	Q51A	0.87	143	99 97.		10	-22.0/-30 -22.0/-30
ļ	4	277	61	Q24A	0.67	1.93		14		
ļ	3	120	51	0.45A	0.98	1.88	99	1A	10 18	-22.0/-30
1718	3	277	51	0.21 A	0.96	1.88	96	1.4	1n	-22,0/-30 0.0/-18
Ļ	9	320	48	0.42A	0.77	1.60	96		10	0.0/-18
	4	777	48	0.20A	0.77	1.60		14	10	0.0/-18
	3	120	<u> </u>	0.35A	0.85	2.07	99	1.4	<u> </u>	00/-18
1518		277	40	0.17A	0.85	213	94	14	23 10	0.0/-18
<u> </u>	<u> </u>	126	91	A080	0.79	0.87				0.0/-16
ļ		277 120	90 75	1 0.34A	0.79	0.88	98	19	10	
25112	4			0.66A	0.87	1.14	99	1.4	10	0.0/-18

Safety and performance

UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consu

UL Closs P cULListed UL Lype CC UL Usted Rol4S Compliant



																Meets Federal		Ven ta	
			Nominal Leogth	0.čer			Retail G	Rote: 116			Colo		Het Color	fnace	Reduced	Norman Elficercy	Foot	end Cout on	Additional
	Gase	Watts	(r)	Code	Description	0.7	(3))-/S(01)	(12) (/Slon)	Luriens	limit.	Temp K		rencemo		Wortness	Standards	neles l	No ces	Information
	rcoat ^o La	mps (c	ontinuec)		ATTENDED NOT							TERRITORIA DE	Colored transfer			SS SECTION SECTION		No Carlo Laboration
123200	colux*								400-000			98.8	5.03-50						
18	Medium Bi-Pin	25	36.0		F2ST8/SP30/ECO	24	20000	24000	2080 2080	1970 1970	3000 3500	78	67				18 18	101	
	(G13)	25 25	36.0 36.0	45754 45756	F25T8/SP35/ECO F25T8/SP41/ECO	24	20000	24000 24000	2080	1970	4100	78 78	67 67			***************************************	18	101	
	ŀ	25	36.0	45753	F25TB/SPX30/ECO	24	20000	24000	2150	2040	3000	86	<i>«</i>				18	101	
	Ì	25	35.0	45755	F25TB/SPX35/ECO	24	20000	24003	2150	2040	3500	86	£T.				18	101	
		25	36.0	45757	FZST8/SPX41/ECO	24	20000	24000	2150	2040	4100	86	eri .				18	101	
3' TB	coluxº XI	Extra	lfe											000				40.00	
81	Medium Bi-Pin	25	36.0	15486	F2518/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78	6				18	101	<u> </u>
	(G13)	25	36.0	154B7	F25T8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	# I				18	101	
		25	36.0	***************************************	F25T8/XL/SP41/ECO	24	24000	29000	2080	1970	4100	78	0				18	101	ļ
		25 25	36.0 36.0		F25TB/XL/SPX35/ECO F25TB/XL/SPX35/ECO	24 24	24000 24000	29000 29000	2150 2150	2040 2040	3000 3500	86 86	67				18	101 101	ļ
	1	25	36.0	15491	F25T8/XL/SPX41/6CO	24	24000	29000	2150	2040	4100	85	**				18	101	<u> </u>
	Ī	25	36.0	10416	F25T8/XL/SPX50/ECO	24	24000	29000	2050	1950	5000	86	6				18	101	
		25	36.0		F25T8/XL/SPX65/ECO	24	24000	29000	1950	1755	6500	85	629				18	101	,
4º18	Есојих"						TO GOVE										W. 12		
T8	Medium	32	48.0	26666	F3218/SP30/ECO	36	30000	36000	2800	2560	3000	78	dr			ø	18	101	
	Bi-Pin (G13)	32	48.0	26667	F3218/SP35/ECO	36	30000	35000	2800	5660	3500	78	67			€	18	101	
	,,,,,	32	48.0	26668	F32T8/SP41/ECO	35	30000	36000	2800	2660	4100	78	6			0	18	101	
		32	48,0	16090	F32T8/SPS0/ECO	36	30000	36500	2750	2610	5000	78	6"			©	18	101	
		32	48.0	16091	F32T6/SP65/ECO	36	30000	36000	2700	2565	6500	78	0			(2)	18	101	
		35	48,0	25611	F3218/5PX30/ECO	36	30000	36000	2950	2800	3000	86	ev.			(E)	18	101	
		32	48.0	25612	F32T8/SPX3S/ECO	36	30000	36000	2950	2800	3500	85	se.			(E)	18	101	
		32	48.0	25613	F32T8/SPX41/ECO	36	30000	36000	2950	2800	4100	B6	-			(0)	18	101	
-		32	48.0	42064	F32TB/SPX50/ECO	36	30000	35000	2B00	Z660	5000	86	0	NAME OF THE OWNER.	enan enana	(B)	18	101	
,	Ecolux ^a XI			22				1	T		,				r	_		i i	
18	Medium Bi-Pin	32	48.0	27616	F32T8/XL/SP30/ECO	36	36000	42000	2800	2650	3000	78	· ·			(E)	18	101	
	[G13]	32	48.0	27517	F32TR/XL/SP3S/ECO	36	36000	42000	2800	2660	3500	78	-			<u> </u>	18	101	
		32	48.0	27518	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4100	78	<u> </u>			<u> </u>	18	101	
		32	48.0	27619	F32T&/XL/SPX30/ECO	36	36000	42000	2950	5800	3000	86	-			(E)	18	101	
		32	48.0	27520	F32T8/XL/SPX3S/ECO	36	36000	42000	2950	2800	3500	86	-			(E)	18	101	
		32	48.0	27621	F32T8/XL/SPX41/ECO	36	36000	42000	5950	2800	4100	86	<i>e</i>			(E)	18	101	
		32	48.0	16313	F32T8/XL/SPXSO/ECO	36	36000	42000	2800	2660	500D	86	4/7		ļ	®	18	101	
50.00	250 300 30	32	48.0	16089	F32T8/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85			CHAST PROCES	0	1 10	101	
16	Ecolux [®] 51 Medisim	32 32	ngiute 48.0	73093	F3ZT8/SXL/SPX30/ECO	36	40000	46000	2850	2675	3000	84	0	**************************************		Ιø	18	101	T
30	Bì-Pin	32	48.0	73094	F32TB/SXL/SPX35/ECO	36	46000	46000	2850	2675	3500	83				0	18	101	
	(G13)	32	48.0	73095	F32T8/SXL/SPX41/ECO	36	40000	46000	2850	2675	4100	81				(6)	18	101	
		32	48.0	73096	F32Te/SXL/SPX50/ECO	36	40000	46000	2800	2630	5000	80	-			(E)	18	101	
litera	Energy Sc		L	1	- 42 107 SOLILON NOOTLOO	L	1	1	<u> </u>	1	1 2000	1	1	L	l	ı <u>-</u>	1	L	1
100 mm (100	-	A 2011		atri	ip :	100							(Carrier		9/25/54	and the same			
18	Medium	15	24.0	72132		24	24000	29000	1200	1130	3000	85	## C	3	*	Company Company	1,16	101	CONTRACTOR OF STREET
	Bi-Pin (G13)	15	24.0	72133	WM/ECO	24	24000	29000	1200	1130	3500	85	6	\$	*		1,18	101	
		15	24,0	72134	VVM/ECO F1/T8/XL/SPX41/	24	24000	29000	1200	1130	4100	82	<i>D</i>	s	4 -		1,18	101	<u> </u>
		. 15	24.0	72135	WM/ECO F17TB/XL/SPXSO/ WM/ECO	24	24000	29000	1175	1105	5000	60	6	\$	6 -		1,18	101	
31TE	Ecologe U	ott-Mi	Sej 22 la	attian	ip			l .											
78	Medium Bi-Pin	55	36.0	72136		24	24000	29000	1925	1810	3000	85	0	\$	**		1,18	101	
	(G13)	22	36.0	72137	FZ5TB/XL/SPX35/ WP//ECO	74	24000	29000	1925	1810	3500	85	0	\$	*-		1,18	101	
		22	36.0	72138	FZSTB/XL/SPX41/ WM/ECO	24	24000	29000	1925	1810	4100	82	0	\$	•		1,18	101	
		22	36.0	72139	F2STB/XL/SPX50/ WM/ECO	24	24000	29000	1900	1785	5000	80	6	\$	-		1,18	101	

Rated life for 2 ft through 4 ft Starcoat® Ecolux® Medium BI-Pin T8 lomps is determined on programmed start ballasts. Life relings are based on engineering data on programmed start ballasts with imps cycled every 3 or 12 operating hours. Lomp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).

