

# Tender Specifications



## Gallery WashDATFC

Compact LED wall wash with 60W LED RGB+WW

## 1. General

1. The luminaire shall be a Compact LED wall wash, with DMX control of intensity and colours.
2. The luminaire shall be CE and RCM compliant.
3. The luminaire shall comply with the USITT DMX-512 A and ANSI RDM E 1.20 protocol standards.
4. The luminaire shall be capable of delivering an extensive range of saturated and pastel colours and white preset output from 2'800 K to 10'000 K.
5. The luminaire shall feature an LED source with a rated power of 60 W.
6. The luminaire shall feature an LED emitter with four (4) colours being R, G, B, W (warm white).
7. The luminaire shall not infringe any Intellectual Property unless licensed by the owner.

## 2. Physical

1. The luminaire shall be constructed in sturdy die cast aluminium body, with a white or black finishing.
2. The luminaire shall feature an IP20 rate protection.
3. The luminaires shall have a tilt angle of 220 degrees a bracket.
4. The luminaire shall feature a full range of accessories
5. The luminaire shall feature integral power supply, cooling, and driver electronics.
6. The luminaire dimension shall be:
  - a. W: 141mm (5,55"), H: 146mm (5,75"), D: 112mm (4,41").
  - b. The luminaire shall weight no more than 1 kg (2,2lb).
7. The luminaire shall feature an heatsink with heat pipes, passive cooling and fan free.

### **3. LED Emitter**

1. The luminaire shall feature a LED emitter manufactured and customize for PROLIGHTS, with a total Rated power of 60 Watt.
2. The luminaire shall feature an LED source consisting only of LED emitters from a known production batch and bin.
3. The luminaires shall feature only LED emitters rated for nominal 50'000-hours LED life.
4. The luminaire shall feature a minimum of 3 hours burn-In test during its manufacturing process.
5. The luminaire shall feature adjustable PWM frequency from 600 to 25'000 Hz to avoid flicker on camera.

### **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 of 25°C 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 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 native optic.
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 Optical**

1. The luminaire shall meet the following minimum photometric performance requirements which should be supported by the photometric documentation:

- a) The luminaire shall have perform a beam angle from of 67°x117° (VxH).
- b) The luminaire shall have an output in excess of 2.582lm @ Full-on, with smooth filter.
- c) The luminaire shall have an output in excess of 2.932lm @ 3.200K, with smooth filter.
- d) The luminaire shall have an output in excess of 2.468lm @ 5.600K, with smooth filter.
- e) The luminaire shall have an output in excess of 36lx @ 5mt, with smooth filter and Full-on preset.
- f) The luminaire shall have an output in excess of 30lx @ 5mt, with smooth filter and 3.200K preset.
- g) The luminaire shall have an output in excess of 32lx @ 5mt, with smooth filter and 5.600K preset.
- h) The luminaire shall have an CRI output in excess of 95 with smooth filter and 3.200K preset.
- i) The luminaire shall have an R9 output in excess of 97 with smooth filter and 5.600K preset.

## **6. Optical**

- 1. The luminaire shall provide advanced optical system combines a custom linear LED source with an asymmetrical reflector.
  - a) Custom asymmetrical reflector ensures superbly uniform wall illumination, minimizing fixture count and installation complexity
- 2. The luminaire shall provide a range of accessories to maximise luminous flux:
  - a) Holographic Filter shall be smooth (included), wide filter.
  - b) Half Snoot.

## **7. Electrical**

- 1. The luminaire shall feature an internal auto sensing power supply with an input range from 100 V to 240 V AC 50/60 Hz protect by on board fuse.
- 2. The luminaire shall feature a nominal power consumption of 52W.
- 3. The luminaire shall feature main input through DIN connector.
- 4. The luminaire shall feature DIN connector for DMX input.

