

# RL 30

## LOW INTENSITY RED OBSTRUCTION LIGHT



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### OBSTRUCTION LIGHT

The halogen bulb in the RL 30 produces a maximum amount of red light in relation to power consumption. See diagram 1. For comparison, the spectral light distribution from a mercury lamp is shown in diagram 2.

### DESIGN

The light consists of a housing (3) in which a ring-core transformer is mounted (4). On top of the transformer is a halogen bulb (2) surrounded by a cover (1) of polycarbonate. The light is powered by single-phase 230VAC and maximum consumption is 115W. The halogen bulb is a standard QT, 6.6A/200W BA 15D with an operating voltage reduced to 21VAC. The halogen bulb is small and easy to carry. Both bulb and cover can be replaced with one hand. The weight is 3,8 kg.

### VIBRATION-RESISTANT

The halogen bulb is protected against vibration and shocks via a vibration absorber.

### HIGH RESISTANCE TO CHEMICALS

The housing is made of electropolished stainless steel. The cover is made of UV-stabilized polycarbonate.

### WIDE TEMPERATURE RANGE

The light withstands all existing outdoor temperatures when vertically mounted and with free air circulation.

### ROBUST CONSTRUCTION

The light withstands strong winds containing rain, snow or sand.

### HIGH LIGHT INTENSITY

RL 30 conforms well to Swedish and international (ICAO) (FAA) regulations for marking obstacles to aviation inside and outside airfield areas. The CIE colour coordinates of the light comply with the regulations governing red obstruction lights.

### HIGH RELIABILITY

With minimum maintenance providing constant 220VAC input voltage, the *theoretical* average life of the halogen bulb is about 86,400 hours (1 year=8,640 hours), calculated from the formula:

$$L = \left( \frac{V_n}{V} \right)^{14} \cdot L_n$$

L = average life                      V = voltage  
L<sub>n</sub> = nominal average life    V<sub>n</sub> = nominal voltage

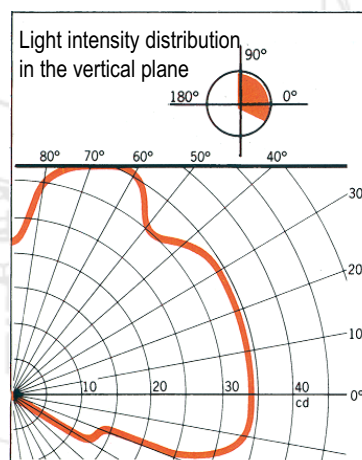
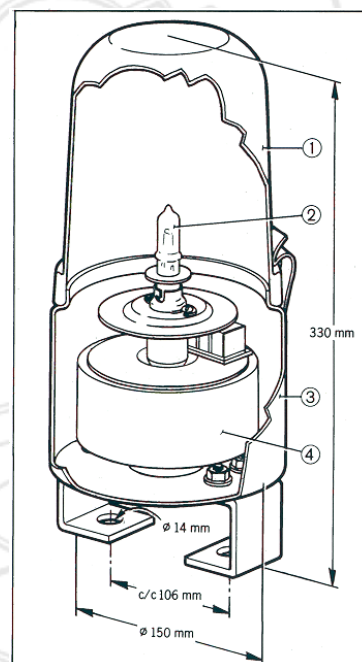


DIAGRAM 1

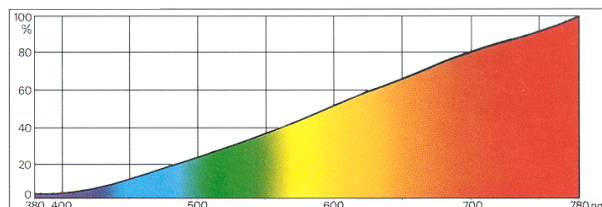


DIAGRAM 2

