Tender Specifications

ECLDISPLAYCC

40W RGB+WW, 35W Variable White or 25W White LED gallery light, Tunable White and Full Colour, Constant Current

1. General

1. The luminaire shall be an architectural projector which shall completed by a zoomable profile framming (20°-40° / 10°-20°) or profile framming fix (8°) or zoomable washlight (15°-30° / 25°-50°) optics.
2. The luminaire shall be CE, UKCA, RCM, cTUVus, FCC compliant.
3. The luminaire shall be available in the following light source varinats: 2.700K, 3.000K, 4.000K, 5.600K, and RGB+Warm White; all featuring an average CRI in excess of 90 Ra when measured across the full color temperature range.
4. The luminaire shall be available in the following light source varinats: 2.700K, 3.000K, 4.000K, 5.600K, 2.700K to 5.600K Variable White and RGB+Warm White; all featuring an average CRI in excess of 90 Ra when measured across the full color temperature range.
5. The luminaire shall not infringe any Intellectual Property unless licenced by the owner.

2. Physical

1. The luminaire shall be constructed from a combinations of rugged die cast aluminium, free of burrs and pits, and high quality thermo plastic all finished in black.
2. The following shall be provided:

a) Lens secured with silicone shock mounts.

b) Shutter assembly shall allow for +/- 25 rotation.

c) 0.95 mm stainless steel shutters.

d) Interchangeable zoomable optics for profile or washlight.

e) Gel frame holders with one accessory slot, and a top mounted quick release gel frame retained.

f) Rugged yoke with sliding positive locking and tool operated yoke clutch.

g) Slot with sliding cover for indexal pattern devices.

3. The luminaire shall feature an integral frame holder including safety locks and top latch.
4. The luminaire shall features an adjustable yoke constructed from die-cast aluminium that allows a minimum of 300° tilt rotation and 360° pan rotation.
5. The luminaire shall features a secure locking mechanism for the tilt axis.
6. The luminaire shall have a rugged powder coat finishing.

a) Black or White powder coat finishes shall be available as color option.

b) Other powder coat colour options shall be available on request.

7. The luminaire shall feature a passive cooling system.
8. The luminaire dimentions shall be:

    a: W: 124 mm (4.8") H: 200 mm (7.8") D: 150 mm (5.9")

    b: The luminaire shall weight no more than 1,15 Kg (2,53 lbs) without optic.

3. LED Emitters

1. The luminaire shall feature a LED source comprising of a single 25W White LED emitter available in 2.700K, 3.000K, 4.000K, 5.600K, 35W Variable White LED emitter or 40W RGB + Warm White LED emitter customized for Prolights.
2. The luminaire shall feature an LED source consisting only of LED emitters from a know production batch and bin.
3. The luminaires shall feature only LED emitters rated for nominal 50'000-hours LED life to L70.
4. 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: 20°-40° Profile Zoom, 15°-30° Wash Zoom and 25°-50° Wash Zoom.

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

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

- The luminaire shall have a colour temperature of +/- 125 K from the selected White LED source (2.700K, 3.000K, 4.000K, 5.600K) with LEDs at full on.
- The RGB+Warm White version shall have a colour temperature within 100 K of the target colour temperature when set to a preset of 3.200 K or 5.600 K.
- The luminaire shall have a CRI in excess of 90 for all White or RGB+Warm White LED source variant.
- The luminaire shall have an output in excess of 1'586 lm with mounted zoomable profile lens at 40° for the white light source of 2.700 K.
- The luminaire shall have an output in excess of 1'676 lm with mounted zoomable profile lens at 40° for the white light source of 3.000 K.
- The luminaire shall have an output in excess of 1'810 lm with mounted zoomable profile lens at 40° for the white light source of 4.000 K.
- The luminaire shall have an output in excess of 1'869 lm with mounted zoomable profile lens at 40° for the white light source of 5.600 K.
- The luminaire shall have an output in excess of 360 lm with mounted zoomable profile lens at 40° for the RGB+Warm White Light Source.
- he luminaire shall have an output in excess of 810 lm with mounted zoomable profile lens at 40° for the Variable White Light Source.

6. Electrical

1. The luminaire shall feature an external Constant Current PSU and Driver max 700mA/36V for the White Light Source, and 1.4A/4.5V for the RGB+Warm White Light Source.
2. The luminaire shall feature a nominal power consumption of 33 W for Variable White and Fix White versions and 35 W for the RGB+Warm White version.
3. The luminaire shall meet all requirements of the LVD (Low Voltage Directive) 2014/35EC and with the EMC (Electromagnetic Compatibility Directive) 2014/30/EU.

7. Optical

1. The light beam should have a 2-to-1 centre-to-edge drop-off ratio.
2. The luminaire shall provide, but not be limited to:

a) Low gate and beam temperature.

b) Sharp imaging through a three plane shutter design when using Profile lens.

3. The units shall provide, but not be limited to:

a) Zoomable 10 - 20 degrees Profile Lens.

b) Zoomable 20 – 40 degrees profile Lens.

c) 8° Profile Lens.

d) Zoomable 15 - 30 degrees Wash Lens.

e) Zoomable 25 - 50 degrees Wash Lens.

f) High quality pattern imaging.

g) Sharp shutter cuts without elation.

h) Shutter warping and burnout in normal use shall be unacceptable.

i) Adjustable hard and soft beam edges.

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 passive convention cooled.

9. Accessories

The following accessories shall be available as an optional:

1. Full Snoot.
2. Half Snoot.
3. Anti-glare louvre.
4. Barndoor and Filter frame holder.
5. Gobo Holder with manual adjustable index position system.
6. Ceiling adapter Kit.

7. Flange for Ceiling adapter Kit.
8. Zoomable Wash Lens 25-50 degrees.
9. Zoomable Wash Lens 15-30 degrees.
10. Zoomable Profile Lens 20-40 degrees.
11. Zoomable Profile Lens 10-20 degrees.
12. Fix profile Lens 8 degrees.
13. Track Adaptor.

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