

# ULTim<sup>®</sup>

A Triad<sup>®</sup> 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!



## “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
- Meets new CEE/NEMA high performance T8 lighting ballast specifications

## 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!

### LOW POWER LIGHT LEVEL SYSTEMS “EL” family (.77 Ballast Factor)

| Ballast Type  | Lamp Type           | Model Number* | 120 volt Input Watts |           |           | 277 volt Input Watts |           |           |
|---|---------------------|---------------|----------------------|-----------|-----------|----------------------|-----------|-----------|
|   |                     |               | 2 Lamp               | 3 Lamp    | 4 Lamp    | 2 Lamp               | 3 Lamp    | 4 Lamp    |
| Magnetic-Energy Savings   | F40T12/ES (34 Watt) | 2 x 34 Watt   | 74                   | 118       | 148       | 74                   | 118       | 148       |
| Electronic-Standard   | F32T8               | Bx32lyyyL-A   | 51                   | 76        | 100       | 51                   | 76        | 98        |
| ULTim8 “EL”   | F32T8               | Bx32lyyyEL    | 47                   | 70        | 95        | 47                   | 70        | 93        |
| <b>The ULTim8 HIGH EFFICIENCY BALLAST INCREMENTAL SAVINGS ➡</b> |                     |               | <b>4</b>             | <b>6</b>  | <b>5</b>  | <b>4</b>             | <b>6</b>  | <b>5</b>  |
| <b>HIGH EFFICIENCY RETROFIT ENERGY SAVINGS</b>                  |                     |               | <b>27</b>            | <b>48</b> | <b>53</b> | <b>27</b>            | <b>48</b> | <b>55</b> |

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

|  |                    |            |          |           |           |          |           |           |
|--|--------------------|------------|----------|-----------|-----------|----------|-----------|-----------|
| ULTim8 “EL”  | F32T8/ES (30 Watt) | Bx32lyyyEL | 44       | 66        | 89        | 44       | 65        | 87        |
| <b>30W HIGH EFFICIENCY LAMP &amp; ULTim8 BALLAST INCREMENTAL SAVINGS ➡</b> |                    |            | <b>7</b> | <b>10</b> | <b>12</b> | <b>7</b> | <b>11</b> | <b>11</b> |

#### Additional Options with the new F28T8 Lamp

|  |       |            |           |           |           |           |           |           |
|--|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| ULTim8 “EL”  | F28T8 | Bx32lyyyEL | 41        | 62        | 83        | 41        | 61        | 81        |
| <b>28W HIGH EFFICIENCY LAMP &amp; ULTim8 BALLAST INCREMENTAL SAVINGS ➡</b> |       |            | <b>10</b> | <b>14</b> | <b>17</b> | <b>10</b> | <b>15</b> | <b>17</b> |

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

|  |                    |            |           |           |           |           |           |           |
|--|--------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| ULTim8 “EL”  | F32T8/ES (25 Watt) | Bx32lyyyEL | 37        | 56        | 74        | 37        | 56        | 72        |
| <b>25W HIGH EFFICIENCY LAMP &amp; ULTim8 BALLAST INCREMENTAL SAVINGS ➡</b> |                    |            | <b>14</b> | <b>20</b> | <b>26</b> | <b>14</b> | <b>20</b> | <b>26</b> |

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

\*For model numbers: X= 2,3, or 4 for the quantity of lamps yyy=120 or 277for the input voltage

### 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 |                |       |                    |                             |                        |
| <b>ENERGY SAVING ELECTROMAGNETIC BALLAST</b> |                   |      |                |       |                    |                             |                        |
| F40T12/ES (34W)                              | 2650              | 2280 | 0.89           | 148   | 8,117              | 100%                        | 0                      |
| <b>B432I277EL ULTim8 BALLAST</b>             |                   |      |                |       |                    |                             |                        |
| 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                     |



The National Electrical Manufacturers Association established the NEMA Premium® Ballast Program in accordance with standards established by the Consortium for Energy Efficiency (CEE). Universal Lighting Technologies is among the charter members of the ballast program offering products that represent the best energy-saving products.

