

SYLVANIA



Aquarium & Terrarium lighting

The lighting pets prefer



SYLVANIA



If you need to replace natural light – whether for plants, aquariums or terrariums – Sylvania has an extensive collection of lighting solutions available. For example, Sylvania's GRO-LUX is a world leader in plant illumination. Proper light and UV-radiation is very important for fish and reptiles. Our lighting engineers have developed lamps with specific light spectra for the most diverse uses. Either independently or in combination, Sylvania Aquarium and Terrarium lamps 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.





AQUARIUM & TERRARIUM

Grolux T5	4
Grolux T8/MiniLynx	5
Aquastar T5	6
Aquastar T8	7
Daylightstar T8	8
Coralstar T5	9
Coralstar T8	10
Marinestar	11
Aquaclassic	12
AquaArc	13
CoralArc	14
Reptistar T8	15
Reptistar MiniLynx	16
Reptistar Mixed	17
Reptistar - Infrared Reflector	18
Reptistar - Infrared Halogen	19
Activa T5 & T8	20
Application guide	21
Recommendations	22
Notes	23



Grolux T5

FEATURES

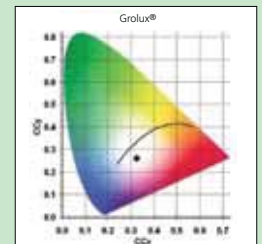
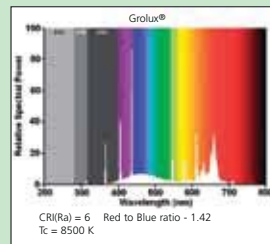
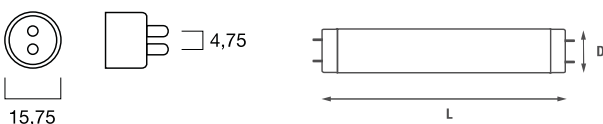
- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo-synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New **T5/8**: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

APPLICATIONS

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



G5



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Comparable wattage in T8	Dimensions (mm) L	Diameter D	Watt W	Colour	Cap
0000026	-	F8W/GRO	-	288	16	T5	8	GroLux G5
0002740	0000728	FHO24W/GRO	-	549	16	T5	24	GroLux G5
0002743	0000729	FHO39W/GRO	-	849	16	T5	39	GroLux G5
0002746	0000730	FHO54W/GRO	-	1149	16	T5	54	GroLux G5
0002749	-	FHO80W/GRO	-	1449	16	T5	80	GroLux G5
-	0002821	F24W T5/8 Gro-Lux 438mm	15	438	16	T5	24	GroLux G5
-	0002823	F28W T5/8 Gro-Lux 590mm	18	590	16	T5	28	GroLux G5
-	0002825	F35W T5/8 Gro-Lux 742mm	25	742	16	T5	35	GroLux G5
-	0002827	F45W T5/8 Gro-Lux 895mm	30	895	16	T5	45	GroLux G5
-	0002829	F54W T5/8 Gro-Lux 1047mm	38	1047	16	T5	54	GroLux G5
-	0002831	F54W T5/8 Gro-Lux 1200mm	36	1200	16	T5	54	GroLux G5

Packaging Note: The sleeve pictured is for retail sales.

Grolux T8/MiniLynx

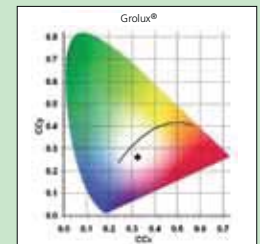
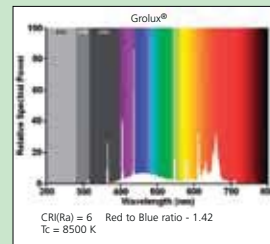
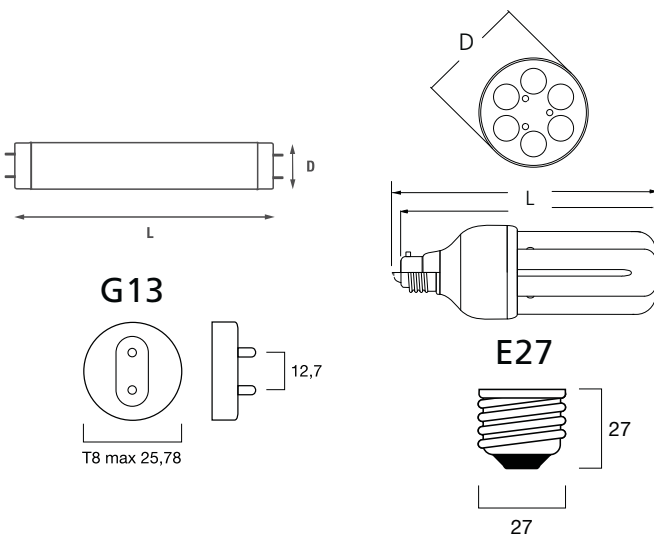


FEATURES

- 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
- Oldest, but most optimal light colour for plants and aquaria

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



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Retail Pack Quantity per 20	Item description	Dimensions (mm)		Diameter	Watt W	Colour	Cap
				L	D				
0000043	0000707	-	F14W/GRO	361	26	T8	14	GroLux	G13
0000069	0000708	-	F15W/GRO	438	26	T8	15	GroLux	G13
0001523	0000709	-	F18W/GRO	590	26	T8	18	GroLux	G13
0001679	0000710	-	F25W/30"/GRO	742	26	T8	25	GroLux	G13
0000150	0000711	-	F30W/GRO	895	26	T8	30	GroLux	G13
0001524	0000712	-	F36W/GRO	1200	26	T8	36	GroLux	G13
0002213	0000713	-	F38W/GRO	1047	26	T8	38	GroLux	G13
0001525	0000714	-	F58W/GRO	1500	26	T8	58	GroLux	G13
-	-	0026484	Minilyn 20W/GRO	165	52	-	20	GroLux	E27

Packaging Note: The sleeve pictured is for retail sales.