Sair	Watis	(Konshal Length lin)	Order Code	Ossemption	Cose Oly	Volts	Roječ Life (hrsj.	initia Lumens	Liean Lumens	Color Tenip K	CRI	en Stort Temp (1)	Power Factor	THD	ENERGY STAR Screw Ins	Additional Information	Caulier Lictics	Footnotes
Self-Ball	asted i	Lamps						N. Sanda da de de la companya de la			202576255762							
Spiral*						6 9 J 6		1-67-05-		25000								
	10	4,4	15829 49906	FLE10HT3/2/827 FLE10HT3/2/SW/CD	10 12	120 120	8000	520 520	420 420	2700 2700	82 82	5	0,6 0.6	120 120	*	T3 Spirat ^a , Boxed T3 Spirat ^a , Carded Sinate Pack	153 153	1,7,8,9,10 1,7,8,9,10
	10	4.A	49907	FLEXOHT325WCD2PK	3	120	8000	520	420	2700	85	5	0.6	120	*	13 Spirot [®] , Carded Twin Pack	153	1,7,8,9,10
₩	10	4,4	25182	FLE10HT3/2/841	10		8000	520	420	4100	82	5	0.6		*	T3 Spkal®, Boxed	153	1,7,8,9,10
	10	44	89082	FLE10HT3/2/D/CD	12	120	8000	500	400	6500	82	5	0,6	120	*	Corded Single Pack		
	10	4.4	85393 80936	FLE10HT3/2/D/2PK FLE10HT3/2/XL	3	120	12000	500 550	400	6500 2700	82 82	5	0.6	120	*	T3 Spiral®, Carded Twin Pack T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4,4	47430	FLEIDHT3/2/XL/CD	12	120	12000	550	440	2700	82	5	0.6	120	*	T3 Spirat*, Corded	153	1,7,8,9,10
			<u> </u>		ļ										ļ	Single Pack		
	10	4.4	49671	FLEICHT3/2/XL2PK	3	120	12000	550	440	2700	82	5	0.6	120	*	13 Spirol®, Corded Twin Pock	153	1.7,8,9,10
	10	3.7 3.7	86241 85382	FLE10HT2/2/827 FLE10HT2/2/SW/CD	10	120 120	12000	580 580	460 464	2700 2700	82	5	0.5	120 120	*	T2 Spirat [®] , Baxed T2 Spirat [®] , Corded	153 153	1,7,8,9,10
			05,4	111111111111111111111111111111111111111		11.0	11500	300		2150		<u>L</u>	V.,	169		Single Pock	1,33	1,7,8,9,10
	13	4,7	16450	FLE13HT3/2/SW/CO	12	120	8000	825	660	2700	82	الله الله	0.6	120	*	T3 Spirol®, Corded Single Pock	153	1,7,8,9,10
Щ	13-	4.7	16459	FLEJ3HT3/2/SW/2P	3	120	6000	825	660	2700	B2	5	0.6	120	*	13 Spirot [®] , Corded Twin Pock	153	1,7.8,9,10
	13	4,7	21760	FLE13HF3/2/10PK	10	120	8000	B25	660	2700	92	5	0.6	120	*	T3 Spirot ^o , Consumer 10-Pack	153	1,7,8,9,10
	13	4.7	71763	FLE13HT3/Z/6STP	6	120	6000	855	685	5000	82	5	9.6	145	*	T3 Spirof [®] , Tray Pack	153	1,7,8,9,10
	13	3.9 3.9	86256 85383	FLE13HT2/2/827 FLE13HT2/2/SW/CD	3	120 120	12000	870 870	695 750	2700	82 82	5	0.5	120	*	T2 Spirot®, Boxed	153	1,7,8,9,10
	13	3.9	93363	LEGISHI SELECTION CO		120	12000	6717	230	2100	84	L,	0.6	120	*	T2 Spirat ^a , Carded Single Pack	153	1,7,8,9,10
Med	15	4.8	15831	FLE15HT3/2/827	10	120	8000	950	765	2700	82	5	0,6	145	*	T3 Spirot ^e , Boxed	153	1,7,8,9,10
	15	48	25183	FLE15HT3/2/841	10	120	8000	950	765	4100	82	5	0.6	145	*	T3 Spirato, Baxed	153	1,7,8,9,10
#	15 15	4.8 4.8	85394	FLE15HT3/2/D/CD FLE15HT3/2/D/2PK	3	120 120	8000	900	738	6500 6500	82 82	5	0.6	145 145	*	T3 Spirol®, Corded	153	1,7,8,9,10
					<u> </u>		ļ		<u> </u>	ļ	<u> </u>	<u> </u>				Twin Pack	157	1,1,0,0,1,0
	15	4.8	80937	FLE15HT3/2/XL/SW	10	120	12000	950	765	2700	82	5	0.5	145	*	T3 Spirel®, Boxed	153	1.7,8,9,10
	15	4.8	47435	FLE15HT3/2/XL/CD	12	120	12000	950	765	2700	82	Ş	0.6	145	*	13 Spirol® Corded Single Pack	153	1.7,8,9.10
	15	4,8	49680	FLE3SHT3/2/XL2PK	3	120	12000	950	765	2700	82	5	0.6	145	*	13 Spiral ^a , Carded Twin Pack	153	1,7,8,9,10
	15	4.1	86271	FLE15H72/2/827	10	120	12000	950	750	2700	82	5	0.5	120	*	12 Spirot [®] , Boxed	153	1,7,8,9,10
	15	4.1	853B5	FLE1SHTZ/2/SW/CD	35	150	8000	950	765	2700	82	5	0.6	145	*	12 Spirol®, Corded Single Pack	153	1,7,8,9,10
	15	52	89619	FLE1SHT3/2/DV	10	120	10000	900	720	2700	85	5	0.6	150	*	Dimming, Boxed	152	1,7,8,9,14
	15	5.2	89623	FLE1SHT3/Z/DV/CD	12	120	10000	905	720	2700	82	5	0.6	120	*	Dimming, Corded Single Pack	15≷	1,7,8,9,14
Med	20	4.7	15834	FLE20HT3/2/827	10	120	8000	1200	965	2700	82	5	0.6	135	*	13 Spiral®, Boxed	153	1,7,8,9,10
	20	4,7	15516	FLEZOHT3/Z/SW/CD	1.2	120	6000	1200	965	2700	82	5	9.6	135	*	13 Spiral*, Corded Single Pock	153	1,7,8,9,10
7	20	4.7	15518	FLEZOHT3/2/SW/2P	3	120	8000	1200	965	2700	82	5	0.6	135	*	T3 Spiral*, Corded Twin Pack	153	1,7,8,9,10
•	20	4.7	25186 80888	FLE20HT3/2/841 FLE20HT3/2/XL827	10 10	120	8000	965	965	4100	82	5	0.6	135	*	T3 Spirof**, Boxed	153	1,7,8,9,10
	20	4,7	71764	FLEZONT3/Z/AS/TP	6	120	15000	1300 1235	1040 990	2700 5000	82 82	5	0.6 0.6	135 145	*	T3 Spirat [®] , Boxed T3 Spirat [®] , Tray Pock	153	1,7,8,9,10
	20	4.7	89094	FLEZOHT3/2/O/CD	12	120	8000	1150	945	6500	82	5	0.6	145	*	Corded Single Pack	153	1,7,8,9,14
	20	4.8	85396	F1.E20HT3/Z/D/2PK	3	120	8000	1150	945	6500	82	5	9,6	135	*	13 Spirot ^o , Corded Twin Pack	153	1,7,8,9,10
	20	4.8	47442	FLE20HT3/2/XL/CD	12	120	12000	1300	1040	2700	82	ş	0,6	135	*	T3 Spiral®, Corded Single Pock	153	1,7,8,9,10
	20	4.8	49684	FLE20HT3/2/XL2PK	3	120	12000	1300	1040	Z700	82	5	0.5	135	*	T3 Spirol*, Corded Twin Pack	153	1,7,8,9,10
	20	4.8	47465	FLEZOHT3/Z/XL/O	17	120	12000	1250	1000	6500	82	S	0.6	135	*	13 Spiral*, Corded Single Pock, Doylight	153	1,7,8,9,10
Med	20	4.5 5.1	72880 80889	FLE23HT3/2/XL/CD FLE23HT3/2/XL027	3 10	120	12000	1250	1000	2700 2700	82 82	5 5	0.6	135	*	T3 Spirol*, Corded T3 Spirol*, Boxed	153 153	1,7,8,9,10
	23	5.1	47445	FLE23HT3/2/XL/CD	12	120	12000	1600	1280	2700	82	5	0.6	135	*	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	26	5.1	89095	FLEZ6HT3/2/0/CD	12	120	8000	1600	1280	6500	82	5	0.6	120	*	Corded Single Pack	153	1,7,8,9,10
	26	5.2	15836	FLE26H13/2/827	10	120	8000	1700	1365	2700	85	5	0.6	120	*	13 Spirol®, Boxed	153	1,7,8,9,10
	26	5.2	15517	FLEZ6HT3/2/SW/CD	12	120	8000	1700	1,365	2700	82	5	0.8	120	*	T3 Spirato, Corded	153	1,7,8,9,10
	<u> </u>	L	1	1	L	Enr the o		L	duct in face	I	1	linktina -	l		L	Single Pock	1	1

CUT SHEET G

UltraMax® Instant Start Multi-Voltage 120-277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72262 - GE232MAX-L/ULTRA (replaces 49707) UltraMax® Instant Start Multi-Voltage High-Efficiency 2 or 1 - F32T8 120 to 277 "L" .77 BF UltraMax®

General characteristic	
Ballast Type	Flectronic - High-Efficiency Multivalt Instant Start
Storting Method	Instantstort
Lemp Wiring	Porollel
Line Voltage Regulation [+/-]	10%
Case Temperature IMAXS	70°C(158°F)
Sollost Foctor	Low
Power Foctor Correction	Active
Sound Rating	AI20-24 decibels
Additionalinto	Anti-stription control. Auto-restort, Thermolly protected

20DDA COLLEGE LEGISTER		1. 19.116.37.131	······································
Order informat	ion Marian	Brithstown (<u>19</u>	
10 Pack		DIY Pack	IP Pock
72262	72263 (replaces 47546)		1

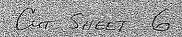
Electrical characteristics at the state of t

Energy-saving high-efficiency instant-start electronic ballast (> 90%)
 Multi-voltage technology handles voltage from 120 to 277V
 UL Type CC Roting provides protection against arcing in electrical devices
 Active Current Regulation regulates the output to each fomp with individual lomp inverter modules
 Anti-stratation control for better light quality, with no strictions
 Cold temperature -275F Minimum Starting Tamperature

