

**SYLVANIA**

# lampen

2008/09



**SYLVANIA**

## HAVELLS SYLVANIA

Havells Sylvania is a leading full-spectrum provider of lighting solutions building on a century of expertise in lamps and fixtures. All over the world, people rely on powerful brands like Concord®, Lumiance®, Linolite® and Sylvania®\* for top quality, energy-efficient solutions to their individual lighting needs.

Formed in April 2007, Havells Sylvania is owned by Havells India Ltd.. Havells is a one of the largest and fastest growing manufacturers of electrical components and systems in India. With 94 branches and representative offices and 8,000 professionals in more than 50 countries, the group has grown rapidly to a 1 billion US\$ company.

At 18 manufacturing plants in India, Europe, Latin America & Africa, the group produces globally acclaimed products such as switchgear, cables, wires, fixtures and lamps.

\* In Australia, Canada, Mexico, New Zealand, Puerto Rico and the USA the brand name is with different owners.

## **SYLVANIA** Lamps

Havells Sylvania is one of the world's largest producers of light sources and manufactures a wide range of lamps: incandescent, halogen, CFL, fluorescent, LED and a comprehensive range of HID lamps and other specialist lighting products for the professional specifier and user.

Sylvania lamps are distributed from stock, via our national sales organisations around the world, to original equipment manufacturers and retail outlets and through professional wholesale distribution to installers and end users.



**ERLANGEN (GERMANY)**



**SHIPLEY (ENGLAND)**



**TIENEN (BELGIUM)**

### **COMPETENCY CENTRES**

Sylvania has created Competency Centres for its major lamp product groups – bringing specific design, marketing and production engineering skills, for each key lamp group, together in one place: to co-ordinate and focus the years of experience this brings to new product development; and to bring products into the market place efficiently and effectively.

- **Erlangen** (Germany): produces fluorescent lamps of all types.
- **Shipley** (England): produces innovative, energy-saving compact fluorescent lamps.
- **Tienen** (Belgium): specialises in low voltage and mains voltage halogen lamps, HID lamps, incandescent lamps and LEDs.

## LAMP RANGE

Sylvania's range of lamps is one of the largest and most complete in the industry. As a full-line lighting supplier, we can draw on our strengths in both lamps and fixtures to match the two for the best results for our customers.



### INCANDESCENT LAMPS

Incandescent lamps remain highly popular for home lighting. Research shows that new shapes and colour tones will stimulate consumers to buy light bulbs which add atmosphere to every part of the home.



### TUNGSTEN HALOGEN LAMPS

Low voltage tungsten halogen lamps come in many forms and sizes and thanks to a highly advanced and precise technique, are also available in low-pressure versions, which allow free burning in open fixtures.

Sylvania's mains voltage tungsten halogen lamps, including the 4000 hours HI-SPOT® SUPERIA range, combine beautiful bright halogen light with the many advantages of mains voltage.



### LEDS

LEDs are becoming more and more efficient and applicable for accent lighting purposes. They are available in various shapes, intensities, beam angles and colours. To meet the need for difficult to service, long lasting light source, LEDs are the perfect solution. The small dimensions of these light sources and the easy connectivity make them popular in the creation of staggering easy to install lighting effects.

Sylvania offers a comprehensive range of mounted LED light sources. This range covers the widest application possibilities for accent light solutions. For specific needs and tailor made solutions, Sylvania is always able to offer an LED module that fits the need of our customer.



### COMPACT FLUORESCENT LAMPS

Compact fluorescent lamps meet the growing need for energy-efficient, long lasting, light sources for a wide variety of commercial and domestic applications. The Sylvania Lynx range offers comprehensive solutions for diverse applications.

The Highly successful Mini-Lynx Fast-Start range offers unique compactness and is designed to replace standard incandescent GLS lamps in any application where they are used, while using a fifth of the energy and lasting six to fifteen times longer (6000 to 15000 hours) – reducing both energy bills and lamp changes. Lynx and Mini-Lynx lamps share the same common features of long life, high colour rendering and constant light output throughout life.



### FLUORESCENT TUBES

The key benefits of fluorescent lamps are their proven efficiency and long lamp life and their suitability for use with magnetic ballasts or electronic control gear.

There have been significant improvements in recent years in lamp efficacy, colour rendering, lumen maintenance and lamp life. Perhaps the most important improvement has been the use of advanced phosphors, which offer high efficacy and excellent colour rendering.

Sylvania offers a comprehensive range of high-efficiency fluorescent lamps in various lengths, diameters, wattages, colours as well as lamps for a wide range of specialist applications.



### HID LAMPS

High Intensity Discharge lamps provide excellent luminous efficiency, long life and colour rendering to meet a variety of lighting needs, in both indoor applications – shops and industry for example – and exterior applications such as street and architectural lighting.

Sylvania's ranges of discharge lamps are characterised by quality lamp materials, advanced manufacturing techniques and quality control procedures, which ensure their performance and reliability.

# Guide to Symbols



Allowed lamp operating positions



Universal burning position



Horizontal burning position



Vertical burning position



Incandescent Candle and Ball:  
Base up not allowed



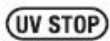
Lamp can be operated in luminaires  
without a protective shield



Lamp should be operated only in a luminaire  
provided with a protective shield



Lamp emits a high level of UV radiation



Reduced UV emissions



Cool beam reflector



Not dimmable



Protection against water contact



Internal ignitor



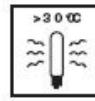
External ignitor



Ballast is required



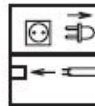
Lamp should not be operated when  
the outer bulb is broken



Be aware of high temperatures when  
replacing lamp



Do not hold the lamp glass when  
installing or removing



Switch off power supply before  
replacing lamp



Do not touch lamp with bare  
fingers when replacing lamp



Energy saving



Treat lamp as small chemical waste



Open packaging and read instructions



Read instructions before use



Lamp complies with legal standards



Lamp complies with legal standards



Lamp complies with legal standards



Grüne Punkt



Bowl Mirror lamps

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**MANUFACTURER'S LAMP CROSS REFERENCE**

Sylvania	Osram	Philips	GE
GLS	Classic A Shape	Standard A-Shape	A-Shape
GLS-T	Classic T60 Shape	Standard T-Shape	T-Shape
Candle	B Shape	Candle B-Shape	C-Shape
Candle Twisted	BW Twisted	Candle BW-Shape	CW-Shape
Candle Windshape	BA Shape	Candle BXS-Shape	CA-Shape
Ball	P Shape	Ball P-Shape	G-Shape
Globe	G Shape	Globe G-Shape	G-Shape
Reflector	R Shape	SPOTONE R-Shape	R-Shape
PAR 38	PAR 38	SPOTONE PAR 38	PAR 38
Tubular	T Shape/Tubular	Tubular	T-Shape
Pygmy	T Shape/Pygmy	Pygmy	S-Shape
Striplights	Striplights	Linear T26/T37	Striplights
Linear Architectural	Linestra	Philinea T30	Architectural

Incandescent lamps, with a typical average rated life of 1000 hours, are still widely used throughout the world in commercial and domestic lighting applications.

With a bright portfolio and shapes as GLS, GLS T, candle, Ball, Reflector, PAR, Tublar, Pygmy, Striplights, and linear architectural.



**BRILLIANT SATIN**

With improved white coating, have an even-surface brightness which reduces the shadows thrown by normal lamps and are designed for those areas where people need bright white light with minimal envelope glare.



**CLEAR**

Clear lamps deliver extra sparkle demanded for chandeliers and glass luminaires.

**PASTEL SATIN**

Based on our satin coating technology; to which a hint of colour has been applied to enhance the decor of rooms where people seek peace and comfort.

Available in Apricot ( a tint of orange), Azure ( a tint of blue), Cream, Jade (a tint of green) and Rose (a tint of pink).


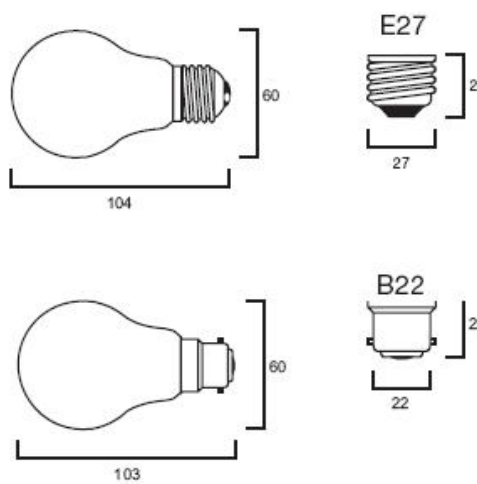

**BRILLIANT SATIN, CLEAR AND PASTEL SATIN**

Available in all popular sizes in the T60 envelope, introduced as an alternative to the more traditional pear-shaped envelope, as well as in 45mm round and 35mm candle lamps.

**CANDLE WINDSHAPE**

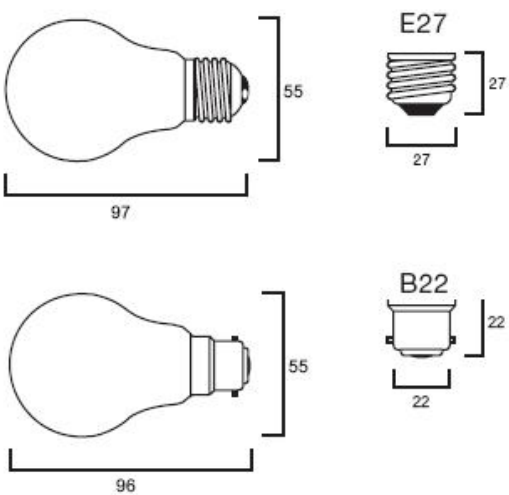


Now available in different colours and formats, including frosted and gold finish, and flicker candles

# GLS Clear A60

	
	<ul style="list-style-type: none"> <li>● Standard pear shaped incandescent lamps with a crystal clear envelope</li> <li>● Clear sparkling light</li> <li>● Easy to operate</li> <li>● Excellent colour reproduction</li> <li>● Commercial and domestic lighting applications</li> </ul>


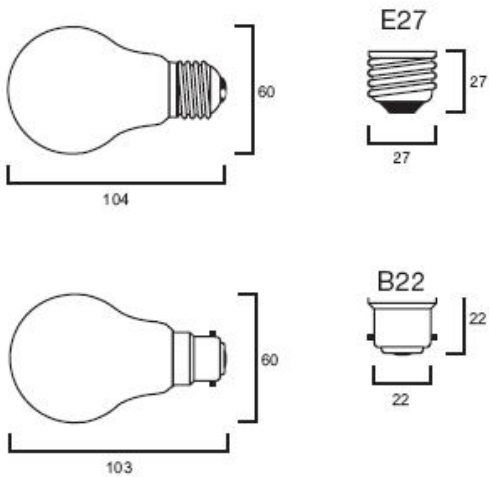

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Clear A 60*</b>							
0003026	**15W 230V E27 Clear	15W	230V	E27	Clear	110 lm	100
0012900	25W 230V E27 Clear	25W	230V	E27	Clear	230 lm	100
0013000	40W 230V E27 Clear	40W	230V	E27	Clear	415 lm	100
0013100	60W 230V E27 Clear	60W	230V	E27	Clear	710 lm	100
0013200	75W 230V E27 Clear	75W	230V	E27	Clear	925 lm	100
0013220	75W 230V B22 Clear	75W	230V	B22	Clear	915 lm	100
0013300	100W 230V E27 Clear	100W	230V	E27	Clear	1340 lm	100
0003030	*15W 240V E27 Clear	15W	240V	E27	Clear	105 lm	100
0003040	*15W 240V B22 Clear	15W	240V	B22	Clear	105 lm	100
0012941	25W 240V E27 Clear	25W	240V	E27	Clear	225 lm	100
0012944	25W 240V B22 Clear	25W	240V	B22	Clear	225 lm	100
0013041	40W 240V E27 Clear	40W	240V	E27	Clear	410 lm	100
0013044	40W 240V B22 Clear	40W	240V	B22	Clear	410 lm	100
0013141	60W 240V E27 Clear	60W	240V	E27	Clear	700 lm	100
0013144	60W 240V B22 Clear	60W	240V	B22	Clear	700 lm	100
0013241	75W 240V E27 Clear	75W	240V	E27	Clear	915 lm	100
0013341	100W 240V E27 Clear	100W	240V	E27	Clear	1330 lm	100
0013344	100W 240V B22 Clear	100W	240V	B22	Clear	1330 lm	100

\*A60 range will be replaced by A55 range when stocks are depleted except \*\*15 w versions which stays A60

	 
<ul style="list-style-type: none"> <li>● Standard pear shaped incandescent lamps with a crystal clear envelope</li> <li>● Clear sparkling light</li> <li>● Easy to operate</li> <li>● Excellent colour reproduction</li> <li>● Commercial and domestic lighting applications</li> </ul>	

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Clear A55</b>							
0003716	25w 230v Clear	25W	230V	E27	Clear	230 lm	100
0003726	40w 230v Clear	40W	230V	E27	Clear	415 lm	100
0003744	60w 230v Clear	60W	230V	E27	Clear	710 lm	100
0003765	75w 230v Clear	75W	230V	E27	Clear	925 lm	100
0003781	100w 230v Clear	100W	230V	E27	Clear	1340 lm	100
0003770	75w 230v Clear	75W	230V	B22	Clear	915 lm	100
0003720	25w 240v Clear	25W	240V	E27	Clear	225 lm	100
0003723	25w 240v Clear	25W	240V	B22	Clear	225 lm	100
0003737	40w 240v Clear	40W	240V	E27	Clear	410 lm	100
0003740	40w 240v Clear	40W	240V	B22	Clear	410 lm	100
0003754	60w 240v Clear	60W	240V	E27	Clear	700 lm	100
0003757	60w 240v Clear	60W	240V	B22	Clear	700 lm	100
0003773	75w 240v Clear	75W	240V	E27	Clear	915 lm	100
0003793	100w 240v Clear	100W	240V	E27	Clear	1330 lm	100
0003795	100w 240v Clear	100W	240V	B22	Clear	1330 lm	100

# GLS Satin A60

	
	<ul style="list-style-type: none"> <li>● Standard pear shaped incandescent lamps with a satin finish envelope</li> <li>● Satin finish for a more even and superior quality light</li> <li>● Easy to operate</li> <li>● Excellent colour reproduction</li> <li>● Commercial and domestic lighting applications</li> </ul>


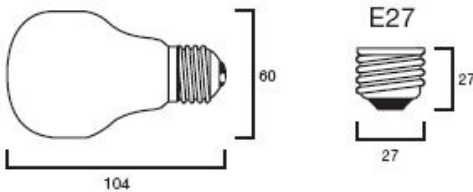

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Pearl A60*</b>							
0003025	**15W 230V E27 Pearl	15W	230V	E27	Pearl	110 lm	100
0003031	**15W 240V E27 Pearl	15W	240V	E27	Pearl	105 lm	100
0003041	**15W 240V B22 Pearl	15W	240V	B22	Pearl	105 lm	100
<b>GLS Brilliant Satin A60</b>							
0012902	25W 230V E27 Satin	25W	230V	E27	Satin	230 lm	100
0013002	40W 230V E27 Satin	40W	230V	E27	Satin	415 lm	100
0013102	60W 230V E27 Satin	60W	230V	E27	Satin	710 lm	100
0013202	75W 230V E27 Satin	75W	230V	E27	Satin	925 lm	100
0013302	100W 230V E27 Satin	100W	230V	E27	Satin	1340 lm	100
0012942	25W 240V E27 Satin	25W	240V	E27	Satin	225 lm	100
0012945	25W 240V B22 Satin	25W	240V	B22	Satin	225 lm	100
0013042	40W 240V E27 Satin	40W	240V	E27	Satin	410 lm	100
0013045	40W 240V B22 Satin	40W	240V	B22	Satin	410 lm	100
0013142	60W 240V E27 Satin	60W	240V	E27	Satin	700 lm	100
0013145	60W 240V B22 Satin	60W	240V	B22	Satin	700 lm	100
0013242	75W 240V E27 Satin	75W	240V	E27	Satin	915 lm	100
0013245	75W 240V B22 Satin	75W	240V	B22	Satin	915 lm	100
0013342	100W 240V E27 Satin	100W	240V	E27	Satin	1330 lm	100
0013345	100W 240V B22 Satin	100W	240V	B22	Satin	1330 lm	100

\*A60 range will be replaced by A55 range when stocks are depleted except \*\*15 w versions which stays A60

<ul style="list-style-type: none"> <li>● Standard pear shaped incandescent lamps with a satin finish envelope</li> <li>● Satin finish for a more even and superior quality light</li> <li>● Easy to operate</li> <li>● Excellent colour reproduction</li> <li>● Commercial and domestic lighting applications</li> </ul>	