Aquastar T5

FEATURES

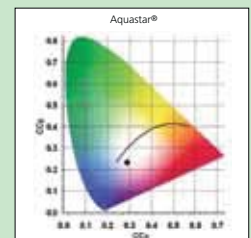
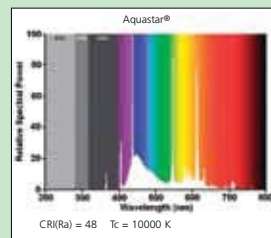
- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New **T5/8** : 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

APPLICATIONS

- For all biological organisms in fresh and marine water aquariums
- Excellent results in combination with Daylightstar



G5



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Comparable wattage in T8	Dimensions (mm)		Diameter	Watt	Colour Temp. K	Light Output lm	Cap
				L	D					
0002741	0002752	FHO24W/Aquastar	-	549	16	T5	24	10000	1120	G5
0002744	0002753	FHO39W/Aquastar	-	849	16	T5	39	10000	1960	G5
0002747	0002754	FHO54W/Aquastar	-	1149	16	T5	54	10000	2800	G5
0002750	-	FHO80W/Aquastar	-	1449	16	T5	80	10000	3500	G5
-	0002820	F24W T5/8 Aquastar 438mm	15	438	16	T5	24	10000	900	G5
-	0002822	F28W T5/8 Aquastar 590mm	18	590	16	T5	28	10000	1200	G5
-	0002824	F35W T5/8 Aquastar 742mm	25	742	16	T5	35	10000	1700	G5
-	0002826	F45W T5/8 Aquastar 895mm	30	895	16	T5	45	10000	2100	G5
-	0002828	F54W T5/8 Aquastar 1047mm	38	1047	16	T5	54	10000	2500	G5
-	0002830	F54W T5/8 Aquastar 1200mm	36	1200	16	T5	54	10000	2900	G5

Packaging Note: The sleeve pictured is for retail sales.

Aquastar T8

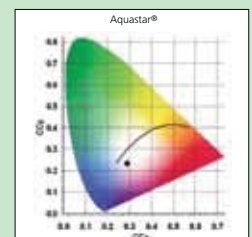
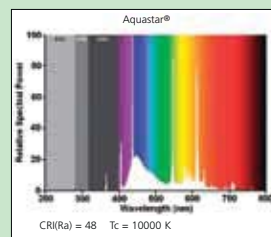
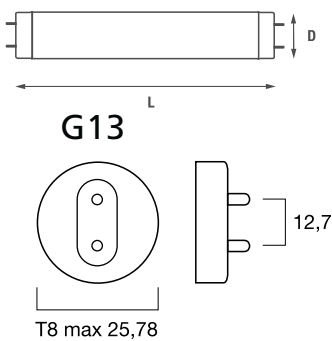


FEATURES

- 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

APPLICATIONS

- For all biological organisms in fresh and marine water aquariums



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm)		Diameter	Watt W	Colour Temp. K	Light-output lm	Cap
			L	D					
0002212	0000727	F14W/Aquastar	361	26	T8	14	10000	525	G13
0002224	0000643	F15W/Aquastar	438	26	T8	15	10000	650	G13
0002221	0000644	F18W/Aquastar	590	26	T8	18	10000	900	G13
0002226	0000645	F25W/30"/Aquastar	742	26	T8	25	10000	1500	G13
0002225	0000646	F30W/Aquastar	895	26	T8	30	10000	1700	G13
0002222	0000647	F36W/Aquastar	1200	26	T8	36	10000	2200	G13
0002185	0000648	F38W/Aquastar	1047	26	T8	38	10000	2100	G13
0002223	0000649	F58W/Aquastar	1500	26	T8	58	10000	3550	G13

Packaging Note: The sleeve pictured is for retail sales.



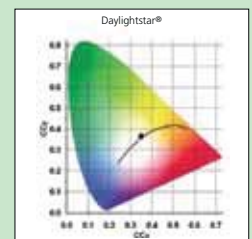
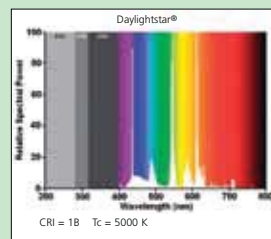
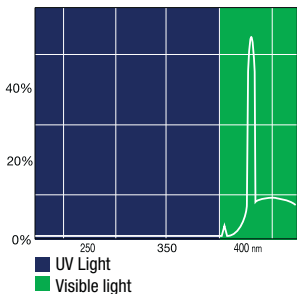
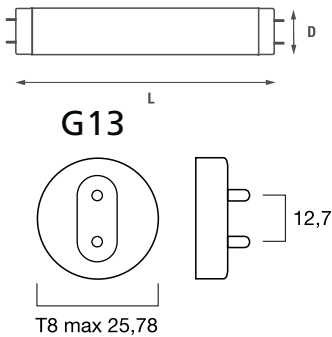
Daylightstar T8

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)
- 5000K triphosphor lamp with a daylight character
- High colour rendition
- Long life

APPLICATIONS

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



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm)		Diameter	Watt W	Colour	Cap
			L	D				
-	0000715	F15W/Daylightstar	438	26	T8	15	Daylightstar	G13
-	0000716	F18W/Daylightstar	590	26	T8	18	Daylightstar	G13
-	0000717	F30W/Daylightstar	895	26	T8	30	Daylightstar	G13
-	0000718	F36W/Daylightstar	1200	26	T8	36	Daylightstar	G13

Packaging Note: The sleeve pictured is for retail sales.

