

Dimming Ballast Specifications for:

DALI Compatible Digital Dimming

- Ballasts shall operate as an Addressable Dimming Ballast per DALI – Digital Addressable Lighting Interface – specifications.
- Ballast shall provide dimming down to 1% for Linear Fluorescent and 3% for Compact Fluorescent Lamps
- Ballasts shall operate from 60/50 Hz input source of 120vac to 277vac, and sustained variations of $\pm 10\%$ Voltage & Frequency) with no damage to the ballasts
- Ballasts shall be a high frequency electronic type, and operate lamps at a frequency above 40 kHz.
- 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.
- Ballasts shall tolerate operation in ambient temperatures up to 105°F (40°C) without damage.
- Ballasts shall comply with FCC Part 18 Non-Consumer Equipment for EMI (power line conducted) and RFI (Radiated).
- Ballasts shall meet ANSI C62.11 Category A surge protection standards.
- 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 UL and cUL Listed, Class P, Indoor.
- Ballast shall have a Ballast Factor equal to 1.00, in the 100% light position.
- Input current Total Harmonic Distortion shall not exceed 10% for the primary lamp at full light level.
- Ballasts shall have a Power Factor > .98 for primary lamp.
- The ballasts shall not have any PCB's.
- The manufacturer shall provide written warranty against defects in material or workmanship, including replacement, for three years from date of manufacture.
- Manufacturer shall have been manufacturing electronic ballasts for at least fifteen years.
- Ballast shall be manufactured in an ISO 9002 Certified Facility.
- Ballasts shall provide a programmed rapid starting sequence.
- Ballast control leads shall have safety/protection circuitry to protect the ballast against improper wiring of line voltage to control leads - In the event of improper wiring, the ballast will operate with no harm to the ballast or user.
- Ballast shall have End of Lamp Life Shutdown with Auto Reset Circuitry so that power does not have to be cycled to restart lamps.
- Ballast shall start lamps at any dimming level without flashing to full bright.