

# Commercial LED

## CLT99 15W / 17W T8 Dual Mode Ballast List

| Ballast Brand      | Model #            | Type | 1 Lamp       | 2 Lamps      | 3 Lamps      | 4 Lamps      |
|--------------------|--------------------|------|--------------|--------------|--------------|--------------|
| ARCATA             | ACT2P321SUNVE      |      | 120V or 277V | 120V or 277V | NO           |              |
|                    | ACT3P321SUNVE      |      | 120V or 277V | 120V or 277V | 120V or 277V |              |
|                    | ACT4P321SUNVE      |      | 120V or 277V | 120V or 277V | 120V or 277V |              |
| DAMAR              | 1688B              | IS   |              | 120V or 277V |              |              |
|                    | 1688D              | IS   |              | 120V or 277V |              |              |
|                    | 3654C              | IS   |              |              | 120V or 277V |              |
| EIKO               | PM-2X32T8-UNV-IS   | IS   |              | 120V or 277V |              |              |
|                    | PM-3X32T8-UNV-IS   | IS   |              |              | 277V         |              |
|                    | PM-3X32T8-UNV-IS-H | IS   |              |              | 277V         |              |
|                    | PM-4X32T8-UNV-IS   | IS   |              |              |              | 277V         |
| ESPEN              | VE2P32MVHIPL       | IS   |              | 120V or 277V |              |              |
|                    | VE2P32MVHIPHE      | IS   |              | 120V or 277V |              |              |
|                    | VE2P32MVPPE        | PS   |              | 120V or 277V |              |              |
|                    | VE2P32MVHIPE       | IS   |              | 120V or 277V |              |              |
|                    | VE3P32MVHIPHE      | IS   |              | 120V or 277V |              |              |
|                    | VE3P32MVPPE        | PS   |              |              | 120V or 277V |              |
|                    | VE3P32MVHIPE       | IS   |              |              | 120V or 277V |              |
|                    | VE4P32MVHIPE       | IS   |              |              |              | 120V or 277V |
|                    | VE4P32MVPPE        | PS   |              |              |              | 120V or 277V |
|                    | VE4P32MVHIPHE      | IS   |              |              |              | 120V or 277V |
|                    | VE4P32MVHIPL       | IS   | 120V or 277V | 120V or 277V | 120V or 277V | 120V or 277V |
| VE3P32MVHIPL       | IS                 | 120V | 120V or 277V | 120V or 277V |              |              |
| GE                 | GE332MAX-G-N-DIYB  | IS   | 120V or 277V | 120V or 277V | 120V or 277V |              |
|                    | GE259MAX-G-N-DIYB  | IS   | 120V or 277V | 120V or 277V | NO           |              |
|                    | GE232MAX-N/ULTRA   | IS   | 120V or 277V | 120V or 277V | NO           |              |
|                    | GE240RES120-DIYB   | RS   | 120V or 277V | 120V or 277V | NO           |              |
|                    | GE240RES120-B      | RS   | 120V or 277V | 120V or 277V | NO           |              |
|                    | GE240RES120-4PK    | RS   | 120V or 277V | 120V or 277V | NO           |              |
|                    | GE132MAXP-L/ULTRA  | IS   | 120V or 277V |              |              |              |
|                    | GE232-120RES-B     | IS   | 120V         | 120V         |              |              |
|                    | GE432MAXG-N-DIYL   | IS   |              |              |              | 120V or 277V |
|                    | GE432-120RES-B     | IS   |              |              |              | 120V         |
|                    | GE332MAX-G-N-DIYB  | IS   |              |              | 120V         |              |
|                    | GE232MAX-N/ULTRA   | IS   | 120V         | 120V         |              |              |
|                    | GE132MAX-H/ULTRA   | IS   | 120V or 277V |              |              |              |
|                    | GE232MAX-L/ULTRA   | IS   |              | 277V         |              |              |
|                    | GE232-MV-N         | IS   |              | 120V or 277V |              |              |
|                    | GE232-MVPS-N       | RS   |              | 120V or 277V |              |              |
|                    | GE232-MV-PS-H      | RS   |              | 120V or 277V |              |              |
|                    | GE232-MVPS-L       | RS   |              | 120V or 277V |              |              |
|                    | GE332MVPS-XL       | RS   |              |              | 120V or 277V |              |
|                    | GE432-120-RES      | IS   |              |              |              | 120V         |
|                    | GE232MAX-G-N       | IS   |              | 120V or 277V |              |              |
|                    | GE332MAX-G-N       | IS   |              |              | 120V or 277V |              |
|                    | GE 432MAXP-L/ULTRA | IS   |              |              |              | 120V or 277V |
| GE 432MAXP-H/ULTRA | IS                 |      |              |              | 120V or 277V |              |
| GE 332MAXP-N/ULTRA | IS                 |      |              | 120V or 277V |              |              |
| GE 332MAXP-L/ULTRA | IS                 |      |              | 120V or 277V |              |              |
| HALCO              | E432IS/120/R/MC    | IS   |              |              |              | 120V or 277V |
|                    | EP232IS/MV/HE      | IS   |              | 120V or 277V |              |              |
|                    | EP332IS/MV/HE      | IS   |              |              | 120V or 277V |              |