Coralstar T5



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)
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New **T5/8** : 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

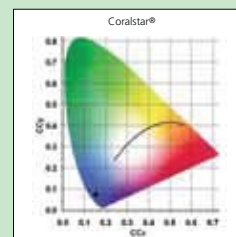
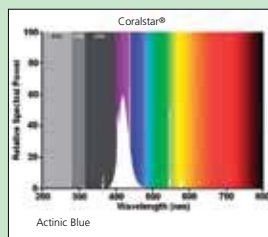
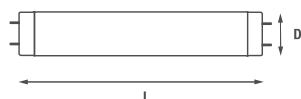
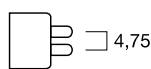


APPLICATIONS

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



G5



Industrial Pack Quantity per 25	Retail pack Quantity per 10	Item description	Comparable wattage in T8	Dimensions (mm) L	Diameter D	Diameter	Watt W	Colour	Cap
0002742	0000735	FHO24W/Coralstar	-	549	16	T5	24	Actinic	G5
0002745	0002755	FHO39W/Coralstar	-	849	16	T5	39	Actinic	G5
0002748	0002756	FHO54W/Coralstar	-	1149	16	T5	54	Actinic	G5
0002751	-	FHO80W/Coralstar	-	1449	16	T5	80	Actinic	G5
-	0002757	F28W T5/8 Coralstar 590mm	18	590	16	T5	28	Actinic	G5
-	0002758	F45W T5/8 Coralstar 895mm	30	895	16	T5	45	Actinic	G5
-	0002759	F54W T5/8 Coralstar 1200mm	36	1200	16	T5	54	Actinic	G5



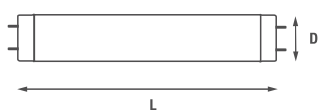
Coralstar T8

FEATURES

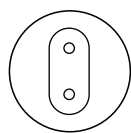
- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae

APPLICATIONS

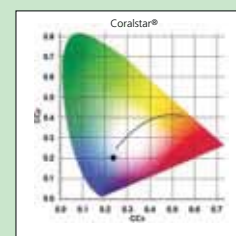
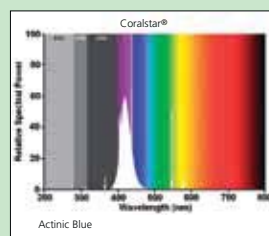
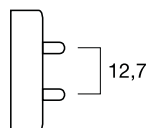
- Lighting to promote growth of coral and invertebrates in marine water aquariums



G13



T8 max 25,78



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm)		Diameter	Watt W	Colour	Cap
			L	D				
-	0000719	F18W/Coralstar	590	26	T8	18	Actinic	G13
-	0000725	F30W/Coralstar	895	26	T8	30	Actinic	G13
-	0000726	F36W/Coralstar	1200	26	T8	36	Actinic	G13

Packaging Note: The sleeve pictured is for retail sales.

Marinestar T5 15000K



FEATURES

- Ideal lamp for marine lighting.
- High colour rendering of the marine aquatic environment
- High colour temperature: 15000K
- Reproduces light conditions found at coral reefs through radiation in the 420-510 nm wavelength.
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae.



APPLICATIONS

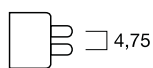
- Lighting of marine water aquaria



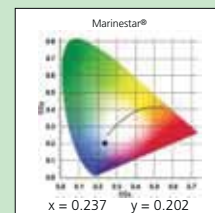
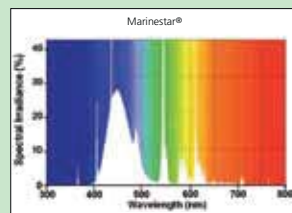
G5



15,75



4,75



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm)		Diameter	Watt W	Colour	Cap
			L	D				
0002720	0002725	FHO24W/Marinestar	549	16	T5	24	15000K	G5
0002721	0002726	FHO39W/Marinestar	849	16	T5	39	15000K	G5
0002722	0002727	FHO54W/Marinestar	1149	16	T5	54	15000K	G5
0002723	0002728	FHO80W/Marinestar	1449	16	T5	80	15000K	G5



AquaClassic

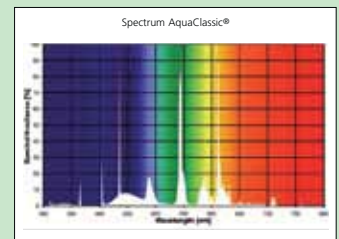
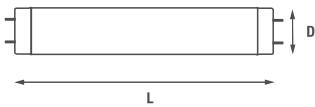
FEATURES

- Ideal lamp for aquatic starters
- Proven Sylvania tri-phosphor technology
- Light colour: 5000 Kelvin
- Excellent light output
- Available in the most common T5 and T8 wattages
- Operates on standard ballasts