Cold temperature -22°F Minimum Starting Temperature

Dimensions	
Wiring diagram LFL 18 - see example on Page 10-6	2
Case dimensions - Ref Drawing -A - see Page 10-65	
Lengthit	9.5 in [241 mm]
Width(W)	1.3 in (33 mm)
Height(H)] 1.18 in 130 mml
Mounting dimensions	
Mount Length IMI	8.9 in 1226 mml
Mount Width IX or FI	0.87 in (22 mm)
Mount Slots (MS)	0.3 in 18 mm)
Weight	1.06 lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gouge	18 AWG
Lendlengths	Length(± 1 in)
8/ack	25 in 1635 mm
8kve	31 in 1787 mml
White	25 in (635 mm)
Red	37 in 1940 mm)

	ations by	******	Systemillatis	Norn, Line Corrent	System Buildst-Equitor	Ballast Efficery Factor	Power Factor% (>=)	Crest Factor is=1	THO% (c=)	Min. Storting Temp (*F/*C)
ımp	# of Lumps	Line Voits	Systematics	0.42 A	0.77	1.57	99	1.5	5	-72.0/-30
		120 277	- Tag	0.18.A	100	1.60	98	1,5	8	-22,0/-30
	!	120	28	0.23A	0.77	2.75	99	1,5	8	-22.0/-30
	<u> </u>	277	28	0.11A	0.77	2.75	95	1.5	1≥	-22.0/-30
278		120	47	0.39A	0.78	1.66	99	1.5	5	60.0/16
		277	46	0.17 A	0.78	1.70	98	1.5	9	60.0/16
	1	120	27	0.23 A	0.78	2.89	99	1.5	8	60,0/16
obakras		277	27	0.10A	0.7B	2.89	95	1.5	12	60.0V16
MWNBTS		120	43	0.36A	0.77	1,79	99	1.5	6	50.0/16
		277	43	0.16.A	0.77	1.79	98	15	9	60.0/16
		120	25	0.21 A	0.77	3.08	99	3.5	8	60,0/16
818		277	25	0.10A	0.77	3.08	94	1.5	13	60.0/16
:010	- 	120	38	A 00.0	0.77	2,03	99	1.5	10	60.0/16
		277	38	000A	0.77	203	98	1.5	10	60.0/16
	1	120	22	0004	0.77	3.50	99	1.5	10	60.0/16
32TB/25W	1-1	277	22	A GO.O	0.77	3,50	97	1.5	10	60,0/16
15 10/5 344	1 3	120	39	Q.33 A	0.80	2.0%	99	1,5	6	-22,07-30
	-	277	39	0.14 A	0.80	2.05	97	1.5	10	-22,07-30
	1	120	23	0.19 A	0.60	3.48	99	1.5	9	-22.0/-30
2518	1	277	23 .	0.09 A	0.80	3,48	93	1.5	<u>1</u> }	-22.0/-30
5.4.19	,	120	27	0.23 A	0.79	2.93	99	1.5	8	-22.0/-30
	2	277	27	0.10 A	0.79	2.93	95	1.5	12	-22.0/-30
	ĭ	120	37	Q14A	0.79	4.65	99	1.5	11	-22,0/30
1718	1	277	17	0.08 A	0.79	4.65	80	15	36	-22.04-30
A.C.L.W	7	120	21	0.18 A	0.7B	371	99	1.5	13	00/-18
	7	277	22	0.09 A	0.78	3.55	93	15		00/-18
	i	120	14	012 A	0.78	5.57		1.5	13	00/-18
E1518	1	277	15	0.07.A	0.78	5.20	73	1.5	40	0.0/-18 0.0/-18
1.48.5	7	120	4)	0.35 A	0.80	1,95	99	15		0.0/-18
	2	277	4í	0.15A	0.80	1.95	28	15		90/-18
	1	120	24	020A	0.60	3.33	99	1.5	17	0.07-18
25112	1	277	74	0.09 A	0.80	3,33	94	1. 15	113	1 912-18



																Mees			
Bulb.			Von del Length	Order		Case	Retection	Revellifa			r an		u al cala			Federa Filminum		Votein) ond	
	0010		(in)	Cec	Description	Qby	(Shr/Slote)	(12)-7/(1010)	Umos	de la	te R		Reidenin		Victor	Standards		No.	In emotion
18 Sto	ircoot ^e Lo Ecolúx ^e	ımps k	ontinue	d)		NO. 300-121	2525				W.Soderan	riseasii.		. CONTRACTOR		Edviden edvis	200000		
78	Hediom	25	36.0	05750	F25TB/SP30/ECO	24	20000	24000	2080	1970	3000	78	1 0		essioni I	T		T	T
	Bi-Pin (G13)	25	36.0	45754	F25T8/SP35/ECO	24	Z0000	24000	2080	1970	3500	78	· ·		 		18	101	
	(073)	25	36,0	45756	F2518/SP41/ECO	24	50000	24000	2080	1970	4100	78	\$77.				18	101	
		25	36.0	45753	F2518/SPX30/ECO	24	20000	24000	2150	2040	3000	86	4st				18	101	
		25 25	36.0 36.0	45755 45757	FZST8/SPX35/ECO FZST8/SPX41/ECO	24 24	20000 20000	24000	2150	2040	3500	86	6"	ļ	<u> </u>	ļ	18	101	<u> </u>
3' 18	coluxº XI			43/3/	[residentife	24	I ZUARN	24000	2150	2040	4100	86	*				18	101	
T8	Medium	25	36,0	15486	F251B/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78	ar ar	***************************************	1		18	101	T
	Bi-Pin (G13)	25	36.0	15487	F25T8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	64				18	101	
		25	36.0	15488	F2ST8/Xt/SP41/ECO	24	24000	29000	2080	1970	4100	78	0				18	101	
		25 25	36.0 36.0	15489 15490	F25T8/XL/SPX30/ECO	24	24000	29000	2150	2040	3000	86	0	ļ	<u> </u>	ļ	18	101	<u> </u>
ļ		25	36.0	15490	F25TB/XL/SPX35/ECO F25TB/XL/SPX41/ECO	24	24000	29000 29000	2150 2150	2040 2040	3500 4100	86 86	0	 	 		10 18	101	
		25	36.0	10416	F25T8/XL/SPX50/ECO	24	24000	29000	2050	1950	5000	86	6	\vdash	 		18	101	
		25	36.0	15314	F2ST8/XL/SPX65/ECO	24	24000	29000	1950	1755	6500	85	0				18	101	I
	Ecoluk [®]						9844						整理制			182047010			
18	Medium Bi-Pin	32	48,0	26666	F3ZTB/SP30/ECO	36	30000	36000	2800	2860	3000	78	-	ļ	ļ	(C)	18	101	
	(G13)	32	48.0	26667	F32TR/SP35/ECO	36	30000	36000	2800	5680	3500	78	573		ļ	<u>©</u>	18	301	
		32	48.0 48.0	26568 16090	F3218/SP41/ECO	36 35	30000	36000	2800	2660	4100	78	67		 	(8)	18	101	ļ
		32 32	48.0	16091	F3218/SP50/ECO F3218/SP65/ECO	36	30000	36000 36000	2750 2700	2610 2565	5000 6500	78	-		 	<u> </u>	18	101	ļ
		32	48.0	25611	F32T8/SPX30/ECO	36	30000	36000	2950	2800	3000	78 86	6	 		(E)	18	101	<u> </u>
- 1		32	49.0	-25632-	F32TB/SPN35/ECO	36	30000	36000	2950	2800	3500	86	6		 	(E)	18	101	-
		32	48.0	25613	F32T8/SPX41/ECO	36	30000	36000	2950	2800	4100	86		 	 	6	18	101	
		32	48.0	42064	F32T8/SPX50/ECO	36	30000	36000	2800-	-2860-		186	67		l	©	18	101	<u> </u>
4 T8 I	Ecolux®XL	Extra	life -																
18	Medium Bì-Pin	35	48,0		F3ZTB/XU/SP30/ECO	36	36000	42000	2800	2660	3000	78	ø			(D)	18	101	
	(G13)	35	48.0	27617	F32T8/XL/SP35/ECO	36	36000	42000	2800	5660	3500	78	49			®	18	101	
	l	32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4100	78	S.		ļ	©	18	101	
İ		32	48.0 48.0	27619 27620	F3218/XL/SPX30/ECO	36 36	36000	42000	2950	2800	3000	86	P			(C)	18	101	
	ŀ	32	48.0	27521	F32TB/XL/SPX41/ECO	36	36000 36000	42000 42000	2950 2950	2800	3500 4100	86 86	0			6	18	101	<u> </u>
		32	48.0	16313	F32Y8/XL/SPX50/ECO	36	36000	42000	2800	2660	5000	86	0		ļ	(E)	18 18	101	<u> </u>
		32	48.0	16089	F3218/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85	- FO	 	<u> </u>	(E)	18	101	<u> </u>
4° 18 I	colux°Su	per Lo	ig Life							100)		WES		100 A				1 101	
T8	Medium	32	48.0	73093	F321B/SXL/SPX30/ECO	36	40000	46000	2850	2675	3000	84	0			(D)	18	101	300000000000000000000000000000000000000
	Bì-Pin (G13)	32	48.0	73094	F32T8/5XL/SPX35/ECO	36	40000	46000	2850	2675	3500	83	0			(8)	18	101	}
		32	48.0	73095	F32T6/SXL/SPX41/ECO	36	40000	45000	2850	2675	4100	18	07			(6)	18	101	
	1	- 12	48.0	73096	F3218/SXL/SPX50/ECO	36	40000	46000	2800	2630	5000	80	<u> </u>	<u> </u>	L	6	18	103	
Jitra I	nergy So	iving T	a Lamps						er verse som		(S. 2. 2. 2. S. S.	Sagger et	descriptions of	SERVICE CO.	23253000	Managara Baran	al variation	12.0500 (20a-ou	nas este communication
78 78	colux [®] W Medium	011. Mis 15	er: 15 W 24.0		P F17T8/XL/SPX30/	24	24000	29000	1200	****	2005/30	200			Tarana T				T
	Bi-Pin (613)	15	24.0		WM/ECO F1718/XL/SPX35/	24	24000	29000	1200	1130	3000	85	<i>a</i>	\$			1,18	101	
	}	15	24.0		WMVECO F17T8/KUSPX41/	24	24000		1200	1130	3500	85	0	\$	-		1,18	101	
	}	15	24.0		WIN/ECO F17T8/XL/SPXSO/	24	24000	29000	1200 1175	3330	4100	82	42°	\$	-		1,18	101	
					WM/ECO		1000	6 2000	12/3	1105	\$000	80	ez,	\$			1,18	101	1
F	colux* W			~~~~							Ø 38.18					2500	9889		
18	Medium Bi-Pin	22	36.0	72136	F25TB/XL/SPX30/ WM/ECO	24	24000	29000	1925	1810	3000	85	er.	\$	**		1,18	101	
	(613)	22	36.0	72137	F25Te/XL/SPX35/ WM/ECO	24	24000	29000	1925	1810	3500	85	0	۶	*		1,18	101	
1	ſ	55	36,0	72138	F25T8/X1/SPX41/ WM/ECO	24	24000	29000	1925	1810	4100	82	ø	\$	*		1,18	101	
	L							·		L		1	L		5			•	

Roted file for 2 ft through 4 ft Starcoat® Ecokux® Medium 8i-Pin 18 lamps is determined on programmed start ballasts. Life rotings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).



