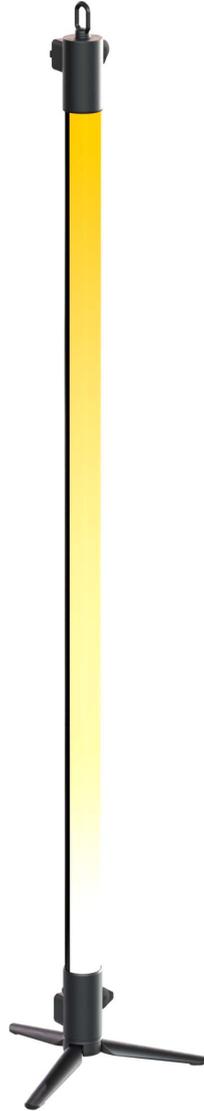


Tender Specifications



ECLSOFTUBE100

100 cm, battery-powered soft tube for Film & TV,
IP 65, with RGB+Warm White LED source,
wireless or wired

1. General

1. The luminaire shall be a multipurpose IP65 linear pixel tube, Battery Powered LED RGB+Warm White, with DMX control of intensity and colours, offering wireless control of DMX signal and fast-charge system.
2. The luminaire shall be CE, UKCA, RCM, cTUVus, FCC compliant.
3. The luminaire shall comply with the USITT DMX-512 A protocol standards.
4. The luminaire shall be capable a variable white output from 2'800K to 10'000K featuring an average CRI, in ecixcess of 90 Ra when measured across the full color temperature range and allow precise control of intensity, hue and saturation.
5. The luminaire shall be capable of delivering an extensive range of saturated and pastel colours.
6. The luminaire shall feature an LED source with a rated power of 48W.
7. The luminaire shall features an LED source containing 96 pcs LED emitters R, G, B + Warm White.
8. The luminaire shall not infringe any Intellectual Property unless licenced by the owner.

2. Physical

1. The luminaire shall be constructed in sturdy die cast aluminium/plastic body, free of burrs and pits, conceived for long time durability.
2. Body colour shall be RAL 9004 finish.
3. The luminaire dimensions shall be:
 - a) W: 50 mm (2.0") H: 1163 mm (45.8") D: 50 mm (2.0")
 - b) The luminaire shall weight 2,4 kg (5.2 lbs).
4. The luminaire shall be able to be mounted or stand on a surface. Fixture shall be suitably designed for operation in any enviromental conditions, not for long and permanent outdoor use.
5. The luminaire- shall have a suspension and fixing option as M5 threaded insert for eye bolt, flor stand and clamp for wall installation.
6. Battery and driver electronics shall be integrated to the luminaire.

3. LED Emitters

1. The luminaire shall feature an LED tube source comprising of 96 RGB + Warm White LED emitters designed and customized for PROLIGHTS, with a total rated power of 48 Watt, and total Driven power of 34 Watt.
2. The luminaire shall feature an LED source comprising of 96 pcs Red LED, 96 pcs Green LED, 96 pcs Blue LED, 96 pcs Warm White LED.
3. The luminaire shall feature an LED source consisting only of LED emitters from a know production batch and bin.
4. The luminaires shall feature only LED emitters rated for nominal 50'000-hours LED life.
5. The luminaire shall feature a minimum of three hours burn-In test during its manufacturing process.

4. Photometric documentation

1. The luminaire shall be supplied with a full and detailed photometric report measured by a calibrated two axis photogoniometer in a constant temperature environment and with the luminaire in a stabilised condition with not more than 0.5% variation in output over a 15 minute period.
2. The photometric report supplied with the luminaire shall detail CRI, CQS, TM-30 and spectral distribution at full output.
3. The photometric report supplied with the luminaire shall detail the spectral distribution of each constituent LED colour of LED source.
4. The photometric report supplied with the luminaire shall detail light level measured in lux and foot candles and beam diameter measured in meters and feet at 1 m, 2 m, 3 m 4 m, 5 m, 6 m, 7.5 m, 10 m, 15 m, 20 m, 25 m 30 m, 40 m distance with the luminaire at the following beam angle: minimum beam angle, medium beam angle, maximum beam angle.
5. The photometric report supplied with the fixture shall include ISO LUX and candela diagrams, showing light distribution in both X and Y planes measured with the luminaire mounted at height of 10 meters.