APPLICATIONS

- Recommended as an entry level lamp for fresh water aquaria



AQUACLASSIC T5

Industrial Pack Quantity per 25	Retail pack Quantity per 10	Description	L (mm)	D (mm)	Diameter	Watt	Colour Temp. K	Light Output Nominal @25°C lm	Light Output Maximum @ 34-38 °C lm	Cap
0002306	0002309	FHO24W T5 AquaClassic	549	16	T5	24	5000	1570	1850	G5
0002307	0002310	FHO39W T5 AquaClassic	849	16	T5	39	5000	2990	3250	G5
0002308	0002311	FHO54W T5 AquaClassic	1149	16	T5	54	5000	4050	4550	G5

AQUACLASSIC T8

Industrial Pack Quantity per 25	Retail pack Quantity per 10	Description	L (mm)	D (mm)	Diameter	Watt	Colour Temp. K	Light Output lm	Cap
0002300	0002312	F14 T8 AquaClassic	361	26	T8	14	5000	850	G13
0002301	0002313	F15 T8 AquaClassic	438	26	T8	15	5000	900	G13
0002302	0002314	F18 T8 AquaClassic	590	26	T8	18	5000	1300	G13
0002304	0002316	F30 T8 AquaClassic	895	26	T8	30	5000	2300	G13

AquaArc



FEATURES

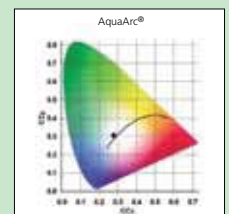
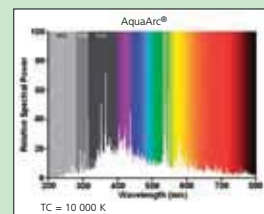
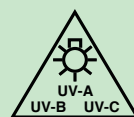
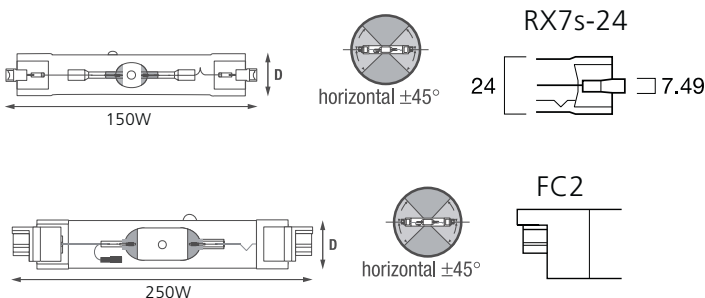
- High light output and good efficiency
- High colour rendering
- Very high colour stability over the whole lamp life
- High colour temperature (10000 K)
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed

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

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
- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination



Code	Item description	Dimensions (mm)		Watt	Volt	Current	Cap	Bulb	Colour	Chromaticity	Light	Packing
		L	D	W	V	A		finish	temp.	Coordinate	output	Quantity
									K	x	lm	
0021049	HSI-TD 150W AquaArc	135,4	25	150	100	1.80	RX7s	clear	10000	0.277 0.311	9000	10
0021050	HSI-TD 250W AquaArc	161,6	27,5	250	100	3.00	Fc2	clear	10000	0.275 0.323	14000	10



CoralArc

FEATURES

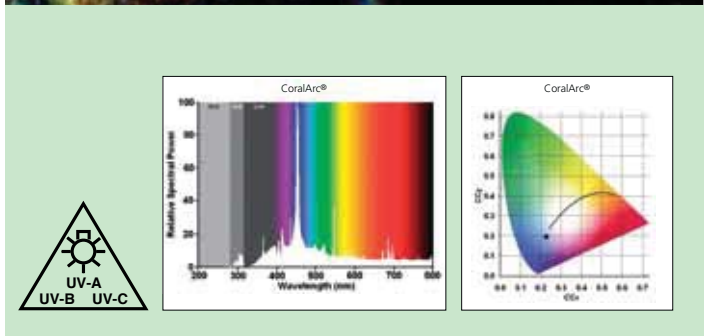
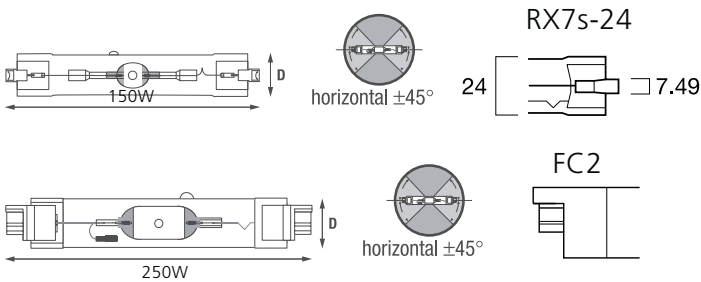
- Very high colour temperature 20000K (bluish light)
- Very high colour stability over the entire lamp life
- Enhanced colour rendition
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed

APPLICATIONS

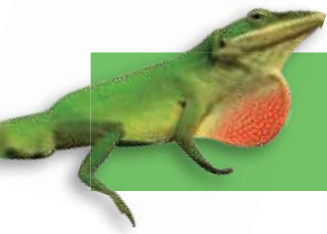
- For use in sea water aquaria
- Provides the specific spectrum (400-480 nm) necessary to achieve the blue chlorophyll absorption for zooxanthellae symbioses to develop

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
- This lamp emits UV-radiation. Avoid direct exposure to skin and eyes
- Not suitable for household room illumination



