

# SHP-S / SHP-TS Twinarc

SA SHP-TS 100W TWINARC E40 SL

0020724



## Range features

- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- Doubled lamp life and reduced occurrence of early failures
- Exceptional reliability, offering 6 years of maintenance-free service and superior lumen maintenance, exceeding 95% over life
- Ideal for applications which are difficult to access, or where maintenance is expensive
- Perfect for tunnels, airports, military installations, harbours and industrial sites



## PRODUCT OVERVIEW

|                            |               |
|----------------------------|---------------|
| Ordering number            | 0020724       |
| Technology                 | HID           |
| Light colour               | 0             |
| Energy class               | A+            |
| Average life (Rated) (h)   | 55000         |
| Lamp shape                 | tubular       |
| Lamp finish                | clear         |
| Dimmable                   | Yes           |
| Cap/Base                   | E40           |
| Type                       | SHP-TS        |
| EAN code                   | 5410288207247 |
| CRI (Ra)                   | 20            |
| Colour temperature (K)     | 2050          |
| Luminous flux (Rated) (lm) | 10000         |
| Efficacy (Rated) (lm/w)    | 99            |
| Watt (Nominal) (W)         | 100           |
| Voltage (V)                | 100           |

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### DATA TABLE

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## General data

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordering number            | 0020724                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Technology                 | HID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Life T90                   | 24000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Average life (Nominal) (h) | 55000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Energy class               | A+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Average life (Rated) (h)   | 55000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Lamp shape                 | tubular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Lamp finish                | clear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dimmable                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cap/Base                   | E40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Type                       | SHP-TS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EAN code                   | 5410288207247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| E-number FI                | 4845530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| E-number SE                | 8358007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Notes                      | Sylvania SHP lamps can be dimmed with negligible impact on performance creating the potential for flexible light levels and reduced energy consumption.. Dimming is supported on electronic square wave ballasts and magnetic systems that can maintain the open circuit voltage. Square wave operation is recommended.. 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.. 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.. 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. |

## Range features

Range of high pressure sodium lamps with double arc tube construction. Dual arc tube design guarantees immediate re-strike after a power interruption. Doubled lamp life and reduced occurrence of early failures. Exceptional reliability, offering 6 years of maintenance-free service and superior lumen maintenance, exceeding 95% over life. Ideal for applications which are difficult to access, or where maintenance is expensive. Perfect for tunnels, airports, military installations, harbours and industrial sites

|                                      |                               |
|--------------------------------------|-------------------------------|
| Product name                         | SA SHP-TS 100W TWINARC E40 SL |
| Lamp mercury content (mg)            | 28.8                          |
| Control gear required                | yes                           |
| Fixture rating                       | open                          |
| IEC Reference                        | IEC 60662                     |
| IEC Reference 2                      | IEC 62035                     |
| Intended purpose                     | General lighting              |
| Special purpose lamp                 | No                            |
| Transformer required                 | no                            |
| Sales pack quantity                  | 12                            |
| Rated survival factor at 2000 h      | 1                             |
| Rated survival factor at 2000 h 50Hz | 1                             |
| Rated survival factor at 4000 h      | 1                             |
| Rated survival factor at 4000 h 50Hz | 1                             |

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|                                       |      |
|---------------------------------------|------|
| Rated survival factor at 6000 h       | 1    |
| Rated survival factor at 6000 h 50Hz  | 1    |
| Rated survival factor at 8000 h       | 0.99 |
| Rated survival factor at 8000 h 50Hz  | 0.99 |
| Rated survival factor at 12000 h      | 0.98 |
| Rated survival factor at 12000 h 50Hz | 0.98 |
| Rated survival factor at 16000 h      | 0.96 |
| Rated survival factor at 16000 h 50Hz | 0.96 |
| Rated survival factor at 20000 h      | 0.93 |
| Rated survival factor at 20000 h 50Hz | 0.93 |