5. Photometric performance and Opticals

1. The luminaire shall meet the following minimum photometric performance requirements which should be supported by the photometric documentation:
2. The luminaire shall have a lumens output > 2'380 lm at full on.
 - a) The Red wavelength should be 635 ± 2.5 nm.
 - b) The Green wavelength should be 521 ± 2.5 nm.
 - c) The Blue wavelength should be 453 ± 2.5 nm.
 - d) The White Led shall be a colour temperature of $3000K \pm 100K$
3. The luminaire shall have a colour temperature of 6000K ($\pm 125K$) with LEDs at full on.
4. The luminaire shall have a colour range within 100K of the target colour temperature when set to a preset of 3'200K or 5'600K.
5. The luminaire shall have a CRI in excess of 91 when set a preset of 3'200K.
6. The luminaire shall have a CRI in excess of 93 when set a preset of 5'600K.

6. Calibration

1. The luminaire shall be factory calibrated during its production process.
2. The luminaire shall permanently store calibration data on internal PCB.
3. The luminaire shall feature replacement LED source calibrated using the same method as the standard.
4. Fixture not offering LED calibration shall not be acceptable.

7. Electrical

5. The luminaire shall feature a nominal power consumption of 34W during the battery re-charge time.
6. The luminaire shall feature with 16,8V Lithium Battery.
7. The luminaire shall feature with a fast-charge connection in case for battery pack.
8. The luminaire shall feature a selectable battery life setting at 3h, 6h, 8h, 12h, 16h, 18h.
9. The luminaire shall feature a re-charge time of 5h max.

10. The luminaire shall feature battery status in real time, in on board display.
11. The luminaire shall feature a battery recharge in AC and DC.
12. The luminaire shall feature to work plugged in Main Power, with option to disable the Battery Recharge to safe battery life.
13. The luminaire shall meet all requirements of the LVD (Low Voltage Directive) 2014/35EC and with the EMC (Electromagnetic Compatibility Directive) 2014/30/EU.
14. The luminaire shall meet all requirements of the MSDS normatives for the storage and handling of batteries products.

8. Environmental

1. The luminaire shall feature IP 65 rating (for temporary outdoor application).
2. The luminaire shall features a C2 minimum environment classification.
3. The luminaire shall be capable of operating in ambient temperature range of -0°C (32°F) to +45°C (113°F).
4. Thermal management shall include LED board temperature sensor.
5. Users shall permit monitoring of temperature sensor via user Touch Graphic Display.
6. Fixtures that do not provide the active thermal monitoring of LED board, shall not be acceptable.

9. Control And User Interface

1. The luminaire shall features on board Art-Net, Kling-Net, sACN, CRMX+W-DMX, DMX512, RDM.
2. The luminaire shall offer 7 DMX control profiles.
3. The luminaire shall offer additional user definable options setting using the Touch Graphic Display to including:
 - a) Static colour mode in Stand Alone, with selection of colours.
 - b) Several pre-built macros with adjustable speed.
 - c) IR: infrared sensor controlled by remote commander.

10. Dimming

1. The luminaire shall feature continuous smooth and linear dimming of intensity from 0% to 100%.
2. The luminaire shall features 4 selectable dimmer curves.
3. The luminaire shall feature a flicker free operation.
4. The luminaire shall feature a selectable PWM frequency: 3.000 / 6.000 / 12.000 / 24.000 Hz.

11. Accessories

The following accessories shall be included in fixture supplied:

1. 1,5 meters power cable (Bare-End – SEETRONIC IP65 power connector)

The following accessories shall be available as an optional:

- a) CLAMP
- b) Magnetic fixing for CLAMP.
- c) M10 to M5 adapter.
- d) Tripod.
- e) Eyebolt.
- f) Baby Pin.
- g) Wingplate.
- h) Spacer:
- i) Crossplate.
- j) 8 way charger.
- k) IR controller.
- l) SnapBag.
- m) 40° Snapgrid.
- n) Upbox 1.

Approved device shall be the PROLIGHTS ECLSOFTTUBE100; no alternates or equals.