

ULTim[®]

A Triad[®] Brand 8



Universal Lighting's ULTim8 high efficiency ballast family provides maximum energy savings for T8 lighting systems. As energy rates continue to rise, a strategy of maximizing lighting efficiency with ULTim8 ballasts provides a quick payback for knowledgeable investors. Our full family of high performance T8 ballasts can cut energy bills by 40% compared to T12 systems and up to 6% versus standard electronic T8 ballasts.



Upgrading to ULTim8 pays for itself!

Maximize Energy Savings With A Lighting Retrofit

The cost of electricity accounts for 87 cents out of every lighting dollar. ULTim8 ballasts drive those costs down because they consume up to 6 fewer input watts than standard electronic ballasts. The wattage savings alone pays for the ballast over its minimum life expectancy. When combined with new energy saving lamps, ULTim8 can reduce energy consumption by 60 watts or more when retrofitting a 4-Lamp T12 fixture. With ULTim8, you can document exceptional energy savings on all your retrofit jobs!



“EL” Features & Benefits

- .77 ballast factor
- Designed for maximum efficiency
- Parallel lamp operation
- THD < 10%
- Same wiring and mounting footprint as conventional ballasts for installation ease.
- Auto-restrike as a standard feature
- Anti-striation control

LOW POWER LIGHT LEVEL SYSTEMS

“EL” family (.77 Ballast Factor)

Ballast Type		Lamp Type			120 volt Input Watts			277 volt Input Watts		
		2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp
Magnetic-Energy Savings	F40T12/ES (34 Watt)	74	118	148	74	118	148	74	118	148
Electronic-Standard	F32T8	51	76	100	51	76	98	51	76	98
ULTim8 “EL”	F32T8	47	70	95	47	70	93	47	70	93
The ULTim8 HIGH EFFICIENCY BALLAST INCREMENTAL SAVINGS		4	6	5	4	6	5	4	6	5
HIGH EFFICIENCY RETROFIT ENERGY SAVINGS		27	48	53	27	48	55	27	48	55

Additional Options with the F32T8/ES (30 Watt Lamp)

Ballast Type		Lamp Type			120 volt Input Watts			277 volt Input Watts		
		2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp
ULTim8 “EL”	F32T8/ES (30 Watt)	44	66	89	44	65	87	44	65	87
30W HIGH EFFICIENCY LAMP & ULTim8 BALLAST INCREMENTAL SAVINGS		7	10	12	7	11	11	7	11	11

Additional Options with the new F28T8 Lamp

Ballast Type		Lamp Type			120 volt Input Watts			277 volt Input Watts		
		2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp
ULTim8 “EL”	F28T8	41	62	83	41	61	81	41	61	81
28W HIGH EFFICIENCY LAMP & ULTim8 BALLAST INCREMENTAL SAVINGS		10	14	17	10	15	17	10	15	17

Additional Options with the new F32T8/ES (25 Watt Lamp)

Ballast Type		Lamp Type			120 volt Input Watts			277 volt Input Watts		
		2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp	2 Lamp	3 Lamp	4 Lamp
ULTim8 “EL”	F32T8/ES (25 Watt)	37	56	74	37	56	72	37	56	72
25W HIGH EFFICIENCY LAMP & ULTim8 BALLAST INCREMENTAL SAVINGS		14	20	26	14	20	26	14	20	26

NOTE: The .77 Ballast Factor, “EL” family provides slightly higher lumen levels than a magnetic ballast operating the energy saving 34 watt T12 lamp.

4-LAMP SYSTEM LUMEN COMPARISON WITH “EL” FAMILY

Lamp Type	Rated Lamp Lumens		Ballast Factor	Watts	Mean System Lumens	Relative Mean System Lumens	Energy Savings (Watts)
	Initial	Mean					
ENERGY SAVING ELECTROMAGNETIC BALLAST							
F40T12/ES (34W)	2650	2280	0.89	148	8,117	100%	0
ULTim8 BALLAST							
F32T8 700 Series	2850	2710	0.77	93	8,347	103%	55
F32T8 High Lumen	3100	2945	0.77	93	9,071	112%	55
F32T8/ES (30W)	2850	2679	0.77	87	8,251	102%	61
F32T8 (28W)	2725	2562	0.77	81	7,889	97%	67
F32T8/ES (25W)	2400	2280	0.77	72	7,022	87%	76

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All specification information is subject to change without notification.
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The Right Choice for New Construction

Out ULTim8 full light output systems offer the high ballast factor that's ideal for new construction jobs.