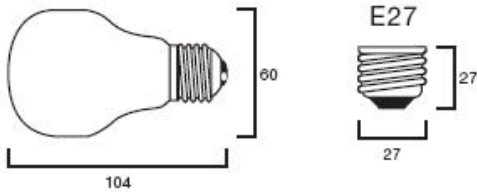
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Brilliant Satin A55</b>							
0003717	25w 230v Satin	25W	230V	E27	Satin	230 lm	100
0003727	40w 230v Satin	40W	230V	E27	Satin	415 lm	100
0003745	60w 230v Satin	60W	230V	E27	Satin	710 lm	100
0003766	75w 230v Satin	75W	230V	E27	Satin	925 lm	100
0003782	100w 230v Satin	100 W	230V	E27	Satin	1340 lm	100
0003721	25w 240v Satin	25W	240V	E27	Satin	225 lm	100
0003725	25w 240v Satin	25W	240V	B22	Satin	225 lm	100
0003738	40w 240v Satin	40 W	240V	E27	Satin	410 lm	100
0003741	40w 240v Satin	40 W	240V	B22	Satin	410 lm	100
0003755	60w 240v Satin	60W	240V	E27	Satin	700 lm	100
0003758	60w 240v Satin	60W	240V	B22	Satin	700 lm	100
0003774	75w 240v Satin	75W	240V	E27	Satin	915 lm	100
0003776	75w 240v Satin	75W	240V	B22	Satin	915 lm	100
0003794	100w 240v Satin	100W	240V	E27	Satin	1330 lm	100
0003796	100w 240v Satin	100W	240V	B22	Satin	1330 lm	100

# GLS-T Brilliant Satin & Clear

	
	<ul style="list-style-type: none"> <li>• T shaped envelope</li> <li>• Modern appearance</li> <li>• More uniform and superior quality light</li> <li>• No hard shadows for satin type</li> <li>• Replaces conventional incandescent lamps where the lamp appearance is important</li> <li>• Recommended for use in luminaires where the lamp is completely visible or forms an integral part of the luminaire design</li> </ul>



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS-T Brilliant Satin</b>							
0012947	25W 230V E27 Brilliant Satin	25W	230V	E27	Satin	185 lm	100
0013014	40W 230V E27 Brilliant Satin	40W	230V	E27	Satin	385 lm	100
0013134	60W 230V E27 Brilliant Satin	60W	230V	E27	Satin	655 lm	100
0013234	75W 230V E27 Brilliant Satin	75W	230V	E27	Satin	850 lm	100
0013314	100W 230V E27 Brilliant Satin	100W	230V	E27	Satin	1210 lm	100
<b>GLS-T Clear</b>							
0013013	40W 230V E27 Clear	40W	230V	E27	Clear	415 lm	100
0013133	60W 230V E27 Clear	60W	230V	E27	Clear	710 lm	100

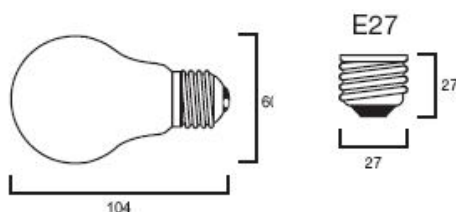


- T shaped envelope
- Modern appearance
- Choice of five colours: apricot (a hint of orange), azure (a hint of blue), cream (a hint of yellow), jade (hint of green) and rose (hint of pink)
- Commercial and domestic lighting applications
- For where a gentle hint of colour will add interest or atmosphere



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS-T Pastel Satin</b>							
0003171	40W 230V E27 Cream	40W	230V	E27	Cream	400 lm	100
0003319	60W 230V E27 Cream	60W	230V	E27	Cream	670 lm	100
0003320	60W 230V E27 Apricot	60W	230V	E27	Apricot	630 lm	100
0003321	60W 230V E27 Rose	60W	230V	E27	Rose	540 lm	100
0003322	60W 230V E27 Azure	60W	230V	E27	Azure	570 lm	100
0003323	60W 230V E27 Jade	60W	230V	E27	Jade	580 lm	100
0003173	100W 230V E27 Cream	100W	230V	E27	Cream	1250 lm	100

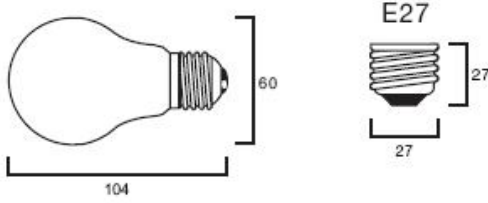


## GLS Colour

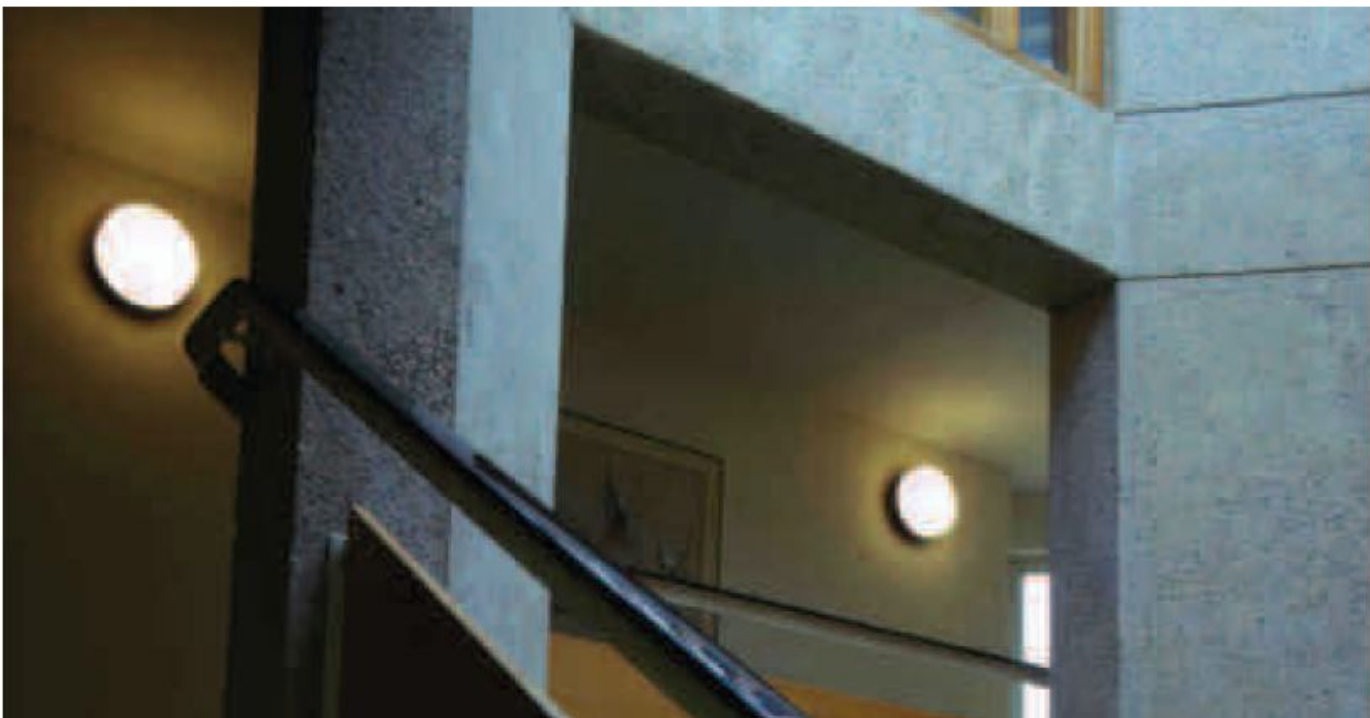


- Pear shaped lamps with a choice of vivid coloured envelopes
- Choice of four colours: Blue, Red, Green and Yellow
- Weather resistant (Vacuum)
- To create a festive atmosphere e.g. lighting of Christmas trees, fairs, carnivals etc.
- Suitable for exterior applications



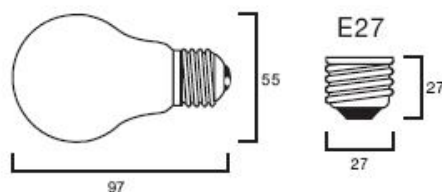
Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>GLS Colour</b>						
0008453	25W 240V E27 Blue	25W	240V	E27	Blue	100
0008454	25W 240V E27 Red	25W	240V	E27	Red	100
0008455	25W 240V E27 Green	25W	240V	E27	Green	100
0008456	25W 240V E27 Yellow	25W	240V	E27	Yellow	100

	
<ul style="list-style-type: none"> <li>• Standard pear shaped lamps offering more than double the life of a standard GLS</li> <li>• Pear shaped frosted envelope</li> <li>• Last up to 2.5 times longer than conventional GLS lamps</li> <li>• Suitable for commercial and domestic lighting applications</li> <li>• Extended lifetime of 2500 hours</li> </ul>	

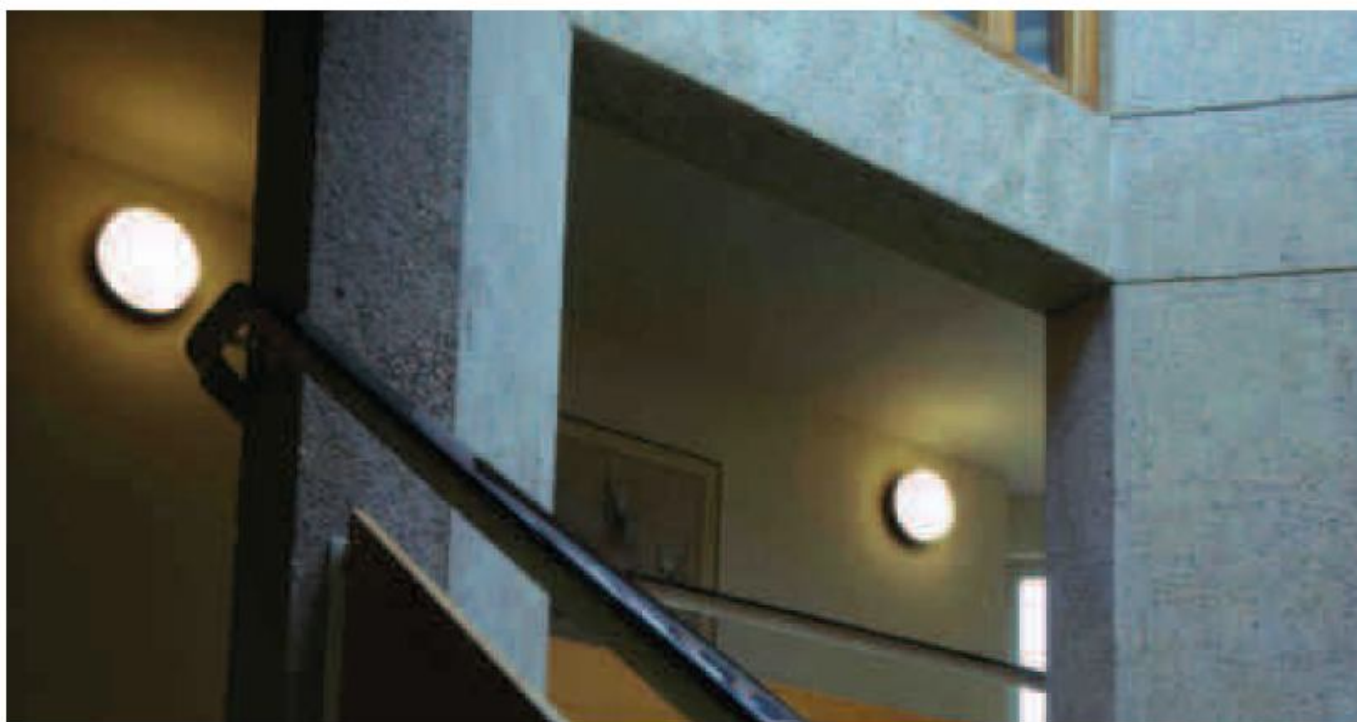


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Long Life A60</b>							
0012943	25W 240V E27 frosted	25W	240V	E27	frosted	170 lm	100
0013043	40W 240V E27 frosted	40W	240V	E27	frosted	350 lm	100
0013143	60W 240V E27 frosted	60W	240V	E27	frosted	600 lm	100
0013243	75W 240V E27 frosted	75W	240V	E27	frosted	770 lm	100

## GLS Long Life A55



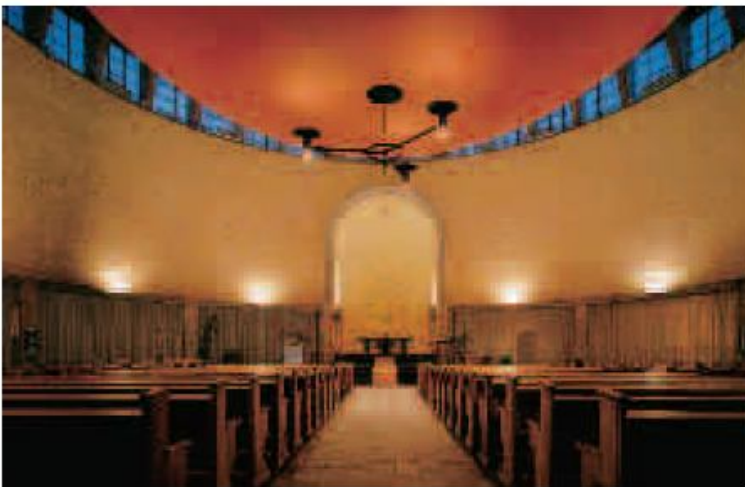
- Standard pear shaped lamps offering more than double the life of a standard GLS
- Pear shaped frosted envelope
- Last up to 2.5 times longer than conventional GLS lamps
- Suitable for commercial and domestic lighting applications
- Extended lifetime of 2500 hours



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Long Life A55</b>							
0003722	25w 240v Satin	25W	240V	E27	Satin	170 lm	100
0003739	40w 240v Satin	40W	240V	E27	Satin	350 lm	100
0003756	60w 240v Satin	60W	240V	E27	Satin	600 lm	100
0003775	75w 240v Satin	75W	240V	E27	Satin	770 lm	100

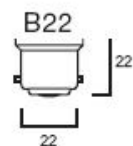
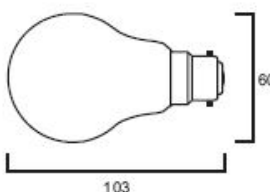
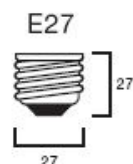
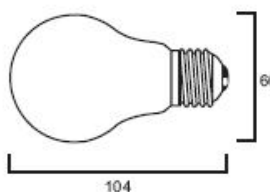
<b>E27</b>	150W	200W
L	129	129
D	68	68
<b>E40</b>	300W	
L	192	
D	68	

- High output pear shaped incandescent lamps with a pearl or clear envelope
- General, commercial and agricultural lighting applications e.g. garages, cellars, outhouses, car parks, staircases etc.

