

## **STRAND LIGHTING 300S LARGE DAYLIGHT LED TELEVISION SOFTLIGHT SPECIFICATION.**

### **GENERAL.**

#### A.) Overview.

- 1) The Television Softlight fixture shall be purpose designed for television and studio lighting applications. Products designed for theatrical applications shall not be acceptable.
- 2) The Television Softlight fixture shall be supplied with a manual yoke and a short form instruction manual for immediate use. A detailed instruction manual shall be available for download from the manufacturer's website.
- 3) The Television Softlight fixture shall comply with ETL and cETL standards and listed to U.L. standard 1573.
- 4) The Television Softlight fixture shall be able to be operated on a universal power input voltage of 90V - 240V AC.
- 5) The Television Softlight fixture shall use a 5600K custom designed LED engine.
- 6) The Television Softlight fixture shall have a detachable power cable connector with a PowerCon Blue connector for power input and with a PowerCon White connector for daisy chain powering of units.
- 7) The Television Softlight fixture shall not exceed 23.4 lbs. in weight excluding accessories.
- 8) The Television Softlight fixture shall have the following dimensions:
  - a) Height: 21.9 inches (25 inches including Yoke).
  - b) Width: 23.4 inches (25.9 inches including Yoke and locking knob).
  - c) Depth: 4.6 inches.
- 9) The lamp house of the Television Softlight fixture shall be constructed from aluminum, with heatsink vanes to the rear.
- 10) The paint finish of the Television Softlight fixture shall be low reflective, matt charcoal color, electrostatically applied, baked on epoxy powder coat. The finish of all exterior plastic components shall be matt charcoal color.
- 11) The Television Softlight shall have an emitting surface of 21 x 15.7 inches with a diffuser material.

12) The Television Softlight fixture shall comply with the following performance specifications when:

- a) Beam Angle: 50 degrees
- b) Peak Light Level: 102 foot candles at a 16 ft. throw

B.) Physical.

- 1) The Television Softlight fixture shall be provided with either a manual stirrup or pole operated stirrup with a location for a 29mm TV spigot (not supplied) for quick attachment and de-attachment of the luminaire from its mounting position.
- 2) The Television Softlight fixture shall incorporate a locking clamp and knob for tilt operation. The operator shall be able to loosen the tilt-locking knob, tilt the Television Softlight fixture and then lock the Television Softlight fixture in place.
- 3) The Television Softlight fixture shall have two accessory slots for positioning of a color frame, honeycombs and barndoor accessory. The accessories shall be retained in place with a double safety lock mechanism to ensure they cannot accidentally become detached nor fall out during operation.
- 4) The Television Softlight fixture shall have settings displayed on a clear LCD display at the base of the unit, with a rotary dial for adjusting and changing parameters.

C.) Environmental.

- 1) Maximum operating ambient temperature shall not exceed 99 degrees Fahrenheit (37 degrees Celsius).
- 2) The Television Softlight fixture shall utilize natural convection for cooling and shall not require fans.
- 3) The Television Softlight fixture shall be low maintenance and environmentally friendly; all units shall be mercury free.

D.) Operational.

- 1) The Television Softlight fixture shall have control inputs for DMX512 with input/output connectivity with Remote Device Management (RDM) Protocol via the same DMX control inputs. Luminaires utilizing proprietary only controls shall not be accepted.

- 2) DMX512 control will be via one of three user selectable modes:
  - a.) Basic 8-bit Control
    1. Intensity
    2. Fading – Timing Channel
  - b.) Basic 16-bit Control
    1. Intensity ? High
    2. Intensity ? Low
    3. Fading - Timing Channel
  - c.) Simple Control
    1. Intensity
- 3) The Television Softlight fixture shall have an onboard display and controls for the following:
  - a.) Main Menu settings:
    1. Intensity Control
    2. DMX Address
    3. Dimming Curve
    4. Response Time
  - b.) Settings Menu:
    1. Auto lock
    2. Intensity Format
    3. Fixture Control
    4. DMX Map
    5. When No DMX
    6. Set factory defaults
    7. Firmware Version
    8. RDM UID
- 4) The Television Softlight fixture shall provide, via the on-board display, the ability to lock the fixtures' menu system from unauthorized changes. When the menu system is locked, the luminaire shall operate normally via DMX control.  
Units not utilizing this type of technology or any security settings shall not be accepted.

#### E.) Dimming.

- 1) The Television Softlight fixture, in Basic sixteen-bit mode, shall use 16-bit nonlinear scaling techniques for high-resolution dimming.
- 2) Dimming curves shall be optimized for smooth dimming over longer timed fades.

- 3) The Television Softlight fixture shall provide a choice of dimmer curves selectable from the Main Menu to include Linear, Square, S-Curve and PL Curve.
- 4) The luminaire shall be digitally driven using high-speed pulse width modulations (PWM) in concert with power factor control (PFC) to ensure a smooth flicker free dim curve from 100 to 0 % and shall be imperceptible to video cameras and video related devices.

#### F.) Warranty.

The Luminaire manufacturer shall offer a two-year warranty on the luminaire and LED. Manufacturers not offering a minimum of a two-year warranty shall not be accepted.

#### G.) Accessories.

Provide the following additional accessories with each unit:

- 1) 29mm TV Spigot for each unit
- 2) 36 Degree Honeycomb for each unit
- 3) 20 Degree Honeycomb for each unit
- 4) 8-Leaf Barndoor with filter clip
- 5) 1 x Power Lead PowerCon to Edison/Stage Pin/Twistlock connector
- 6) Operation Manual.