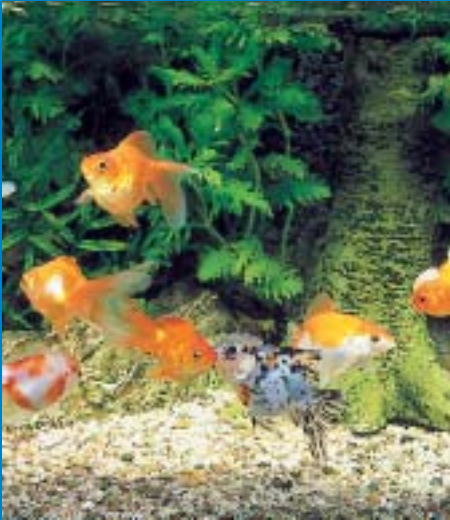




# Aquarium and Petcare Lighting

*The lighting pets prefer*



# SYLVANIA

by Sylvania Lighting International

# *The professional lighting*

*for your plants and animals*

If you need to replace natural light - whether for plants, aquariums or terrariums - Sylvania has an extensive collection of lighting solutions available for you. For example, Sylvania's GRO-LUX® is a world leader in plant-illumination. As an experienced user or an enthusiastic hobbyist, you also know how important proper light is for your pets. Our lighting engineers have developed lamps with specific light spectrums for the most diverse uses which, independently or in combination, deliver the best results for complex biological requirements. Whether for plants, fish, corals, reptiles, or the entire biotope of aquariums and terrariums - with Sylvania you'll find the appropriate lighting. This brochure gives you the possibility of easily making the right decision for your individual lighting requirements.

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# GRO-LUX® T5/T8/T12

A range of fluorescent and compact fluorescent tubes that assist plant growth in locations with insufficient daylight

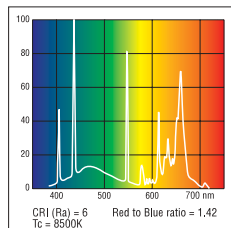


## FEATURES

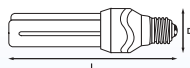
- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo-synthesis in plants

## APPLICATIONS

- For lighting of fresh water aquariums
- Complete or additional artificial lighting of plants
- Recommended for use in greenhouses, indoor gardens, flower shows and conservatories



Gro-Lux®



## Ordering Code

Item description	Watt	Colour	Cap	Dimensions (mm)		Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Retail Pack Quantity per 20	
				L	D				
F8W/GRO	T5	8	Gro-Lux	G5	288	16	0000026	-	-
F13W/GRO	T5	13	Gro-Lux	G5	517	16	0000370	-	-
FHO24W/GRO	T5	24	Gro-Lux	G5	549	16	0002740	-	-
FHO39W/GRO	T5	39	Gro-Lux	G5	849	16	0002743	-	-
FHO54W/GRO	T5	54	Gro-Lux	G5	1149	16	0002746	-	-
F14W/GRO	T8	14	Gro-Lux	G13	361	26	0000043	0000707	-
F15W/GRO	T8	15	Gro-Lux	G13	438	26	0000069	0000708	-
F18W/GRO	T8	18	Gro-Lux	G13	590	26	0001523	0000709	-
F25W/30"/GRO	T8	25	Gro-Lux	G13	742	26	0001679	0000710	-
F30W/GRO	T8	30	Gro-Lux	G13	895	26	0000150	0000711	-
F36W/GRO	T8	36	Gro-Lux	G13	1200	26	0001524	0000712	-
F38W/GRO	T8	38	Gro-Lux	G13	1047	26	0002213	0000713	-
F58W/GRO	T8	58	Gro-Lux	G13	1500	26	0001525	0000714	-
F20W/GRO	T12	20	Gro-Lux	G13	590	38	0000462	-	-
Mini-Lynx 18W/GRO		18	Gro-Lux	E27	178	38	-	-	0026484

Packaging Note: The sleeve pictured is for retail sales.

