



Simplicity itself

Selenium



**PHILIPS**







## Universal solution

Selenium is the most recent addition to the Philips road lighting family. It is the latest in a long line of efficient, reliable and ergonomic luminaires that combine an extremely durable aluminium housing with the outstanding optical performance of the T-POT reflector. Thanks to the simplicity of its design, Selenium is suitable

for all road lighting applications, e.g. motorways, major, minor and country roads, crossroads, roundabouts, etc.

Selenium has been optimised for use with high-pressure sodium lamps of between 50 W and 250 W to ensure it fulfils all your lighting needs.





## Simple and efficient

The construction of Selenium is basic and simple, making it easy to handle the luminaire. Installation and maintenance operations are carried out from above to ensure an ergonomically sound working position for the technician.

The standard colour of Selenium is RAL 7035, enabling it to integrate unobtrusively in the daytime urban environment. Other RAL colours are available as an option.

### **Extremely durable**

Selenium is distinctive and, with its high-quality materials, is set to stand the test of time.

Selenium is vandal-proof, thanks to the high impact resistance of its die-cast aluminium body, high-security flat glass and UV-stabilised polycarbonate bowl. Furthermore, the use of materials that can be recycled many times makes it environmentally friendly. Selenium can be completely dismantled at the end of its life, and all parts can be recycled separately.

### **IP66**

Selenium is protected against the ingress of water and dust: both the optical block and the gear unit are IP66, ensuring a long service life. The air exchange is filtered at the back of the luminaire.

### **Energy savings**

With a choice of dimming systems, Selenium permits real energy savings by reducing the lighting level when the traffic density is low. Two different systems are available: a switch device or a stand-alone electronic timing device, Chronosense. Both solutions reduce the lighting level by 50%. Colour rendering is still assured and uniformity is maintained, which is important for identifying obstacles.

For automatic night-time switching, Selenium can be delivered with either a Nemasocket or a minicell.

### **Preventing light pollution**

Light pollution is an increasingly important issue in contemporary urban life. When used in the horizontal position with the flat glass, Selenium can emit zero light in the upward direction.



# Meeting your lighting requirements

## 1 Optical performance

The Philips Optical Technology (POT) has proven its value in the market over a number of years. Selenium is equipped with the highly successful T-POT reflector. It performs best with SON-T high-pressure sodium lamps and meets the road-lighting conditions prescribed by the CEN norm.

## 2 Kombi version

The SON-T high-pressure sodium lamps can be supplied with the luminaires (MASTER SON-T PIA Plus type).

## 3 Adjusting the lamp holder

The lamp is adjustable in five positions, offering maximum flexibility to ensure the best light distribution. The default setting is position 3, the middle position. Adjustment is realised by moving the gear plate to which the lamp holder is fixed. A mechanical 'memory' ensures that the setting is not lost if the gear tray is removed.

## 4 Tilt angle

The tilt angle is adjustable for post-top and side-entry mounting to ensure maximum flexibility. Three positions are possible: 0°, 5°, 15° for post-top and 0°, -10°, -15° for side-entry.

If the bracket has an angle of 15° and the luminaire needs to be at 0°, the adjustment corrects the 15°. The adjustment is done by placing the spigot in the right position.

## Two types of bowl

Selenium offers a choice of two types of bowl: a polycarbonate bowl, which is vandal-resistant and offers the largest spacing and optimum visual guidance, and a flat glass, which has an accentuated cut-off to reduce glare and prevent light pollution and offers acceptable guidance.





# Easy to install and maintain

Installation is quick and easy, and maintenance is always carried from above to ensure that the technician is in an ergonomically sound position. The high level of protection (IP66) for the whole luminaire eliminates the need to clean the optical system and prolongs the lifetime of the optic.

## 1 Installation

The spigot fixing system is integrated in the luminaire and is reversible. Installation on top of a mast or on a bracket is very simple. The standard spigot adapter is suitable for post-top or side-entry mounting (42-60 mm). Additional spigot adapters are available for side-entry (34 mm) or post-top (76 mm) mounting.

## 2 Opening the luminaire

The clip and seal have been designed to facilitate the IP66 of the whole luminaire. The clip is integrated in the canopy and is easy to use.

## 3 Cabling

The cable passes through a M25 cable gland and the power supply is easily connected by means of a plug-and-socket connector.

## 4 Inserting and replacing the lamp

No tools are required for lamp insertion or replacement. The lamp holder is fixed to the gear plate. To insert the lamp, the gear plate is removed by means of the handle. The gear plate is fixed to the luminaire by two rotating clips.

## Changing the bowl

The bowl or glass is held in place by five standard screws. The bowl/glass can be changed easily by removing the screws.

## Changing the gear tray

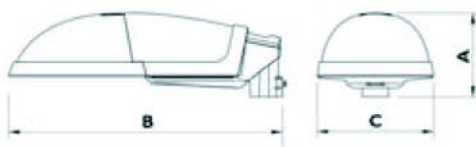
The gear tray is fixed in such a way that it is easy to remove. After disconnecting the cable, just turn the two rotating clips and take out the gear tray. The class II cover is fixed by three standard screws.



