

1.01 LED PANEL LIGHT

A. General

1. The fixture shall be an Altman Helios Series Back-Lit Panel as manufactured by Altman Stage Lighting., or approved equal. Fixtures that do not meet the following performance criteria in this specification will not be acceptable.
2. The fixture shall be an LED based flood type luminaire with even, low-glare illumination across the entire light emitting face of the luminaire.
3. The fixture shall utilize a 20-40 watt, user selectable, multi-LED array for light generation.
4. Unit shall be IP20 rated for indoor use.
5. End user operated switches shall be located on the side of the luminaire to select power and color temperature.
6. The fixture shall be DLC, cETLus listed, RoHS, & CE marked, and shall be so labeled when delivered to site. The fixture shall be UL listed under UL153.
7. Ambient operating temperature of 32°F to 104°F (0°C to 40°C).
8. Power supply and electronics shall be included and pre-installed with each luminaire.
9. Normal operation of optical and control functions of the fixture shall not require tools.

B. Physical

1. The fixture shall be constructed from a composite of lightweight aluminum, injected molded and PMMA thermoplastic materials free of defects such as burrs, pits and malformations.
2. Finish shall be white RAL 9016 on viewable surfaces.
3. Dimensions
 - a. AAL-2X2FPTFR-TW-VP
 - 1) 604mm (23.3 3/4")
 - 2) 604mm (23 3/4")
 - 3) 36mm (1 7/16")
 - b. AAL-1X4FPTFR-TW-VP
 - 1) 1214mm (47 13/16")
 - 2) 300mm (11 13/16")
 - 3) 36mm (1 7/16")
 - c. AAL-2X4FPTFR-TW-VP
 - 1) 1214mm (47 13/16")
 - 2) 604mm (23 3/4")
 - 3) 36mm (1 7/16")

4. Fixture shall be supplied with:
 - a. Driver / power supply with selectable power and color temperature settings.
 - b. Junction box for direct connection of power and signal cabling.
- C. Electrical
1. The fixture shall be equipped with 100V to 277V 50/60 Hz auto-ranging internal power supply.
 2. Power input and through shall be wirenuts.
 3. Power supply shall have power factor correction.
 4. Maximum power consumption shall be no greater than 40 Watts.
- D. Thermal
1. The fixture shall utilize tuned convection cooling to maintain LED life to an average of 70% intensity after 50,000 hours of use.
- E. Control
1. The unit shall be controlled using 0-10V.
 2. Control input and through function shall be via permanent connection.
 3. An optional battery backup driver in compliance with UL924 and CSA C22.2 no.141 shall be available.
- F. Optical
1. LED arrays shall include high color quality white LEDs tunable between 3000K – 43000K.
 2. LED emitters should be rated for nominal 50,000 hour LED life to L70.
 3. Photometric performance of greater than 5,000 lumens shall be possible with some settings.
 4. Light emission shall be even across the entire output area.
 5. Fixture shall be calibrated at factory to achieve consistent color and intensity output between fixtures built at different times and/or from different LED lots or bins.

END SPECIFICATION

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