

Tender Specifications



ECLMINICC

18W White LED gallery light, constant current.
Connects to an external PSU and driver

1. General

1. The luminaire shall be an architectural projector which shall be completed by profile framing optics (19°,26°,36°,50°) or washlight (15°-30° / 25°-50°) optics.
2. The luminaire shall be CE compliant.
3. The luminaire shall be available in the following light source variants: 2.700K, 3.000K, 4.000K, 5.600K; all featuring an average CRI in excess of 90 Ra.
4. The luminaire shall feature an LED source with a power of 18W.
5. The luminaire shall not infringe any Intellectual Property unless licenced by the owner.

2. Physical

1. The luminaire shall be constructed from a combination 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 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 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 color 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: 126 mm (5.0") H: 170 mm (6.8") D: 95 mm (3.6")

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 18W White LED emitter available in 2.700K, 3.000K, 4.000K, 5.600K designed and 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 which 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 luminaire shall have a CRI in excess of 90 for all White LED source variant.
 - The luminaire shall have an output in excess of 1'100 lm with mounted 26° profile or 15°/30° - 25°/50° zoomable wash lens with white light source of 2.700 K.
 - The luminaire shall have an output in excess of 1'100 lm with mounted 26° profile or 15°/30° - 25°/50° zoomable wash lens with white light source of 3.000 K.
 - The luminaire shall have an output in excess of 1'200 lm with mounted 26° profile or 15°/30° - 25°/50° zoomable wash lens with white light source of 4.000 K.
 - The luminaire shall have an output in excess of 1'200 lm with mounted 26° profile or 15°/30° - 25°/50° zoomable wash lens with white light source of 5.600 K.

6. Electrical

1. The luminaire shall feature an external Constant Current PSU and Driver max 500mA/36V.
2. The luminaire shall feature a nominal power consumption of 18 W.
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 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) 19, 26, 36, 50, degrees Profile Lens.
 - b) 15 - 30 and 25 - 50 degrees Zoom Wash Lenses.
 - c) High quality pattern imaging.
 - d) Sharp shutter cuts without elongation.
 - e) Shutter warping and burnout in normal use shall be unacceptable.

f) 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.

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. Zoomable Wash Lens 25-50 degrees.
6. Zoomable Wash Lens 15-30 degrees.
7. Profile Lens 19, 26, 36, 50 degrees with gobo holder included.
8. Track Accessories.

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