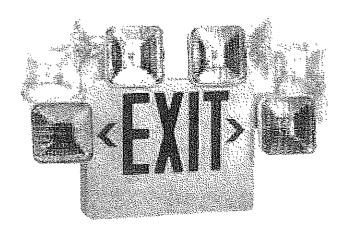


ADJUSTABLE THERMOPLASTIC HEADS, COMBINATION EXIT

The cc model combination exit & emergency unit with Adjustable Heads offers tremendous flexibility. The emergency lighting heads can be rotated from a side-mount configuration to a top-mount configuration in one simple motion. Featuring a durable thermoplastic housing, the cc model incorporates red or green energy efficient. high-brightness LEDs. Ideal for commercial and institutional installations, this truly universal unit comes complete with a mounting canopy, two exit stencil faces and a backplate.

BENEFITS & FEATURES

- · Universal mounting capability
- Energy-efficient LED exit light source
- 120/277 Standard
- · Durable thermoplastic housing
- · Remote capability (REM Option)
- Universal pop-out chevrons
- · Charge/Power LED indicator
- · Push-to-Test switch
- Solid State Charger
- 5.4W Tungsten lamps are standard
- Sealed maintenance-free lead calcium batteries
- 90 Minute emergency operating time
- · Damp location rated
- UL listed





SQRM-2

SQRM-1

ACCESSORI	3 5
ACCESSORY	DESCRIPTION
SORM-1	Matching Single Remote Head
SQRM-2	Matching Double Remote Head
WGI	Wire Guard
VRS2	Vandal Resistant Shield
Remote	Infrared Remote Controller
Add suffix to m	odel or order separately

15.00° Section of the		
1	16.00°	
J	21.00"	

ORDERIN	G INFORMATION		September 1980	
MODEL	LETTER COLOR	NUMBER OF FACES	HOUSING COLOR	OPTIONS
CC	R = Red	U = Universal	W = White	SD = Self-Diagnostics
	G = Green		B = Black	IRT = Infrared Remote Test
				REM = Remote Capability

Ordering Example: CC-R-U-W-SD



de al la consequenció à plante de telefones instituires en efet en filosoficials.

UltraMax® Instant Start Multi-Voltage 120-277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72262 - GE232MAX-L/ULTRA (replaces 49707)

UltraMax® Instant Start Multi-Voltage High-Efficiency 2 or 1 - F32T8 120 to 277 "L" .77 BF UltraMax®

General characteristics

Bollost Type	Electronic - High-Efficiency Multivolt Instant Start
Starting Method	Instant start
Lamp Wiring	Porofiel
Line Voltage Regulation (+/-)	10%
Case Temperature [MAX]	70°C([58°F)
Ballast Factor	Low
Power Factor Correction	Active
Sound Rating	Af70-24 decibels)
&dditional tala	Anti-striction control Auto-restact Thermolly protected

Electrical characteristics

50Hz/60Hz

Order information

Energy-saving high-efficiency instant-start electronic boilost (> 90%)
 Multi-voltage technology handles voltage from 120 to 277V
 UI. 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-striction control for better light quality, with no strictions

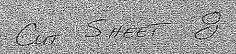
Cold temperature -22°F Minimum Storting Temperature

ni	maire	inne

Dillensions	23 Control of the Con
Wiring diagram LFL 18 - see example on Page 10-	
Case dimensions - Ref Drawing -A - see Page 10-6	
LengthIL	9.5 in 1241 mm
WidthWi	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width IX of F)	0.87 in (22 mm)
Mount State (MS)	0.3 in [8 mm]
Weight	1.06/bs
Exit Type	Side
Remote Mounting Distance to Lamp (F32Y8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead lengths	Length (± 1 in)
Bkxck	25 in (635 mm)
Blue	31 in (787 mm)
White	25 in 1635 mm
02	77 in 20 th owners

Specifications by lamp and wattage

emp	# of Lamps	Line Volts	System Watts	Nom, Line Current	System Ballast Factor	Bollost Efficacy Factor	Power Fortor % 1>=1		THD%(cal	Min. Starting Temp (*F/*C)
	2	120	49	0.42 A	0.77	1.57	99	1.5	5	-22.0/-30
	2	277	48	D,18 A	0.77	1,60	98	1,5	8	-22.0/-30
	i	120	28	D.23 A	0,77 }	2.75	99	1.5	8	-22.0/-30
3218	1	277	75	0.11A	C	2.75	95	3.5	12	-22.Q/-30
	2	120	47	0.39 A	0.78	1.66	99	3.5	5	60.0/16
	2	277	46	0,17 A	0.78	1.70	98	1.5	9	60.0/16
	1	150	27	0.23 A	0.78	2.89	99	1.5	8	50.0/16
1218/WM	1	277	27	0.10A	0.78	2.69	95	1.5	12	60.0/16
	2	120	43	0.36A	9.77	1.79	99	1.5	6	50.0/16
	Z	277	43	0.16A	0.77	1.79	98	1.5	99	60.0/16
		120	25	0.20 A	0.77	3.08	99	1.5	B	60.0/16
2818		277	25	0,10A	0.77	3.08	94	1.5		60.0/16
	- 2	120	38	0.00 A	0.77	2.03	99	1.5	10	60.0/16
	2	277	38	0.00 A	0,77	2.03	98	1.5	10	50.0/16
	1	120	22	0.00 A	0.77	3.50	99	1.5	10	60.0/16
3218/25W	1	277	22	0.00 A	0.77	3.50	97	15	10	50.D/16
		120 277	39	0.33 A	0.80	2.05	99	1.5	6	-22.0/-30
	2	271	39	0,14 A	0.89	2.05	97	15	10	-Z2.0/-30
	1	120	23	0.19 A	0.80	3,48	99	1.5	99	-22,0/-30
2518	1	277	23	A 90.0	0.60	3,48	93	1.5	13	-22,0/-30
		120	27	0.23 A	0.79	293		1.5	8	-22.0/-30
	2	277	27	Q10A	0.79	2.93	95	1.5	75	-55.0/-30
	i	120	17	0.14 A	0.79	4.65	99	1.5	11	:22.0/-30
1718	11	277	17	0.08A	0.79	4.65	<u> </u>	1.5	36	-22.0/-3D
	2	120	21	0,18 A	0.78	371	99	3.5	9	0.0/-18
		277	27	0.03A	0.78	3.55	<u> </u>	1.5	3.3	0.0/-18
	1	120	14	0.12 A	0,78	5.57	99	1.5	12	0.0/-18
E15TB	11	277	15	0.07 A	0.78	5.20	73	1.5	40	0.0/-18
	2	120	41	0.35 A	0.80	195	99	1.5	6	0.0/-18
	2	277	41	Q15A	0.80	195	98	15	9	0.0/-18
	1	320 277	24	0.20A	0.60	3.33	99	1.5	9	0.0/-18
25712	1	277	24	0.09 A	0.90	3,33	94	1.5	13	0.0/-18



