SHP-TS delivery program

SHP-TS GroLux™

Code	Description	Watt	Volt	Amp	Mains Voltage	PAR µmol/s	Phyto-lumens	Visible lumens	Efficacy µmol/W
0020807	SHP-TS GroLux 400W	425W	120V	4.0A	230V	713	128,000	58,000	1.68
0020808	SHP-TS GroLux 600W	615W	125V	5.5A	230V	1100	200,000	90,000	1.79
0020809	SHP-TS GroLux 600W-400V	620W	200V	3.5A	400V	1180	215,000	88,000	1.90

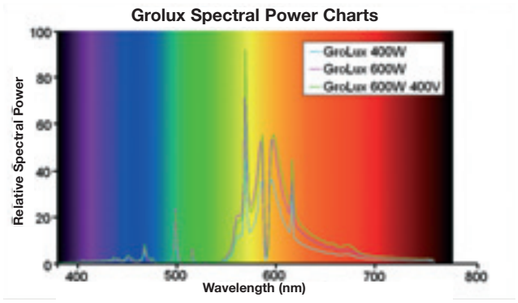
Cap: E40/45 Box quantity: 12

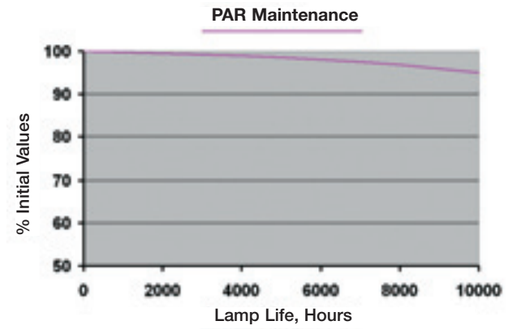
Dimensions (L x Ø): max 292 x nominal 48

SHP-TS Super™

Code	Description	Watt	Volt	Amp	Mains Voltage	PAR µmol/s	Phyto-lumens	Visible lumens	Efficacy µmol/W
0020714	SHP-TS Super 400W	400W	100V	4.5A	230V	670	120,000	55,500	1.68
0020805	SHP-TS Super 600W	600W	110V	5.9A	230V	1080	193,500	90,000	1.80

Cap: E40/45 Box quantity: 12





SLI Sylvania Lighting
Sales Enquiries

Otley Road
Shipley
BD17 7SN

T 01274 532 552
F 01274 531 672

www.sylvania-lamps.com

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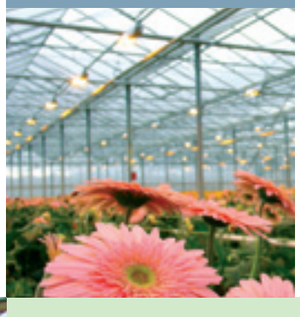
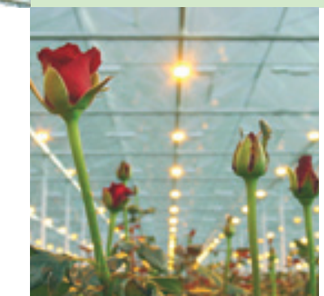


SHP-TS GroLux™

The most efficient photosynthesis lamp range in the world



SYLVANIA

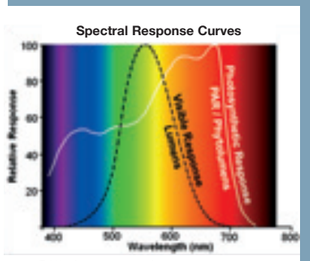
SHP-TS GroLux™

More light, better light, and more efficient

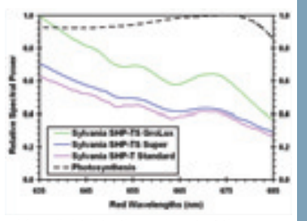
- Sylvania offers the highest-performance plant-growth lamps in the world
- The most efficient conversion of electrical energy into **P**hotosynthetically **A**ctive **R**adiation thanks to a patented arc tube design
- Performance maintained at an exceptional level thanks to improved construction outer bulb

The Sylvania spectral advantage

- Optimised for the highest Phytolumens or PAR output
- The red part of the spectrum is the most important for photosynthesis
- GroLux spectrum maximizes red output



Differing spectral response curves of plants and the human eye



More light into the red part of the spectrum than Standard and Super lamps

Advantages of Sylvania GroLux spectrum

- Thicker, longer and heavier stems of improved quality
- Faster growth rate of crops
- Opportunity for out of season crops
- Reduction of wattage load required due to more efficient spectral output

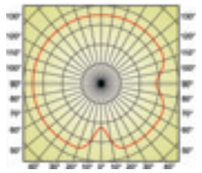
600-Watt 400-Volt lamp for professionals

- Highest Photosynthetic Efficiency (1.9 µmol per Watt)
- Improved lumen maintenance throughout lamp life
- Operates directly between two phases of mains electricity supply
- Reduced third harmonic distortion on Tri-phase mains supply in large installations
- Cabling requirements for power distribution simplified at higher line voltage

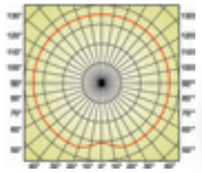
The Sylvania performance advantage

New frameless construction

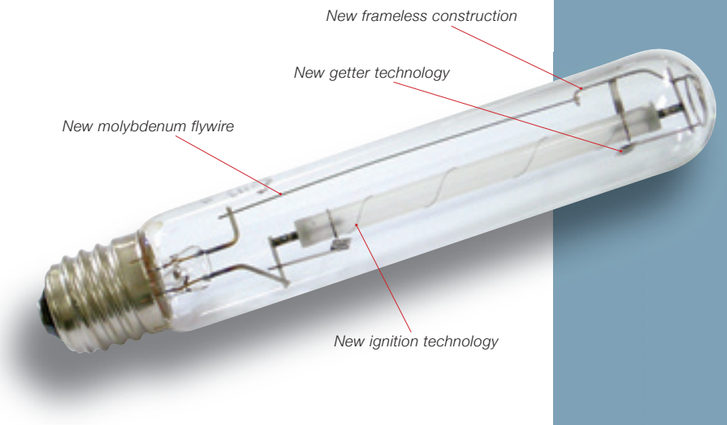
- Patented new arc tube mounting design replaces traditional metal support frame
- Self-supporting arc tube in a rugged new format
- Thin flywire replaces the old frame
- Virtually no shadow in the light output
- No second shadow from linear ignition antenna
- Significant boost of beam intensity in reflector optics



Typical Light Distribution



Sylvania Light Distribution



The Sylvania lifetime advantage

New molybdenum flywire

- Structural mount frame no longer needed
- Stops evaporation of old steel frame materials
- Enables excellent PAR maintenance throughout life

New ignition technology

- The Sylvania Wound Ignition Antenna offers the most reliable starting in sodium lamps
- Patented spiral of real wire provides optimum voltage gradient for effective ignition
- Absolutely no evaporation or deterioration of the antenna during lamp life

New getter technology

- Getter upgraded to new alloy composition, holding the outer bulb under high vacuum better than ever before
- Delivers unparalleled PAR maintenance over life

The new wound antenna ensures perfect ignition everytime

SHP-TS GroLux™