Code	Item description	Dimensions (mm) L D	Watt W	Volt V	Current A	Cap	Bulb finish	Colour temp. K	Chromaticity Coordinate x y	Light output lm	Packing Quantity
0021028	HSI-TD 150W CoralArc	135,4 25	150	100	1.80	RX7s	clear	blue	0.261 0.257	5400	10
0021029	HSI-TD 250W CoralArc	161,6 27,5	250	100	3.00	Fc2	clear	blue	0.257 0.243	8000	10



Reptistar T8

FEATURES

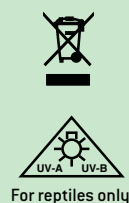
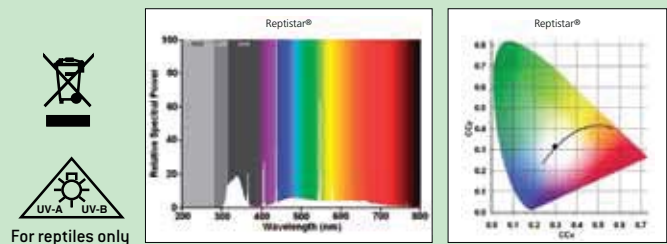
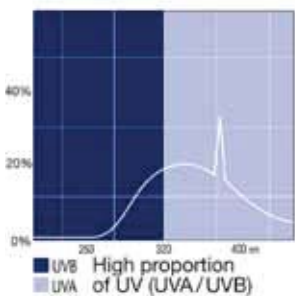
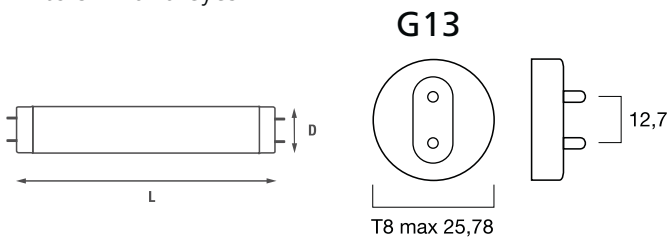
- Promotes vitamin D3 production which aids good health, growth and the general well-being of reptiles in terrariums through a high content of UVB (5% and 10%) and UVA (up to 30%)
- This full spectrum (6500 K) lamp improves the natural appearance of reptiles
- Shows reptiles in their true colours

APPLICATIONS

- For the artificial lighting of reptiles in terrariums

DIRECTIONS FOR USE

- This lamp emits UV-radiation. Avoid exposure to skin and eyes



Code	Item description	Dimensions (mm)		Diameter	Watt W	Colour	Cap	Light output lm	Ordering Quantity
		L	D						
0000731	F15W/Reptistar UV-B 5%	438	26	T8	15	UV-B 5%	G13	300	10
0000732	F18W/Reptistar UV-B 5%	590	26	T8	18	UV-B 5%	G13	450	10
0000733	F30W/Reptistar UV-B 5%	895	26	T8	30	UV-B 5%	G13	700	10
0000734	F36W/Reptistar UV-B 5%	1200	26	T8	36	UV-B 5%	G13	1000	10
0000741	F15W/Reptistar UV-B 10%	438	26	T8	15	UV-B 10%	G13	300	10
0000742	F18W/Reptistar UV-B 10%	590	26	T8	18	UV-B 10%	G13	450	10
0000743	F30W/Reptistar UV-B 10%	895	26	T8	30	UV-B 10%	G13	700	10
0000744	F36W/Reptistar UV-B 10%	1200	26	T8	36	UV-B 10%	G13	1000	10

Packaging Note: The sleeve pictured is for retail sales.

Reptistar MiniLynx



FEATURES

- High UV-B radiation. UV-B peak intensity @ 100mm: 160 $\mu\text{W}/\text{cm}^2$ for 6% version and 200 $\mu\text{W}/\text{cm}^2$ for the 8% version
- Works on the mains (220-240V) without any special supplementary ballast
- Easy handling: E27 cap
- Effective lamp life: 4000 hrs*



APPLICATIONS

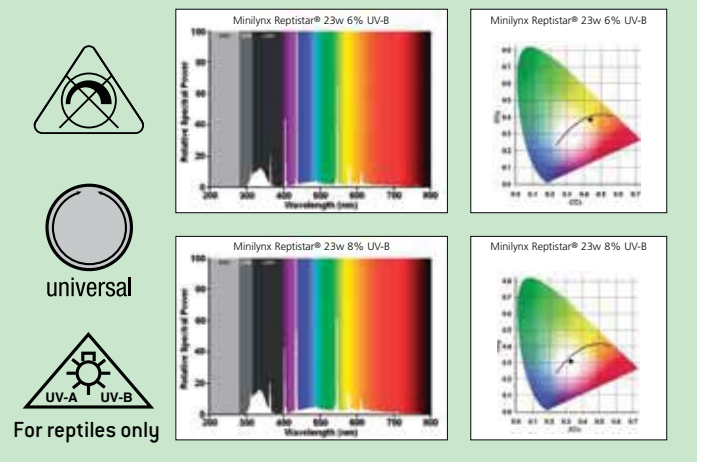
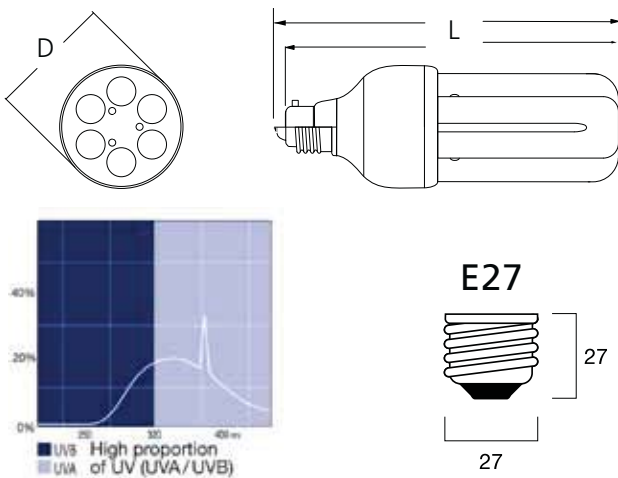
- Provides the necessary UV-B radiation for reptiles in a terrarium in order to keep them healthy
- Two versions (6% and 8%) in order to adapt to the type of reptile
- Could also be used in certain industrial applications