5. The luminaire shall be supplied with 1 meters cable 3G0,75mmq power cable & 2x0,169mmq DMX 120 Ohm (BARE END) already connected.
6. The luminaire shall be compatible with the USITT DMX-512A RDM protocol.
7. The luminaire shall support firmware upgrades using a dedicated UP-LOADER device using a 5 pin XLR connector.
8. The luminaire shall meet all requirements of the LVD (Low Voltage Directive) 2014/35EC and with the EMC (Electromagnetic Compatibility Directive) 2014/30/EU.

## **8. Environmental**

1. The luminaire shall feature IP 20 rating.
2. The luminaire shall be capable of operating in ambient temperature range of -10°C (14°F) to + 45°C (113°F).
3. The luminaire shall be equipped with a fanless passive cooling housing.
4. Thermal management shall include LED array circuit board temperature sensors.
5. Users shall permit monitoring of temperature sensor via user interface DATAMASTER.
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 be equipped with an encoder that allows control when DMX is faulty or not present.
2. Fixtures not offering encoder control features shall not be acceptable.
3. The luminaire shall be equipped with an optional CRMX kit for wireless communications.
4. The luminaire shall feature a temperature sensor which shall be accessible in real time via RDM.
5. The luminaire shall be compatible with the ANSI RDM E 1.20, 1.33, 1.37-1, 1.37-2, 1.37-7.
6. Fixtures not offering RDM compatibility features access or temperature monitoring via RDM shall not be acceptable.
7. The luminaire shall offer 4 DMX control profiles:
  - a. 5 channel profile shall have 8bit colours control.

- b. 10 channel profile shall have 16bit colours control.
  - c. 6 channel profile shall have CCT, Strobe and Colour Macro control.
  - d. 15 channel profile shall have CCT, Colour, Strobe and Colour Macro control.
5. The luminaire shall offer additional user definable options setting using the DATAMASTER to be including:
- a. Loss of data behaviour need to hold last DMX frame or back to Stand Alone mode if selected.
  - b. 4 selectable dimming curves.
  - c. Master and Slave function for Stand Alone synchronization of more units linked together,
  - d. Static colour mode in Stand Alone, with selection of colours.
  - e. Several pre-built macros with adjustable speed.
6. Fixtures without stand-alone operation features described above shall not be acceptable.

## 10. Dimming

- 1. The luminaire shall feature continuous smooth and linear dimming of intensity from 0% to 100%.
- 2. The luminaire shall feature control of intensity in 8 bit or 16 bit mode.
- 3. LED control shall be compatible with broadcast equipment in the following ways:
  - a. PWM control of LED levels shall be imperceptible to video cameras and related equipment.
  - b. PWM rates shall be adjustable by the user at the fixture if necessary to avoid any visible interference on video camera and related equipment.
- 4. The luminaire shall feature a minimum of 4 options for dimming curves, selectable from the DATAMASTER external coder.
- 5. Dimming curves shall be optimized for smooth dimming over longer time fades.
- 6. The LED system shall be digitally driven using high-speed pulse width PWM modulation.

## 11. Accessories

The following accessories shall be included in fixture supplied:

1. 1 meters 3G0,75mmq power cable & 2x0.14 mmq DMX 120Ohm (BARE END - already connected to the fixture)
2. 1 x Smooth filter.

The following accessories shall be available as an optional:

1. Half snoot.
2. Barn door with 4 directional flaps.
3. Wide Filter.
4. Kit wireless CRMX.
5. Wall mounting bracket.
6. Wall mounting adapter.
7. Ring adapter for Wall mounting adapter.
8. Ceiling-mounted kit (surface).
9. Track adapter.
10. Slim aluminium clamp, 200Kg loading, 48-51mm tubes, M10 bolt.
11. Steel security cable for hanging bodies, length 60 cm.
12. Firmware uploader UPBOXPRO.

Approved device shall be the PROLIGHTS GALLERYWASHDATFC, no alternates or equals.