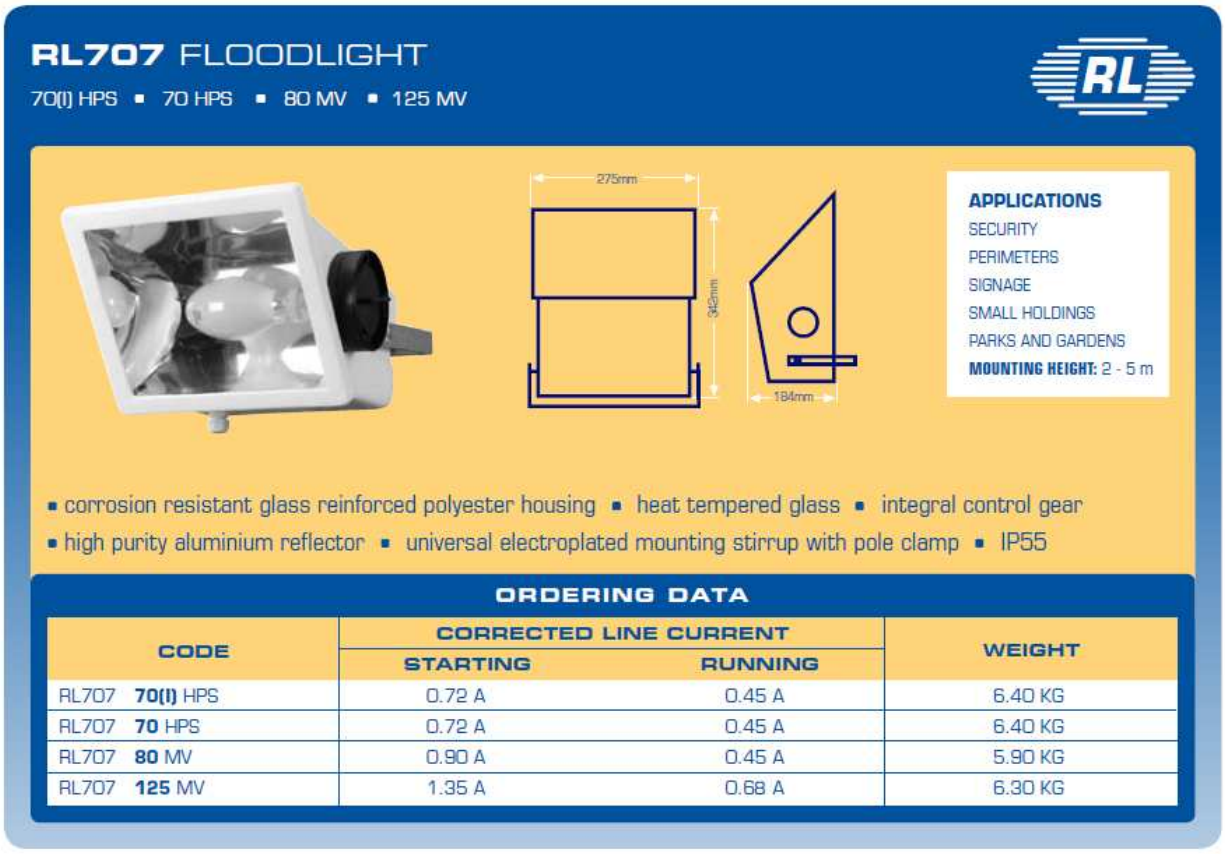
## Subject: RL 707 floodlight




| CODE | CORRECTED LINE CURRENT | | WEIGHT |
|---|---|---|---|
| | STARTING | RUNNING | |
| RL707 **70(I)** HPS | 0.72 A | 0.45 A | 6.40 KG |
| RL707 **70** HPS | 0.72 A | 0.45 A | 6.40 KG |
| RL707 **80** MV | 0.90 A | 0.45 A | 5.90 KG |
| RL707 **125** MV | 1.35 A | 0.68 A | 6.30 KG |