DIRECTIONS FOR USE

- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination
- Burning position: unrestricted
- Lamps comply with EN 60968 (Safety Requirement) and EN 60969 (Performance Requirements) and CE regulations

* Effective life: time to 50% of 100 hours UVB output



Code	Item description	Watt W	Mains Voltage V	Current A	Dimensions L D mm mm	Cap	Colour Temp. K	Luminous Flux lm	CRI Class	Spectral Power UV-A At 100mm in $\mu\text{W}/\text{cm}^2$	Spectral Power UV-B At 100mm in $\mu\text{W}/\text{cm}^2$	Packing Quantity
0027276	MiniLynx 23W Reptistar 8%UV-B	23	220-240	190	166 57	E27	6500	540	1b	750	200	10

Reptistar - Infrared Reflector

FEATURES

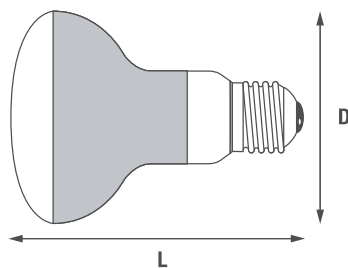
- Converts electric current into infrared radiation

APPLICATIONS

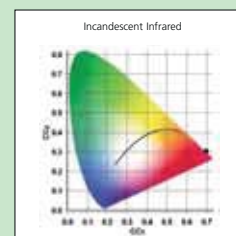
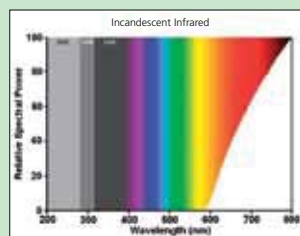
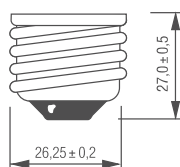
- Provides the necessary infrared radiation for reptiles in terrariums and for other pets like hamsters, mice etc.

DIRECTIONS FOR USE

- Not suitable for household room illumination



E27



Code	Item description		Dimensions (mm)		Watt W	Volt V	Cap	Packing Quantity
			L	D				
0033005	IR R63 50W Reptistar	Infra Red	103	63	50	230	E27	10
0033006	IR R63 75W Reptistar	Infra Red	103	63	75	230	E27	10
0033007	IR R80 100W Reptistar	Infra Red	110	80	100	230	E27	10
0033004	IR R95 100W Reptistar	Infra Red	130	95	100	230	E27	12

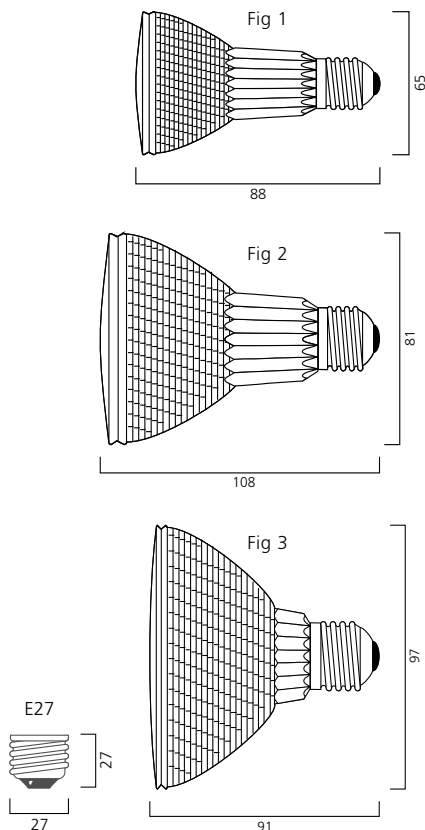
Reptistar - Infra Red Halogen

FEATURES

- Special aluminized reflector for optimal light and infra red distribution
- The higher light level intensity allows for a larger distance from the reptile than with normal incandescent basking spotlights
- Up to triple the life of standard infra red incandescent lamps. (> 2500hrs)
- Can be dimmed
- **Night version available:** the lens blocks the visible light but transmits the infra red and a very small amount of blue light for moonlight effect. Allows reptiles to enjoy warmth during the night too.