# 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
- Meets new CEE/NEMA high performance T8 lighting ballast specifications

# 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.

| 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 | Model Number* |
|---|-----------|---------------|
| Electronic Standard   | F32T8     | Bx32lyyyRHA   |
| ULTim8 "HE"   | F32T8     | Bx32lyyyHE    |
| <b>The ULTim8 HIGH EFFICIENCY BALLAST INCREMENTAL SAVINGS</b> → |           |               |

| 120 volt Input Watts |        |        | 277 volt Input Watts |        |        |
|----------------------|--------|--------|----------------------|--------|--------|
| 2 Lamp               | 3 Lamp | 4 Lamp | 2 Lamp               | 3 Lamp | 4 Lamp |
| 58                   | 86     | 112    | 58                   | 86     | 110    |
| 54                   | 80     | 106    | 53                   | 79     | 105    |
| 4                    | 6      | 6      | 5                    | 7      | 5      |

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

|  |                 |            |
|--|-----------------|------------|
| ULTim8 "HE"  | F32T8 (30 Watt) | Bx32lyyyHE |
| <b>30W HIGH EFFICIENCY LAMP &amp; ULTim8 BALLAST INCREMENTAL SAVINGS</b> → |                 |            |

|    |    |     |    |    |    |
|----|----|-----|----|----|----|
| 51 | 76 | 100 | 50 | 75 | 99 |
| 7  | 10 | 12  | 8  | 11 | 11 |

Additional Options with the new F28T8 Lamp

|  |       |            |
|--|-------|------------|
| ULTim8 "HE"  | F28T8 | Bx32lyyyHE |
| <b>28W HIGH EFFICIENCY LAMP &amp; ULTim8 BALLAST INCREMENTAL SAVINGS</b> → |       |            |

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 48 | 72 | 94 | 47 | 71 | 93 |
| 10 | 14 | 18 | 11 | 15 | 17 |

\*For model numbers: X=2,3, or 4 for the quantity of lamps yyy=120 or 277 for the input voltage

### Here's how to calculate energy savings

Number of watts saved x annual hrs. of operation x Energy cost = Total svgs. per fixture  
 1,000 (watts per kilowatt)

Savings per fixture x number of fixtures storewide = annual facility savings

### For a large retail store

60 watts saved x 4,000 hrs. x \$0.10 per Kwh = \$24 saved per fixture annually  
 1,000

\$24 per fixture x 500 fixtures = \$12,000 annual facility savings



# Savings Comparison Chart

| Standard F32T8 Lamps<br>(Input Watts) |                             |                             |
|---------------------------------------|-----------------------------|-----------------------------|
| Standard Electric                     | ULTim8<br>Universal Voltage | ULTim8<br>Dedicated Voltage |

| F32T8/ES<br>30W Lamps<br>(Input Watts) |                             |
|--|-----------------------------|
| ULTim8<br>Universal Voltage            | ULTim8<br>Dedicated Voltage |

| F28T8<br>28W Lamps<br>(Input Watts) |                             |
|-------------------------------------|-----------------------------|
| ULTim8<br>Universal Voltage         | ULTim8<br>Dedicated Voltage |

| F32T8/ES<br>25W Lamps<br>(Input Watts) |                             |
|--|-----------------------------|
| ULTim8<br>Universal Voltage            | ULTim8<br>Dedicated Voltage |

| Universal Lighting Technologies<br>Catalog Numbers |                             |
|--|-----------------------------|
| ULTim8<br>Universal Voltage                        | ULTim8<br>Dedicated Voltage |

