

## SHP-S/SHP-TS Super

SA SHP-TS 100W E40 SLV

### 0020686



#### Range Features

- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- Exclusive frameless construction delivers superior system efficiency and improves lumen maintenance over life
- Exceptional reliability, offering 4 years service with over 95% lumen maintenance
- Super versions with high xenon pressure boost luminous efficacy up to 150 lm/W
- Offers increased lighting levels and an extended maintenance-free service life in all road and industrial applications



### PRODUCT OVERVIEW

Lamp finish	clear
Lamp shape	tubular
Colour temperature (K)	2050
CRI (Ra)	20
Dimmable	Yes
EAN code	5410288206868
Energy class	A+
Cap/Base	E40
Type	SHP-TS
Watt (Nominal) (W)	100
Light colour	0
Ordering number	0020686
Efficacy (Rated) (lm/w)	108
Average life (Rated) (h)	30000
Luminous flux (Rated) (lm)	11000
Technology	HID
Voltage (V)	100

### DATA TABLE

#### Optical data

Ambient temperature for maximum luminous flux (°C)	25
Colour temperature (K)	2050
CRI (Ra)	20
Light colour	0
Luminous flux (Nominal) (lm)	10700

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Rated lumen maint. factor at 12000 h	0.91
Rated lumen maint. factor at 12000 h 50Hz	0.91
Rated lumen maint. factor at 16000 h	0.9
Rated lumen maint. factor at 16000 h 50Hz	0.9
Rated lumen maint. factor at 20000 h	0.89
Rated lumen maint. factor at 20000 h 50Hz	0.89
Rated lumen maint. factor at 2000 h	0.98
Rated lumen maint. factor at 2000 h 50Hz	0.98
Rated lumen maint. factor at 4000 h	0.96
Rated lumen maint. factor at 4000 h 50Hz	0.96
Rated lumen maint. factor at 6000 h	0.94
Rated lumen maint. factor at 6000 h 50Hz	0.94
Rated lumen maint. factor at 8000 h	0.93
Rated lumen maint. factor at 8000 h 50Hz	0.93
Luminous flux (Rated) (lm)	11000

#### General data

Average life (Nominal) (h)	30000
Control gear required	yes
Lamp finish	clear
Lamp shape	tubular
Dimmable	Yes
EAN code	5410288206868
Energy class	A+
Fixture rating	open
General application	Logistics and Industry; Outdoor
IEC Reference	IEC 60662
IEC Reference 2	IEC 62035
Intended purpose	General lighting
Cap/Base	E40
Lamp mercury content (mg)	14.4
Type	SHP-TS
Life T90	16000

## SHP-S/SHP-TS Super SA SHP-TS 100W E40 SLV 0020686

<b>Notes</b>	<p>Sylvania SHP lamps can be dimmed with negligible impact on performance creating the potential for flexible light levels and reduced energy consumption.</p> <p>Dimming is supported on electronic square wave ballasts and magnetic systems that can maintain the open circuit voltage. Square wave operation is recommended.</p> <p>Dimming causes a reduction of light and some colour change. We advise to start the lamps at full power and to hold this for 15 minutes before reducing the power. To avoid extinguishing the power should be adjusted gradually taking a few minutes to reach the final dimming condition.</p> <p>Square wave dimming down to 50% of the rated power will have negligible impact on performance, dimming down to 35% of the rated power can affect lumen maintenance and colour appearance.</p> <p>Dimming by means of voltage on magnetic systems is not advised as this increases the chance of lamp extinguishing. Dimming by phase-cutting on magnetic systems is not allowed. Instant dimming on magnetic systems by adding an impedance is suggested down to 50% of the rated power but the average life can be reduced.</p>
<b>Ordering number</b>	0020686
<b>Range features</b>	<p>Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life</p> <p>Exclusive frameless construction delivers superior system efficiency and improves lumen maintenance over life</p> <p>Exceptional reliability, offering 4 years service with over 95% lumen maintenance</p> <p>Super versions with high xenon pressure boost luminous efficacy up to 150 lm/W</p> <p>Offers increased lighting levels and an extended maintenance-free service life in all road and industrial applications</p>
<b>Product name</b>	SA SHP-TS 100W E40 SLV
<b>Average life (Rated) (h)</b>	30000
<b>Rated survival factor at 12000 h</b>	0.96
<b>Rated survival factor at 12000 h 50Hz</b>	0.96
<b>Rated survival factor at 16000 h</b>	0.9
<b>Rated survival factor at 16000 h 50Hz</b>	0.9
<b>Rated survival factor at 20000 h</b>	0.81
<b>Rated survival factor at 20000 h 50Hz</b>	0.81
<b>Rated survival factor at 2000 h</b>	1
<b>Rated survival factor at 2000 h 50Hz</b>	1
<b>Rated survival factor at 4000 h</b>	1
<b>Rated survival factor at 4000 h 50Hz</b>	1
<b>Rated survival factor at 6000 h</b>	0.99
<b>Rated survival factor at 6000 h 50Hz</b>	0.99
<b>Rated survival factor at 8000 h</b>	0.99
<b>Rated survival factor at 8000 h 50Hz</b>	0.99
<b>Special purpose lamp</b>	No

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<b>Technology</b>	HID
<b>Transformer required</b>	no
<b>Sales pack quantity</b>	1
<b>E-number SE</b>	8358013
<b>E-number FI</b>	4845508

#### Electrical data

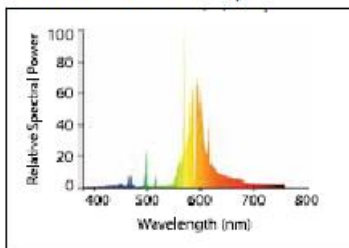
<b>Current (A)</b>	1.2
<b>Ignition voltage (V)</b>	0
<b>kWh per 1000 hours burning time</b>	110
<b>Watt (Nominal) (W)</b>	100
<b>Efficacy (Rated) (lm/w)</b>	108
<b>Watt (Rated) (W)</b>	100
<b>Voltage (V)</b>	100

#### Physical data

<b>Max. Lamp Diameter (mm) - D</b>	48
<b>Lamp Length (mm) - C/L</b>	211
<b>Single packaging type</b>	Box/Sleeve
<b>Weight (kg)</b>	0.12
<b>Outer package dimensions (L x W x H) (cm)</b>	28.00 x 23.00 x 25.00
<b>Single package dimensions (L x W x H) (cm)</b>	22.50 x 5.00 x 5.00

## PHOTOMETRY

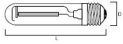
Sodium SHP-(T)S Super



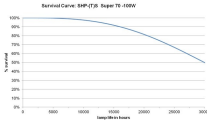
## TECHNICAL DRAWINGS

## SHP-S/SHP-TS Super SA SHP-TS 100W E40 SLV 0020686

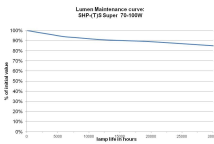
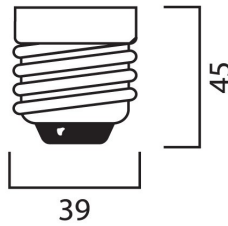
SHP-TS



SHP-TS	35W	50W	70W	100W	150W	250W	400W
L	156	156	211	211	260	292	
D	39	39	48	48	48	48	



E40



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**SYLVANIA** 0020686

**A++**  
**A+**  
**A**  
**B**  
**C**  
**D**  
**E**

**A+**

110 kWh/1000h