



XTL LIGHTING SYSTEM

Electrical Specifications

LUMACURVE XTL System

The LUMACURVE XTL system maintains a constant sign brightness in accordance with FAA A/C 150-5345-44 with appreciably higher efficiency relative to traditional lighting systems, and is available in new signs or in kit form for retrofit. This system ensures delivery of a constant voltage to the 10V/20W halogen lamps at all constant current regulator (CCR) current steps without internal modification (true for high intensity (Style 3, 2.8A - 6.6A) and medium intensity (Style 2, 4.8A - 6.6A) and Style 5 (5.5A fixed) dedicated sign circuits. The lamps authorized for use in this system are Standard Signs, Inc. P/N # "XTL Quartz" with 10V/20W Bipin quartz halogen lamp & custom ceramic adapter base. They are available directly from Standard Signs, Inc.

Important: *The LUMACURVE XTL lighting system is designed exclusively for FAA styles 2 & 3 operation on a series circuit together with non-sign fixtures, such as edge lights, where the sign brightness control components are necessary to maintain constant sign brightness regardless of CCR step. Non-sign resistive load must be present on the circuit for proper CCR operation. Design consideration should be given to CCR loading at all current steps. XTL Signs should NOT be installed on a circuit that powers only signs. For circuits dedicated to signs, please request LUMACURVE lighting systems designed for FAA style 5 operation.*

DO NOT CHANGE LAMPS WITH SIGN ENERGIZED. A burned out lamp causes an E610 controller to reach max power and exceed the lamps' rated voltage. Inserting a replacement lamp in an energized sign will shock the lamps and damage filaments.

Installation: System lamp voltage is factory set but we recommend that one sign per CCR be spot checked with a DC voltmeter after installation. Lamp voltage is read across the white and brown leads at the sign terminal strip on the light bar (P/N #CLT 8A). If voltage varies from recommended settings (9.5V at lowest CCR step for all size signs), all signs on that circuit should be checked and adjusted. To adjust, turn the small screw in the upper left corner of the printed circuit board (E610) controller mounted on the inside of the end panel (P/N #CLT-4).

Note: *The adjustment screw is designed only for fine-tuning and does not function as a dimmer. Signs must not be operated at less than 9.5 volts.*

There is a 10-minute warm-up period for lamps to come to set voltage but sign brightness meets FAA specifications even at cold voltages.

*Isolation transformer wattage requirements may vary for each application.

LUMACURVE AIRFIELD SIGNS

9115 Freeway Dr., Macedonia, OH 44056
800-258-1997 www.lumacurve.com