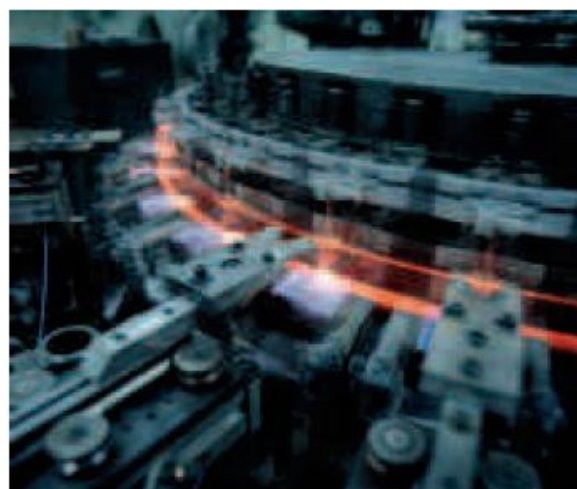
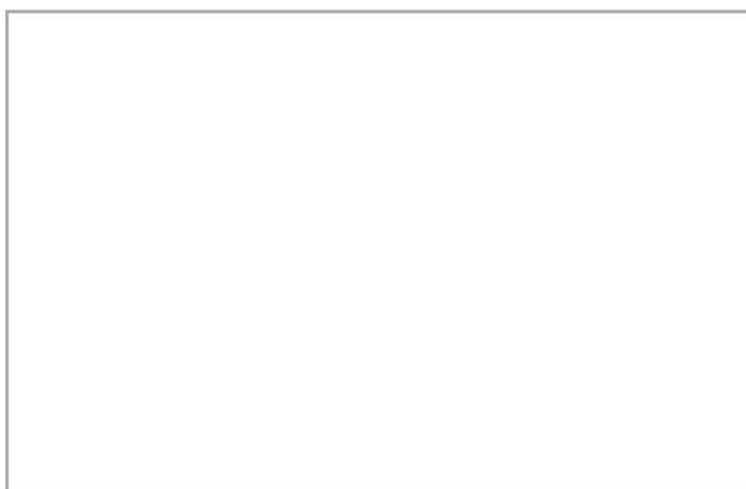


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS High Wattage Clear</b>							
0004305	150W 230V E27 Clear	150W	230V	E27	Clear	2160 lm	100
0004345	200W 230V E27 Clear	200W	230V	E27	Clear	3090 lm	100
0010006	300W 230V E40 Clear	300W	230V	E40	Clear	4510 lm	10
0004349	200W 240V E27 Clear	200W	240V	E27	Clear	3080 lm	100
0004351	200W 240V B22 Clear	200W	240V	B22	Clear	3080 lm	100
<b>GLS High Wattage Pearl</b>							
0004306	150W 230V E27 Pearl	150W	230V	E27	Pearl	2160 lm	100
0004346	200W 230V E27 Pearl	200W	230V	E27	Pearl	3090 lm	100
0004312	150W 240V B22 Pearl	150W	240V	B22	Pearl	2150 lm	100
0004310	150W 240V E27 Pearl	150W	240V	E27	Pearl	2150 lm	100
0004350	200W 240V E27 Pearl	200W	240V	E27	Pearl	3080 lm	100

# GLS Extra Low Voltage

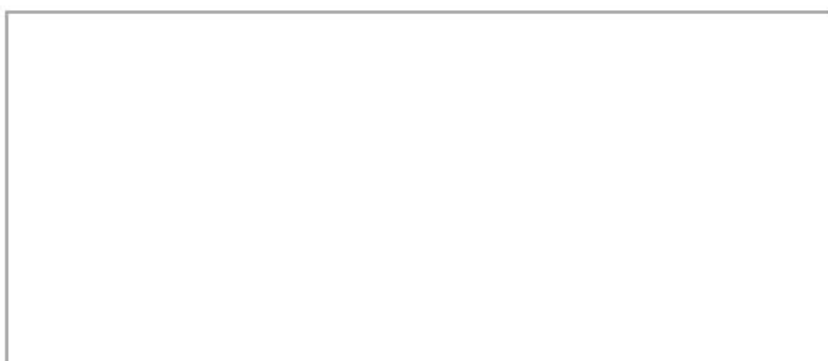
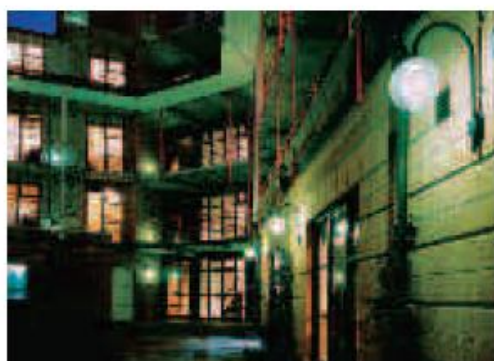


- Pear shaped incandescent lamps for operating on low voltage circuits
- Pearl or clear envelope
- Suitable for operation on low voltage circuits (24-25V)
- Extended lifetime of 2500 hours for 25W and 40W versions
- 1000 hour lifetime for 60W and 100W versions
- Suitable for emergency lighting, machines, signs and signal panels




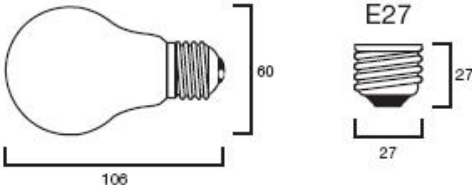

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Extra Low Voltage Clear</b>							
0009668	25W 24-25V E27 Clear	25W	24-25V	E27	Clear	380 lm	100
0009696	40W 24-25V E27 Clear	40W	24-25V	E27	Clear	600 lm	100
0009694	40W 24-25V B22 Clear	40W	24-25V	B22	Clear	600 lm	100
0009728	60W 24-25V E27 Clear	60W	24-25V	E27	Clear	960 lm	100
0009726	60W 24-25V B22 Clear	60W	24-25V	B22	Clear	960 lm	100
0009780	100W 24-25V E27 Clear	100W	24-25V	E27	Clear	1800 lm	100
<b>GLS Extra Low Voltage Pearl</b>							
0009669	25W 24-25V E27 Pearl	25W	24-25V	E27	Pearl	380 lm	100
0009697	40W 24-25V E27 Pearl	40W	24-25V	E27	Pearl	600 lm	100
0009729	60W 24-25V E27 Pearl	60W	24-25V	E27	Pearl	960 lm	100
0009727	60W 24-25V B22 Pearl	60W	24-25V	B22	Pearl	960 lm	100

<ul style="list-style-type: none"> <li>● Extra durable lamp resistant to vibrations</li> <li>● Ideal for use in industrial and working environments like garages etc.</li> <li>● Rough service types suitable for use in ovens are resistant to 300°C</li> <li>● Available in clear and pearl finish envelope</li> <li>● Extended 1500 hour service life</li> </ul>	




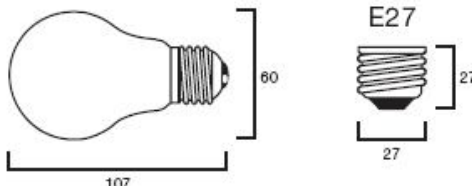

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Oven Rough Service</b>							
0029360	Oven 40W 230V Clear	40W	230V	E27	Clear	290 lm	100
0029380	Oven 60W 230V Clear	60W	230V	E27	Clear	550 lm	100
0029390	Oven 75W 230V Clear	75W	230V	E27	Clear	765 lm	100
0029403	Oven 100W 230V Clear	100W	230V	E27	Clear	1130 lm	100
0029365	Oven 40W 240V Pearl	40W	240V	B22	Pearl	285 lm	100
0029406	Oven 100W 240V Pearl	100W	240V	B22	Pearl	1110 lm	100
<b>GLS Rough Service</b>							
0029345	Rough Serv 25W 230V Pearl	25W	230V	E27	Pearl	170 lm	100
0029381	Rough Serv 60W 230V Pearl	60W	230V	E27	Pearl	560 lm	100
0029401	Rough Serv 100W 230V Pearl	100W	230V	E27	Pearl	1130 lm	100
0029364	Rough Serv 40W 240V Pearl	40W	240V	E27	Pearl	285 lm	100
0029404	Rough Serv 100W 240V Clear	100W	240V	E27	Clear	1110 lm	100
0029405	Rough Serv 100W 240V Pearl	100W	240V	E27	Pearl	1110 lm	100

## GLS Rustika Deluxe

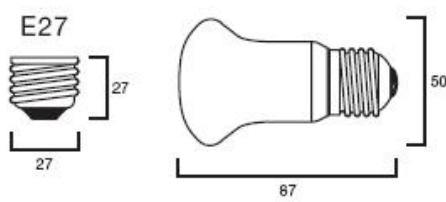
	
	<ul style="list-style-type: none"> <li>• Clear GLS lamp</li> <li>• Long decorative filament</li> <li>• Special light effects with a classic touch</li> </ul>


Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>GLS Rustika Deluxe</b>						
0008567	60W E27 Rustika Deluxe	60W	230V	E27	Clear	10

## GLS Blacklight


	
	<ul style="list-style-type: none"> <li>• Blacklight finish</li> <li>• E27 base</li> <li>• Natural coloured glass will not fade or deteriorate over lamp life</li> <li>• Double life 2000 hour filament</li> <li>• Special effect lamp for parties, bars and clubs</li> </ul>

Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>GLS Blacklight</b>						
0013148	60W E27 Blacklight	60W	230V	E27	Black	25



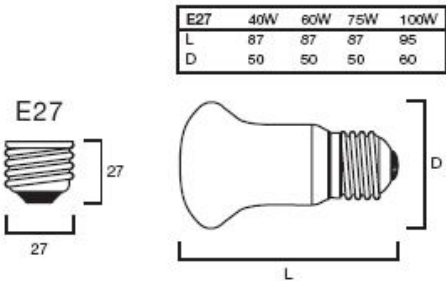


- Incandescent lamps that use 10% less energy compared to equivalent standard GLS lamps
- Mushroom shaped envelope
- Same light output and lamp life as equivalent standard GLS lamps
- Suitable for general commercial and domestic lighting applications




Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Energy Saving</b>							
0003367	36W 230V E27 Pearl	36W	230V	E27	Pearl	415 lm	100
0003549	54W 230V E27 Pearl	54W	230V	E27	Pearl	715 lm	100
0003951	69W 230V E27 Pearl	69W	230V	E27	Pearl	940 lm	100


# GLS Super Deluxe



E27	40W	60W	75W	100W
L	87	87	87	95
D	50	50	50	60




- White coated envelope with pearl finish crown
- Mushroom shaped envelope
- Soft reflector delivers 10% extra light out of the top of the bulb crown
- Suitable for commercial and domestic lighting applications

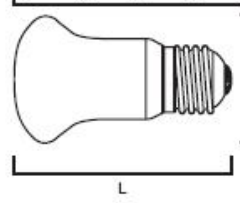
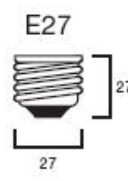


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Super Deluxe</b>							
0005082	40W 230V E27	40W	230V	E27	Pearl	390 lm	100
0005083	60W 230V E27	60W	230V	E27	Pearl	670 lm	100
0005084	75W 230V E27	75W	230V	E27	Pearl	875 lm	100
0005085	100W 230V E27	100W	230V	E27	Pearl	1260 lm	100

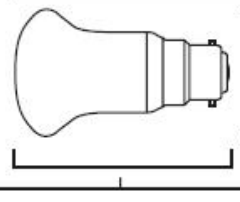
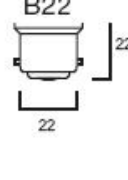
# GLS Krypton




E27	40W	60W	75W	100W	150W
L	87	87	87	95	111
D	50	50	50	60	65

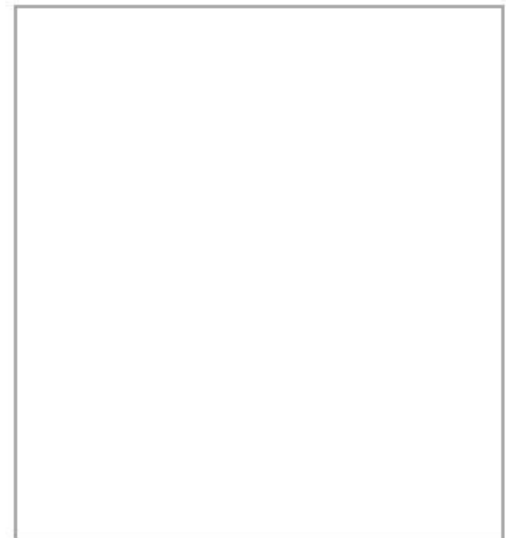


  

B22	40W	60W	75W	100W	150W
L	86	86	86	94	110
D	50	50	50	60	65



- Filled with krypton gas, offering 2000 hour service life
- Mushroom shaped envelope
- Opal finish envelope
- Suitable for commercial and domestic lighting e.g. offices, shops, hotels



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>GLS Krypton</b>							
0003363	40W 230V E27 Opal	40W	230V	E27	Opal	415 lm	100
0003365	40W 230V B22 Opal	40W	230V	B22	Opal	415 lm	100
0003545	60W 230V E27 Opal	60W	230V	E27	Opal	715 lm	100
0003547	60W 230V B22 Opal	60W	230V	B22	Opal	715 lm	100
0003947	75W 230V E27 Opal	75W	230V	E27	Opal	940 lm	100
0003949	75W 230V B22 Opal	75W	230V	B22	Opal	940 lm	100
0004155	100W 230V E27 Opal	100W	230V	E27	Opal	1350 lm	100
0004157	100W 230V B22 Opal	100W	230V	B22	Opal	1350 lm	100

E14	15W	25W	40W	60W
L	97	97	97	97
D	35	35	35	35
E27	15W	25W	40W	60W
L	-	92	-	92
D	-	35	-	35

- Candle shaped incandescent lamps
- Brilliant Satin lamps have a pure white envelope finish
- Clear lamps have a crystal clear envelope for added sparkle
- More even, superior quality light (Brilliant Satin) or sparkling crystal clear light of impeccable quality (Clear)
- Commercial and domestic decorative lighting applications

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
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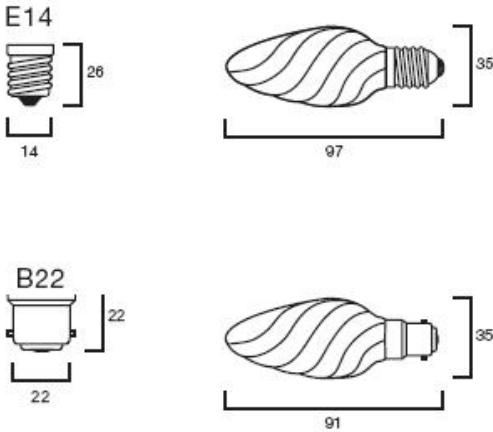

**Candle Brilliant Satin**

0011261	15W 230V E14 Satin	15W	230V	E14	Satin	105 lm	100
0011272	25W 230V E14 Satin	25W	230V	E14	Satin	215 lm	100
0006306	25W 230V E27 Satin	25W	230V	E27	Satin	215 lm	100
0011302	40W 230V E14 Satin	40W	230V	E14	Satin	415 lm	100
0006476	40W 230V E27 Satin	40W	230V	E27	Satin	415 lm	100
0011323	40W 230V B22 Satin	40W	230V	B22	Satin	415 lm	100
0011352	60W 230V E14 Satin	60W	230V	E14	Satin	700 lm	100
0006644	60W 230V E27 Satin	60W	230V	E27	Satin	700 lm	100
0011372	60W 230V B22 Satin	60W	230V	B22	Satin	700 lm	100
0011264	15W 240V E14 Satin	15W	240V	E14	Satin	100 lm	100
0006413	25W 240V E27 Satin	25W	240V	E27	Satin	215 lm	100
0011293	25W 240V B22 Satin	25W	240V	B22	Satin	215 lm	100
0011294	25W 240V B15 Satin	25W	240V	B15	Satin	215 lm	100
0006414	40W 240V E27 Satin	40W	240V	E27	Satin	415 lm	100
0011324	40W 240V B22 Satin	40W	240V	B22	Satin	415 lm	100
0011325	40W 240V B15 Satin	40W	240V	B15	Satin	415 lm	100
0006415	60W 240V E27 Satin	60W	240V	E27	Satin	700 lm	100
0011373	60W 240V B22 Satin	60W	240V	B22	Satin	700 lm	100
0011374	60W 240V B15 Satin	60W	240V	B15	Satin	700 lm	100

**Candle Clear**

0011270	25W 230V E14 Clear	25W	230V	E14	Clear	215 lm	100
0006301	25W 230V E27 Clear	25W	230V	E27	Clear	215 lm	100
0011300	40W 230V E14 Clear	40W	230V	E14	Clear	415 lm	100
0006470	40W 230V E27 Clear	40W	230V	E27	Clear	415 lm	100
0011321	40W 230V B22 Clear	40W	230V	B22	Clear	415 lm	100
0011350	60W 230V E14 Clear	60W	230V	E14	Clear	700 lm	100
0006643	60W 230V E27 Clear	60W	230V	E27	Clear	700 lm	100
0011371	60W 230V B22 Clear	60W	230V	B22	Clear	700 lm	100
0011263	15W 240V E14 Clear	15W	240V	E14	Clear	100 lm	100
0006410	25W 240V E27 Clear	25W	240V	E27	Clear	215 lm	100
0011287	25W 240V B22 Clear	25W	240V	B22	Clear	215 lm	100
0011288	25W 240V B15 Clear	25W	240V	B15	Clear	215 lm	100
0006411	40W 240V E27 Clear	40W	240V	E27	Clear	415 lm	100
0011317	40W 240V B22 Clear	40W	240V	B22	Clear	415 lm	100
0011318	40W 240V B15 Clear	40W	240V	B15	Clear	415 lm	100
0006412	60W 240V E27 Clear	60W	240V	E27	Clear	700 lm	100
0011367	60W 240V B22 Clear	60W	240V	B22	Clear	415 lm	100
0011368	60W 240V B15 Clear	60W	240V	B15	Clear	415 lm	100

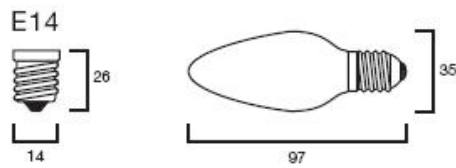
## Candle Twisted

	
	<ul style="list-style-type: none"> <li>● Candle shaped lamps with a twisted envelope</li> <li>● Decorative appearance</li> <li>● Clear or satin finish</li> <li>● To replace candle lamps in wall or ceiling luminaires</li> <li>● E14 and B22 cap</li> <li>● Commercial and domestic decorative lighting applications</li> </ul>



