TYPICAL SPECIFICATIONS FOR ELECTRONIC COMPACT FLUORESCENT BALLASTS

1. Ballast shall be Programmed Rapid Start.
2. Ballast shall incorporate lamp shutdown circuitry for end of lamp life protection.
3. Ballast shall allow for re-lamping without the need to cycle power.
4. Ballasts shall operate from 50/60 Hz input source of 120, 277, or 347 Volts with no damage to the ballasts.

4a. Ballasts shall operate from 50/60 Hz input source of 108-305 Volts with no damage to the ballasts for High Performance (HP) models.

5. Ballast shall be of metal can construction to meet all plenum requirements and to eliminate the need for extra grounding wires.
6. Ballasts shall be a high frequency electronic type, and operate lamps at a frequency above 50 kHz to minimize interference with infrared control systems.
7. Lamp Current Crest Factor (ratio of peak to RMS current) shall be 1.7 or less in accordance with lamp manufacturer recommendation and ANSI C82.11-1993.
8. Ballasts shall tolerate operation in ambient temperatures up to 140°F (55°C) without damage.
9. Ballasts shall have a maximum case temperature test point of 75°C printed on the label for easy fixture testing and trouble shooting.
10. Ballast shall have a maximum case temperature rise of 15°C.
11. Ballasts shall comply with FCC Part 18 Non-Consumer Equipment for EMI (power line conducted) and RFI (Radiated).
12. Ballasts shall provide transient immunity as recommended by ANSI C62.41-1991.
13. Ballasts shall operate lamps with no visible flicker (<3% flicker index).
14. Ballasts shall tolerate sustained open and short circuit output conditions without damage.
15. Ballasts shall be Underwriters Laboratory (UL 935) listed, Class P, Type 1 Outdoor, and CSA certified, and unless noted otherwise, approved for use in hazardous locations (Type HL).
16. Input current Total Harmonic Distortion shall not exceed 10% for the primary lamp.
17. Ballasts shall have a Power Factor greater than .98 for the primary lamp.
18. The ballasts shall not have any PCB's.
19. The manufacturer shall provide written warranty against defects in material or workmanship, including replacement, for five years from date of manufacture.
20. Manufacturer shall have been manufacturing electronic ballasts for at least fifteen years.
21. Ballast shall be manufactured in an ISO 9001 Certified Facility.
22. Universal model _____ (or approved equal).