- .87 (HE) and 1.18 (HEH) ballast factor options
- Designed for maximum efficiency
- Parallel lamp operation
- THD < 10%
- Same wiring and mounting footprint as conventional ballasts for installation ease
- Auto-restrike as a standard feature
- Anti-striation control

What Does One Watt Cost You?

Yearly Hours Of Operation	Utility Rate (Costs per Kwh)					
	0.06	0.08	0.10	0.12	0.16	.020
3,000	\$0.18	\$0.24	\$0.30	\$0.36	\$0.48	\$0.60
3,500	\$0.21	\$0.28	\$0.35	\$0.42	\$0.56	\$0.70
4,000	\$0.24	\$0.32	\$0.40	\$0.48	\$0.64	\$0.80
4,500	\$0.27	\$0.36	\$0.45	\$0.54	\$0.72	\$0.90
5,000	\$0.30	\$0.40	\$0.50	\$0.60	\$0.80	\$1.00
6,000	\$0.36	\$0.48	\$0.60	\$0.72	\$0.96	\$1.20
7,000	\$0.42	\$0.56	\$0.70	\$0.84	\$1.12	\$1.40
8,760	\$0.53	\$0.70	\$0.88	\$1.05	\$1.40	\$1.75

To determine what one watt costs you annually, find your local Kwh rate on a recent utility bill and multiply by your annual operating hours.

6 Watts Saved per Ballast*	Additional Energy Savings With ULTim8 Ballasts — versus — Standard Electronic Ballast With F32T8 Lamps				
	KWH Rate	Operating Hours		60,000 Hour Savings**	
		\$0.18	\$0.24	\$0.30	
3,500	\$0.21	\$0.28	\$0.35		\$0.42
4,000	\$0.24	\$0.32	\$0.40		\$0.48
4,500	\$0.27	\$0.36	\$0.45		\$0.54
5,000	\$0.30	\$0.40	\$0.50		\$0.60
6,000	\$0.36	\$0.48	\$0.60		\$0.72
7,000	\$0.42	\$0.56	\$0.70		\$0.84

In addition to the savings you'll enjoy from retrofitting to electronic T8 lamps, saving 6 watts with our ULTim8 ballast actually **PAYS FOR THE BALLAST!**

* 4 Lamp 120 volt ULTim8 Ballast saves 6 watts per ballast versus standard Electronic Ballast

** 60,000 Hours represents a minimum rated life expectancy

STANDARD LIGHT LEVEL SYSTEMS

"HE" family (.87 Ballast Factor)

Ballast Type	Lamp Type
Electronic Standard	F32T8
ULTim8 "HE"	F32T8
The ULTim8 HIGH EFFICIENCY BALLAST INCREMENTAL SAVINGS	

120 volt Input Watts		
2 Lamp	3 Lamp	4 Lamp
58	86	112
54	80	106
4	6	6

277 volt Input Watts		
2 Lamp	3 Lamp	4 Lamp
58	86	110
53	79	105
5	7	5

Additional Options with the F32T8/ES (30 Watt Lamp)

Ballast Type	Lamp Type
ULTim8 "HE"	F32T8 (30 Watt)
30W HIGH EFFICIENCY LAMP & ULTim8 BALLAST INCREMENTAL SAVINGS	

51	76	100
7	10	12

50	75	99
8	11	11

Additional Options with the new F28T8 Lamp

Ballast Type	Lamp Type
ULTim8 "HE"	F28T8
28W HIGH EFFICIENCY LAMP & ULTim8 BALLAST INCREMENTAL SAVINGS	