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Candle Twisted Satin</b>							
0011404	25W 230V E14 Satin	25W	230V	E14	Satin	215 lm	100
0011412	40W 230V E14 Satin	40W	230V	E14	Satin	415 lm	100
0011432	60W 230V E14 Satin	60W	230V	E14	Satin	700 lm	100
0011436	60W 230V B22 Satin	60W	230V	B22	Satin	700 lm	100
<b>Candle Twisted Clear</b>							
0011400	25W 230V E14 Clear	25W	230V	E14	Clear	215 lm	100
0011410	40W 230V E14 Clear	40W	230V	E14	Clear	415 lm	100
0011430	60W 230V B22 Clear	60W	230V	B22	Clear	700 lm	100

## Candle Pastel Satin



- Candle shaped envelope
- Available in 5 colours – Cream, Apricot (orange), Rose (pink), Azure (blue), and Jade (green)
- For use where a gentle touch of colour will add interest or atmosphere
- Commercial and domestic decorative lighting applications

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Candle Pastel Satin</b>							
0006215	40W 230V E14 Cream	40W	230V	E14	Cream	380 lm	100
0006216	40W 230V E14 Apricot	40W	230V	E14	Apricot	360 lm	100
0006217	40W 230V E14 Rose	40W	230V	E14	Rose	320 lm	100
0006218	40W 230V E14 Azure	40W	230V	E14	Azure	315 lm	100
0006219	40W 230V E14 Jade	40W	230V	E14	Jade	320 lm	100


## Candle Krypton

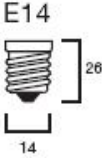
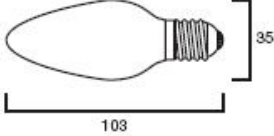


- Candle shaped envelope
- Krypton gas filling offering more light versus standard candle lamps
- White opal finish for a more even and superior soft light
- Commercial and domestic lighting applications


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Candle Krypton</b>							
0011450	25W 230V E14 Opal	25W	230V	E14	Opal	215 lm	100
0011454	40W 230V E14 Opal	40W	230V	E14	Opal	410 lm	100
0011457	60W 230V E14 Opal	60W	230V	E14	Opal	700 lm	100

## Candle Colour







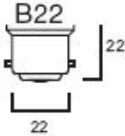
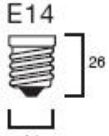
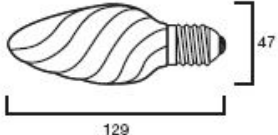
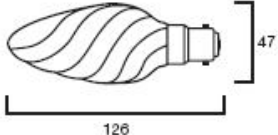
- Candle shaped envelope
- Available in 4 colours – Blue, Red, Green and Yellow
- E14 cap
- Add a touch of colour for a party ambience
- Commercial and domestic decorative lighting




Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>Candle Colour</b>						
0008965	40W E14 Blue	40W	230V	E14	Blue	100
0008966	40W E14 Red	40W	230V	E14	Red	100
0008967	40W E14 Green	40W	230V	E14	Green	100
0008968	40W E14 Yellow	40W	230V	E14	Yellow	100

## Candle Giant Twisted



- Giant candle with twisted envelope
- Outside frosted finish for decorative appearance
- E14 and B22 cap
- Domestic and commercial lighting applications
- Suitable for wall luminaires, cadelabras




Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Candle Giant Twisted</b>							
0011423	40W 230V E14 Frosted	40W	230V	E14	Frosted	410 lm	100
0011421	40W 230V B22 Frosted	40W	230V	B22	Frosted	410 lm	100
0011441	60W 230V B22 Frosted	60W	230V	B22	Frosted	700 lm	100

<ul style="list-style-type: none"> <li>Decorative lamps in pearl, gold or clear finish</li> <li>Continuous flickering effect for the flicker candle</li> <li>E14 cap</li> <li>Domestic and commercial decorative lighting where the look of the lamp is important</li> </ul>	



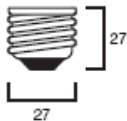
Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>Candle Windshape</b>						
0007997	3W 230V E14 Flicker	3W	240V	E14	Clear	25
0006660	25W 230V E14 Gold	25W	240V	E14	Gold	50
0006527	25W 230V E14 Pearl	25W	240V	E14	Pearl	20
0006528	40W 230V E14 Pearl	40W	230V	E14	Pearl	20

# Ball Brilliant Satin & Clear

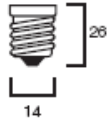


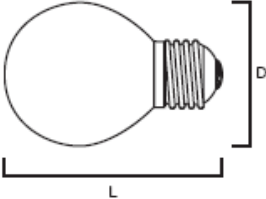
<b>E14</b>	15W	25W	40W	60W
L	73	73	73	73
D	45	45	45	45
<b>E27</b>	15W	25W	40W	60W
L	71	71	71	71
D	45	45	45	45

**E27**

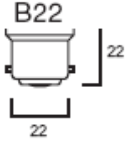


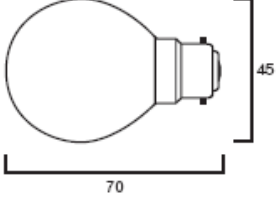
**E14**






**B22**





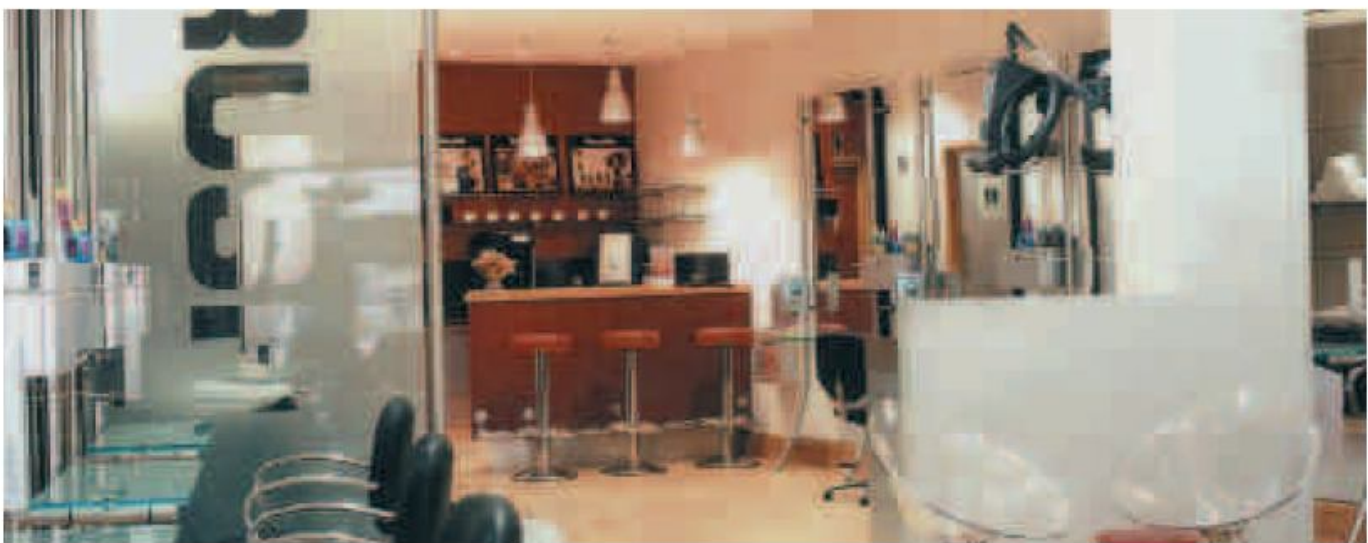


- Round lamp envelope
- Available in brilliant satin finish for more even soft quality light
- Available in clear finish for sparking crystal clear light
- E14, E27 and B22 cap
- Suitable for commercial and domestic decorative lighting

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Ball Brilliant Satin</b>							
0036601	15W 230V E14 Satin	15W	230V	E14	Satin	100 lm	100
0037351	15W 230V E27 Satin	15W	230V	E27	Satin	100 lm	100
0036652	25W 230V E14 Satin	25W	230V	E14	Satin	215 lm	100
0037402	25W 230V E27 Satin	25W	230V	E27	Satin	215 lm	100
0037612	25W 230V B22 Satin	25W	230V	B22	Satin	215 lm	100
0036852	40W 230V E14 Satin	40W	230V	E14	Satin	415 lm	100
0037452	40W 230V E27 Satin	40W	230V	E27	Satin	415 lm	100
0037652	40W 230V B22 Satin	40W	230V	B22	Satin	415 lm	100
0036952	60W 230V E14 Satin	60W	230V	E14	Satin	700 lm	100
0037502	60W 230V E27 Satin	60W	230V	E27	Satin	700 lm	100
0037702	60W 230V B22 Satin	60W	230V	B22	Satin	700 lm	100
0036751	25W 240V E14 Satin	25W	240V	E14	Satin	210 lm	100
0037615	25W 240V B22 Satin	25W	240V	B22	Satin	210 lm	100
0036901	40W 240V E14 Satin	40W	240V	E14	Satin	410 lm	100
0037456	40W 240V E27 Satin	40W	240V	E27	Satin	410 lm	100
0037655	40W 240V B22 Satin	40W	240V	B22	Satin	410 lm	100
<b>Ball Clear</b>							
0036600	15W 230V E14 Clear	15W	230V	E14	Clear	100 lm	100
0037350	15W 230V E27 Clear	15W	230V	E27	Clear	100 lm	100
0036650	25W 230V E14 Clear	25W	230V	E14	Clear	215 lm	100
0037400	25W 230V E27 Clear	25W	230V	E27	Clear	215 lm	100
0037610	25W 230V B22 Clear	25W	230V	B22	Clear	215 lm	100
0036850	40W 230V E14 Clear	40W	230V	E14	Clear	415 lm	100
0037450	40W 230V E27 Clear	40W	230V	E27	Clear	415 lm	100
0037650	40W 230V B22 Clear	40W	230V	B22	Clear	415 lm	100
0036950	60W 230V E14 Clear	60W	230V	E14	Clear	700 lm	100
0037500	60W 230V E27 Clear	60W	230V	E27	Clear	700 lm	100
0037700	60W 230V B22 Clear	60W	230V	B22	Clear	700 lm	100
0036750	25W 240V E14 Clear	25W	240V	E14	Clear	210 lm	100
0036900	40W 240V E14 Clear	40W	240V	E14	Clear	410 lm	100
0037455	40W 240V E27 Clear	40W	240V	E27	Clear	410 lm	100
0037656	40W 240V B22 Clear	40W	240V	B22	Clear	410 lm	100

# Ball Pastel Satin

		<table border="1"> <tr> <th>E14</th> <th>15W</th> <th>25W</th> <th>40W</th> <th>60W</th> </tr> <tr> <td>L</td> <td>73</td> <td>73</td> <td>73</td> <td>73</td> </tr> <tr> <td>D</td> <td>45</td> <td>45</td> <td>45</td> <td>45</td> </tr> <tr> <th>E27</th> <th>15W</th> <th>25W</th> <th>40W</th> <th>60W</th> </tr> <tr> <td>L</td> <td>71</td> <td>71</td> <td>71</td> <td>71</td> </tr> <tr> <td>D</td> <td>45</td> <td>45</td> <td>45</td> <td>45</td> </tr> </table>	E14	15W	25W	40W	60W	L	73	73	73	73	D	45	45	45	45	E27	15W	25W	40W	60W	L	71	71	71	71	D	45	45	45	45	
E14	15W	25W	40W	60W																													
L	73	73	73	73																													
D	45	45	45	45																													
E27	15W	25W	40W	60W																													
L	71	71	71	71																													
D	45	45	45	45																													
<ul style="list-style-type: none"> <li>● Round lamp envelope</li> <li>● Available in 5 colours – Cream, Apricot (orange), Rose (pink), Azure (blue), and Jade (green)</li> <li>● E14 or E27 cap</li> <li>● Where a gentle touch of colour will add interest or atmosphere</li> <li>● Domestic and commercial decorative lighting</li> </ul>																																	

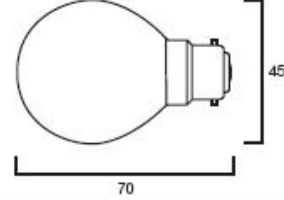
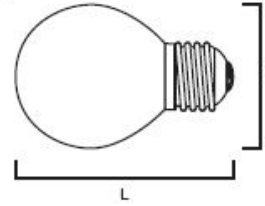
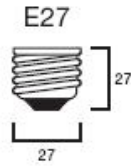


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Ball Pastel Satin</b>							
0005452	40W 230V E14 Cream	40W	230V	E14	Cream	380 lm	100
0005453	40W 230V E14 Apricot	40W	230V	E14	Apricot	360 lm	100
0005454	40W 230V E14 Rose	40W	230V	E14	Rose	320 lm	100
0005455	40W 230V E14 Azure	40W	230V	E14	Azure	315 lm	100
0005456	40W 230V E14 Jade	40W	230V	E14	Jade	320 lm	100
0005462	40W 230V E27 Cream	40W	230V	E27	Cream	380 lm	100
0005463	40W 230V E27 Apricot	40W	230V	E27	Apricot	360 lm	100
0005464	40W 230V E27 Rose	40W	230V	E27	Rose	320 lm	100
0005465	40W 230V E27 Azure	40W	230V	E27	Azure	315 lm	100
0005466	40W 230V E27 Jade	40W	230V	E27	Jade	320 lm	100

# Ball Krypton



<b>E14</b>	15W	25W	40W	60W
L	73	73	73	73
D	45	45	45	45
<b>E27</b>	15W	25W	40W	60W
L	71	71	71	71
D	45	45	45	45



- Round lamp envelope
- Krypton gas filling offering more light versus standard ball lamps
- White opal finish for a more even and superior soft light
- E14, E27 and B22 cap
- Commercial and domestic lighting applications

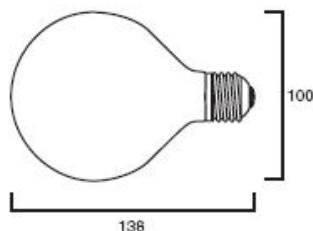
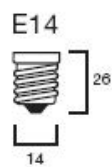
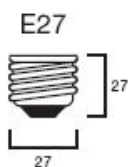
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Ball Krypton</b>							
0036760	25W 230V E14 Opal	25W	230V	E14	Opal	215 lm	100
0036761	25W 230V E27 Opal	25W	230V	E27	Opal	215 lm	100
0036762	25W 230V B22 Opal	25W	230V	B22	Opal	215 lm	100
0036920	40W 230V E14 Opal	40W	230V	E14	Opal	410 lm	100
0036921	40W 230V E27 Opal	40W	230V	E27	Opal	400 lm	100
0036922	40W 230V B22 Opal	40W	230V	B22	Opal	400 lm	100
0036970	60W 230V E14 Opal	60W	230V	E14	Opal	700 lm	100
0036971	60W 230V E27 Opal	60W	230V	E27	Opal	680 lm	100
0036972	60W 230V B22 Opal	60W	230V	B22	Opal	680 lm	100

<div style="display: flex; justify-content: space-around; align-items: center;"> <table border="1" style="font-size: small;"> <tr> <th>E14</th> <th>15W</th> <th>25W</th> <th>40W</th> <th>60W</th> </tr> <tr> <td>L</td> <td>73</td> <td>73</td> <td>73</td> <td>73</td> </tr> <tr> <td>D</td> <td>45</td> <td>45</td> <td>45</td> <td>45</td> </tr> <tr> <th>E27</th> <th>15W</th> <th>25W</th> <th>40W</th> <th>60W</th> </tr> <tr> <td>L</td> <td>71</td> <td>71</td> <td>71</td> <td>71</td> </tr> <tr> <td>D</td> <td>45</td> <td>45</td> <td>45</td> <td>45</td> </tr> </table> </div>	E14	15W	25W	40W	60W	L	73	73	73	73	D	45	45	45	45	E27	15W	25W	40W	60W	L	71	71	71	71	D	45	45	45	45	<div style="text-align: center; margin-top: 10px;"> </div>
E14	15W	25W	40W	60W																											
L	73	73	73	73																											
D	45	45	45	45																											
E27	15W	25W	40W	60W																											
L	71	71	71	71																											
D	45	45	45	45																											
<ul style="list-style-type: none"> <li>● Round lamp envelope</li> <li>● Available in 4 colours – Blue, Red, Green and Yellow</li> <li>● Weather resistant (vacuum)</li> <li>● To create a festive atmosphere e.g. lighting of carnivals, fairs, festivals etc.</li> </ul>																															

Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>Ball Colour</b>						
0008852	15w 230V E14 Blue	15W	230V	E14	Blue	100
0008853	15w 230V E14 Red	15W	230V	E14	Red	100
0008854	15w 230V E14 Green	15W	230V	E14	Green	100
0008855	15w 230V E14 Yellow	15W	230V	E14	Yellow	100
0008752*	25w 230V E14 Blue	25W	230V	E14	Blue	100
0008753*	25w 230V E14 Red	25W	230V	E14	Red	100
0008754*	25w 230V E14 Green	25W	230V	E14	Green	100
0008755*	25w 230V E14 Yellow	25W	230V	E14	Yellow	100
0008757	25w 230V E27 Blue	25W	230V	E27	Blue	100
0008758	25w 230V E27 Red	25W	230V	E27	Red	100
0008759	25w 230V E27 Green	25W	230V	E27	Green	100
0008760	25w 230V E27 Yellow	25W	230V	E27	Yellow	100

\* 25 W will be replaced by 15 W when stocks are depleted

## Globe Decor

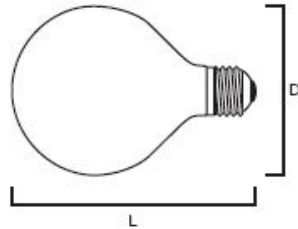
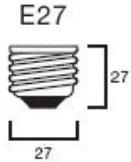


- Large round envelope
- Available in Amber Ice Crystal, Gold Frosted and Satin Frosted
- E27 cap
- Commercial and domestic decorative lighting applications
- For use in surface mounted ceiling luminaires



Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>Globe Decor</b>						
0018377	60W G100 Gold Ice Crystal	60W	240V	E27	Gold Ice Crystal	20
0018379	60W G100 Amber	60W	240V	E27	Amber	20
0018383	60W G100 Satin Frosted	60W	230V	E27	Satin Frosted	20

800	40W	60W	100W
L	117	117	117
D	80	80	80
950	40W	60W	100W
L	136	136	136
D	95	95	95
1200	40W	60W	100W
L	-	166	166
D	-	120	120




- Round envelope
- Opal finish
- Available in three envelope diameters: 80, 95 and 120mm
- For use in surface mounted ceiling luminaires

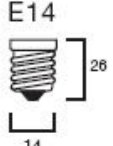
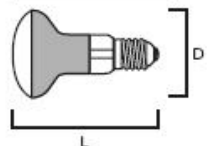


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Globe Opal 60mmØ</b>							
0018550	25W 230V E14 Opal	25W	230V	E14	Opal	200 lm	10
0018551	40W 230V E14 Opal	40W	230V	E14	Opal	390 lm	10
<b>Globe Opal 80mmØ</b>							
0018560	40W 230V E27 Opal	40W	230V	E27	Opal	390 lm	20
0018561	60W 230V E27 Opal	60W	230V	E27	Opal	670 lm	20
0018562	100W 230V E27 Opal	100W	230V	E27	Opal	1260 lm	20
<b>Globe Opal 95mmØ</b>							
0018570	40W 230V E27 Opal	40W	230V	E27	Opal	360 lm	20
0018571	60W 230V E27 Opal	60W	230V	E27	Opal	580 lm	20
0018572	100W 230V E27 Opal	100W	230V	E27	Opal	1090 lm	20
<b>Globe Opal 120mmØ</b>							
0018580	60W 230V E27 Opal	60W	230V	E27	Opal	580 lm	20
0018581	100W 230V E27 Opal	100W	230V	E27	Opal	1090 lm	20
0018582	150W 230V E27 Opal	150W	230V	E27	Opal	1800 lm	20

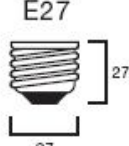
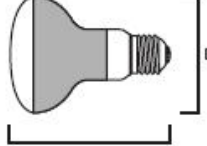
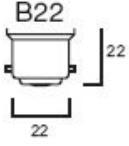
# Reflector Standard



	R39	R50
L	65	85
D	39	50

	R63	R80	R90	R95	R125
L	103	110	115	132	180
D	63	80	90	95	125

universal

- Blown glass reflector lamps
- Pearl crown and integral aluminium reflector
- Available in 7 diameters
- Ideal for accent lighting in commercial and domestic applications
- Suitable for shop windows, displays, discos and clubs as well as in the home
- For use in track or surface mounted spotlights or in recessed downlights

Code	Description	Watt	Volt	Luminous Intensity	Beam Angle	Cap	Crown Finish	Packing Qty
<b>Reflector Standard R39 39mmØ</b>								
0015918	30W 230V R39 Pearl	30W	230V	120 cd	40°	E14	Pearl	100
0015908	30W 240V R39 Pearl	30W	240V	120 cd	40°	E14	Pearl	100
<b>Reflector Standard R50 50mmØ</b>								
0015531	25W 230V R50 Pearl	25W	230V	185 cd	35°	E14	Pearl	100
0015534	40W 230V R50 Pearl	40W	230V	335 cd	35°	E14	Pearl	100
0015535	25W 240V R50 Pearl	25W	240V	175 cd	35°	E14	Pearl	100
0015537	40W 240V R50 Pearl	40W	240V	325 cd	35°	E14	Pearl	100
<b>Reflector Standard R63 63mmØ</b>								
0015568	40W 230V R63 Pearl	40W	230V	335 cd	35°	E27	Pearl	100
0015569	60W 230V R63 Pearl	60W	230V	570 cd	35°	E27	Pearl	100
0015550	40W 240V R63 Pearl	40W	240V	325 cd	35°	E27	Pearl	100
0015560	60W 240V R63 Pearl	60W	240V	560 cd	35°	E27	Pearl	100
0015563	60W 240V R63 Pearl	60W	240V	560 cd	35°	B22	Pearl	100
<b>Reflector Standard R80 80mmØ</b>								
0015570	40W 240V R80 Pearl	40W	240V	160 cd	80°	E27	Pearl	100
0015580	60W 240V R80 Pearl	60W	240V	260 cd	80°	E27	Pearl	100
0015590	60W 240V R80 Pearl	60W	240V	260 cd	80°	B22	Pearl	100
0015584	75W 240V R80 Pearl	75W	240V	345 cd	80°	E27	Pearl	100
0015585	100W 240V R80 Pearl	100W	240V	500 cd	80°	E27	Pearl	100
0015593	100W 240V R80 Pearl	100W	240V	560 cd	80°	B22	Pearl	100
<b>Reflector Standard R90 90mmØ</b>								
0016185	60W 230V R90 Pearl	60W	230V	-	80°	E27	Pearl	100
0016196	100W 230V R90 Pearl	100W	230V	-	80°	E27	Pearl	20
<b>Reflector Standard R95 95mmØ</b>								
0015600	75W 240V R95 Pearl	75W	240V	750 cd	35°	E27	Pearl	20
0015620	100W 240V R95 Pearl	100W	240V	1060 cd	35°	E27	Pearl	20
<b>Reflector Standard R125 125mmØ</b>								
0015630	150W 240V R125 Pearl	150W	240V	2200 cd	80°	E27	Pearl	20

## Reflector Coloured

<table border="1"> <tr> <td></td> <td>R50</td> <td>R80</td> <td>R63</td> </tr> <tr> <td>L</td> <td>85</td> <td>110</td> <td>100</td> </tr> <tr> <td>D</td> <td>50</td> <td>80</td> <td>63</td> </tr> </table>		R50	R80	R63	L	85	110	100	D	50	80	63		
	R50	R80	R63											
L	85	110	100											
D	50	80	63											
<ul style="list-style-type: none"> <li>• Blown glass reflector lamps</li> <li>• Coloured crown and integral aluminium reflector</li> <li>• Choice of 4 colours – Blue, Green, Red and Yellow</li> <li>• Available in 3 diameters 50, 63 and 80mm</li> <li>• To create special lighting effects in bars, clubs and discos as well as shop windows</li> </ul>														

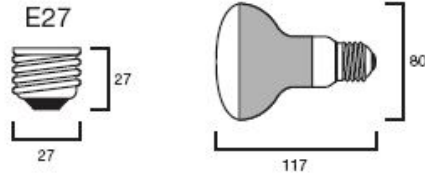
Code	Description	Watt	Volt	Cap	Crown Finish	Packing Qty
<b>Reflector Coloured R50 50mmØ</b>						
0016650	40W 240V R50 Blue	40W	240V	E14	Blue	100
0016651	40W 240V R50 Red	40W	240V	E14	Red	100
0016652	40W 240V R50 Green	40W	240V	E14	Green	100
0016653	40W 240V R50 Yellow	40W	240V	E14	Yellow	100
<b>Reflector Coloured R63 63mmØ</b>						
0015660	40W 240V R63 Blue	40W	240V	E27	Blue	100
0015661	40W 240V R63 Red	40W	240V	E27	Red	100
0015662	40W 240V R63 Green	40W	240V	E27	Green	100
0015663	40W 240V R63 Yellow	40W	240V	E27	Yellow	100
<b>Reflector Coloured R80 80mmØ</b>						
0015700	60W 240V R80 Blue	60W	240V	E27	Blue	100
0015701	60W 240V R80 Red	60W	240V	E27	Red	100
0015702	60W 240V R80 Green	60W	240V	E27	Green	100
0015703	60W 240V R80 Yellow	60W	240V	E27	Yellow	100

## Reflector Neodymium

<ul style="list-style-type: none"> <li>• Special neodymium glass which filters out yellow rays for a natural daylight effect</li> <li>• Improved light quality enhancing colours</li> <li>• E27 cap</li> <li>• Particularly suitable for craft and hobby work</li> <li>• In shops selling fabrics, jewels, food etc</li> </ul>	

Code	Description	Watt	Volt	Luminous Intensity	Beam Angle	Cap	Crown Finish	Packing Qty
<b>Reflector Neodymium R80</b>								
0015587	100W 240V E27 50° Pearl	100W	240V	780 cd	50°	E27	Pearl	100

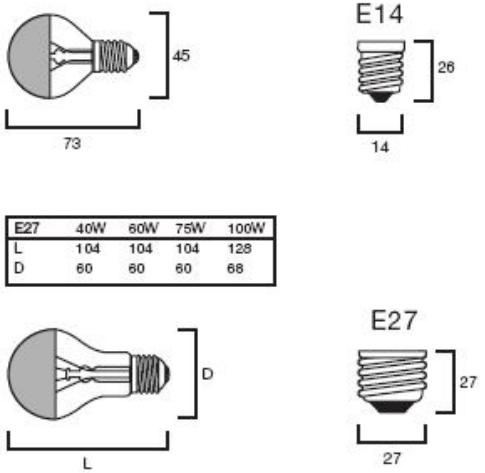


## Reflector Blacklight



universal

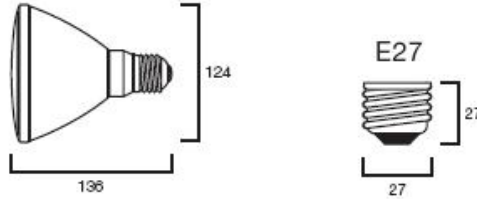
- Blown glass reflector lamps
- Double life 2000 hour filament
- Blacklight for special effects for parties, in discos and bars

Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>Reflector Blacklight</b>						
0016967	75W 230V R80 Blacklight	75W	240V	E27	Blacklight	20

	
<ul style="list-style-type: none"> <li>● GLS or round shaped incandescent lamps</li> <li>● Silvered or gold crown and clear finish envelope</li> <li>● Delivers an extremely well controlled beam with practically zero glare</li> <li>● E14 or E27 cap</li> <li>● Commercial display lighting and domestic decorative lighting applications</li> <li>● For use in parabolic reflector spotlights</li> </ul>	

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Crown Silvered</b>							
0017743	Ball 25W 240V E14 Clear	25W	240V	E14	Clear	185 lm	100
0017744	Ball 40W 240V E14 Clear	40W	240V	E14	Clear	360 lm	100
0017739	Ball 40W 240V E27 Clear	40W	240V	E27	Clear	360 lm	100
0017740	Ball 60W 240V E27 Clear	60W	240V	E27	Clear	620 lm	100
0017741	Ball 75W 240V E27 Clear	75W	240V	E27	Clear	800 lm	100
0017742	Ball 100W 240V E27 Clear	100W	240V	E27	Clear	1170 lm	100
<b>Crown Gold</b>							
0017760	GLS 40W 240V E27	40W	240V	E27	Clear	360 lm	100
0017761	GLS 60W 240V E27	60W	240V	E27	Clear	620 lm	100
0017870	Ball 25W 240V E14	25W	240V	E14	Clear	185 lm	100
0017871	Ball 40W 240V E14	40W	240V	E14	Clear	360 lm	100

# PAR38 & PAR38 Cool Beam




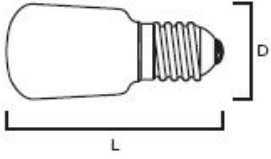



- Incandescent PAR lamps made from heat-resistant borosilicate glass
- Weather-resistant (not PAR38 Cool Beam)
- Cool Beam version with integral dichroic reflector
- Pressed glass reflector delivers significantly improved efficiency over blown reflector types
- Suitable for exterior lighting (not PAR38 Cool Beam)



Code	Description	Watt	Volt	Beam Angle	Cap	Lamp Finish	Packing Qty
<b>PAR38</b>							
0019691	60W/FL/30° PAR38 Clear	60W	230-240V	30°	E27	Clear	10
0019710	80W/SP/12° PAR38 Clear	80W	230-240V	12°	E27	Clear	10
0019711	80W/FL/30° PAR38 Clear	80W	230-240V	30°	E27	Clear	10
0019720	120W/SP/12° PAR38 Clear	120W	230-240V	12°	E27	Clear	10
0019721	120W/FL/30° PAR38 Clear	120W	230-240V	30°	E27	Clear	10
<b>PAR38 Cool Beam</b>							
0020055	120W/FL/30° PAR38 Clear	120W	230-240V	30°	E27	Clear	15

# Pygmy/Pygmy Oven/Pygmy Refrigerator/Pygmy TV Blue

 <p>Pygmy Oven</p>  <p>Pygmy TV</p>	<table border="1" data-bbox="1193 161 1417 407"> <tr> <td>Pygmy</td> <td>15W</td> <td>25W</td> </tr> <tr> <td>L</td> <td>63</td> <td>63</td> </tr> <tr> <td>D</td> <td>28</td> <td>28</td> </tr> <tr> <td>Pygmy Oven</td> <td>15W</td> <td>15W</td> </tr> <tr> <td>L</td> <td>49</td> <td>63</td> </tr> <tr> <td>D</td> <td>22</td> <td>28</td> </tr> <tr> <td>Pygmy Refrigerator</td> <td colspan="2">15W</td> </tr> <tr> <td>L</td> <td colspan="2">56</td> </tr> <tr> <td>D</td> <td colspan="2">25</td> </tr> <tr> <td>Pygmy TV</td> <td colspan="2">15W</td> </tr> <tr> <td>L</td> <td colspan="2">58</td> </tr> <tr> <td>D</td> <td colspan="2">25</td> </tr> </table>  	Pygmy	15W	25W	L	63	63	D	28	28	Pygmy Oven	15W	15W	L	49	63	D	22	28	Pygmy Refrigerator	15W		L	56		D	25		Pygmy TV	15W		L	58		D	25	
Pygmy	15W	25W																																			
L	63	63																																			
D	28	28																																			
Pygmy Oven	15W	15W																																			
L	49	63																																			
D	22	28																																			
Pygmy Refrigerator	15W																																				
L	56																																				
D	25																																				
Pygmy TV	15W																																				
L	58																																				
D	25																																				
	<ul style="list-style-type: none"> <li>● Small compact incandescent lamps for special applications</li> <li>● Clear, pearl or blue finish</li> <li>● Oven lamp high temperature resistant</li> <li>● TV Blue lamp ideal for use next to TV sets</li> <li>● E14 cap</li> </ul>																																				

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Pygmy</b>							
0008021	15W 230V E14 Clear	15W	230V	E14	Clear	105 lm	100
0008023	25W 230V E14 Clear	25W	230V	E14	Clear	230 lm	100
0008100	15W 240V E14 Clear	15W	240V	E14	Clear	100 lm	100
0008120	25W 240V E14 Clear	25W	240V	E14	Clear	225 lm	100
0008020	15W 230V E14 Pearl	15W	230V	E14	Pearl	105 lm	100
0008022	25W 230V E14 Pearl	25W	230V	E14	Pearl	230 lm	100
<b>Pygmy Oven till 300°C</b>							
0036603	15W 230V E14 22mmØ Oven	15W	230V	E14	Clear	85 lm	100
0008072	15W 240V E14 22mm Ø Oven	15W	240V	E14	Clear	80 lm	100
<b>Pygmy Refrigerator</b>							
0007339	15W 230V E14 Clear	15W	230V	E14	Clear	85 lm	100
<b>Pygmy TV Blue</b>							
0007949	15W 230V E14 TV Blue	15W	230V	E14	Blue	20 lm	50