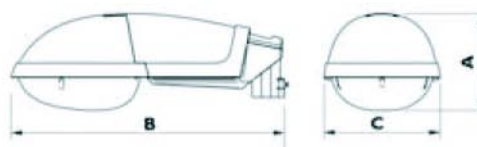


# Technical data

## Dimensions



A = 232 mm B = 755 mm C = 321 mm



A = 268 mm B = 755 mm C = 321 mm

## General characteristics

|                           |                                    |
|---------------------------|------------------------------------|
| Approbation               | ENEC                               |
| Ingress protection (IP)   | IP66 for lamp and gear compartment |
| Installation, post-top    | 42-60 mm / 76 mm                   |
| Installation, side-entry  | 34-42 mm / 42-60 mm                |
| Standard colour           | Grey RAL 7035                      |
| Optional colours          | RAL 9005 (black)                   |
|                           | RAL 5015 (blue)                    |
|                           | RAL 6018 (light green)             |
|                           | RAL 6005 (dark green)              |
|                           | RAL 3005 (red)                     |
|                           | RAL 9006 (metallic grey)           |
|                           | RAL 9010 (white)                   |
| Projected area, side view | 0.14 m <sup>2</sup>                |
| SCx, side wind            | 0.077 m <sup>2</sup>               |
| SCx, front wind           | 0.020 m <sup>2</sup>               |
| Weight (average)          | 10.5 kg                            |

## Suitable lamp types

| Lamp           | FG | PC |
|----------------|----|----|
| SON-T/-E 50W   | x  | x  |
| SON-T/-E 70W   | x  | x  |
| SON-T/-E 100W  | x  | x  |
| SON-T /-E 150W | x  | x  |
| SON-T 250W     | x  | -  |
| HPL-N 50W      | x  | x  |
| HPL-N 80W      | x  | x  |
| HPL-N 125W     | x  | x  |
| HPL-N 250W     | -  | x  |

FG : flat glass

PC : polycarbonate bowl

MASTER SON-T PIA lamps can be delivered together with the luminaire (Kombi version).

## Materials and finish

|                             |   |
|-----------------------------|---|
| Canopy and frame            | High-pressure-diecast aluminium, painted RAL 7035 |
| Spigot                      | High-pressure-sandblasted diecast aluminium       |
| Bowl                        | UV-stabilised vandal-resistant polycarbonate      |
| Flat glass                  | Toughened glass                                   |
| Closing clip                | Stainless steel                                   |
| Hinge                       | High-pressure-diecast aluminium, painted RAL 7035 |
| Gear tray canopy (class II) | Polypropylene or polyamide                        |
| Reflector                   | High-purity aluminium                             |
| Gaskets                     | Silicone  |

## Electrical options

- Class I and II
- 220 V, 230 V, 240 V
- Standard or self-stopping, semi-parallel or series ignitors
- Fuse optional
- Nemasocket or minicell optional
- Dimming with switch or Chronosense optional
- Knife connector optional

## Product description

| Product description | Abbreviation | Full description                     |
|---------------------|--------------|--------------------------------------|
| Housing             | SGP340       | Complete product                     |
|                     | EGP340       | Electrical unit                      |
| Lamp type           | E27          |                                      |
|                     | E40          |                                      |
|                     | SON-T        |                                      |
|                     | SON-E        |                                      |
|                     | HPL-N        |                                      |
| Kombi               | K            | Delivered with MASTER SON-T PIA lamp |
| Mains voltage       | 220 V        | Suitable for 220 V / 60 Hz           |
|                     | ( )          | Suitable for 230 V / 50 Hz           |
|                     | 240 V        | Suitable for 240 V / 50 Hz           |
| Class               | I            | Class I                              |
|                     | II           | Class II                             |
| Cover               | PC           | Polycarbonate bowl                   |
|                     | FG           | Flat glass                           |
| Colour              | ( )          | Grey RAL 7035                        |
|                     | RAL 9005     | Painted RAL 9005                     |
| Ignitor             | SP           | Semi-parallel                        |
|                     | ST           | Semi-parallel self-stopping          |
|                     | SI           | Series                               |
|                     | SS           | Series self-stopping                 |
| Capacitor           | ( )          | Yes                                  |
|                     | I            | No                                   |
| Dimming             | ( )          | No                                   |
|                     | SW           | Switch                               |
|                     | CH           | Chronosense                          |
| Photocell           | ( )          | No                                   |
|                     | P1           | Nemasocket                           |
|                     | P3           | Minicell                             |
| Fuse                | ( )          | No                                   |
|                     | FU           | Fuse                                 |
| Knife connector     | ( )          | No                                   |
|                     | KC           | Knife connector                      |
| Spigot              | 42/60        | For diameters 42 to 60 mm            |
|                     | 34S          | For diameter 34 mm                   |
|                     | 76P          | For diameter 76 mm                   |

## Examples of a product designation

SGP340 SON-T150W K II FG SP 42/60  
SGP340 HPL-N80W 240V I PC 9005 P3 34S



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For more information  
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| <b>Product designation</b>        | <b>EOC</b> |
|-----------------------------------|------------|
| SGP340 SON-T50W K I PC SP 42/60   | 126517 00  |
| SGP340 SON-T70W K I PC SP 42/60   | 126524 00  |
| SGP340 SON-T100W K I PC SP 42/60  | 126531 00  |
| SGP340 SON-T150W K I PC SP 42/60  | 126548 00  |
| SGP340 SON-T50W K II PC ST 42/60  | 126722 00  |
| SGP340 SON-T70W K II PC ST 42/60  | 126739 00  |
| SGP340 SON-T100W K II PC ST 42/60 | 126746 00  |
| SGP340 SON-T150W K II PC ST 42/60 | 126753 00  |
| SGP340 SON-T250W K II PC ST 42/60 | 126555 00  |
| SGP340 SON-T50W K II FG ST 42/60  | 126760 00  |
| SGP340 SON-T70W K II FG ST 42/60  | 126777 00  |
| SGP340 SON-T100W K II FG ST 42/60 | 126784 00  |
| SGP340 SON-T150W K II FG ST 42/60 | 126791 00  |
| SGP340 SON-T250W K II FG ST 42/60 | 126807 00  |

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