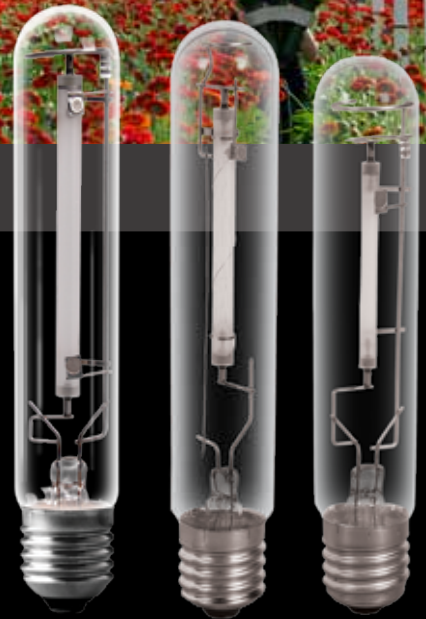


SYLVANIA



HID Horticulture Brochure

The most efficient photosynthesis lamp range



Most **Efficient**
More **Light**
Best **Quality**





SHP-TS GroLux™
Passion for Plant Growth

SYLVANIA

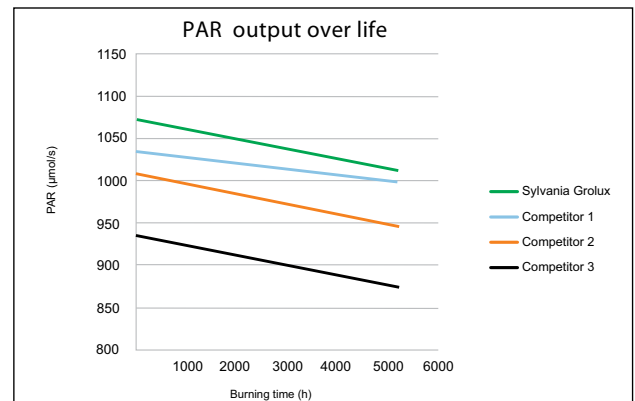
SHP-TS GroLux™

Most Efficient, More Light and Best Quality

- Sylvania offers the highest-performing plant-growth lamps in the world
- Performance maintained at an exceptional level due to improved construction of the outer bulb
- Highest Phytolumens maintenance over life thereby giving more light output at 5000 hours than initial levels of any other lamp available in market.
- The most efficient conversion of electrical energy into Photosynthetically Active Radiation thanks to a patented arc tube design

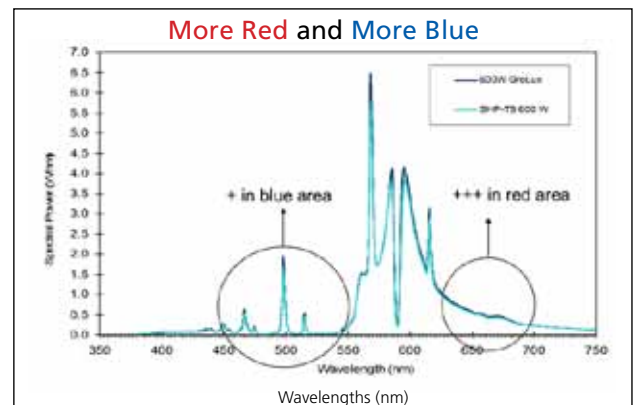
The Sylvania 'spectral' advantage

- 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
- 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

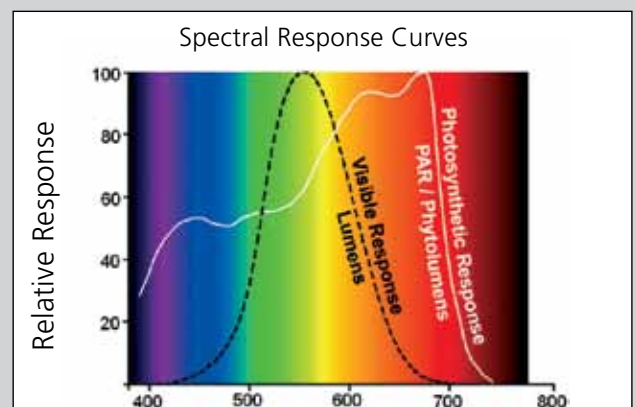


Competition Benchmark

SHP-TS GroLux – Spectral Advantage



More light into the red part of the spectrum - best suitable for plant growth



Best 'Spectral' response curve for plant growth

SHP-TS GroLux™

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 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

The new '600-Watt 400-Volt EL' lamp for best performance on electronic ballast

- 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



Code	Description	Bulb finish	Bulb Shape	Wattage (W)	Voltage (V)	Amp (A)	Mains Voltage	PAR $\mu\text{mol/s}$	Visible lumens	Phyto-Lumens	Efficiency $\mu\text{mol/W}$	Energy Class	Average rated life (Hrs)
SHP-TS GroLux™													
0020819	SHP-TS GroLux 250W	Clear	Tubular	265	115	2.6	230V	425	34,000	75,500	1.68	A+	26,000
0020807	SHP-TS GroLux 400W	Clear	Tubular	425	120	4.0	230V	713	58,000	128,000	1.68	A++	26,000
0020808	SHP-TS GroLux 600W	Clear	Tubular	615	125	5.5	230V	1100	90,000	200,000	1.79	A++	26,000
0020809	SHP-TS GroLux 600W-400V	Clear	Tubular	620	200	3.5	400V	1180	88,000	215,000	1.90	A++	26,000
0020826	SHP-TS GROLUX 600W EL 400V	Clear	Tubular	605	210	2.9	400V	1170	88,000	215,000	1.93	A++	26,000

Cap: E40/45 Box quantity: 12

DIMENSIONS (mm)

E40

SHP-TS GROLUX

SHP-TS GroLux	250W	400W	600W
L	260	292	292
D	48	48	48

SYLVANIA



SHP-T GroXpress

Sylvania's new [GroXpress](#) is an ideal solution for small and medium scale greenhouses and domestic plant growth facilities for flowering plants and vegetables. It also provides an opportunity for out of season crops. [GroXpress](#) is optimized for high Phytolumens and its light spectrum maximizes red output which is essential for plant growth.

SYLVANIA

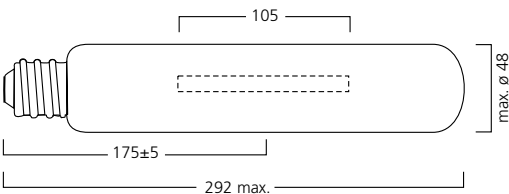
SHP-T GroXpress

FEATURES

- Delivers high photosynthetic efficiency
- GroXpress light spectrum maximizes red output essential for plant growth
- Suitable for a plethora of applications related to plant growth
- Optimized for high phytolumens or PAR output

APPLICATIONS

- Greenhouses
- Flower Plant Houses
- Domestic plant growth facilities



Code	Description	Bulb finish	Bulb shape	Wattage (W)	Voltage (V)	Lamp base	Colour temperature (K)	PAR (μmol/s)	Luminous flux (lm)	Phyto-lumens	Efficiency (PAR/W)	Energy class	Average rated life (Hrs)
0020816	SHP-T 250W GROXPRESS E40	Clear	Tubular	250	100	E40	2000	370	33000	66,000	1.48	A++	24,000
0020817	SHP-T 400W GROXPRESS E40	Clear	Tubular	400	100	E40	2000	640	55000	115,000	1.60	A++	24,000
0020818	SHP-T 600W GROXPRESS E40	Clear	Tubular	600	115	E40	2050	950	90000	165,000	1.58	A++	24,000



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