																No.25 Federal		Varrite	
Bub			Nominal Length	Order		Case	Rated Life	Raladije	in tal	Mean	Color		High Color	Energy	Reduced	Minimum Efficiency	Foot-	ond Caulan	Aleitoni
		Walte	2512	C	Description	CI//	(English)	112 75 01	Ourens	Lumens		(GRD)	Rendering	Saynas	Voltiges	Stendards (notes	(ICLICES III	o lalormo icass
	rceat [®] La colux®	mps (c	onunueo										5 (2)						
18	Medicin	25	36.0	45750	F2518/SP30/ECO	24	20000	24000	2080	1970	3000	78	6				18	101	
	Bi-Pin	25	36.0		FZSTB/SP35/ECO	24	20000	24000	2080	1970	3500	7B	0				18	101	
	(G13)	25	35.0	45756	F2518/SP41/ECO	24	20000	24000	2080	1970	4100	78	25.				18	101	
	1	25	36.0		FZSTB/SPX30/ECO	74	20000	24000	2150	2040	3000	86	t .				18	101	
1		522	36.0		FZST8/SPX35/ECO	24	20000	24000	2150	2040 2040	3500 4100	86 86	e				18	101	
78000	2 10 10 10 10	<i>2</i> 5	36.0	45757	F25TB/SPX41/ECO	24	20000	24000	2150	2040	4100	· · · ·			I	1		101	
139.150 TB	colux [®] XI Medxim	25 Z	36.0	154B6	F25TB/XL/SP3D/ECO	24	24000	29000	2080	1970	3000	78	e e	Ī	1	1	18	10)	STATE OF THE STATE
	Bi-Pin	25	36.0		FZSTB/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	ø				18	101	
	(613)	25	36.0		F25T8/XL/SP41/ECO	24	24000	29000	2080	1970	4100	78	0			·	18	101	
		25	36.0	15489	F25T8/XL/SPX30/ECO	24	24000	29000	2150	2040	3000	86	Ø.				18	101	
		25	35.0	15490	F25T8/XL/SPX35/ECO	24	24000	29000	2150	2040	3500	86	Ç1.				18	101	
		. 25	36.0	15491	F25TB/XL/SPX41/ECO	24	Z4000	29000	2150	2040	4100	86	es.				18 18	101 101	
		25	36.0	10415	F2ST8/XL/SPX50/ECO	24 24	24000 24000	29000 29000	2050 1950	1950 1755	5000 6500	86 85	0				18	101	
sirai	Ecoluk e	25	36.0	16314	FZ5TB/XL/SPX65/ECO	24 30334	24000	2900) JOO	1,33									
18 18	Medium	32	48.0	25666	F32TB/SP30/ECO	36	30000	35000	2800	2660	3000	78	d)			©	18	101	
10	Bi-Pin	32	48.0	26667	F32T8/SP35/FCO	36	30000	36000	2800	2660	3500	78	EN.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		©	18	101	
	(G13)	35	48.0	26668	F3ZT8/SP41/ECO	36	30000	36000	2800	2660	4100	7B	627			●	18	101	<u> </u>
		32	48,0	16090	F32T8/SP50/ECO	36	30000	36000	2750	2610	5000	78	47			(6)	18	101	
		32	48,0	16091	FJZT8/SP65/ECO	36	30000	36000	2700	2565	6500	78	0			€	18	101	
		32	48.0	25611	F32TB/SPX30/ECO	36	30090	36000	2950	2800	3000	86	62			©	18	101	
		32	48.0	25632	F3ZTB/SPX3S/ECO	36	30000	36000	2950	2800	3500	86	0			©	18	101	
	,	32	48.D	25613	F32TB/SPX41/ECD	36	30000	36000	2950	2800	4100	86	6	***************************************		©	18	191	
	(;;;; <u>;;</u> ;	48.0	42064	F3ZTB/SPX50/ECO	36	35000	36000	2800	2660	5000	86	6			€	18	101	
4 18	Ecoluxe X	Extra-	life				10.00								16569				
18	Medium	32	48.0	27616	F3218/XL/SP30/ECO	36	36000	42000	2800	5660	3000	78	e th	<u> </u>		(D)	18	101	
	Bi-fin (G13)	32	46.0	27617	F32T8/XL/SP35/ECO	36	36000	42000	2800	2660	3500	78	-	<u> </u>		®	18	101	
	(1,1,1)	32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4300	78	€°°	ļ		₿	18	101	
		35	48.0	27619	F32T8/XL/SPX30/ECO	36	36000	42000	7950	2800	3000	86	52		ļ	8	18	101	ļ
		32	48.0	27620	F3ZT8/XL/SPX35/ECO	36	36000	42000	2950	2890	3500	86	6,	<u> </u>		0	18	101	
		35	48.0	27621	F3218/XL/SPX41/ECO	36	36000	42000	2950	2800	4100	85	157	ļ	ļ	(\$)	18	101	
	1	32	48.0	16313	F32TB/XL/SPX50/ECO	35	36000	42000	2800	2660	5000	86	-	ļ	<u> </u>	6	18	101	
www.	1	32	48.0	16089	F32T8/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85	<i>•</i>	or Francis C March	0.000 0.000 0.000	(E)	18	101	<u> </u>
4 18	Ecclus 5		ng Life			T	<u> </u>	1					T				13	2000 (A) T	T
78	Medium Bi-Pin	32	48.0	73093	F32T8/SXL/SPX30/ECO		40000	46000	2850	2675	3000	84	-	 	ļ	©	18	101	
	(513)	35	48.0	73094	F32T8/SXL/SPX35/ECC	36	40000	46000	2850	2675	3500	83	10	ļ	ļ	(0)	18	101	ļ
		32	48.0	73095	F32T0/SXL/SPX41/ECC	 	40000	46000	2850	2675	4100	81	F/F			(0)	18	101	!
	<u> 1</u>	32	48.0	73096	F3218/SXL/SPXS0/ECC	36	40000	46000	2800	2630	5000	80	<u> </u>	1	J	<u> </u>	18	101	<u> </u>
Ultro	Energy S	aving l	18 Lamps	1894:00000		500503	0.500			****	SE-2008	1000	15 15 15 15 15 15 15 15 15 15 15 15 15 1			0/2/2/20	W-20-E		
************	Ecoluir [®] N						1 3	3000	1	7.70	3000	85	T 60	\$	-	T THE STATE OF THE	1,18	101	
18	Medium Bi-Pin	15	24.0	72132	F17T8/XL/SPX30/ WM/ECO	24	24000	29000	1200	1130	30,000	63		<u>L,</u>			4,10	301	
	1613)	15	24.0	72133	F17T8/AL/SPX35/ WM/ECO	24	24000	29000	1200	1130	3500	85	0	5	4.		1,18	101	
		15	24.0	72134	F17T8/XL/SPX41/ WM/ECO	24	24000	29000	1200	1130	4100	82	0	5	-		1,18	101	
		15	24,0	72135	F17T8/XL/SPX50/ WM/ECO	24	24000	29000	1175	1105	5000	80	0	\$			1,18	101	
330	Ecolux [®] 1	Natt-M	ser®22V	Vatt La	пр		Sign a	12/36/20											
18	Medium Bi-Pin		36.0		F2ST8/XL/SPX30/ WM/ECO	24	24000	29000	1925	1810	3000	85	P	\$	~		1,18	101	
	(G13)	ŞZ	36.0	72137	FZST8/XL/SPX3S/ WM/ECO	24	24000	29000	1925	1810	3500	85		\$	-	ļ	1,18	101	<u> </u>
		22	36.0	72138	WM/FC0	24	24600	29000	1925	1810	4100	82	4	5	<u> </u>	<u> </u>	1,18	101	
		22	36.0	72139	F25T8/XL/SPX50/ WM/ECO	24	24000	290000	1900	1785	\$000	80	0	<u> </u>	*		1,18	101	

Rated life for 2 ft through 4 ft Starcoot* Ecolux* Medium Bi-Pin 18 lamps is determined on programmed start bollosts. Life ratings are based on engineering data on programmed start bollosts with lamps cycled every 3 or 12 operating hours, tomp life is opproximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start bollosts as compared to standard instant start bollosts isee chart on page 4-4).



UltraMax® Instant Start Multi-Voltage 120-277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72262 - GE232MAX-L/ULTRA (replaces 49707)

UltraMax® Instant Start Multi-Voltage High-Efficiency 2 or 1 - F32T8 120 to 277 "L" .77 8F UltraMax®

General	charac	ter	istics

General characteristi	😅 मोहिन्सिक्षेत्र भी देहित वस्त्र सुद्धिकार १ त्युक
Ballast Type	Electronic - High-Elficiency Multivalt Instant Start
Storting Method	instantstart
Long Wiring	Porale
Line Voltage Regulation (+/-)	10%
Cose Temperature (MAX)	70°C(158°F)
Bolkost Factor	Low
Power Fuctor Correction	Active
Sound Rating	A120-24 decibels
Additional Info	Anti-striction control Auto-rectar). Thermoly acctacted

Electrical characteristics

Order information

***************************************		7.447.11. 374	
10 Pack	Pallet Puck	DIY Pack	U Peck
72267	72267 Janforge 475461		

Energy-soving high-efficiency instant-start electronic ballost (> 90%)
 Multi-voltage technology handles voltage from 120 to 277v
 UI. Type CC Rating provides protection against arcing in electrical devices
 Active Current Regulation regulates the autput to each Jamp with individual lamp inverter modules

Anti-striction control for better light quality, with no strictions

Cold temperature -22°F Minimum Starting Temperature

Wiring diagram LFL 18 - see example on Page 10-	
Case dimensions - Ref Drawing - A - see Page 10-6	
Lengthill	9.5 in (241 min)
Width(WI	13 in [33 mm]
Height (H)	118 in (30 mm)
Hounting dimensions	
Mount Length M	8.9 in (226 mm)
Mount Width (Kor F)	0.87 in (22 mm)
Mount Stats (MS)	0.3 in (8 mm)
Weight	1.06 lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F3218)	18 ft
Remote Mounting Wire Gouge	18AWG
Leadlengths	Length (s. 1 in)
Block	25 in (635 mm)
Blue	31 in 1787 mml
White	25 in IS35 ment

			······································			- 050	***************************************		equimp)	
Specific		lamp and	wattage -	1 - C.	r Hegysley	de partir et	again a d	i i a ngga		ini o (appyrate)
Lomo	#eflamps	LineVolts	System Watts	Nom. Line Current	System Bailast Factor	Ballast Efficacy Factor	Power Factor% (>=)	Crest Factor (c=)	THD%(c=)	Min, Storting Temp(*F/*C)
		120	49	0.42 A	0.77	1.57	99	1.5	ξ	-22.0/-30
		277	48	0.18 A	0.77	1,60	. 98	1.5	8	-22.0/-30
	11	120	28	0.23A	0.77	2.75	99	1.5	8	-22.0/-30
F3ZT8		277	28	0.11 A	0.17	2.75	95	1.5	17	-27.0/-30
	2	120	97	0.39A	0,78	1.66	99	1.5	5	60.0/16
		277	46	0.17 A	0.78	1.70	96	1.5	9	60.0/16
	<u> </u>	120	27	0.23A	0.78	2.89	99	1.5	В	50.0/16
E3ZIBAVM	11	277	27	0.10A	0.78	2.89	95	1.5	12	60.0/16
		120	43	0.36.A	0.77	1,79	99	1.5	- 6	60.0/16
	ļ	277	43	0.16A	0.77	1.79	98	1.5	9	60.0/16
	<u> </u>	120	₹5	0.21 A	0,77	3.08	99	1.5	В	60.0/16
E\$818		277	25	0.10 A	0.77	3.08	94	1.5	13	60.0/16
		120	38	0.00 A	0.77	2.03	99	1.5	10	60.0/16
		277	38	0.00 A	0.77	2,03	98	15	. 10	60.0/16
		120	22	0.00 A	0,77	3.50	99	15	10	60.0/16
F32TB/2SW	 _ }			0.00 A	0.77	3.50	97	1.5	. 10	60.0/16
	<u> </u>	120	39	0.33 A	0.80	2.05	99	1.5	6	-22.0/-30
] - 7 1	277	9	0.14 A	0.80	2.05	97	1.5	. 10	-22.0/-30
		120	(23)	0.19A	(0.80)	3.48	99	1.5	9	-22.0/-30
F2518		277		0.09A	5.00	3,48	93	1.5	13	-22.0/-30
	1 2	120	77	0.23 A	0.79	293	99	1.5	8	-22.0/-30
	1-2-	277	27	0.10A	0.79	2.93	95	1.5	12	-22.07-30
	<u> </u>	120	17	0.19A	0.79	4,65	99	1,5	11	-27,0/-30
F17T8	 	277	17	0.08 A	0.79	4,65	80	1.5	36	-22.0/-30
		120	21	0.18A	0.78	3.71	99	1.5	9	0.0/-18
	1	277	ZZ	A 90.0	0.78	3.55	93	1.5	13	0.0/-18
	<u> </u>	120	14	0.12 A	0.78	5,57	99	1.5	12	0.0/-18
FE1518	- 	777	15	0.07 A	0.78	5.20	73	1.5	40	0.0/-18
		120	4)	0.35 A	0,80	1.95	99	1.5	6	0.0/-18
	ļ	277	42	0.15.A	0.80	1.95	98	1.5	9	0.0/-18
****	<u>!</u>	120	2 <u>4</u>	0.20A	0.80	3.33	99	1.5	9	0.0/-18
F25112		277	24	A 60'0	0.60	3.33	94	1.5	13	0.07.18

