APPLICATIONS

- These halogen lamps create warm, sunny areas in the terrarium



Code	Description	L (mm)	D (mm)	Watt (W)	Volt (V)	Beam angle	Cap	Fig	Packing Quantity
0033050	IR Hi-Spot 63 50W Reptistar	88	65	50	230	25	E27	1	15
0033051	IR Hi-Spot 80 75W Reptistar	108	81	75	230	25	E27	2	15
0033052	IR Hi-Spot 95 100W Reptistar	91	97	100	230	30	E27	3	15
0033053	IR - Night Hi-Spot 95 100W Reptistar	91	97	100	230	30	E27	3	15



Activa T5 & T8

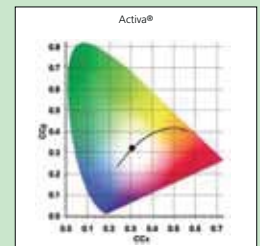
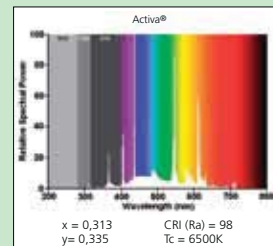
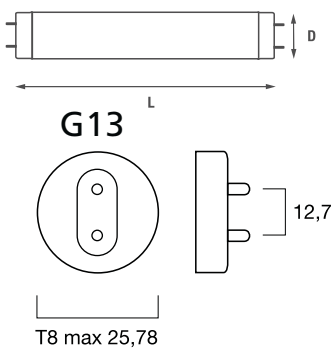
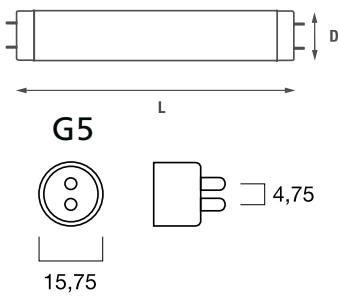
FEATURES

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



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



Code	Item description	Watt W	Voltage (V)	Current	CRI	Cap	Dimensions (mm)		Color Temp. K	Light output lm	Packing Quantity
							L	D			
T5											
0002240	FHE 14W / T5 / Activa	14W	86V	165mA	1A	G5	549	16	6500K	1090 lm	25
0002241	FHE 28W / T5 / Activa	28W	166V	170mA	1A	G5	1149	16	6500K	2400 lm	25
0002242	FHE 35W / T5 / Activa	35W	205V	175mA	1A	G5	1449	16	6500K	3000 lm	25
0002243	FHO 54W / T5 / Activa	54W	120V	455mA	1A	G5	1149	16	6500K	4300 lm	25
T8											
0002218	F18W / T8 / ACTIVA	18W	57V	370mA	1A	G13	590	28	6500K	1000 lm	25
0002219	F36W / T8 / ACTIVA	36W	103V	430mA	1A	G13	1200	28	6500K	2300 lm	25
0002220	F58W / T8 / ACTIVA	58W	110V	670mA	1A	G13	1500	28	6500K	3700 lm	25
0002188	F70W / T8 / ACTIVA	70W	128V	700mA	1A	G13	1764	28	6500K	4600 lm	25

Application Guide

WHICH FLUORESCENT LAMPS TO USE FOR OPTIMAL LIGHTING?

WHICH LAMP COLOUR TO USE?

In order to create a healthy and balanced environment, several criteria should be observed in selecting the ideal Sylvania tube.

When there is only one lamp in the aquarium the choice is simple. However with two or more tubes you have the freedom to combine multiple colours for superior biological as well as visual effects.

ONE LAMP

For tropical / fresh water aquaria, Aquastar is the natural choice. It simulates tropical sunlight and provides a good spectrum for plant care.

GroLux remains the classical favourite which enhances the colours of tropical fish, while also stimulating voracious plant growth.

The colour of Daylightstar is a neutral white and it should be installed if algae growth is a problem, thanks to its unique UV-stop coating.

For marine / salt water aquaria, Aquastar is one option when there is just a single lamp available.

However, Marinestar is certainly the most optimal lamp, because it combines the right spectrum for coral growth together with a high colour rendering.

TWO LAMPS

For tropical aquaria a popular combination is Daylightstar plus GroLux. The latter will care for your plants while Daylightstar provides a very high light level with a spectrum that minimises growth of algae.

The combination Aquastar + DaylightStar delivers a natural whiter light with similar results, but less photosynthesis effect.

For marine aquaria the ideal combination is Aquastar + Coralstar. The former is necessary for the principal light generation, while the latter stimulates growth of corals.

In case salt water plants are being grown instead of coral, then the combination Aquastar + GroLux yields especially desirable results.

	Fresh Water	Sea Water
One lamp solutions	AquaClassic GroLux Daylightstar Aquastar	Aquastar Marinestar
Two lamp solutions	GroLux + Daylightstar Daylightstar + Aquastar	Marinestar Aquastar + Daylightstar Aquastar + Coralstar Aquastar + GroLux



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.
- Never use fluorescent tubes for an aquarium that is deeper than 60cm. AquaArc and CoralArc lamps are required to achieve deeper penetration.
- 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.

Length of Aquarium	Volume	Length of Lamps	Lamp Power		Lamps
			T8	T5	
40 cm	25 l	30 cm	-	8 W	1
50 cm	45 l	45 cm	15 W	24 W	1
60 cm	55 l	45 cm	15 W	24 W	1
80 cm	128 l	60 cm	18 W	28 W	2
100 cm	250 l	90 cm	30 W	48 W	4
120 cm	300 l	100 cm	38 W	54 W	4
130 cm	325 l	120 cm	36 W	54 W	4
150 cm	375 l	120 cm	36 W	54 W	4
160 cm	400 l	150 cm	58 W	-	4



Item description	Watt	Volt	Lamptype	Circuit	Packing Quantity	Ordering Code
COP starters:						
COP-11	18-58W	220 – 240V	26 mm	Single	10/1000	0024470
COP-22	14-18W	220 – 240V	26 mm	Tandem	10/1000	0024482