<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>S19</b></p> </div> <div style="text-align: center;"> <p><b>S15s</b></p> </div> </div> <div style="text-align: center; margin-top: 10px;"> </div>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td><b>S15s</b></td> <td><b>30W</b></td> <td><b>60W</b></td> </tr> <tr> <td>L</td> <td>221</td> <td>284</td> </tr> <tr> <td>D</td> <td>25</td> <td>25</td> </tr> <tr> <td><b>S19</b></td> <td><b>40W</b></td> <td><b>60W</b></td> <td><b>75W</b></td> </tr> <tr> <td>L</td> <td>310</td> <td>310</td> <td>310</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>38</td> </tr> </table>	<b>S15s</b>	<b>30W</b>	<b>60W</b>	L	221	284	D	25	25	<b>S19</b>	<b>40W</b>	<b>60W</b>	<b>75W</b>	L	310	310	310	D	38	38	38	
<b>S15s</b>	<b>30W</b>	<b>60W</b>																					
L	221	284																					
D	25	25																					
<b>S19</b>	<b>40W</b>	<b>60W</b>	<b>75W</b>																				
L	310	310	310																				
D	38	38	38																				
<ul style="list-style-type: none"> <li>Double-ended linear incandescent lamps</li> <li>Clear or opal finish</li> <li>Available in three lengths – 221mm, 284mm and 310mm</li> <li>S15s and S19 cap</li> <li>Bathroom, bedroom and kitchen luminaires. Cupboard lighting and over mirrors</li> </ul>																							

Code	Description	Watt	Volt	Cap	Length	Lamp Finish	Luminous Flux	Packing Qty
<b>Striplights</b>								
9007550	30W 240-250V S15s Clear	30W	240-250V	S15s	221mm	Clear	270 lm	50
9007597	60W 240-250V S15s Clear	60W	240-250V	S15s	284mm	Clear	500 lm	25
9007551	30W 240-250V S15s Opal	30W	240-250V	S15s	221mm	Opal	250 lm	50
9007596	60W 240-250V S15s Opal	60W	240-250V	S15s	284mm	Opal	530 lm	25
9007565	40W 220-235V S19 Frosted	40W	230V	S19	310mm	Frosted	335 lm	25
9007590	60W 220-235V S19 Frosted	60W	230V	S19	310mm	Frosted	530 lm	25
9007607	75W 220-235V S19 Frosted	75W	230V	S19	310mm	Frosted	680 lm	25

## Linear Architectural

<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>S14s</b></p> </div> <div style="text-align: center;"> <p><b>S14d</b></p> </div> </div> <div style="text-align: center; margin-top: 10px;"> </div>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td><b>S14d</b></td> <td><b>35W</b></td> <td><b>60W</b></td> <td><b>120W</b></td> </tr> <tr> <td>L</td> <td>221</td> <td>284</td> <td>-</td> </tr> <tr> <td>D</td> <td>25</td> <td>25</td> <td>-</td> </tr> <tr> <td><b>S14s</b></td> <td><b>35W</b></td> <td><b>60W</b></td> <td><b>120W</b></td> </tr> <tr> <td>L</td> <td>300</td> <td>500</td> <td>999</td> </tr> <tr> <td>D</td> <td>26</td> <td>26</td> <td>26</td> </tr> </table>	<b>S14d</b>	<b>35W</b>	<b>60W</b>	<b>120W</b>	L	221	284	-	D	25	25	-	<b>S14s</b>	<b>35W</b>	<b>60W</b>	<b>120W</b>	L	300	500	999	D	26	26	26	
<b>S14d</b>	<b>35W</b>	<b>60W</b>	<b>120W</b>																							
L	221	284	-																							
D	25	25	-																							
<b>S14s</b>	<b>35W</b>	<b>60W</b>	<b>120W</b>																							
L	300	500	999																							
D	26	26	26																							
<ul style="list-style-type: none"> <li>Double-ended linear incandescent lamps</li> <li>Opal finish</li> <li>Available in three lengths – 300mm, 500mm and 999mm</li> <li>S14d and S14s cap</li> <li>Bathroom, bedroom and kitchen luminaires. Cupboard lighting and over mirrors</li> </ul>																										

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
<b>Linear Architectural</b>							
0007433	35W 220-235V S14d Opal	35W	230-240V	S14d	Opal	270 lm	25
0007435	35W 220-235V S14s Opal	35W	230-240V	S14s	Opal	270 lm	25
0007448	60W 220-235V S14d Opal	60W	230-240V	S14d	Opal	420lm	25
0007450	60W 220-235V S14s Opal	60W	230-240V	S14s	Opal	420 lm	25
0007463	120W 220-235V S14s Opal	120W	230-240V	S14s	Opal	840 lm	16



## LOW VOLTAGE HALOGEN LAMPS

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## MANUFACTURER'S LAMP CROSS REFERENCE

Sylvania	Osram	Philips	GE
Low Pressure Capsule	HALOSTAR STARLITE	CAPSULEline	QUARTZLINE CAPSULE
Dichroic 35/50	DECOSTAR	ACCENTLINE DICHROIC	PRECISE STANDARD
Superia 35/50	DECOSTAR TITAN	BRILLIANTline DICHROIC	PRECISE BRIGHT
Coolfit 50	DECOSTAR 51 ALU	BRILLIANTline ALU	PRECISE ALUTECH
SA111	HALOSPOT 111	ALUline 111	HALOGEN 111
Hi-Pin	HALOPIN	CLICKLINE	G9 MAINS TECH
Hi-Spot Superia ES50 / ESD50	HALOPAR 16	TWISTLINE 3000h	MR16 MAINS TECH
Hi-Spot Home ES50	HALOPAR 16	TWISTLINE 2000h	MR16 MAINS START
Hi-Spot Superia ES63 / ESD63	HALOPAR 20	–	MR20 MAINS TECH
Hi-Spot Superia ES111 AG / ESD111 AG	–	–	–
Hi-Spot 50	HALOPAR 16	PAR 16 HalogenA	HALOGEN PAR 16
Hi-Spot 63	HALOPAR 20	PAR 20 HalogenA	HALOGEN PAR 20
Hi-Spot 80	–	–	HALOGEN PAR 25
Hi-Spot 95	HALOPAR 30	PAR 30S HalogenA	HALOGEN PAR 30
Hi-Spot 120	–	PAR 38 HalogenA	HALOGEN PAR 38
DLX-T	HALOLUX T	HalogenA T32	HaloTubular
DLX-BTT	HALOLUX BT	HalogenA BTT46	HaloBTT
Linear Double Ended	HALOLINE	PLUSLINE	QUARTZLINE

## LOW VOLTAGE HALOGEN LAMPS



### CAPSULES

The smallest low voltage lamps.



### DICHROIC

A reliable, cost effective favourite with contractors and end users.



### SUPERIA/DICHROIC

The preferred choice of many specifiers and end users, thanks to its longer life and considerably higher output.



### COOLFIT

Coolfit sealed front 50 mm low voltage lamps have an aluminised reflector that dissipates heat and light forward. This makes them very suitable for use in interior downlights.

Mains voltage halogen lamps operate direct from the mains, without the need for a transformer, and can be dimmed: making them quick and easy to install, simple to operate and lowering installation and user costs.

All HI-SPOT® mains voltage halogen lamps are rated UV-Stop and are manufactured from materials which dramatically reduce UV emissions.

## MAINS VOLTAGE HALOGEN LAMPS



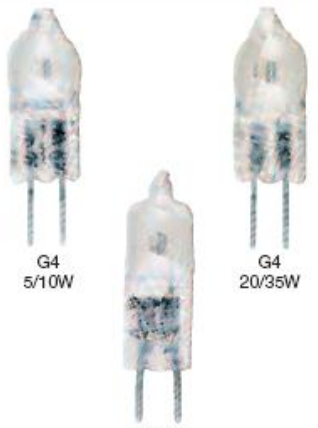
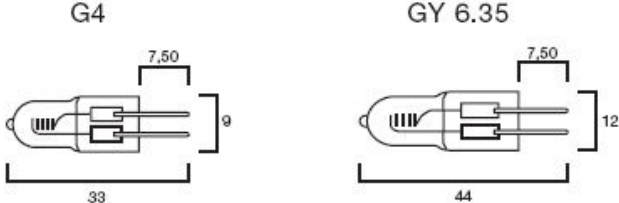

### HI-SPOT SUPERIA ES50

Sylvania is a true pioneer of mains voltage halogen lamps, and now introduces the new and improved HI-SPOT SUPERIA ES50 range.

This range of SUPERIA GU10 and GZ10 halogen reflector lamps, features a life of 4000 hours, and an improvement in light output.

HI-SPOT SUPERIA ES50 sets a new market standard for mains voltage compact halogen reflector lamps.

# Low Pressure Capsule

 <p>G4 5/10W</p> <p>G4 20/35W</p> <p>GY6.35</p>	 <p>G4</p> <p>GY 6.35</p>
 <p>universal</p> <p>UV STOP</p> <p>(5W/10W/20W /35W/50W)</p> <p>(75W/100W)</p>	<ul style="list-style-type: none"> <li>● Compact size for optimum luminaire design</li> <li>● Dimmable using a suitable dimmer for operation with a transformer</li> <li>● Constant light output throughout lamp life</li> <li>● 5W/10W/20W/35W/50W capsules are suitable for use in open luminaires following new Luminaire Standard EN 60598</li> <li>● 75W/100W capsules are suitable for operating only in the Luminaire provided with a protective shield.</li> <li>● Interior display, shop windows, restaurants and discotheque lighting</li> <li>● Precision task lighting</li> </ul>



Code	Description	Watt	Volt	Cap	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
<b>Low Pressure Capsule</b>								
0022165	12V/5W LP	5W	12V	G4	2800K	40 lm	2000 hrs	50
0022241	12V/10W LP	10W	12V	G4	2800K	100 lm	2000 hrs	50
0022242	12V/20W LP	20W	12V	G4	2800K	250 lm	2000 hrs	50
0022246	12V/35W LP	35W	12V	G4	2800K	500 lm	2000 hrs	50
0021021	12V/35W LP	35W	12V	GY 6.35	2800K	520 lm	2000 hrs	50
0021022	12V/50W LP	50W	12V	GY 6.35	2800K	900 lm	2000 hrs	50
0021994*	12V/75W HP	75W	12V	GY 6.35	3050K	1600 lm	3000 hrs	50
0021995*	12V/100W HP	100W	12V	GY 6.35	3050K	2300 lm	3000 hrs	50

\*High performance - pressure

**GZ4/GU4**

**GX/GU5.3**

**Dichroic 35**

10°		20W	35W
175mm∅	1m	3600lx	5700lx
350mm∅	2m	900lx	1425lx
525mm∅	3m	400lx	633lx
700mm∅	4m	225lx	356lx

**Dichroic 50**

24°		50W	
425mm∅	1m	2500lx	
850mm∅	2m	625lx	
1275mm∅	3m	278lx	
1700mm∅	4m	156lx	

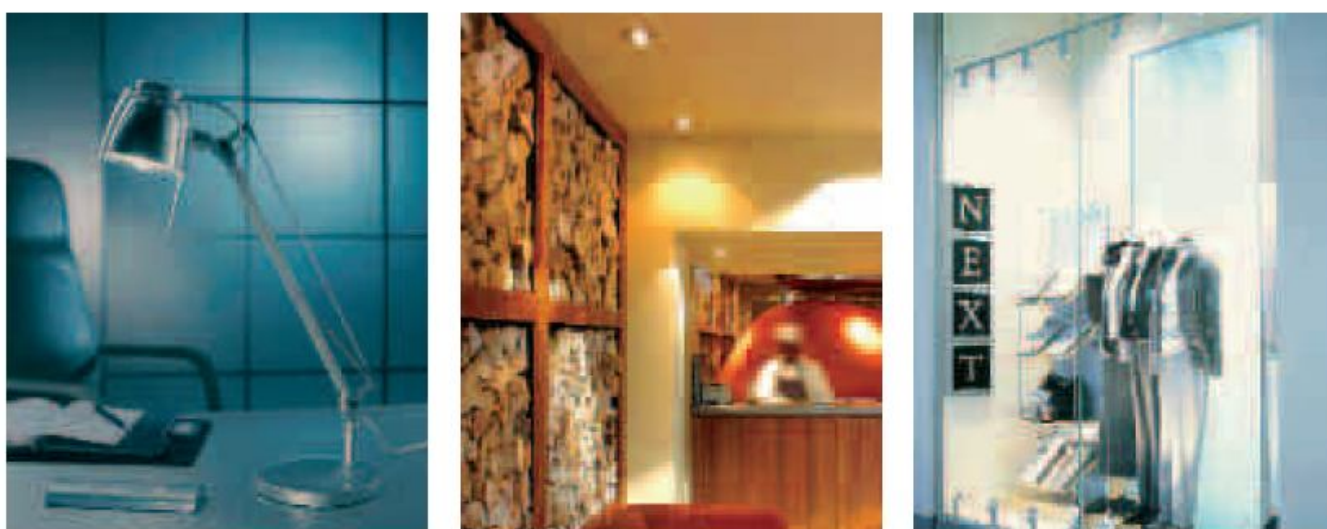
**Dichroic 50**

10°		20W	35W	50W
175mm∅	1m	3600lx	5000lx	9000lx
350mm∅	2m	900lx	1250lx	2000lx
525mm∅	3m	400lx	556lx	889lx
700mm∅	4m	225lx	313lx	500lx

38°		20W	35W	50W
669mm∅	1m	660lx	1200lx	1950lx
1377mm∅	2m	165lx	300lx	486lx
2066mm∅	3m	79lx	133lx	217lx
2755mm∅	4m	41lx	75lx	122lx


60°		35W	50W
1155mm∅	1m	700lx	900lx
2309mm∅	2m	175lx	225lx
3464mm∅	3m	78lx	100lx
4619mm∅	4m	44lx	56lx

- Cool beam – 66% of the heat produced is radiated through the back of the lamp
- Dimmable using a suitable dimmer for operation with a transformer
- Constant colour and light output throughout lamp life
- Excellent colour rendering
- Universal burning position
- Accent and decorative lighting in retail, commercial and domestic applications



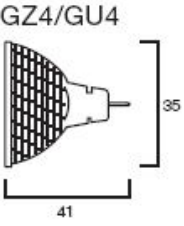
Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Dichroic 35</b>									
0022336	FTB 12V/20W	20W	12V	10°	GU4	2900K	3600 cd	1500 hrs	10
0022339	FTE 12V/35W	35W	12V	10°	GU4	2900K	5700 cd	1500 hrs	10
<b>Dichroic 50</b>									
0022580	ESX 20W/12V 10°	20W	12V	10°	GU5.3	2925K	3600 cd	4000 hrs	10
0021765	BAB 20W/12V 38°	20W	12V	38°	GU5.3	2925K	660 cd	4000 hrs	10
0022581	FMT 35W/12V 10°	35W	12V	10°	GU5.3	3000K	5000 cd	4000 hrs	10
0021766	FMW 35W/12V 38°	35W	12V	38°	GU5.3	3000K	1200 cd	4000 hrs	10
0022391	35W/12V 60°	35W	12V	60°	GU5.3	3000K	700 cd	4000 hrs	10
0022582	EXT 50W/12V 10°	50W	12V	10°	GU5.3	3050K	8000 cd	4000 hrs	10
0022348	EXZ 50W/12V 24°	50W	12V	24°	GU5.3	3050K	2500 cd	4000 hrs	10
0021767	EXN 50W/12V 38°	50W	12V	38°	GU5.3	3050K	1950 cd	4000 hrs	10
0022390	FNV 50W/12V 60°	50W	12V	60°	GU5.3	3050K	900 cd	4000 hrs	10

## Superia 35/Superia 50



**Superia 35**

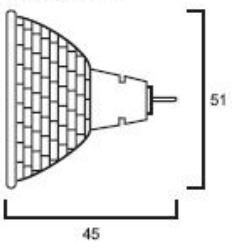
GZ4/GU4



Beam Angle	1m	2m	3m	4m	20W	35W
38°	699mmØ	1377mmØ	2066mmØ	2755mmØ	700lx	1350lx
					175lx	309lx
					79lx	180lx
					44lx	84lx

**Superia 50**

GX/GU5.3



Beam Angle	1m	2m	3m	4m	20W	35W	50W
10°	175mmØ	350mmØ	525mmØ	700mmØ	4000lx	7700lx	11500lx
38°	699mmØ	1377mmØ	2066mmØ	2755mmØ	790lx	1450lx	2250lx
					198lx	363lx	563lx
					88lx	161lx	250lx
					49lx	91lx	141lx

