

# Tender Specifications



## ECLDISPLAYCAS

25W White LED gallery light  
(CASAMBI control on-board)

## **1. General**

1. The luminaire shall be an architectural projector which shall completed by a zoomable profile framing (20°-40° / 10°-20°) or profile framing fix (8°, 18°, 36°, 50°) or zoomable wash light (15°-30° / 25°-50°) optics.
2. The luminaire shall be CE, RCM.
3. The luminaire shall comply with the White LED Driver Wireless Dimmable 1.100%, by CASAMBI control.
4. The luminaire shall be 2.700K, 3000K, 4000K, 5.600K White featuring an average CRI in excess of 90 Ra when measured across the full temperature range.
5. The luminaire shall feature an LED source with a power of 30W.
6. 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 thermoplastic 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 wash light.
  - 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.
3. The luminaire shall feature an integral frame holder including safety locks and top latch.
4. The luminaire shall feature an adjustable yoke constructed from die-cast aluminium that allows a minimum of 300° tilt rotation and 360° pan rotation.
5. The luminaire shall feature 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 colour option.
  - b) Other powder coat colour options shall be available on request.

7. The luminaire shall feature integral power and electronics.
8. The luminaire shall feature a passive cooling system.
9. The luminaire dimensions shall be:
  - a. W: 141 mm (5.5") H: 200 mm (7.8") D: 150 mm (5.9")
  - b. The luminaire shall weight no more than 1,4 Kg (3,08 lbs) without optic.

### **3. LED Emitters**

1. The luminaire shall feature a LED source 25W White LED emitter customized for Prolights.
2. The luminaire shall feature a 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.
5. The luminaire shall feature adjustable PWM frequency to include 25'000 Hz.

### **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: 8° Profile, 18° HD Profile, 36° HD Profile, 50° HD Profile, 20°-40° and 10°-20° Profile Zoom, 15°-30° 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 which should be supported by the photometric documentation:
  - The luminaire shall have a colour temperature within +/- 150 K of the target colour temperature.
  - The luminaire shall have a CRI in excess of 90 Ra when measured across the full temperature range.
  - The luminaire shall have an output in excess of 1'586 lm @ Full On, with mounted zoomable profile lens at 40° and 2700 K white LED.
  - The luminaire shall have an output in excess of 1'676 lm @ Full On, with mounted zoomable profile lens at 40° and 3000 K white LED.
  - The luminaire shall have an output in excess of 1'810 lm @ Full On, with mounted zoomable profile lens at 40° and 4000 K white LED.
  - The luminaire shall have an output in excess of 1'869 lm @ Full On, with mounted zoomable profile lens at 40° and 5600 K white LED.

## 6. 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 30 W.
3. The luminaire shall feature main input 1 meter cable bare-end.
4. The luminaire shall be compatible with CASAMBI Bluetooth APP.
5. 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 glare 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) 18° HD Profile Lens.
- e) 36° HD Profile Lens.
- f) 50° HD Profile Lens.
- g) Zoomable 15 - 30 degrees Wash Lens.
- h) Zoomable 25 - 50 degrees Wash Lens.
- i) High quality pattern imaging.
- j) Sharp shutter cuts without elation.
- k) Shutter warping and burnout in normal use shall be unacceptable.
- l) 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 convection cooled.
- 4. Thermal management shall include LED array circuit board temperature sensor.

## **9. Control And User Interface**

- 1. The luminaire shall be equipped with CASAMBI Driver on-board.
- 2. The luminaire shall be compatible with CASAMBI Bluetooth APP.

## **10. Dimming**

- 1. The luminaire shall feature continuous smooth and linear dimming of intensity from 1% to 100%.

## **11. 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. Fix HD Profile Lens 18 degrees.
14. Fix HD Profile Lens 36 degrees.
15. Fix HD Profile Lens 50 degrees.
16. Track Adaptor.

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