# AQUASTAR T5/T8

A range of 10000 K tubes developed to promote the growth of coral and aquatic plants by simulating lighting conditions found in their natural environment

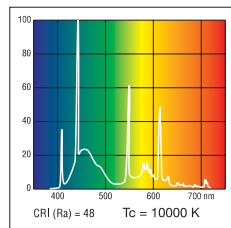


## FEATURES

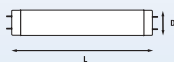
- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance
- Combination with other lamp types is not required

## APPLICATIONS

- For all biological organisms in fresh and marine water aquariums



Aquastar®



Item description	Watt	Colour Temp. K	Cap	Dimensions (mm)		Light-output lm	Ordering Code		
				L	D		Industrial Pack Quantity per 25	Retail Pack Quantity per 10	
FH024W/Aquastar	T5	24	10000	G5	549	16	1120	0002741	-
FH039W/Aquastar	T5	39	10000	G5	849	16	1960	0002744	-
FH054W/Aquastar	T5	54	10000	G5	1149	16	2800	0002747	-
F14W/Aquastar	T8	14	10000	G13	361	26	525	0002212	-
F15W/Aquastar	T8	15	10000	G13	438	26	650	0002224	0000643
F18W/Aquastar	T8	18	10000	G13	590	26	900	0002221	0000644
F25W/30"/Aquastar	T8	25	10000	G13	742	26	1500	0002226	0000645
F30W/Aquastar	T8	30	10000	G13	895	26	1700	0002225	0000646
F36W/Aquastar	T8	36	10000	G13	1200	26	2200	0002222	0000647
F38W/Aquastar	T8	38	10000	G13	1047	26	2100	0002185	0000648
F58W/Aquastar	T8	58	10000	G13	1500	26	3550	0002223	0000649

Packaging Note: The sleeve pictured is for retail sales.



# DAYLIGHTSTAR T8

See fish and plants in fresh water aquariums in their natural colours with this 5000 K triphosphor full spectrum daylight tube

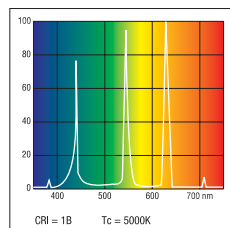


## FEATURES

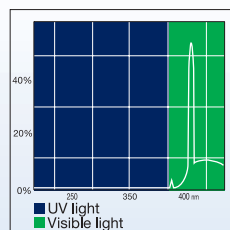
- Reduces algae growth through a special UV-STOP protective sleeve
- Allows fish and plants to be seen in their true colours (high colour rendition)

## APPLICATIONS

- For use in fresh water aquariums
- In combination with Gro-Lux® it produces a well balanced and optimal aquarium life



Daylightstar®



Item description	Watt	Colour temp. K	Cap	Dimensions (mm)		Light-output lm	Retail Pack Quantity	Ordering Code
				L	D			
F15W/Daylightstar T8	15	5000	G13	438	26	900	10	0000715
F18W/Daylightstar T8	18	5000	G13	590	26	1300	10	0000716
F30W/Daylightstar T8	30	5000	G13	895	26	2350	10	0000717
F36W/Daylightstar T8	36	5000	G13	1200	26	3250	10	0000718

Packaging Note: The sleeve pictured is for retail sales.

# CORALSTAR T5/T8

These lamps simulate coral reef natural lighting at 6-10m depth and support coral growth in marine water aquariums

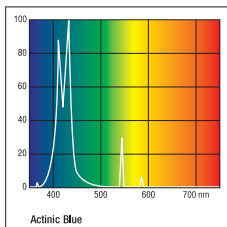


## FEATURES

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)

## APPLICATIONS

- Lighting to promote growth of coral and invertebrates in marine water aquariums



Coralstar®



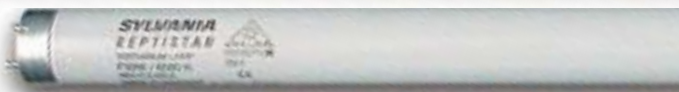
Item description	Watt	Colour	Cap	Dimensions (mm)		Ordering Code	
				L	D	Industrial Pack Quantity per 25	Retail Pack Quantity per 10
FHO24W/Coralstar T5	24	Coralstar	G5	549	16	0002742	-
FHO39W/Coralstar T5	39	Coralstar	G5	849	16	0002745	-
FHO54W/Coralstar T5	54	Coralstar	G5	1149	16	0002748	-
F18W/Coralstar T8	18	Actinic	G13	590	26	-	0000719
F25W/30"/Coralstar T8	25	Actinic	G13	742	26	-	0000720
F30W/Coralstar T8	30	Actinic	G13	895	26	-	0000725
F36W/Coralstar T8	36	Actinic	G13	1200	26	-	0000726
F38W/Coralstar T8	38	Actinic	G13	1047	26	-	0000721

Packaging Note: The sleeve pictured is for retail sales.