# Commercial LED

## CLT99 15W / 17W T8 Dual Mode Ballast List

| Ballast Brand     | Model #                | Type | 1 Lamp       | 2 Lamps      | 3 Lamps      | 4 Lamps      |
|-------------------|------------------------|------|--------------|--------------|--------------|--------------|
| HALCO             | EP332IS/L/MV/HE        | IS   |              |              | 120V or 277V |              |
|                   | EP432IS/L/MV/HE        | IS   |              |              |              | 120V or 277V |
| HOWARD INDUSTRIES | EP2/32IS/MV/MC/HE      | IS   |              |              |              | 120V or 277V |
|                   | EP4/32IS/MV/MC/HE      | IS   |              |              |              | 120V or 277V |
|                   | EPH4/32IS/MV/SC/HE     | IS   |              |              |              | 120V or 277V |
|                   | EPL2/32IS/MV/MC/HE     | IS   |              | 120V or 277V |              |              |
|                   | EPL3/32IS/MV/SC/HE     | IS   |              |              | 120V or 277V |              |
|                   | EPL4/32IS/MV/MC/HE     | IS   |              |              |              | 120V or 277V |
| KEYSTONE          | KTEB-332-UV-IS-N-P     | IS   |              |              |              | 120V or 277V |
| OSRAM SLYVANIA    | QHE2X32T8/UNV ISN-SC   | IS   | 120V or 277V | 120V or 277V |              |              |
|                   | QHE4X32T8/UNV ISN-SC   | RS   | 120V or 277V | 120V or 277V | 120V or 277V | 120V or 277V |
|                   | QHE2X32T8/UNV-PSN-MC   | RS   |              | 120V or 277V |              |              |
|                   | QHE 4*32T8/UNV/ PSX-SC | RS   |              |              |              | 120V or 277V |
| PHILIPS-ADVANCE   | REB-2P32-N             | IS   | 120V         | 120V         |              |              |
|                   | ICN-2P32-N             | IS   | 120V or 277V | 120V or 277V |              |              |
|                   | REB-4P32-SC            | IS   | 120V         | 120V         | 120V         | 120V         |
|                   | IOPA-3P32-N            | IS   | 120V or 277V | 120V or 277V | 120V or 277V |              |
|                   | IOP-4PSP32-LW-SC       | PS   | 120V or 277V | 120V or 277V | 120V or 277V | 120V or 277V |
|                   | ICN-1P32-N             | IS   | 120V or 277V |              |              |              |
|                   | IOPA-1P32-N            | IS   | 120V or 277V |              |              |              |
|                   | ICN-2P32-N             | IS   |              | 120V or 277V |              |              |
|                   | IOP-2P32-N             | IS   |              | 120V or 277V |              |              |
|                   | IOP-4PSP32-SC          | PS   |              |              |              | 120V or 277V |
|                   | IOPA-3P32-LW-N         | IS   |              |              | 120V or 277V |              |
|                   | IOPA-4P32-N            | IS   |              |              |              | 120V or 277V |
| QUICKTRONIC       | QTP2x59 T8/UNV ISL-SC  | IS   | 120V or 277V | 120V or 277V | NO           |              |
|                   | QHE2x59 T8/UNV ISL-SC  | IS   | 120V ONLY    | 120V ONLY    | NO           |              |
| TCP               | E4P32ISUNVE            | IS   |              |              |              | 120V or 277V |
|                   | E3P32ISUNVE            | IS   |              |              | 120V or 277V |              |
|                   | E4P32ISUNVHE           | IS   |              |              |              | 120V or 277V |
| ULT               | B232/UNVHP-N           | IS   | 120V or 277V | 120V or 277V |              |              |
|                   | B232PUNVHE-B           | PS   | 120V or 277V | 120V or 277V |              |              |
|                   | B332/UNVHP-A           | IS   | 120V or 277V | 120V or 277V | 120V or 277V |              |
|                   | B232/UNVEL-N           | RS   | 120V or 277V | 120V or 277V |              |              |
|                   | B432PUMVHE-A           | RS   | 120V or 277V | 120V or 277V | 120V or 277V | 120V or 277V |

**NOTE:**

1. The ballasts model list on the chart have been tested and approved by the manufacturer.
2. This list is to be used as a general guideline. The LED tube may not work if the ballast is over 5 years old or has a weak starting voltage.
3. Please strictly follow the wiring diagram shown on the ballasts.
4. Please check if the contact points of the old fixture work normal.
5. Please use caution and test lamps in fixtures for an extended period of time to ensure proper operation.
6. Do NOT proceed with a mass installation until proper operation of the LED tube is verified.
7. For safety, please turn off power while installing tubes.