## Luminaire Housing

The Reeflite fibreglass luminaire range consists of white gel-coated fibreglass housing and is manufactured using the following materials:

### Floodlight Headpiece

The headpiece is manufactured from a resilient, impact and blister resistant iso-phthalic polyester gel-coat with excellent UV stability properties with a rugged orthophthalic unsaturated polyester resin that complies with SABS 713-1999 in conjunction with 450 grams per square meter (50mm strand) fiber glass matt for improved impact resistance, flexibility and good heat dissipation. The glass is 4mm heat tempered for impact resistance and is secured by using poly-urethane silicone sealant. The headpiece contains a 30% glass filled Nylon lamp holder assembly to ensure the lamp maintains a constant position. The lamp holder complies with VC8011, has a temperature tolerance of 240°C and is able to withstand voltage pulses of 5kV generated by the igniter.

Re-lamping is done by removing the side lamp holder cup, which is 30% glass filled Nylon. The lamp holder cup is secured by using 3 electro-plated bolts in brass inserts and is protected against the ingress of dust by using a silicone gasket. The wiring of the control gear compartment to the lamp holder is 1mm silicone insulated wire and is capable of withstanding the 5kV generated by the igniter.

### Reflector System

The luminaire is fitted with an asymmetrical reflector that is shaped in the vertical plane, 99.85% pure super deep anodized aluminium and is secured to prevent accidental misalignment.

**Gear Compartment:**

The control gear compartment is integral to the floodlight headpiece body and is enclosed by a fiber glass control gear lid, manufactures from the same material as specified for the headpiece and secured by two electro-plated 5mm bolts. The control gear lid seats with a tongue and grove arrangement on a SPR silicone gasket to ensure the IP 55 rating.

**Control Gear**

The ELT/TRIDONIC ballast complies with SABS 1266 and SABS 1267.The capacitor bears the IEC 61048 and SABS mark. The igniter, where required, is of the super-imposed type and complies with SABS 1630. All control gear components including the terminal block are mounted on a removable gear plate which is electroplated and affixed to the control gear compartment using two electro plated bolts. All interior wiring is 1mm silicon insulated wire rated at 500V and able to withstand temperatures of at least 180°C. The following colors are used, Live – red/brown, Neutral – blue/black, and Earth – Yellow and Green/green. The operational voltage for the control gear is 230V +5% -5% 50Hz single phase, power factor corrected 0.90.

## Mounting

For excellent durability in all types of weather conditions the stirrup bracket is manufactured from electroplated mild steel. A universal bracket system can be used in wall and pole mount applications with a pole diameter of 76 – 100 mm or a flat bracket for hi-mast applications. Suitable for indoor and outdoor use.

## SABS marks

All fittings bear the SANS 60598-2-5 safety mark.

## Ingress Protection

IP 55 protection for both lamp and control gear compartments.

## Guarantee

The fitting is guaranteed for life (15 Years) against deterioration due to ultra-violet radiation, hail damage and corrosion of the casing. The control gear is guaranteed for one year.

## Photometric Data

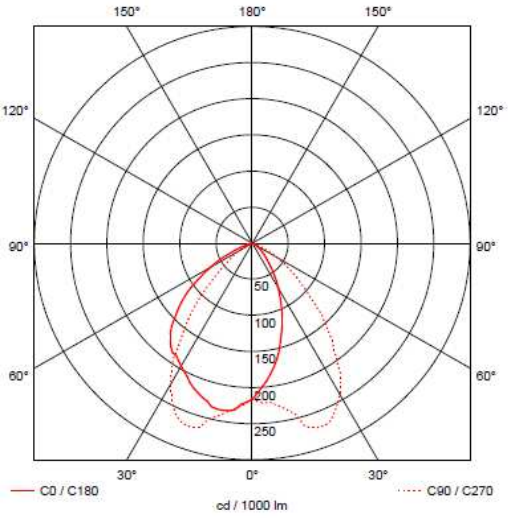



Fig 1: RL 707 125 MV