## Optical data

|                                                    |       |
|----------------------------------------------------|-------|
| Light colour                                       | 0     |
| CRI (Ra)                                           | 20    |
| Colour temperature (K)                             | 2050  |
| Luminous flux (Rated) (lm)                         | 10000 |
| Luminous flux (Nominal) (lm)                       | 10000 |
| Ambient temperature for maximum luminous flux (°C) | 25    |
| Rated lumen maint. factor at 2000 h                | 0.98  |
| Rated lumen maint. factor at 4000 h                | 0.96  |
| Rated lumen maint. factor at 6000 h                | 0.94  |
| Rated lumen maint. factor at 8000 h                | 0.93  |
| Rated lumen maint. factor at 12000 h               | 0.91  |
| Rated lumen maint. factor at 16000 h               | 0.9   |
| Rated lumen maint. factor at 20000 h               | 0.89  |
| Rated lumen maint. factor at 2000 h 50Hz           | 0.98  |
| Rated lumen maint. factor at 4000 h 50Hz           | 0.96  |
| Rated lumen maint. factor at 6000 h 50Hz           | 0.94  |
| Rated lumen maint. factor at 8000 h 50Hz           | 0.93  |
| Rated lumen maint. factor at 12000 h 50Hz          | 0.91  |
| Rated lumen maint. factor at 16000 h 50Hz          | 0.9   |
| Rated lumen maint. factor at 20000 h 50Hz          | 0.89  |

## Electrical data

|                                 |     |
|---------------------------------|-----|
| kWh per 1000 hours burning time | 110 |
| Efficacy (Rated) (lm/w)         | 99  |
| Watt (Rated) (W)                | 100 |
| Watt (Nominal) (W)              | 100 |
| Voltage (V)                     | 100 |
| Ignition voltage (V)            | 0   |
| Current (A)                     | 1.2 |

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## Physical data

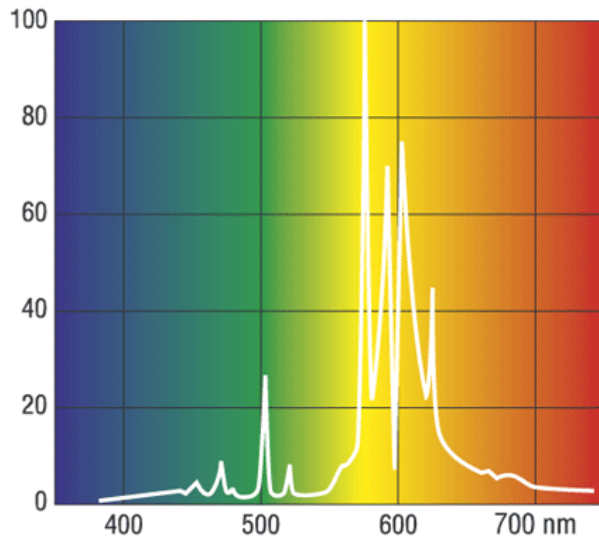
|                                            |                       |
|--------------------------------------------|-----------------------|
| Weight (kg)                                | 0.12                  |
| Lamp Length (mm) - C/L                     | 211                   |
| Max. Lamp Diameter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

## SHP-S / SHP-TS Twinarc

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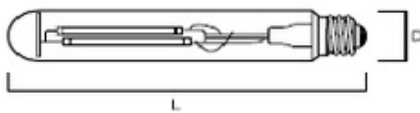
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### PHOTOMETRY



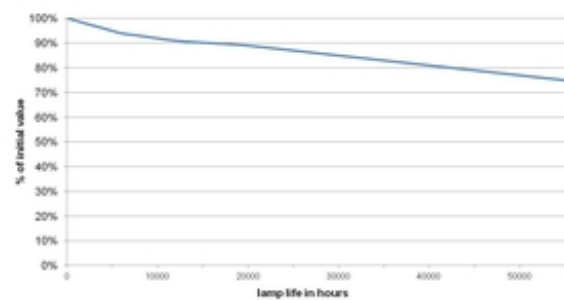
### TECHNICAL DRAWINGS

SHP-TS TwinArc



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

Lumen Maintenance curve:  
SHP-TS TwinArc 70-400W



### ENERGY LABEL

