T8 PROGRAMMED START BALLAST SPECIFICATIONS

T8 Programmed Start Ballast Specifications for:

- EL (High Efficiency Low Ballast Factor)
- HE (High Efficiency Normal Ballast Factor)
- HEH (High Efficiency High Ballast Factor)

- Ballasts shall include 18AWG solid copper leads color coded in compliance with ANSI C82.11-2011.
- Ballasts shall be Programmed Start with arc current established in less than 700 milliseconds after power is applied.
- Ballasts (2-4 lamps) shall operate as a Parallel Circuit, allowing remaining lamp(s) to maintain full light output if one or more lamps fail.
- Ballasts shall have a minimum Rh/Rc of 4.25 each time the lamps are started.
- Ballasts shall have a maximum ionization current (Glow Current) of 10 milliamps during preheating interval.
- Ballasts shall operate from a 50/60 Hz input source of 120 through 277 Volts, and sustained variations of ± 10% (Voltage & Frequency) with no damage to the ballasts.
- Ballasts shall be a high frequency electronic type, and operate lamps at a frequency above 42 kHz to minimize interference with infrared control systems.
- EL and HE ballasts shall tolerate operation in ambient temperatures up to 105°F (40°C) without damage. In addition, HEH ballasts shall operate up to a 194°F (90°C) maximum case temperature.
- Ballasts shall have a maximum case temperature test point printed on the label for easy fixture testing and trouble shooting.
- Ballasts shall have a minimum starting temperature of -20°F (-29°C) for the primary lamp application when not remote mounted.
- Ballasts shall support 20’ maximum lead length remote mounting for the primary lamp.
- Ballasts shall comply with FCC Part 18 Non-Consumer Equipment for EMI (power line conducted) and RFI (Radiated).
- Ballasts shall provide transient immunity as recommended by ANSI C82.11-2011.
- Ballasts shall auto-restrike allowing replacement of lamps without cycling power.
- Ballasts shall incorporate Anti-Striation Circuitry for stable operation of reduced wattage lamps.
- Ballasts shall operate lamps with no visible flicker (<3% flicker index).
- Ballasts shall tolerate sustained open circuit and short circuit output conditions without damage.
- Ballasts shall be Underwriters Laboratory (UL 935) listed, Class P, Type 1 Outdoor and/or CSA certified for both US and Canadian application.
- Ballasts shall meet NEMA Premium/CEE High Performance for high efficiency operation.
- Ballasts shall be quiet Class A sound rating.
- Ballasts shall have a Ballast Factor for the primary lamp application of greater than .71 for EL, .88 for HE, and 1.15 for HEH, per ANSI C82.11-2011.
- Input current Total Harmonic Distortion shall not exceed 10% for the primary lamp application.
- Ballasts shall have a Power Factor greater than 0.98, for the primary lamp application.
- Lamp Current Crest Factor (ratio of peak to RMS current) shall be 1.7 or less in accordance with lamp manufacturer recommendation and ANSI C82.11-2011.
- The ballasts shall not have any PCB's.
- The manufacturer shall provide written warranty against defects in material or workmanship, including replacement, for five years from date of manufacture. In addition, HEH models shall carry a three year warranty when operated at 194°F (90°C) maximum case temperature.
- Manufacturer shall have been manufacturing electronic ballasts for at least thirty years.
- Ballasts shall be manufactured in an ISO 9001/ISO 9002 Certified Facility in North America.
- Ballasts shall be RoHS compliant.

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