Beam Angle	1m	2m	3m	4m	50W
24°	425mmØ	850mmØ	1275mmØ	1700mmØ	2500lx
					625lx
					278lx
					156lx

Beam Angle	1m	2m	3m	4m	50W
60°	1155mmØ	2309mmØ	3464mmØ	4619mmØ	1000lx
					250lx
					111lx
					62.5lx

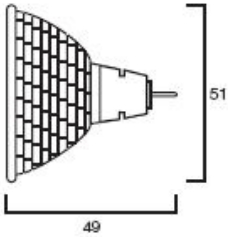


- Cool Beam – 66% of the heat produced is radiated through the back of the lamp
- Spiral reflector, uniform beam pattern, patented design
- Constant colour and light output throughout lamp life
- No colour variation between lamps
- 25% longer life + 25% more light output
- Professional lighting of objects and displays sensitive to heat
- Whiter light output



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Superia 35</b>									
0022338	FTD 12V/20W	20W	12V	38°	GU4	2925K	700 cd	4000 hrs	10
0022341	FTH 12V/35W	35W	12V	38°	GU4	3000K	1350 cd	4000 hrs	10
<b>Superia 50</b>									
0022301	ESX 12V/20W	20W	12V	10°	GU5.3	2925K	4000 cd	5000 hrs	10
0022302	BAB 12V/20W	20W	12V	38°	GU5.3	2925K	790 cd	5000 hrs	10
0022305	FMT 12V/35W	35W	12V	10°	GU5.3	3000K	7700 cd	5000 hrs	10
0022306	FMW 12V/35W	35W	12V	38°	GU5.3	3000K	1450 cd	5000 hrs	10
0022311	EXT 12V/50W	50W	12V	10°	GU5.3	3050K	11500 cd	5000 hrs	10
0022312	EXZ 12V/50W	50W	12V	24°	GU5.3	3050K	3600 cd	5000 hrs	10
0022314	EXN 12V/50W	50W	12V	38°	GU5.3	3050K	2250 cd	5000 hrs	10
0022315	FNV 12V/50W	50W	12V	60°	GU5.3	3050K	1000 cd	5000 hrs	10

GX/GU5.3



38°		20W	35W	50W
699mm $\varnothing$	1m	660lx	1200lx	1950lx
1377mm $\varnothing$	2m	165lx	300lx	489lx
2066mm $\varnothing$	3m	79lx	133lx	217lx
2755mm $\varnothing$	4m	41lx	75lx	122lx

60°		50W
1155mm $\varnothing$	1m	900lx
2309mm $\varnothing$	2m	225lx
3464mm $\varnothing$	3m	100lx
4619mm $\varnothing$	4m	56lx



UV STOP







- Virtually all heat and light dissipated away from back of the lamp keeping fixture cool and therefore safer, particularly suitable for use in fire rated downlights
- Wear resistant aluminium reflector for constant output and colour throughout life
- Excellent colour rendering
- Easily recognisable by blue cement in lamp cap
- Can replace any 12V 50mm $\varnothing$  dichroic low voltage lamp
- Suitable for use in open ceilings



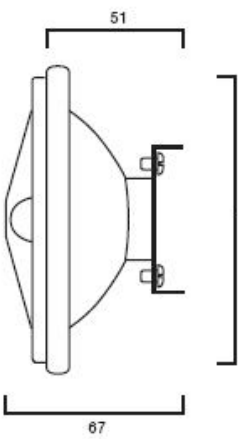
Code	Description	Watt	Beam Volt	Angle	Colour Cap	Luminous Temp	Average Intensity	Packing Rated Life	Qty
<b>Coolfit 50</b>									
0022516	BAB/AL 20W/12V 38°	20W	12V	38°	GU5.3	3000K	660 cd	5000 hrs	10
0022517	FMW/AL 35W/12V 38°	35W	12V	38°	GU5.3	3000K	1200 cd	5000 hrs	10
0022519	EXN/AL 50W/12V 38°	50W	12V	38°	GU5.3	3000K	1950 cd	5000 hrs	10
0022520	FNV/AL 50W/12V 60°	50W	12V	60°	GU5.3	3000K	900 cd	5000 hrs	10

# SA111



universal



		50W	75W	100W
8°	140mm∅	23000lk	30000lk	49000lk
	280mm∅	5750lk	7500lk	12000lk
	420mm∅	2566lk	3333lk	5333lk
	559mm∅	1439lk	1875lk	3000lk

		50W	75W	100W
24°	425mm∅	4000lk	5300lk	8500lk
	850mm∅	1000lk	1325lk	2125lk
	1275mm∅	444lk	589lk	944lk
	1700mm∅	250lk	331lk	531lk

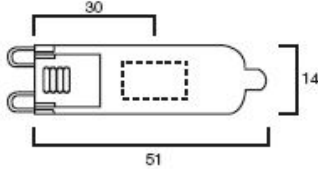


  

		50W	75W	100W
45°	828mm∅	1200lk	1700lk	2800lk
	1657mm∅	300lk	425lk	700lk
	2485mm∅	133lk	189lk	311lk
	3314mm∅	75lk	106lk	175lk

- Aluminium reflector dissipates heat and light forward
- Dimmable using a suitable dimmer for operation with a transformer
- Even light distribution and constant colour throughout lamp life
- Integrated anti-glare shield
- Low pressure capsule (1,2 bar)
- For accent and decorative lighting in retail, commercial and domestic applications




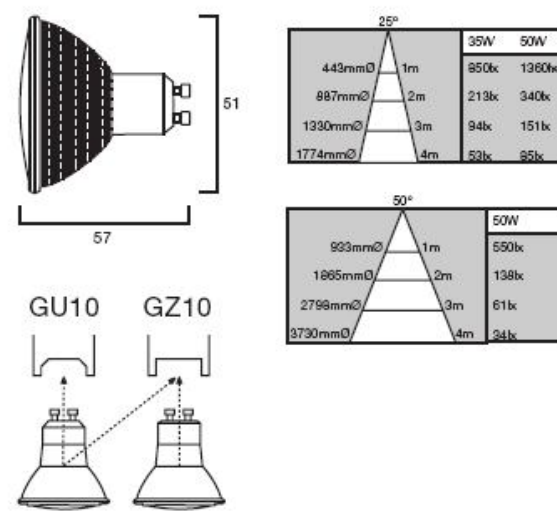
Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>SA111</b>									
0021850	SA111 SP	50W	12V	8°	G53	2900K	23000 cd	3000 hrs	6
0021853	SA111 FL	50W	12V	24°	G53	2900K	4000 cd	3000 hrs	6
0021856	SA111 WFL	50W	12V	45°	G53	2900K	1200 cd	3000 hrs	6
0021851	SA111 SP	75W	12V	8°	G53	2900K	30000 cd	3000 hrs	6
0021854	SA111 FL	75W	12V	24°	G53	2900K	5300 cd	3000 hrs	6
0021857	SA111 WFL	75W	12V	45°	G53	2900K	1700 cd	3000 hrs	6
0021852	SA111 SP	100W	12V	8°	G53	2900K	48000 cd	3000 hrs	6
0021855	SA111 FL	100W	12V	24°	G53	2900K	8500 cd	3000 hrs	6
0021858	SA111 WFL	100W	12V	45°	G53	2900K	2800 cd	3000 hrs	6


	
<ul style="list-style-type: none"> <li>● Sylvania's smallest mains voltage halogen lamp</li> <li>● Integral safety fuse</li> <li>● Approved for use in open luminaires</li> <li>● Available in both clear and frosted finish</li> <li>● Easy installation with G9 plug-in base</li> <li>● Patented filament support method delivers total safety on failure at end of life</li> </ul>	


Code	Description	Watt	Volt	Cap	Lamp Finish	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
<b>Hi-Pin</b>									
0022801	Hi-Pin 25W/230V Clear	25W	230V	G9	Clear	2800K	240 lm	2000 hrs	10
0022797	Hi-Pin 25W/230V Frosted	25W	230V	G9	Frosted	2800K	210 lm	2000 hrs	10
0022803	Hi-Pin 40W/230V Clear	40W	230V	G9	Clear	2800K	440 lm	2000 hrs	10
0022783	Hi-Pin 40W/230V Frosted	40W	230V	G9	Frosted	2800K	420 lm	2000 hrs	10
0022805	Hi-Pin 60W/230V Clear	60W	230V	G9	Clear	2800K	740 lm	2000 hrs	10
0022785	Hi-Pin 60W/230V Frosted	60W	230V	G9	Frosted	2800K	720 lm	2000 hrs	10
0022807	Hi-Pin 75W/230V Clear	75W	230V	G9	Clear	2800K	1000 lm	2000 hrs	10
0022799	Hi-Pin 75W/230V Frosted	75W	230V	G9	Frosted	2800K	950 lm	2000 hrs	10
0022802	Hi-Pin 25W/240V Clear	25W	240V	G9	Clear	2800K	240 lm	2000 hrs	10
0022798	Hi-Pin 25W/240V Frosted	25W	240V	G9	Frosted	2800K	210 lm	2000 hrs	10
0022804	Hi-Pin 40W/240V Clear	40W	240V	G9	Clear	2800K	440 lm	2000 hrs	10
0022784	Hi-Pin 40W/240V Frosted	40W	240V	G9	Frosted	2800K	420 lm	2000 hrs	10
0022806	Hi-Pin 60W/240V Clear	60W	240V	G9	Clear	2800K	740 lm	2000 hrs	10
0022786	Hi-Pin 60W/240V Frosted	60W	240V	G9	Frosted	2800K	720 lm	2000 hrs	10
0022808	Hi-Pin 75W/240V Clear	75W	240V	G9	Clear	2800K	1000 lm	2000 hrs	10
0022800	Hi-Pin 75W/240V Frosted	75W	240V	G9	Frosted	2800K	950 lm	2000 hrs	10

## Hi-Spot® Superia ES50/ESD50





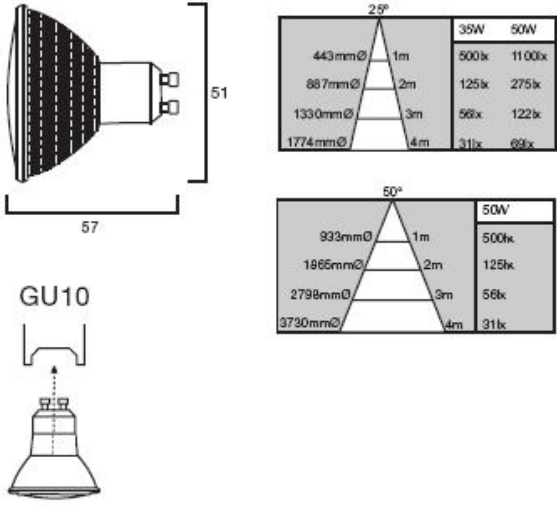




- Unique long life filament – **4000 hours life**
- Xenon gas filling for increased light output
- Unique, patented, computer designed spiral faceted aluminised reflector
- For accent or decorative lighting in retail, commercial and domestic applications
- Ceramic base, brass contacts for a robust fitting
- For use in mains voltage GU10/GZ10 downlights, spotlights and luminaires



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot Superia ES50</b>									
0022900	Hi-Spot ES50 35W/FL25°	35W	230V	25°	GU10	2700K	850 cd	4000 hrs	10
0022902	Hi-Spot ES50 50W/FL25°	50W	230V	25°	GU10	2750K	1360 cd	4000 hrs	10
0022906	Hi-Spot ES50 50W/WFL50°	50W	230V	50°	GU10	2750K	550 cd	4000 hrs	10
0022901	Hi-Spot ES50 35W/FL25°	35W	240V	25°	GU10	2700K	850 cd	4000 hrs	10
0022903	Hi-Spot ES50 50W/FL25°	50W	240V	25°	GU10	2750K	1360 cd	4000 hrs	10
0022907	Hi-Spot ES50 50W/WFL50°	50W	240V	50°	GU10	2750K	550 cd	4000 hrs	10
<b>Hi-Spot Superia ESD50 Dichroic</b>									
0022904	Hi-Spot ESD50 50W/FL25°	50W	230V	25°	GZ10	2800K	1360 cd	4000 hrs	10
0022908	Hi-Spot ESD50 50W/WFL50°	50W	230V	50°	GZ10	2800K	550 cd	4000 hrs	10
0022905	Hi-Spot ESD50 50W/FL25°	50W	240V	25°	GZ10	2800K	1360 cd	4000 hrs	10
0022909	Hi-Spot ESD50 50W/WFL50°	50W	240V	50°	GZ10	2800K	550 cd	4000 hrs	10



**25°**

443mmØ	1m	35W	50W
887mmØ	2m	500lx	1100lx
1330mmØ	3m	125lx	275lx
1774mmØ	4m	56lx	122lx
		31lx	68lx


**50°**


933mmØ	1m	50W
1865mmØ	2m	500lx
2798mmØ	3m	125lx
3730mmØ	4m	56lx
		31lx

51


57

GU10






- Unique, patented, computer designed spiral faceted aluminised reflector
- Clear front lens for crisp sparkling light
- Ceramic base
- For use in mains voltage GU10 downlights, spotlights and luminaires

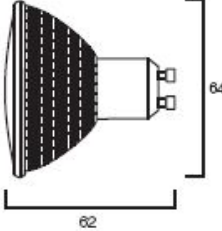






Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot Home ES50</b>									
0021254	Hi-Spot ES50 230-240V 35W 25°	35W	230-240V	25°	GU10	2700K	500 cd	2500 hrs	10
0021256	Hi-Spot ES50 230-240V 50W 25°	50W	230-240V	25°	GU10	2700K	1100 cd	2500 hrs	10
0021261	Hi-Spot ES50 230-240V 50W 50°	50W	230-240V	50°	GU10	2700K	500 cd	2500 hrs	10

## Hi-Spot® ES63/ESD63







GU10








GZ10

25°		50W	75W
443mmØ	1m	1500lx	2500lx
887mmØ	2m	375lx	625lx
1330mmØ	3m	167lx	278lx
1774mmØ	4m	84lx	136lx

50°		75W
939mmØ	1m	1000lx
1865mmØ	2m	250lx
2796mmØ	3m	111lx
3730mmØ	4m	63lx

universal GZ10/ESD versions

- Halogen light without the need for a transformer
- Installing and changing lamps made easier with the 'turn and lock' GU10 and GZ10 caps
- Unique patented, computer designed spiral faceted reflector
- Can be dimmed using standard dimmer switches
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for exterior use when protected from contact with water



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot ES63</b>									
0022266	Hi-Spot ES63 50W/FL25°	50W	230V	25°	GU10	2750K	1500 cd	2500 hrs	15
0022271	Hi-Spot ES63 75W/FL25°	75W	230V	25°	GU10	2800K	2500 cd	2500 hrs	15
0022261	Hi-Spot ES63 75W/WFL50°	75W	230V	50°	GU10	2800K	1000 cd	2500 hrs	15
0022268	Hi-Spot ES63 50W/FL25°	50W	240V	25°	GU10	2750K	1500 cd	2500 hrs	15
0022274	Hi-Spot ES63 75W/FL25°	75W	240V	25°	GU10	2800K	2500 cd	2500 hrs	15
0022264	Hi-Spot ES63 75W/WFL50°	75W	240V	50°	GU10	2800K	1000 cd	2500 hrs	15
<b>Hi-Spot ESD63 Dichroic</b>									
0022281	Hi-Spot ESD63 75W/FL25°	75W	230V	25°	GZ10	2850K	2500 cd	2500 hrs	15
0022291	Hi-Spot ESD63 75W/WFL50°	75W	230V	50°	GZ10	2850K	1000 cd	2500 hrs	15
0022284	Hi-Spot ESD63 75W/FL25°	75W	240V	25°	GZ10	2850K	2500 cd	2500 hrs	15

10°		100W	
175mmØ	1m	12000k	
350mmØ	2m	3000k	
525mmØ	3m	1333k	
700mmØ	4m	750k	


24°		75W	100W
425mmØ	1m	3500k	5000k
850mmØ	2m	875k	1250k
1275mmØ	3m	389k	556k
1700mmØ	4m	219k	313k

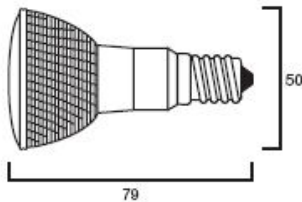
- Mains voltage alternative to Sylvania SA111 aluminium reflector lamp
- With integral anti-glare shield option
- Halogen light without the need for a transformer
- Installing and changing lamps made easier with the 'turn and lock' GU10 and GZ10 caps
- Wattages and beam angles – ES111 AG 75W/24° and ESD111 AG 100W/10° & 24°
- For accent or decorative lighting in retail, commercial and domestic applications