			000000	370.723												Mess			
			Nemical.													Fectival Minimum		Worning one	
hore	Base	Watts	Length (m)	Code	Description	ÖİV	Sar/Slart	Rated Life (12hr/Start)	in Lo Comers	Lumens	Terr	CRI	High Color Rendering	Energy Savings	Reduced Valtage	Efficiency Standards	FCoV finte	CCVUIII lotces	Additional aformation
	ircoat® L	omps (c	ontinue	d) ^{Okasimas}		524 200 504	en en en en en en en en en en en en en e		weensour	o o o o o o o o o o o o o o o o o o o	and the second	al large and		Section Standard Section Secti		100000			
78 T8	Ecoluk ^e Medium	25	36.0	A5750	F2ST8/SP30/ECO	Z4	20000	7 31000	T 2000	T 2000	T	T	T .	Г	T	ι	Y		7
,.	Bi-Pin	25	36.0	45754	FZ5T8/SP35/ECO	74	20000	24000 24000	2080	1970 1970	3000 3500	78 78	<u>e</u>		├		18	101	
	₹513 }	25	36.0	45756	F2518/SP41/ECO	24	20000	24600	2080	1970	4100	78	-		İ		18	101	
		25	36.0	45753	F25T8/SPX30/ECO	24	20000	24000	2150	2040	3000	85	0				18	101	
ı	/	2 <u>5</u> ~	36.0	-45755 45757	E25T8/SPX35/ECO	24-	70000	24000	2150	2640	3500	86.	~		ļ	ļ	18	101	
18	Ecolux XI		iie	1 43131	FZSTB/SPX41/ECO	74	20000	24000	2150	2040	4100	86	<u>ځ</u>	\$0.87\$4.50 \$0.87\$4.50	l		18	101	
ĭβ	Medium	25	36.0	15486	FZSTR/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78	ANTERNAS CONTRACTOR	ACCEPTANCE OF STREET	T The same of the	(C) 10 (C	18	101	T
	Bi-Pin (G13)	25	36.0	15487	FZST8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	61				18	101	T
ļ		55	36.0	15488	F25TB/XL/SP41/ECO	24	24000	29000	2080	1970	4100	78	ø				18	101	
ĺ		25 25	36.0 36.0	15469 15490	F25T8/XL/SPX30/ECO F25T8/XL/SPX35/ECO	24 74	24000 24000	29000	2150	2040	3000	86	F		 	ļ	18	101	
l		25	36.0	15491	FZ5T8/XL/SPX41/ECO	24	24000	29000 29000	2150 2150	2040	3500 4100	86 86	<i>c</i>		 	<u> </u>	18	101	
ļ		25	36.0	10416	FZ5T8/XL/SPX50/ECO	24	24000	29000	2050	1950	5000	86	6		†	 	18	101	
5000	SECRETARIO DE LA COMP	25	36.0	16314	F2ST8/XL/SPX65/ECO	24	24000	29000	1950	1755	6500	85	R				18	101	
<u> </u>	Ecolux	8		1				receisión T				ī							
18	Medium Bi-Pin	32 32	48.0 48.0	26665 26667	F32T8/SP30/ECO F32T8/SP35/ECO	36 36	30000	36000	2800	2660	3000	78	a			6	18	101	
- 1	(G13)	32	48.0	26668	F32TB/SP41/ECO	36	30000	36000 36000	2800	2660 2660	3500 4100	78 78	60			©	18	101	
1		32	48.0	16090	F32TB/SP50/ECO	36	30000	36000	2750	2610	5000	78	5"			(C)	18 18	101	-
		32	48.0	16091	F32T&/SP65/ECO	35	30000	36000	2700	2565	6500	7B	0		<u> </u>	®	18	101	
- 1		32	48.0	25611	F32T8/SPX30/ECO	36	30000	35000	2950	2800	3000	86	57	·		(E)	18	101	
		32	46.0	25612	F3ZT8/SPX35/ECO	36	30000	36000	2950	2800	3500	86	ę	**********		€	38	101	
1	'	35	48,0	25613	F32T8/SPX41/ECO	36	30000	36000	2950	2800	4100	86	K.F			₽	18	101	
		32	48.0	42064	F3218/5PX50/ECO	36	30000	36000	2800	2660	5000	86	er .	andres especia		(E)	18	101	
3383t 18	Ecolux® XI Medium	Extra: 32	48.0	27616	F32TB/XL/SP30/ECO	36	36000	L	2000	1		1					T T	r	T
"	Bi-Pin	32	48.0	27617	F32T8/XL/SP35/ECO	36	36000	42000 42000	2800 2800	2660 2660	3000 3500	78 78	<i>e</i>		ļ	(F)	18	101	
	(613)	32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4100	78	6			(E)	18 18	101 101	
1		32	48.0	276.19	F32T8/XL/SPX30/ECO	35	36000	42000	2950	2800	3000	66	-			€	18	101	-
-		32	48,0	27620	F3218/XL/SPX35/ECO	36	36000	42000	2950	2800	3500	86	6			(E)	18	101	
		35	48.0	27621	F3ZY&/XL/SPX41/ECO	36	36000	42000	2950	2800	4100	B6	ø			€	18	101	<u> </u>
		32	48.0	16313	F32T8/XL/SPX50/ECO	36	36000	42000	2800	2660	5000	86	e			©	18	101	<u> </u>
	24100042000	32	48.0	16089	F32TB/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85	6 7	703 W. C. C.	and any or the second	©	18	101	
18 E	Colux®Su Medium	32 32	19 Life 48.0	73093	F321B/SXL/SPX30/ECO	36	40000	10000	(6) (1) (1)	1			指表皮		()		r e		
ີ 1	Bi-Pin	32	48.0	73094	F32T&/SXL/SPX35/ECO		40000	46000 46000	2850 2850	2675 2675	3500	84 83	67			<u>©</u>	18	101	
	(G13)	32	48.0	73095	F32T8/SXL/SPX41/ECO		40000	46000	2850	2675	4100	81	e.			(D)	18 18	101	
- {		32	48.0	73095	F32T8/SXL/SPX50/ECO	36	40000	46000	2800	2630	5000	80		*************		6	18	101	
tra E	Energy So	ving T	Lamps								<u> </u>	A					L	L	A
18 E	colux*W	alt-Mis	er* 15 W		p				6.0						Section 1	de la company			
18	Medium Bi-Pin	15	24.0	72132	F1718/XL/SPX3D/ WM/ECO	24	24000	29000	1200	1130	3000	85	e.	s	*-		1,18	101	
-	[G13]	15	24.0	72133	F1718/XL/SPX35/ WM/ECO	24	24000	29000	1200	1130	3580	85	ø	\$	*		1,18	101	
***************************************		15	24.0	72134	F17T8/XL/SPX41/ WM/ECO	24	24000	29000	1200	1130	4100	82	C ²	\$		·•··	1,18	101	
		15	24.0		F17T8/X(/SPX50/ WM/ECO	24	24000	29000	11.75	1105	5000	80	a	\$	7-		1,18	101	
	colux°W										2000			50.650	Called A	(E. 1944)	14.60	10000	
T8	Medium Bi-Pin	22	36.0	72136	F25TB/XL/SPX30/ WM/ECO	24	24000	29000	1925	1810	3000	85	ø	\$		***************************************	1,18	101	
	(613)	25	36.0	72137	F25TB/XL/SPX35/ WM/ECO	24	24000	29000	1925	1810	3500	85	a	\$	¥-	····	1,18	101	
		55	36.0	72138	FZST8/XL/SPX41/ WM/ECO	24	24000	29000	1925	1810	4100	82	ø	š			1,18	101	
	r	22	360	72139	F2518/XL/SPX50/	24	29000	29000							<u> </u>		L		L

Rated life for 2 ft through 4 ft Starcoat® Ecolux® Medium Bi-Pin T8 lamps is determined on programmed start ballasts, Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% langer @ 3 hour starts and 20% larger @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).

UltraMax® Instant Start Multi-Voltage 120-277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78625 - GE432MAX-L/ULTRA (replaces 71725)

UltraMax® Instant Start Multi-Voltage High-Efficiency 4 or 3 - F32T8 120 to 277 "L" .77 BF UltraMax®

General characteristics

Bollost Type	Electronic - High-Efficiency Multivolt Instant Start
Starting Method	lostont stort
Long Wiring	Paratlel
Line Voltage Regulation (-/-)	10%
Ambient Temperature (MAX)	55°C131°FI
Case Temperature (MAX)	70°C(158°F)
Bollast Factor	Low
Power Factor Correction	Active
Sound Rating	A (20-24 decityels)
Additional tale	Anti-Striation control, Auto-restort, Thermally protected

Electrical characteristics

50Hz/60Hz Order information Pailet Pack

DIY Pack

- Energy-saving high-efficiency instant-start electronic ballost (> 90%)
- Multi-vollage technology handles voltage from 120 to 277V
 UL Type CC Roting provides protection against arcing in electrical devices.
- · Anti-striation control for better light quality, with no striations
- Cold temperature -ZZ°F Minimum Starting Temperature UL SSC Ambient Temperature roting

Wiring diagram - LFL 1D - see example on Page 10	
Case dimensions - Ref Drawing -A - see Page 10-6	5
Length(L)	9.5 in (241 mm)
Width (W)	1,7in (43 mm)
Helaht HD	1.18 in [30 mm)
Mounting dimensions	
Mount Length (M)	8,9 in (225 mm)
Mount Width [Kor F]	1.18 in (30 mm)
Mount Siots (MS)	0.3 in (8 mm)
Weight	1.40 ths
Exit Type	Side
Remote Mounting Distance to Lamp (F3278)	18ft
Remote Mounting Wire Goupe	18 AWG
Leadlengths	Length Lini
Blue and Red	34 in (864 mm)
Black	33 in 1787 mm)
White	31 in 1787 mm3
Yellow	39 in 1991 mml