# REPTISTAR T8

Lamps which improve the natural appearance of reptiles in terrariums and aid vitamin D3 production by providing ideal proportions of UVA & UVB light

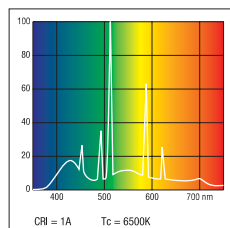


## FEATURES

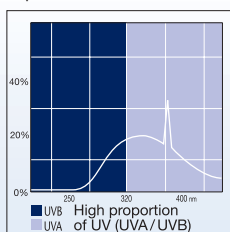
- Promotes vitamin D3 production which aids good health, growth and the general well-being of reptiles in terrariums through a high content of UVB (up to 5%) and UVA (up to 30%)
- This full spectrum (6500 K) lamp improves the natural appearance of reptiles
- Shows reptiles in their true colours

## APPLICATIONS

- For the artificial lighting of reptiles in terrariums



Reptistar®



Item description	Watt	Colour	Cap	Dimensions (mm)		Light-output lm	Retail Pack Quantity	Ordering Code	
				L	D				
F15W/Reptistar	T8	15	Reptistar	G13	438	26	300	10	0000731
F18W/Reptistar	T8	18	Reptistar	G13	590	26	450	10	0000732
F30W/Reptistar	T8	30	Reptistar	G13	895	26	700	10	0000733
F36W/Reptistar	T8	36	Reptistar	G13	1200	26	1000	10	0000734

Packaging Note: The sleeve pictured is for retail sales.



# ACTIVA T8

A range of full-spectrum high colour rendering lamps with daylight characteristics

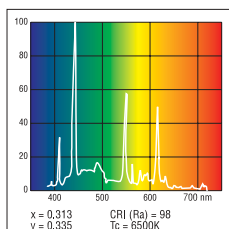


## FEATURES

- Full spectrum lamp including UVA
- Radiation reproduces sunlight most closely
- Excellent colour rendering (Ra98/Class 1A)
- Colour temperature: 6500 K

## APPLICATIONS

- Well-being of animals in captivity is improved
- The spectrum contains non-visible radiation (UVA) which is a source of vitality for the animals
- The exceptional high colour rendering (Ra 98) will make animals look bright and attractive



Activa® 172



Item description	Watt	Colour	Cap	Dimensions (mm)		CRI (Group)	Light-output lm	Packing Quantity	Ordering Code	
				L	D					
F15W/Activa	T8	15	Activa	G13	438	26	1A	700	25	0002672
F18W/Activa	T8	18	Activa	G13	590	26	1A	1000	25	0002218
F36W/Activa	T8	36	Activa	G13	1200	26	1A	2300	25	0002219
F58W/Activa	T8	58	Activa	G13	1500	26	1A	3700	25	0002220
F70W/Activa	T8	70	Activa	G13	1764	26	1A	4600	25	0002188



# HSI-TD 5K Daylight

Double ended quartz metal halide lamps with a clear tubular outer envelope and small, compact dimensions for use over fresh water aquaria

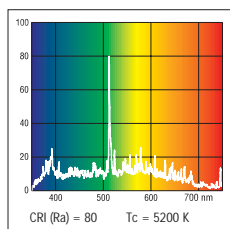


## FEATURES

- Compact dimensions
- High efficiency and long service life (9000 hours)
- UV-STOP glass absorbs nearly all harmful UVB and UVC radiation. Lamps can therefore be used without the need for expensive UV-filters

## APPLICATIONS

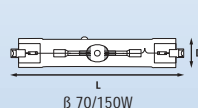
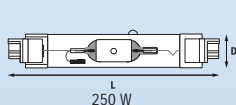
- Strong directional light which penetrates deep into large tanks
- Ideal for fresh water aquaria
- The excellent colour rendering makes the fish look bright
- The UV-stop feature the development of algae



Quartz Metal Halide: Daylight

## DIRECTIONS FOR USE

- Burning position: horizontal  $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp



Item description	Watt	Volt	Current	Cap	Dimensions(mm)		Bulb finish	Colour temp. K	Chromaticity Coordinate		Light output lm	Packing Quantity	Ordering Code
					L	D			x	y			
HSI-TD 70W/D 5K UVS	75	108	0.98	Rx7s	117.6	22	clear	5600	0.327	0.372	5400	10	0021045
HSI-TD 150W/D 5K UVS	150	102	1.80	Rx7s	135.4	25	clear	5200	0.336	0.366	11000	10	0021046
HSI-TD 250W/D 5K UVS	250	112	3.00	Fc2	161.6	27.5	clear	5200	0.335	0.361	18000	10	0021047

# HSI-TD AquaArc

Double ended quartz metal halide lamps for use over fresh water and sea water aquaria

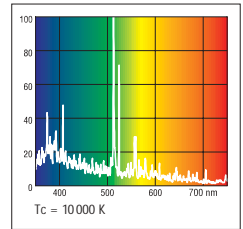


## FEATURES

- High light output and good efficiency
- High colour rendering
- Very high colour stability over the whole lamp life
- High colour temperature (10000 K)

## APPLICATIONS

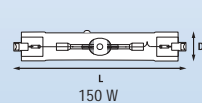
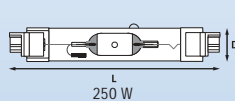
- For use in fresh and sea water aquaria
- Strong directional light which penetrates deep into large tanks
- Lifelike appearance of fish corals and plants



AquaArc®

## DIRECTIONS FOR USE

- Burning position: horizontal  $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp



Item description	Watt	Volt	Current	Cap	Dimensions(mm)		Bulb finish	Colour temp. K	Chromaticity Coordinate		Light output lm	Packing Quantity	Ordering Code
					L	D			x	y			
HSI-TD 150W AquaArc	150	100	1.80	Rx7s	135.4	25	clear	10000	0.277	0.311	9000	10	0021049
HSI-TD 250W AquaArc	250	100	3.00	Fc2	161.6	27.5	clear	10000	0.275	0.323	14000	10	0021050



# HSI-TD CoralArc

Double ended quartz metal halide lamps for use over sea water aquaria

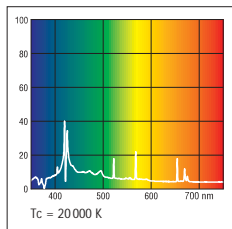


## FEATURES

- Very high colour temperature (bluish light)
- Very high colour stability over the entire lamp life
- Enhanced colour rendition

## APPLICATIONS

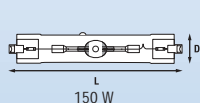
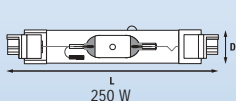
- For use in sea water aquaria
- Provides the specific spectrum (400-480 nm) necessary to achieve the blue chlorophyll absorption for zooxanthellae symbioses to develop



CoralArc®

## DIRECTIONS FOR USE

- Burning position: horizontal  $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp



Item description	Watt	Volt	Current	Cap	Dimensions(mm)		Bulb finish	Colour temp. K	Chromaticity Coordinate		Light output lm	Packing Quantity	Ordering Code
					L	D			x	y			
HSI-TD 150W CoralArc	150	100	1.80	Rx7s	135.4	25.0	clear	blue	0.261	0.257	5400	10	0021028
HSI-TD 250W CoralArc	250	100	3.00	Fc2	161.6	27.5	clear	blue	0.257	0.243	8000	10	0021029

# HSL-SC Super Comfort

Mercury Vapour lamp for fresh water applications

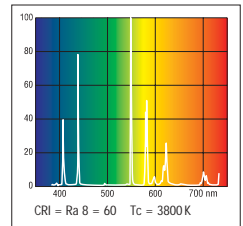


## FEATURES

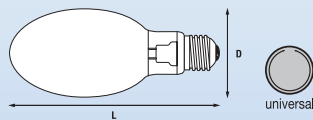
- Good natural appearance of animals and plants through good colour rendering properties
- Extremely long life (29000 hours)
- Also available as HSL-BW lamp with colder colour temperature of 4000K

## APPLICATIONS

- For fresh water applications
- Low cost economical light source
- Direction for use
- Operates on standard ballast, no ignitor required



