

OVERSTRAND MUNICIPALITY: ELECTRICITY DEPARTMENT

TENDER SC 873/2010

Specifications : LUMINAIRE

The luminaire shall consist of a separate lamp, control gear and spigot compartment. The control gear housing shall be separated from the lamp housing for thermal reasons.

The luminaire shall bear the SANS 475 mark and the SANS 60598-2-3 safety mark.

Luminaire spigot entries shall comply with SANS 1088 - Table 1. Side entry - 042mm x 125mm, Bottom entry - 076mm x 75mm.

The luminaire shall have a degree of protection that complies with SANS 60598-2-3.

Lamp compartment: IP66

Gear compartment: IP66.

The IP rating shall be certified by a SABS test report.

The housing shall be robustly constructed, weatherproof, hail proof, corrosion proof and vandal resistant material and shall be grey in colour. An exterior lip shall be provided on the lamp housing to avoid direct rain water contact with the gasket, thus ensuring that no moisture shall be sucked into the diffuser when the luminaire shall be switched off and cools down.

The non-discolouring high-impact acrylic diffuser bowl shall have no external prisms and shall be held to the housing by at least three stainless steel clips. It shall remain attached to the housing when hinged open.

The gasket sealing the lamp compartment shall be made of silicon sponge rubber and shall be fitted into a tongue-and-groove arrangement. Reflectors shall be manufactured from 99.98% super pure deep anodized aluminium and shall not be subject to accidental misalignment. The lamp holder shall comply with VC 8011, shall be rated to withstand 240°C/5kV and shall prevent possible loosening of the lamp caused by vibrations.

The control gear compartment shall be manufactured from a material to ensure excellent heat dissipation and optimum strength. It shall be covered by a hinged, non corrosive lid which shall fit into a silicon sponge gasket in the body, into a tongue-and-groove arrangement. The IP66 ingress protection rating shall ensure that all control gear components shall be protected against the ingress of dust and moisture, thus preventing corrosion and premature failure. The control gear shall be mounted on a removable gear tray and shall be suitable for operation with the specified rating of the lamp on a 230V +3%/-10% 50Hz single phase system.

All control gear components shall be removable. Igniters, where applicable, shall be of the superposed pulse type. The luminaire shall be power factor corrected to a minimum of 0,9.

The separate spigot compartment shall house the screw terminal block and wire clamp. No access to the control gear compartment shall be required for installation, thus possible damage to the control gear shall be avoided. An optional down facing miniature daylight switch can be fitted into this compartment, giving it protection against UV and ensuring extended service.