Specifications by lamp and wattage

			*********			74 x 54 x 6	* * * * * * * * * * * * * * * * * * * *		1.5	and the second of the second o
Lomo	#oftemps	tine Volts	Suctembutts	Nom, Line Current	System Ballast-Eactor	Ballast Efficacy Factor	Power Factor% (>∞)	Crest Factor (ca)	THD%(ce)	Min, Starting Temp ("F/"C)
	4	120	ر 97 المبيد 97	0.88 A	077	0.79	99	1.4	10	-27,0/-30
	4	277	96	0.37 A	1977	0.80	98	1,4	10	-22.0/-30
	3	120	84	0,74A	0.88	1.05	99	1,4	10	-22.0/-30
F3218	3	277	83	0.32A	0.68	1.06	97	14	3{)	-22.0/-30
	4	120	92	A 58.0	0.77	0.84	99	1.4	10	50.0/10
	4	277	91	0.35A	9.77	0.85	98	1.4	10	50.0/10
	3	120	72 76	0.68 A	0.83	1.15	99	14	10	50.0/10
3218/WM	<u>j</u>	277		0.29A	0.83	1.09	97	1.4	17	50.0/10
	4	120	85	0.75A	9.77	0.90	99	3.4	10	50,0/10
	4	277	84	0.32 A	0.77	0.92	98	1.4	10	50.0/10
	3	120	68	Q62A	0.81	1,19	99	1.4	10	50.0/10
2818	3	277	67	0.27.A	0.81	1.21	99 97	14	13	50.0/10
	<u> </u>	120	. 77		0,77	1.00	. 99	1,4	10	60.0/16
	44	277	75		0,77	1.03	98	1.4	10	60.0/16
	3	120	- 51		0.61	1.33	99	1.4	10	60.0/16
32TB/25W		277	60		0.81	1.35	97	1.4	10	60.0/16
	4	120	82	0.72 A	0.76	0.93	99	1.4	10	-22.0/-30
	44	277	81	0.31A	0,76	0,94	97	1.4	11	-22.0/-30
	3	120	68	A 92.0	0.83	1.22	99	1.4	10	-22.0/-30
2518	1	277	67	0.26A	0.83	1.79	97	1.4	14	-22.0/-30
	4	120	56	0.5QA	0.8)	1,45	99	1.4	10	-22.64-30
	4	277	56	A55.0	0.81	1.45	96	14	16	-22.0/-30
	3	120	47	D.41 A	0.87	185	99	1.4	10	-22.0V-30
1718	1 3	277	47	0.20A	0.07	1.85	95	1.4	17	-22.0/-30
	4	120	40	0.38 A	0.70	1.59	99	1.4	10	0.0/-18
	4	277	44	0.16A	0.70	1.59	95	1.4	17	0.0/-18
	<u>3</u>	120	36	0.32 A	0.76	2.11	99	1,4	11	0.0/-19
F1578	1 3	277	37	0.16A	0.76	2.05	93	1.4	20	0.0/-18
	1 4	120	82	0.72A	0,70	0.85	99	3.4	10	0.0/-18
	4	277	61	0.31A	0.70	0.86	97	1.4	10	0.0/-18
	3	120	68	0,60A	0.76	1.12	99	lá l	10	0.0/-18
25112	13	277	67	0.76A	0.76	1.13	97	1.4	13	0.0/18

UL Type 1 Outdoor UL Type CC UL Type Ht. FCC - CLASS A Non-Constumer Rolfs Compliant UL Class P ct/Listed UL Listed UL Listed Safety and performance

Fluorescent Lamps

S uib			Nomina Length	Order		Co-e	Keted Life	Rated Life	intal		Color		Hos Colo	Ene/g/	Reduced	Maets Federal Minimum Efficiency		7.7	
TOCH	arcoat ^a L	17 CH2	cantinus	1000	Description	CU.	(Shr/Stort)	(12h //Start).	Lumens	Lines	Тетрк	CRI	Rendering	Solvings	Va loge	Standards	hetas	Notices	information
	Ecoluse	711172 (COMMINE	uj		4 (8)			S0 35 43	0	11.5			765.450.5				and the second	
78	Medium	25	36.0	45750	F2578/SP30/6CO	24	20000	24000	2080	1970	3000	78	60	T T	Ť	T T	18	1	Ť
	Bí-Pin (G13)	25	36.0	45754	F25T8/SP35/ECO	24	20000	24000	2080	1970	3500	78	† •		 		18	101	
	1010)	75	36.0	45756	F2518/SP41/ECO	24	20000	Z4000	2080	1970	4100	78	~		 	 	18	101	
		25	36.0	45753	F25T8/SPX30/ECO	24	20000	24000	2150	2040	3000	86	5.				18	101	
	Ì	25 25	36.0	45755	F2STE/SPX35/ECO	74	20000	24000	Z150	2040	3500	86	σ	ļ	ļ		18	101	
N'TR	L Ecolux®X		36.0	45757	FZSTB/SPX41/ECO	24	20000	24000	2150	2040	4100	85	e e		100 VALUE OF THE SAME		18	101	
18	Medium	25	36.0	15085	FZSTB/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78	1010000000			T TOTAL STATE		T	
	Bi-Pin (613)	25	36.0	15487	FZST8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	- E-		╬		18	101	
	torsi	25	36.0	15488	F2518/XU/SP41/ECO	24	24000	29000	2080	1970	4100	78	6)		 		18	101	
		25	36,0	15489	F25TB/XL/SPX30/ECO	24	24000	29000	2150	2040	3000	86	0		İ		18	101	
	į	25	36.0	15490	FZSTB/XL/SPX3S/ECO	24	2400G	29000	2150	2040	3500	86	a				18	101	
		25	35.0	15491	FZ5TB/XL/SPX41/ECO	24	24000	29000	2150	2040	4100	86	es.		ļ		18	101	
		25 25	36.0 36.0	10416 16314	F2ST8/XL/SPX50/ECO F2ST8/XL/SPX6S/ECO	24 24	24000 24000	29000 29000	2050 1950	1950	5000	85 85	0		 	ļ	18	101	<u> </u>
418	Ecolux				Trestand 3 Novice	1 24	1 24000	1 23000	1950	1755	6500	1 92	<u> </u>			i Signifika	18	101]
78	Medium	32	48.0	26666	F32T8/SP30/ECO	36	30000	36000	2800	2660	3000	78	P	14506100-9500		©	18	101	T
	61-Pin (613)	32	48.0	26667	F3218/SP35/ECO	36	30000	36000	2800	2650	3500	78	577	 	 	©	18	101	
	10207	32	48.0	26658	F32T8/SP41/ECO	36	30000	36000	2800	2660	4100	78	Ø		 	(8)	18	101	
		32	48.0	16090	F32T8/SP50/ECO	36	30000	36000	2750	2610	5000	78	150			©	18	101	
		32	48.0	16091	F32Y8/SP6S/ECO	36	30000	36000	2750	2565	6500	78	0			<u>©</u>	18	101	
	-	32	48.0	25611	F32T8/SPX30/ECO	36	30000	36000	2950	2800	3000	86	6		1	0	18	101	
	,	_3?~_	48,0	25612	F3218/SPX35/ECO	-36	30000	36000	~2950 ~	2000	-3580~	86				©	18	101	
	(32	48.0	25613	F32TB/SPX41/ECO	36	30000	36000	2950	2800	4100	86	K ^C	1		©	18	101	
1070253	7	-12	48.0	42064	F3218/SPX50/ECU	35	30000	36000-1	5800	26/60	-5000	86-			<u></u>	₽	18	101	
74218: T8	Ecolux®XI Medium	32 32	Me 48.0	3370	CZZTRAN KOJA KOO		T			T					24 54 55 S				
10	Gi-Pin	32	48.0	27616 27617	F3ZTB/XL/SP30/ECO F3ZTB/XL/SP35/ECO	36 36	36000 36000	42000	2800	2660	3000	78	e	 	 	⊕	18	101	_
	(G13)	32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000 42000	2800 2800	2660 2660	3500 4100	78	0	 			18	101	
		32	48.0	27619	F32Y8/XL/SPX30/ECO	36	36000	42000	2950	2800	3000	78 86	62	ļ	ļ	©	18	101	
		32	48.6	27620	F32Y8/XU/SPX35/ECO	36	36000	42000	2950	2800	3500	86	6		 	€ €	18	101	
		32	48,0	27621	F3218/XL/SPX41/ECO	36	36000	42000	2950	2800	4100	86	0		!	(B)	18	101	
		32	48.0	16313	F32T8/XL/SPX50/ECO	36	36000	42000	2800	2660	5000	86	~			©	18	101	
		32	48.0	16089	F32T8/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85			 	6	18	101	
438	Ecoluic [®] Su	per Lo	ng Life 🐰		and the Society						0.50				ON ALE CASES	5.650		C 60 + 51 1	
T8	Medium	35	48.0	73093	F32T8/SXL/SPX30/ECO	36	40000	46000	2850	2675	3000	84	677			0	18	101	39 303 00 300 300
	Bi-Piq (G13)	32	480	73094	F3518/SXL/SPX35/ECO	36	48000	46000	2850	2675	3500	83	sc.			©	18	101	
		32	48.0	73095	F32TB/SXL/SPX41/ECO	36	40000	46000	7850	2675	4100	81	Ø			©	18	101	
		32	48.0	73096	F32T8/SXL/SPX50/ECO	35	40000	46000	2800	2630	5000	80	€*			©	18	101	
2000	Energy So	eas near	Carried Street, and a second						anemine.			····		·					
***************************************			***************************************		P.														
T8	Medium Bi-Pin	15	24.0	72132	F17T8/XIJ/SPX30/ WM/ECO	24	24000	29000	1200	1130	3000	85	27	\$	*		1,18	101	
	(613)	15	24.0	72133	F17T8/XL/SPX35/ WM/ECO	24	24000	29000	1200	1130	3500	85	e	5	*		1,18	101	
		15	24.0		F17T8/XL/SPX41/ WM/ECO	24	24000	29000	1200	1130	4100	82	67	\$	•	-	1,18	101	
Ì		15	24:0		F17T8/XL/SPX50/	24	24000	29000	1175	1105	5000	80	ø	\$	*		1,18	101	
3 18	Ecolux®1W	itt Mis	e# 27 W		WM/ECO						VIII 100 - 100						2003		
78	Medium	22	35.0		FZ5T8/XL/SPX30/	24	24000	29000	1925	1810	3000	85	2 P	\$	-		120	101	
	Bi-Pin (G13)				WM/ECO					2040	2244			,			1,38	101	<u></u>
	(CTO)	22	35,0		FZSTB/XL/SPX3S/ WM/ECO	24	24000	29000	1925	1810	3500	85	ø	\$	•-		1,18	101	
		22	36.0		F2STB/XL/SPX41/ WM/ECO	24	24000	29000	1925	1510	4100	87	ø	\$	*		1,18	101	
l		55	36.0		FZST&/XL/SPXSQ/ WMVECO	24	24000	29000	1900	1785	5000	80	_K N	\$	*		1,18	101	

Rated life for 2 ft through 4 ft Starcoat® Ecokus® Medium BI-Pin T8 lomps is determined on programmed start ballosts. Life ratings are based on engineering data on programmed start ballosts with lamps cycled every 3 or 12 operating hours. Lomp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballosts (see chart on page 4-4).