EUROPE

Austria

Vienna
T. +43 (0)1617 4480
F. +43 (0)1617 4481
info.at@havells-sylvania.com

Belgium

Antwerp
T. +32 (0)3 610 44 44
F. +32 (0)3 610 44 57
info.be@havells-sylvania.com

Czech Republic, Slovakia, Slovenia, Croatia, Bosnia and Herzegovina

T. +420 545 231 345
F. +420 545 231 346
info.cz@havells-sylvania.com

Finland

Helsinki
T. +358 (0)9 5421 2100
F. +358 (0)9 5421 2130
info.fi@havells-sylvania.com

France

Paris
T. +33 (0)1 55 51 11 00
F. +33 (0)1 55 51 11 15
info.fr@havells-sylvania.com

Germany

Erlangen
T. +49 (0)9131 793 0
F. +49 (0)9131 793 345
info.de@havells-sylvania.com

Greece

Athens
T. +30 210 996 65 61
F. +30 210 996 90 29
info.gr@havells-sylvania.com

Hungary, Serbia, Montenegro, Romania

Budapest
T. +36 (30) 50 69 182
F. +36 (24) 423 563
info.hu@havells-sylvania.com

Italy

Milan
T. +39 02 24 12 58 11
F. +39 02 24 12 58 80
info.it@havells-sylvania.com

Netherlands

Breda
T. +31 (0)76 750 44 44
F. +31 (0)76 750 44 56
info.nl@havells-sylvania.com

Norway

Oslo
T. +47 23 067470
F. +47 23 067471
info.no@havells-sylvania.com

Poland

Warsaw
T. +48 22 811 60 32
F. +48 22 811 60 33
info.pl@havells-sylvania.com

Portugal

Lisbon
T. +351 21 793 77 36/37
F. +351 21 793 77 38
info.pt@havells-sylvania.com

Russia

Moscow
T. +7 495 935 70 48
F. +7 495 937 70 08
info.ru@havells-sylvania.com

Spain

Madrid
T. +34 91 669 90 00
F. +34 91 673 73 64
info.es@havells-sylvania.com

Sweden

Stockholm
T. +46 8 556 322 00
F. +46 8 556 322 10
info.se@havells-sylvania.com

Switzerland

Zurich
T. +41 44305 31 80
F. +41 44305 31 81
info.ch@havells-sylvania.com

Turkey

Istanbul
Albania, Asian CIS (Azerbaijan, Georgia, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan), Bulgaria, N. Cyprus, Macedonia
T. +90 212 343 46 10
F. +90 212 343 46 10
info.tr@havells-sylvania.com

UK

Newhaven
T. +44 870 606 2030
F. +44 1273 512 688
info.uk@havells-sylvania.com
info.concord@havells-sylvania.com

Ukraine

Kyiv
T. +380 44 3861091

MIDDLE EAST

United Arab Emirates

Dubai
T. +971 4 2998141
F. +971 4 2998142
info.ae@havells-sylvania.com

ASIA

China

Guangzhou
T. +86 20 3815 1138
F. +86 20 3869 7572
info.cn@havells-sylvania.com

India

Noida
T. +91 120 477 1000
F. +91 120 477 2000
marketing@havells.com

Malaysia

Kuala Lumpur
T. +603 2031 8788
F. +603 2031 4788

Thailand

Bangkok
T. +66 2656 9039
F. +66 2254 3369
info.th@havells-sylvania.com

Vietnam

Hanoi
T. +844 37 151 604
F. +844 37 151 605
info.vn@havells-sylvania.com

AMERICAS

Argentina

Buenos Aires
T. +54 11 4515 0215
F. +54 11 4515 0215
info.ar@havells-sylvania.com

Brazil

São Paulo
T. +55 11 3133 2400
F. +55 11 5521 3660
info.br@havells-sylvania.com

Caribbean

Honduras, Nicaragua
San José
T. +506 22 107 678
F. +506 22 328 723
info.cr@havells-sylvania.com

Chile

Santiago

Colombia

Santafé de Bogota
T. +57 1 782 5200
F. +57 1 719 9621
info.co@havells-sylvania.com

Costa Rica

San José
T. +506 22 107 678
F. +506 22 200 338
sales@havells-sylvania.com

Ecuador

Quito
T. +593 2 328 4407
F. +593 2 281 0007
info.ec@havells-sylvania.com

El Salvador

San Salvador
T. +503 2239 2239
F. +503 2284 9670
info.sv@havells-sylvania.com

Guatemala

Guatemala City
T. +502 2387 5300
F. +502 2387 5301
info.gt@havells-sylvania.com

Mexico

Mexico D.F.
T. +52 55 5387 7670
F. +52 55 5387 7671
info.mx@havells-sli.com

Panama

Panama City
T. +507 236 1000
F. +507 236 1315
info.pa@havells-sylvania.com

Peru

Lima
T. +511 446 1435/ 446 9939
F. +511 446 9990

USA

Atlanta, G.A.
T. 1 800 922 6693
info.us@havells-USA.com

Venezuela

Caracas
T. +58 212 381 0452
F. +58 212 381 0350
info.ve@havells-sylvania.com

www.havells-sylvania.com

Havells Sylvania Belgium B.V.B.A.

Industriepark 13, Soldatenplein Z2

3300 Tienen

Belgium

Phone: (+32) 16 800 366 • Fax: (+32) 16 800 367

www.havells-sylvania.com

info.special-products@havells-sylvania.com