Mercury Vapour Super Comfort



Item description	Watt	Volt	Current	Cap	Dimensions (mm)		Colour temp. K	Light output lm	Packing Quantity	Ordering Code
					L	D				
HSL-SC 50W	50	95	1.61	E27	130	56	3400	2000	24	0020895
HSL-SC 80W	80	115	0.80	E27	166	71	3400	4000	40	0020890
HSL-SC 125W	125	125	1.15	E27	178	76	3400	6500	40	0020891



# Infrared Reflector Lamps

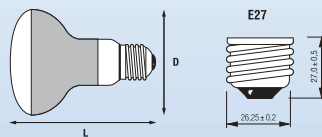


## FEATURES

- Converts electric current into infrared radiation

## APPLICATIONS

- Provides the necessary infrared radiation for reptiles in terrariums and for other pets like hamsters, mice etc.



Item description	Watt	Volt	Cap	Dimensions (mm)		Packing Quantity	Ordering Code
				L	D		
Ref. 150W R125 Infrared	150	230	E27	181	125	10	0033002
Ref. 250W R125 Infrared	250	230	E27	181	125	10	0033003
Ref. 100W R95 Infrared	100	230	E27	130	95	15	0033004

# Recommendations

## Tips you need for the pets well-being

- How much light does your aquarium need? A general rule of thumb is that at least 0.5 watts of lighting per litre of water in the tank (more is better) must be available. Keeping lower wattled levels may cause a more frequent changing of lamps.

Length of Aquarium	Volume	Length of Lamps	Lamp Power	Lamps
40 cm	25 l	30 cm	8 W	1
50 cm	45 l	45 cm	15 W	1
60 cm	55 l	45 cm	15 W	1
80 cm	128 l	60 cm	18 W	2
100 cm	250 l	90 cm	30 W	4
120 cm	300 l	100 cm	38 W	4
130 cm	325 l	120 cm	36 W	4
150 cm	375 l	120 cm	36 W	4
160 cm	400 l	150 cm	58 W	4

- Avoid positioning your aquarium near to the window. The UVA and UVB in the sunlight will develop algae.
- Use a timer to light your aquarium at a certain hour each day. You should foresee between 10 and 14 hours of lighting per day.
- Change your fluorescent lamps at least once a year. Once 12 months have passed the light output of the lamps will be insufficient due to normal ageing.
- Don't change all the lamps of your aquarium at the same time. Throughout life the efficiency of the lamp gradually decreases. If you change all lamps at once, the increase in light output risks to upset the daily cycle of the fish and plants. Change therefore each of the lamps at intervals of one month.
- Don't forget to change the starter when you re-lamp. It is a requirement for a good lamp operation. Using COP-starters will avoid repetitive starting of the lamp at end of life.



Item description	Watt	Volt	Lamp type	Circuit	Packing Quantity	Ordering Code
<b>COP starters:</b>						
COP-11	18-58W	220 – 240V	26 mm	Single	1000	0024470
COP-22	14-18W	220 – 240V	26 mm	Tandem	1000	0024482

SLI International Product Austria  
Marketing Lamps SLI Lichtsysteme GmbH  
Noorderlaan 105c Otto-Probst-Str. 22-24  
2030 Antwerpen 1100 Wien  
Phone +32 (0) 3 610 44 80 Phone (+43) 1617 4507 22  
Telefax +32 (0) 3 610 44 58 Telefax (+43) 1617 4507 23  
www.sylvania-lighting.com info.de@sylvania-lighting.com

## EUROPE

Germany  
SLI Lichtsysteme GmbH  
Graf-Zeppelin-Str. 9-12  
91056 Erlangen  
Phone (+49) 9131 793-500  
Telefax (+49) 9131 793-345  
info.de@sylvania-lighting.com  
www.sli-deutschland.de

Eastern Europe  
SLI Lichtsysteme GmbH  
Graf-Zeppelin-Str. 9-12  
91056 Erlangen  
Phone (+49) 9131 793-499  
Telefax (+49) 9131 793-407  
info.de@sylvania-lighting.com

UK  
SLI Lighting UK Limited  
Otley Road. Shipley  
West Yorkshire BD17 7SN  
Phone +44(0) 1274 537 703  
Telefax +44(0) 1274 580 632

Slovakia  
SLI Lichtsysteme GmbH  
Vajanského 62  
900 01 Modra  
Phone (+421) 704 6474506  
Telefax (+421) 704 6474506