UltraMax® Instant Start Multi-Voltage 120-277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72266 - GE232MAX-N/ULTRA (replaces 49772)

UltraMax® Instant Start Multi-Voltage High-Efficiency 2 or 1 - F32T8 120 to 277 "N" .87 BF UltroMax®

General characteristics

Ballast Type	Electronic - High-Efficiency Multivoll Instant Start
Storting Method	Instant stori
Lomp Wiring	Parollel
Line Voltage Regulation (+/-)	10%
Case Temperature IMAXI	70°C(158°F)
Bollost Factor	Normal
Power Factor Correction	Active
Sound Roling	A (20-24 decibets)
A d Palacul fold	Anti-chanting control Auto-cortact Thorough, protocted

Electrical characteristics

Supply Current Enequency

Order information

10 Pock	Pollet Pock	D)Y Pack	JP Pack
72766	77757 keninges 310521	i	

Energy-saving high-efficiency instant-start electronic ballast (> 90%)
 Multi-voltage technology handles voltage from 120 to 277V

Ut 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-striction control for better light quality, with no strictions

Cold temperature -22°F Minimum Starting Temperature

Dimensions

Wiring diagram – LFL 18 – see example on Page 10	
Case dimensions - Ref Drawing - A - see Page 10-5	<u> </u>
length (U	9,5 in (24) mm)
Width(W)	1.3 in 153 mm)
Height (H)	1.18 in (30 mm)
Mounting dimensions	
Mount Length IMI	8,9 in (226 mm)
Mount Width IX or FI	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.061bs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	181
Remote Mountino Wire Gauge	18 AWG
Leod lengths	Length (± 1 in)
Red	1 37 in (940 mm)
While	25 in (635 mm)
Block	25 in (635 mm)
Blue	31 in(787 mm)

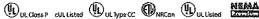
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omp	Foftomps	Line Voits	System3Vetts	Nom, Line Current	System Bullast Fligter	Ballast Efficacy Factor	Power Foctor%(>=)	Crest Factor (c=)	THD% (<=)	Min. Starting Temp (*F/*C)
XYOAS-	2	120	54	0,47 A	0.87	1.61	99	1.5	5	-22.0/-30
	Z	277		0.70A	0.87	1.64	99	1.5		-22.0/-30
	1	056	31	0.26A	0.87	2.81	99	15	7	-22,0/-30
F32T8	1	277	31	0.12A	0.87	2.81	95	1.5	12	-22.0/-30
	2	120	53	0.45A	0.86	1,66	99	1.5	5	60,0/16
	2	277	52	0.19 A	0.80	1.69	99	1.5	8	60.0/16
	i	120	29	0.24 A	0.88	3,03	99	1.5	7	60.0/16
F32T8/WM	1	277	30	D.11A	0.88	2,93	96	1.5	12	60.0/16
	2	120	49	0.41A	0.87	1.78	99 98	1.5	4	50,0/16
	2	277	48	D.18A	0.87	1.81		1.5	8	600/16
	1	120	28	0.23A	0.87	3.11	99	1.5		60.0/16
F2818	1	277	28	0.11A	0.87	3.11	95	1.5	33	50.0/16
***************************************	2	120	. 44	0.00A	0.87	1.98	99	1.5	10	60.0/16
	2	277	43	0.00 A	0.87	2.02	98	1.5	10	60.0/16
	1	120	25	0.00 A	0.87	3.48	99	1.5	10	60.0/16
E3210/25W	1	277	25	000A	0.87	3.48	97	15	10	60.0/16
	2	120	45	Q38A	0.93	2.07	99	1.5	6	-22.0/-30
	2	277	45	0.16A	0.93	2,07	98	1.5	10	-22.0/-30
	1	120	25	0.21A	0.93	3,72	99	1.5	88	-77,07-30
FZ5TB	1	277	26	0.98 A	6.93	3.58	94	1.5	13	-22.0/-30
Indicate the second	Z	120	32	0.27A	0.92	2,88	99	1.5	<u></u>	-22.0/-10
	2	277	32	0.12A	0.92	2.88	96	1.5	13	-22.0/-30
	1	120)9	0.16A	0.97	<u>4.84</u>	99 87	3.5	9	-52.0/-30
F1778	1	277	19	0.08A	0.92	4.84		2.5	16	-22.0/-30
	2	120	25	0.21A	0.91	3.64	99	1.5	88	-\$2.0/-30
	2	277	25 25	0.97 A	0.91	3.64	95	1.5	16	-22.0/-30
	ī	120	15	0.13A	0.91	6.07	99	1.5	1)	-52.0/-30
FE1518	1 1	277	16	0.08A	0.91	5,69	78	1.5	40	-22,07-30
	2	120	48	0.40 A	0.93	1.94	99	15	5	0.0/-18
	5	277	47	0.17A	0.93	1.98	98	1.5	9	0.0/-18
	1	120	26	0.22A	0.93	3.58	99	1.5	7	0.0/-18
F25T12	1	277	27	AOLO	0.93	344	95	1.5	<u>1 13 </u>	0.0/-18

Safety and performance



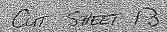












The column The				11-53	(5,45)												Peels			
Second S				Nominal	Cr4=			Soled 1 fo									Federal Distribute		Warning and	
	Store	Bose	Value	White	Crite	Description	Obj	(3hr/stern)		tonens	Unite	Terro K	CF	Rendering	Savings	Warrage	Standards	100	loures	Information
B Medius 23 350 850 12890579000 24 2500 2000			amps (c	continue	d)		59855	3050000	250 550 950	-SALONS-65	WANGES A	Salatin Joseph	公司	SA SSNANO	Cara la compa		450000000000000000000000000000000000000	anhoutes		
Fig. 1			25	360	45750	E2538/SP30/ECO	26	20000	26000	2080	1070	7000	70	T "		1	ſ	1 ,,	T	T
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23.00 25.0		(013)	25	36.0	45756	FZ518/SP41/ECO	24						+						†	
The Control						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		20000	24000	2150	2040	3000	86	10				18	101	
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Professor 15					•			 		{ -	+		·						ŧ	ļ
25 360 3900 1753 175		(013)	25	36.0	15488	FZSTB/XL/SP41/ECO	24	24030		2080		 	4		***************************************	***************************************			ţ	<u> </u>
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State			32	48.0	26667	F32T8/SP35/ECO	36	30000	36000	2800	2660	3500	78	0	l				 	
22 48.0 16091 Figures/resisted 56 30000 35000 2700 2855 6600 78 ab 0 18 101			32	48,0	26668	F3Z18/SP43/ECO	36	30000	36000	2800	2660	4100	78	623			(E)	18	101	
22 48.0 2561 F32R8SPRIGECO 54 3000 3500 255 2800 3000 85 e			35	48.0	16090	F32T8/SP50/ECO	36	30000	36000	2750	2610	5000	78	¢1			©	18	103	
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32 48.0 27639 \$2389\(LSPANJSPSSO)/ECC) 36 36000 42000 2950 2800 3500 86 \(\cdots \)		leyen	32	48.0	27618		 	 				 		 	<u> </u>		ļ	ļ		
32 48.0 27620 F32180/LSPN3/ECO 36 36000 42000 2950 2800 4100 86 er © 18 101			32	48.0	27619	F32TB/XL/SPX30/ECO	36	36000		 		}	_				·			
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32 480 15313 FIZIR/NL/SPKS/FCO 36 36000 42000 2750 2475 6500 86 47 (2) 18 101			32	48.0	27621	F32TB/XL/SPX41/ECO	36	35000	42000	2950	2800	4100	86	er.				18		
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TB	Ultra	Enaranca			73030	racid/axidarxau/gco	38	40000	46000	7800	2630	5000	80	€′			(£)	18	101	<u> </u>
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15 24.0 72135 F178RVLSPXSO/ 24 24000 29000 1175 1105 5000 80						WINVECO												<u> </u>		
3.19 Fc0line*Wort:-Miser* 22 Watt-Lamp: T8						WM/ECO			~		~							ļ		
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Si-Pin					,	***************************************										10000				
22 36.0 72138 F2518/M15PX50/ 24 24000 29000 1925 1810 4100 82 5 5 1,18 101 22 36.0 72138 F2518/M15PX50/ 24 24000 29000 1925 1810 4100 82 5 5 1,18 101 22 36.0 72139 F2518/M15PX50/ 24 24000 29000 1900 1785 5000 80 60 5 5 1 18 100	19	8l-Pin				WM/ECO				1925	1815	3000	85	Ø	\$	*8		1,18	101	
22 36.0 72139 F2STRX/L/SPXSO/ 24 24000 29000 1900 1785 5000 80 & 5 - 118 100		17471				WINVECO	***********			1925	1810	3500	85	Ø	\$	-		1,18	101	
						WWECO						4160	82	67	\$	*-		1,18	101	
			55	35.0	72139		24	24000	29000	1900	1785	5000	80	a	5	-		1,18	101	

Rated life for 2 ft through 4 ft Starcaat® Ecokux® Medium B)-Pin TB lamps is determined on programmed start ballasts, tife ratings are based on engineering data on programmed start balkasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start balkasts (see chart on page 4-4).

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in

Case No(s). 11-3686-EL-EEC

Summary: Application of The Cleveland Electric Illuminating Company and Discount Drug Mart, Inc. to Commit Energy Efficiency/Peak Demand Reduction Programs electronically filed by Mr. Kevin P. Shannon on behalf of The Cleveland Electric Illuminating Company