48	72	94
10	14	18

47	71	93
11	15	17

How to calculate energy savings

$$\begin{matrix} \text{Number of} \\ \text{watts saved} \end{matrix} \times \begin{matrix} \text{annual hrs.} \\ \text{of operation} \end{matrix} = \begin{matrix} \text{Total savings} \\ \text{per fixture} \end{matrix}$$

1,000 (watts per kilowatt)

$$\begin{matrix} \text{Savings} \\ \text{per fixture} \end{matrix} \times \begin{matrix} \text{number of} \\ \text{fixtures storewide} \end{matrix} = \begin{matrix} \text{Annual facility} \\ \text{savings} \end{matrix}$$

For a large retail store

$$\begin{matrix} 60 \text{ watts} \\ \text{saved} \end{matrix} \times \begin{matrix} 4,000 \text{ hrs.} \end{matrix} \times \begin{matrix} 10\text{c} \\ \text{per Kwh} \end{matrix} = \begin{matrix} \$24 \text{ saved per} \\ \text{fixture annually} \end{matrix}$$

1,000 (watts per kilowatt)

$$\begin{matrix} \$24 \text{ per} \\ \text{fixture} \end{matrix} \times \begin{matrix} 500 \\ \text{fixtures} \end{matrix} = \begin{matrix} \$12,000 \text{ annual} \\ \text{facility savings} \end{matrix}$$



Savings Comparison Chart

	Standard F32T8 Lamps (Input Watts)		F32T8/ES 30W Lamps (Input Watts)	F28T8 28W Lamps (Input Watts)	F32T8/ES 25W Lamps (Input Watts)	Universal Lighting Technologies Catalog Numbers
	Standard Electric	ULTim8 Universal Voltage	ULTim8 Universal Voltage	ULTim8 Universal Voltage	ULTim8 Universal Voltage	ULTim8 Universal Voltage
LOW POWER (.77 B.F.)						
1L-120V	27	25	24	22	20	B132IUNVEL-N
1L-277V	27	25	24	22	20	
2L-120V	51	49	47	43	39	B232IUNVEL-N
2L-277V	51	49	47	42	38	
3L-120V	76	74	70	66	58	B332IUNVEL-A
3L-277V	76	73	69	65	57	
4L-120V	100	97	91	85	75	B432IUNVEL-A
4L-277V	98	96	90	84	73	
STANDARD LIGHT OUTPUT (.87 B.F.)						
1L-120V	30	28	26	24	23	B132IUNVHE-N
1L-277V	32	28	26	24	23	
2L-120V	58	55	53	48	43	B232IUNVHE-N
2L-277V	58	55	51	46	42	
3L-120V	86	83	79	75	66	B332IUNVHE-A
3L-277V	86	81	77	73	65	
4L-120V	112	109	103	97	87	B432IUNVHE-A
4L-277V	110	106	100	94	85	
HIGH LIGHT OUTPUT (1.18 B.F.)						
2L-120V	77	74	69	65	59	B232IUNVHEH-A
2L-277V	77	72	67	63	58	
4L-120V	—	150	135	124	116	B432IUNVHEH-E
4L-277V	—	146	132	122	114	
3L-347V	110	110	102	94	88	B332IHRVHB-E
3L-480V	109	109	101	94	88	

Choosing the Right High Efficiency Lamp/Ballast System

Here are the key considerations in selecting your Lamp/Ballast System

- **Maintain Existing Light Levels of 34 Watt T12 System**
 - Install the .77 Ballast Factor (EL) with standard F32T8 or F32T8/ES (30 watt) or F28T8 Lamps
- **Energy Savings for New Construction**
 - Specify .87 Ballast Factor (HE)
 - Install high lumen lamps for maximum light output
 - Install 30 watt, 28 watt or 25 watt lamps for additional energy savings
- **High Ballast Option--1.18 (HEH)**
 - Ideal for high lumen, fluorescent fixtures
 - Maximizes energy savings in de-lamp retrofits

It's EASY to REACH US...



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