

Fuse Ratings

Recommended fuse ratings (amps)

Miniature circuit breaker, HRC fuse rating 4
Rewireable fuse rating 5

Guidance for Luminaire Manufacturers

It is a characteristic of high pressure sodium lamps that there is a rise in arc voltage when run in an enclosure over that obtained when running in free air. It is important that for maximum life performance the luminaire is so designed that this arc voltage rise is limited to the value shown in the table below. It is the change in voltage that is important, not the absolute magnitude, as with all lamps there is an allowable manufacturing tolerance in their electrical characteristics. A true RMS reading instrument should be used to measure this voltage.

Rating	Permissible Voltage Rise
50W	5 Volts

Temperature Limits 50W

Maximum bulb temperature	370°C
Maximum cap temperature	210°C

British and International Standards

Lamps conform to the following standards where applicable:—

IEC 662	High Pressure Sodium Lamps
BS5101	Part 1 Lamp Caps
IEC 61—1	Lamp Caps

Packing

Individual Carton Dimensions mm	70x70x165
Individual Weight kg	0.08
Bulk Pack Dimensions mm	445x445x185
No. in outer Pack	36
Weight kg	3.13

Operation and Maintenance

Guide for the installation, operation and disposal of high pressure sodium lamps (SON).

Before Use

Always isolate the equipment from the electricity supply before inserting or replacing a lamp.

Check that the replacement lamp is the correct type for the application. This includes checking that the lamps voltage (if applicable), wattage and cap are suitable for use in the circuit and with the control gear.

Ensure that the lamp is correctly located in the lampholder and the glass bulb is not scratched during insertion.

During Use

For all lamps (unless indicated to the contrary by the manufacturer) prevent rain, snow, condensation droplets or water, splashing on the lamp as these may cause the bulb to shatter.

If the outer bulb is broken the lamp must not be operated.

Disposal

These lamps should be broken in a container. Precautions must be taken against flying glass or other fragments. The operation should be carried out outdoors (or in a well-ventilated area). With high pressure sodium lamps it is not necessary to break up the inner arc tube. The debris of large quantities of lamps must be disposed of in accordance with the rules of the Local Authority.

Thorn Lighting reserve the right to alter the specification without prior notice or public announcement.