Ceská Republic  
SLI Lichtsysteme GmbH  
Pirinská 3244  
143 00 Praha 4  
Phone (+420) 2 401 51 79  
Telefax (+420) 2 401 51 79

Finland  
Sylvania Lumiance Oy  
Sirrikuja 3 A  
00940 Helsinki  
Phone (+358) 9 54212100  
Telefax (+358) 9 54212130  
fi.info@sylvania-lighting.com

Switzerland  
Sylvania Lighting S.A.  
4, Chemin des Léchères  
1217 Meyrin  
PO Box 368  
Phone (+41) 227198580  
Telefax (+41) 227198581  
info.ch@sylvania-lighting.com  
www.sylvania-lighting.com

Export  
Sylvania Lighting S.A.  
4, Chemin des Léchères  
1217 Meyrin – Switzerland  
PO Box 368  
Phone (+41) 227198530  
Telefax (+41) 227198531  
info.export-ch@sylvania-lighting.com  
www.sylvania-lighting.com

Belgium  
SLI Benelux  
Noorderlaan 105c  
2030 Antwerpen  
Phone (+32) 3 610 44 44  
Telefax (+32) 3 610 44 55  
be.info@sylvania-lighting.com  
www.sylvania-lighting.com

the Netherlands  
SLI Benelux  
Postbus 5651  
4801 EB Breda  
Phone (+31) 76 750 44 44  
Telefax (+31) 76 750 44 55  
nl.info@sylvania-lighting.com  
www.sylvania-lighting.com

France  
SLI France SA  
29, rue des Trois Fontanot  
92722 Nanterre, Cedex  
Phone (+33) 1 55 51 11 51  
Telefax (+33) 1 55 51 11 52

Denmark  
Sylvania A / S  
Tempovej 14  
2750 Ballerup  
Phone (+45) 44 86 00 00  
Telefax (+45) 44 86 00 01  
kundeservice@sylvania-lighting.com  
www.sylvania-lighting.com

Greece  
Sylvania A.E.E.E.  
89 Kyprou Ave., Argyproupoli  
GR-164 51, Athens  
Phone (+30) 210 996 65 61  
Telefax (+30) 210 996 90 29

Italy  
Sylvania S.p.a.  
Via Figino 105  
20016 Pero MI  
Phone (+39) 02 33 93 11 58  
Telefax (+39) 02 33 93 11 91  
it.info@sylvania-lighting.com  
www.sylvania.it

Norway  
Sylvania Lumiance A S  
Ole Deviks Vei 44  
0668 Oslo  
Phone (+47) 23 067470  
Telefax (+47) 23 067471  
www.sli.no

Spain  
SLI Sylvania S.A.  
Los Llanos de Jerez, 17  
28820 Coslada (Madrid)  
Phone (+34) 91 669 90 00  
Telefax (+34) 91 673 73 64  
www.sylvania-lighting.com

Sweden  
Sylvania Lumiance AB  
Uppköparvägen 7  
120 44 Årsta  
Phone (+46) 8 556 322 00  
Telefax (+46) 8 556 322 10  
sli-sweden@sylvania-lighting.com  
www.sli.no

Portugal  
SLI Sylvania S.A.  
Campo Grande, 35 - 11° C  
1700-087 Lisbon  
Phone (+351) 21 793 77 36/37  
Telefax (+351) 21 793 77 38  
www.sylvania-lighting.com

## OUTSIDE EUROPE

USA  
SLI Lighting Products, Inc.  
122 East Laurel Street  
Mullins, SC 29574  
Phone (+1) 800-922-6693  
Telefax (+1) 843-464-1203

Hong Kong  
Sylvania (Hong Kong) Ltd.  
1114 Peninsula Centre  
67 Mody Road  
Kowloon  
Phone (+852) 23695531  
Telefax (+852) 27218621

Australia  
Sylvania Lighting  
Australasia  
Pty Ltd  
Sylvania Way  
Lisarow NSW 2250  
Phone (+61) 2 4328 0600  
Telefax (+61) 2 4328 2605  
sylvania@sla.net.au  
www.sla.net.au

New Zealand  
Sylvania Lighting  
Australasia Limited  
318 Rosebank Road  
PO box 19-116  
Avondale Auckland NZ  
Phone (+1164) 9 828 3113  
Telefax (+1164) 9 828 7426  
slanz@sla.net.au  
www.sla.net.au