## LOW POWER (.77 B.F.)

|         |     |    |    |
|---------|-----|----|----|
| 1L-120V | 27  | 25 |    |
| 1L-277V | 27  | 25 |    |
| 2L-120V | 51  | 48 | 47 |
| 2L-277V | 51  | 48 | 47 |
| 3L-120V | 76  | 74 | 70 |
| 3L-277V | 76  | 73 | 70 |
| 4L-120V | 100 | 97 | 95 |
| 4L-277V | 98  | 96 | 93 |

|    |    |
|----|----|
| 23 |    |
| 23 |    |
| 46 | 44 |
| 46 | 44 |
| 70 | 66 |
| 69 | 65 |
| 91 | 89 |
| 90 | 87 |

|    |    |
|----|----|
| 21 |    |
| 21 |    |
| 43 | 41 |
| 43 | 41 |
| 66 | 62 |
| 65 | 61 |
| 85 | 83 |
| 84 | 81 |

|     |    |
|-----|----|
| 20  |    |
| 20  |    |
| 39  | 37 |
| 38  | 37 |
| 58  | 56 |
| 57  | 56 |
| N/A | 74 |
| N/A | 72 |

|                |                          |
|----------------|--------------------------|
| B132IUNVEL - A |                          |
| B232IUNVEL - A | B232I120EL<br>B232I277EL |
| B332IUNVEL - A | B332I120EL<br>B332I277EL |
| B432IUNVEL - A | B432I120EL<br>B432I277EL |

## STANDARD LIGHT OUTPUT (.87 B.F.)

|         |     |     |     |
|---------|-----|-----|-----|
| 1L-120V | 30  | 28  |     |
| 1L-277V | 32  | 28  |     |
| 2L-120V | 58  | 55  | 54  |
| 2L-277V | 58  | 54  | 53  |
| 3L-120V | 86  | 83  | 80  |
| 3L-277V | 86  | 81  | 79  |
| 4L-120V | 112 | 109 | 106 |
| 4L-277V | 110 | 106 | 105 |

|     |     |
|-----|-----|
| 26  |     |
| 26  |     |
| 52  | 51  |
| 51  | 50  |
| 79  | 76  |
| 77  | 75  |
| 103 | 100 |
| 100 | 99  |

|    |    |
|----|----|
| 24 |    |
| 24 |    |
| 49 | 48 |
| 48 | 47 |
| 75 | 72 |
| 73 | 71 |
| 97 | 94 |
| 94 | 93 |

|    |    |
|----|----|
| 23 |    |
| 23 |    |
| 44 | 41 |
| 43 | 41 |
| 66 | 64 |
| 65 | 64 |
| 87 | 84 |
| 85 | 84 |

|                |                          |
|----------------|--------------------------|
| B132IUNVHE - A |                          |
| B232IUNVHE - A | B232I120HE<br>B232I277HE |
| B332IUNVHE - A | B332I120HE<br>B332I277HE |
| B432IUNVHE - A | B432I120HE<br>B432I277HE |

## HIGH LIGHT OUTPUT (1.18 B.F.)

|         |     |     |     |
|---------|-----|-----|-----|
| 2L-120V | 77  | 74  |     |
| 2L-277V | 77  | 73  |     |
| 3L-120V | 113 | 111 |     |
| 3L-277V | 113 | 108 |     |
| 4L-277V | -   | X   | 145 |
| 3L-347V | 110 | -   | -   |
| 3L-480V | 109 | -   | -   |

|     |  |
|-----|--|
| 70  |  |
| 68  |  |
| 104 |  |
| 101 |  |
| -   |  |
| 102 |  |
| 101 |  |

|    |  |
|----|--|
| 64 |  |
| 62 |  |
| 95 |  |
| 92 |  |
| -  |  |
| 94 |  |
| 94 |  |

|    |  |
|----|--|
| 59 |  |
| 58 |  |
| 87 |  |
| 85 |  |
| -  |  |
| 88 |  |
| 88 |  |

|                 |             |
|-----------------|-------------|
| B232IUNVHEH - A |             |
| B332IUNVHEH - A |             |
| -               | B432I277HEH |
| B332IHRVHB - E  | -           |

## 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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