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot ES111 without anti-glare</b>									
0022221	75W Flood 230V 24°	75W	230V	24°	GU10	2800K	3000 cd	2000 hrs	15
0022223	75W Flood 240V 24°	75W	240V	24°	GU10	2800K	3000 cd	2000 hrs	15
<b>Hi-Spot ES111 with anti-glare</b>									
0022224	75W Flood 230V 24°	75W	230V	24°	GU10	2800K	3500 cd	2000 hrs	15
0022225	75W Flood 240V 24°	75W	240V	24°	GU10	2800K	3500 cd	2000 hrs	15
<b>Hi-Spot ESD111 Dichroic with anti-glare</b>									
0022229	100W Spot 230V 10°	100W	230V	10°	GZ10	2900K	12000 cd	2000 hrs	15
0022227	100W Flood 230V 24°	100W	230V	24°	GZ10	2900K	5000 cd	2000 hrs	15
0022228	100W Spot 240V 10°	100W	240V	10°	GZ10	2900K	12000 cd	2000 hrs	15
0022226	100W Flood 240V 24°	100W	240V	24°	GZ10	2900K	5000 cd	2000 hrs	15

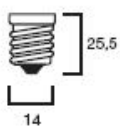
# Hi-Spot® 50






25°		40W
443mmØ	1m	950lx
887mmØ	2m	236lx
1330mmØ	3m	106lx
1774mmØ	4m	59lx

**E14**

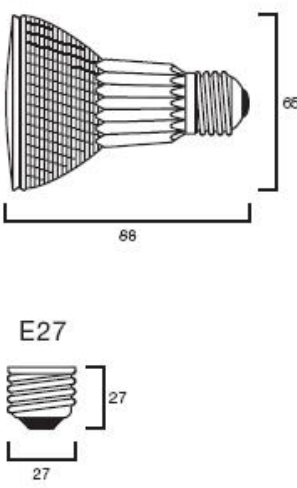




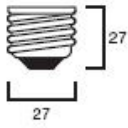
- Retrofit solution for E14 incandescent R50 lamps
- Twice the life compared to incandescent lamps
- Halogen light without the need for a transformer
- Unique, patented spiral reflector design for uniform beam pattern
- Can be dimmed using standard dimmer switches
- For use in mains voltage SES/E14 cap downlights, spotlights and luminaires



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot 50</b>									
0021081	Hi-Spot 50 40W/FL25°	40W	230V	25°	E14	2700K	950 cd	2000 hrs	15
0021084	Hi-Spot 50 40W/FL25°	40W	240V	25°	E14	2700K	950 cd	2000 hrs	15







**E27**



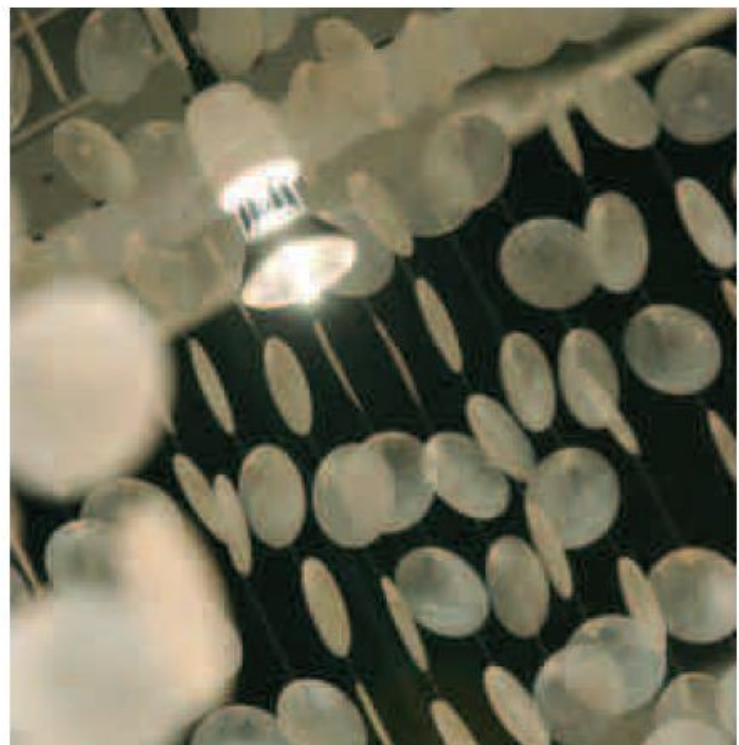
10°		50W
175mm∅	1m	3000k
350mm∅	2m	750k
525mm∅	3m	333k
700mm∅	4m	188k

25°		50W
443mm∅	1m	1000k
887mm∅	2m	250k
1330mm∅	3m	111k
1774mm∅	4m	63k



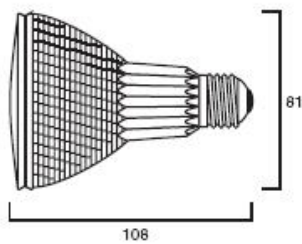

UNIVERSAL

UV STOP


- Halogen light without the need for a transformer
- Unique, patented, computer designed spiral faceted aluminised reflector
- Can be dimmed using standard dimmer switches
- For use in mains voltage ES/E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for exterior use when protected from direct contact with water



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot 63</b>									
0021125	Hi-Spot 63 50W/SP10°	50W	230V	10°	E27	2900K	3000 cd	2500 hrs	15
0021126	Hi-Spot 63 50W/FL25°	50W	230V	25°	E27	2900K	1000 cd	2500 hrs	15
0021127	Hi-Spot 63 50W/SP10°	50W	240V	10°	E27	2900K	3000 cd	2500 hrs	15
0021128	Hi-Spot 63 50W/FL25°	50W	240V	25°	E27	2900K	1000 cd	2500 hrs	15

# Hi-Spot® 80



		50W	75W
175mmØ	1m	4000lx	5500lx
350mmØ	2m	1000lx	1375lx
525mmØ	3m	444lx	611lx
700mmØ	4m	250lx	344lx

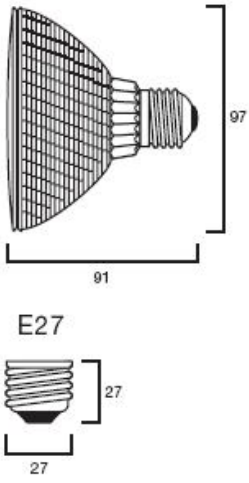
		50W	75W
443mmØ	1m	1100lx	1300lx
887mmØ	2m	275lx	325lx
1330mmØ	3m	122lx	144lx
1774mmØ	4m	69lx	81lx



- Halogen light without the need for a transformer
- Unique, patented, computer designed spiral faceted aluminised reflector
- Can be dimmed using standard dimmer switches
- For use in mains voltage ES/E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for exterior use when protected from direct contact with water




Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot 80</b>									
0021131	Hi-Spot 80 50W/SP10°	50W	230V	10°	E27	2900K	4000 cd	2500 hrs	15
0021132	Hi-Spot 80 50W/FL25°	50W	230V	25°	E27	2900K	1100 cd	2500 hrs	15
0021133	Hi-Spot 80 75W/SP10°	75W	230V	10°	E27	2900K	5500 cd	3000 hrs	15
0021134	Hi-Spot 80 75W/FL25°	75W	230V	25°	E27	2900K	1300 cd	3000 hrs	15
0021161	Hi-Spot 80 50W/SP10°	50W	240V	10°	E27	2900K	4000 cd	2500 hrs	15
0021162	Hi-Spot 80 50W/FL25°	50W	240V	25°	E27	2900K	1100 cd	2500 hrs	15
0021163	Hi-Spot 80 75W/SP10°	75W	240V	10°	E27	2900K	5500 cd	3000 hrs	15
0021164	Hi-Spot 80 75W/FL25°	75W	240V	25°	E27	2900K	1300 cd	3000 hrs	15



10°		75W	100W
175mm∅	1m	6900lx	10000lx
350mm∅	2m	1725lx	2500lx
525mm∅	3m	767lx	1111lx
700mm∅	4m	431lx	625lx

30°		75W	75W DIC	100W
536mm∅	1m	2200lx	2400lx	3500lx
1072mm∅	2m	550lx	600lx	875lx
1608mm∅	3m	244lx	267lx	399lx
2144mm∅	4m	138lx	150lx	219lx




universal
 Dichroic versions
 UV STOP
 COOL BEAM

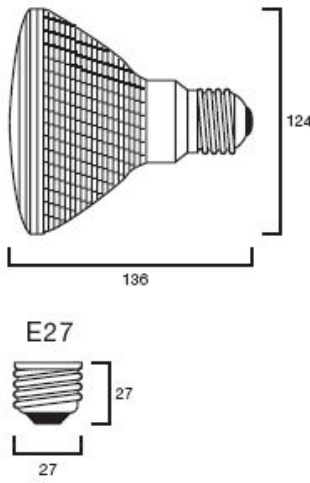
- Halogen light without the need for a transformer
- Unique, patented, computer designed spiral faceted aluminised reflector
- Can be dimmed using standard dimmer switches
- For use in mains voltage ES/E27 cap downlights, spotlights and luminaires
- Use dichroic lamps for lighting food, textiles and other objects sensitive to heat
- Suitable for exterior use when protected from direct contact with water



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot 95</b>									
0021230	Hi-Spot 95 75W/SP10°	75W	230V	10°	E27	2900K	6900 cd	3000 hrs	15
0021231	Hi-Spot 95 75W/FL30°	75W	230V	30°	E27	2900K	2200 cd	3000 hrs	15
0021234	Hi-Spot 95 100W/SP10°	100W	230V	10°	E27	2900K	10000 cd	3000 hrs	15
0021235	Hi-Spot 95 100W/FL30°	100W	230V	30°	E27	2900K	3500 cd	3000 hrs	15
0021232	Hi-Spot 95 75W/SP10°	75W	240V	10°	E27	2900K	6900 cd	3000 hrs	15
0021233	Hi-Spot 95 75W/FL30°	75W	240V	30°	E27	2900K	2200 cd	3000 hrs	15
0021236	Hi-Spot 95 100W/SP10°	100W	240V	10°	E27	2900K	10000 cd	3000 hrs	15
0021237	Hi-Spot 95 100W/FL30°	100W	240V	30°	E27	2900K	3500 cd	3000 hrs	15
<b>Hi-Spot 95 Dichroic</b>									
0021291	Hi-Spot 95 75W/FL30° DIC	75W	230V	30°	E27	2900K	2400 cd	3000 hrs	15
0021293	Hi-Spot 95 75W/FL30° DIC	75W	240V	30°	E27	2900K	2400 cd	3000 hrs	15

# Hi-Spot® 120

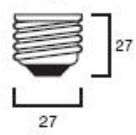





		75W	100W
10°	175mmØ	6900lk	10000lk
	350mmØ	1725lk	2500lk
	525mmØ	767lk	1111lk
	700mmØ	431lk	625lk

		75W	100W
30°	536mmØ	2200lk	3500lk
	1072mmØ	550lk	879lk
	1608mmØ	244lk	389lk
	2144mmØ	136lk	219lk

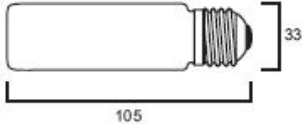
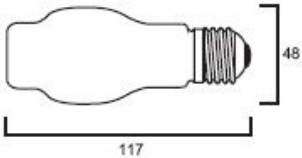
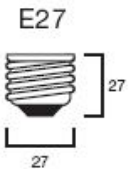







- Halogen light without the need for a transformer
- Unique, patented, computer designed spiral faceted aluminised reflector
- Can be dimmed using standard dimmer switches
- For use in mains voltage ES/E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial and domestic applications
- Suitable for exterior use when protected from direct contact with water



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
<b>Hi-Spot 120</b>									
0021141	Hi-Spot 120 75W/FL30°	75W	230V	30°	E27	2900K	2200 cd	3000 hrs	15
0021144	Hi-Spot 120 100W/SP10°	100W	230V	10°	E27	2900K	10000 cd	3000 hrs	15
0021145	Hi-Spot 120 100W/FL30°	100W	230V	30°	E27	2900K	3500 cd	3000 hrs	15
0021142	Hi-Spot 120 75W/SP10°	75W	240V	10°	E27	2900K	6900 cd	3000 hrs	15
0021143	Hi-Spot 120 75W/FL30°	75W	240V	30°	E27	2900K	2200 cd	3000 hrs	15
0021146	Hi-Spot 120 100W/SP10°	100W	240V	10°	E27	2900K	10000 cd	3000 hrs	15
0021147	Hi-Spot 120 100W/FL30°	100W	240V	30°	E27	2900K	3500 cd	3000 hrs	15

<p><b>DLX-T</b></p>  <p><b>DLX-BTT</b></p>  	  
<ul style="list-style-type: none"> <li>• Retrofit for standard incandescent lamps</li> <li>• Top quality halogen light maintained throughout life of lamp</li> <li>• Double the life compared to GLS incandescent lamps</li> <li>• No handling precautions needed</li> <li>• Universal burning position</li> </ul>	

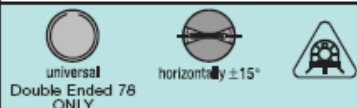
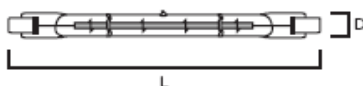


Code	Description	Watt	Volt	Cap	Lamp Finish	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
<b>DLX-T</b>									
0022052	DLX/T Clear 100W	100W	230V	E27	Clear	2900K	1500 lm	2000 hrs	40
0022053	DLX/T Satin 100W	100W	230V	E27	Satin	2900K	1480 lm	2000 hrs	40
0021416	DLX/T Clear 150W	150W	230V	E27	Clear	2900K	2550 lm	2000 hrs	40
0021417	DLX/T Satin 150W	150W	230V	E27	Satin	2900K	2380 lm	2000 hrs	40
<b>DLX-BTT</b>									
0021368	DLX/BTT Clear 60W	60W	230V	E27	Clear	2900K	840 lm	2000 hrs	40
0021369	DLX/BTT Satin 60W	60W	230V	E27	Satin	2900K	800 lm	2000 hrs	40
0022048	DLX/BTT Clear 100W	100W	230V	E27	Clear	2900K	1550 lm	2000 hrs	40
0022049	DLX/BTT Satin 100W	100W	230V	E27	Satin	2900K	1480 lm	2000 hrs	40
0021472	DLX/BTT Clear 150W	150W	230V	E27	Clear	2900K	2550 lm	2000 hrs	40
0021473	DLX/BTT Satin 150W	150W	230V	E27	Satin	2900K	2380 lm	2000 hrs	40

## Linear Double Ended



<b>R7s</b>	Double Ended 78
L	78
D	10
<b>R7s</b>	Double Ended 118
L	118
D	8
<b>R7s</b>	Double Ended 189
L	189
D	12
<b>R7s</b>	Double Ended 254
L	254
D	12
<b>R7s</b>	Double Ended 331
L	331
D	12



- Instant illumination
- Excellent colour rendering
- Suitable for exterior floodlighting/security lighting
- Suitable for interior floodlighting, uplighting and wallwashing
- For use in luminaires with toughened front glass
- Do not touch the quartz envelope with bare fingers

Code	Description	Watt	Volt	Cap	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
<b>Double Ended 78</b>								
0022780	DE 230V 60W	60W	230V	R7s	2800K	840 lm	2000 hrs	12
0021400	DE 230V 100W	100W	230V	R7s	2900K	1350 lm	2000 hrs	12
0021401	DE 230V 150W	150W	230V	R7s	2900K	2100 lm	2000 hrs	12
0022781	DE 240V 60W	60W	240V	R7s	2800K	840 lm	2000 hrs	12
0021402	DE 240V 100W	100W	240V	R7s	2900K	1350 lm	2000 hrs	12
0021403	DE 240V 150W	150W	240V	R7s	2900K	2100 lm	2000 hrs	12
<b>Double Ended 118</b>								
0021544	DE 230V 100W	100W	230V	R7s	2800K	1100 lm	2000 hrs	10 x 10
0021545	DE 230V 150W	150W	230V	R7s	2800K	1875 lm	2000 hrs	10 x 10
0021550	DE 230V 200W	200W	230V	R7s	2850K	3000 lm	2000 hrs	10 x 10
0021681	DE 230V 300W	300W	230V	R7s	2900K	5000 lm	2000 hrs	10 x 10
0021620	DE 230V 500W	500W	230V	R7s	2900K	9250 lm	2000 hrs	10 x 10
0021547	DE 240V 150W	150W	240V	R7s	2800K	1875 lm	2000 hrs	10 x 10
0021551	DE 240V 200W	200W	240V	R7s	2850K	3000 lm	2000 hrs	10 x 10
0021653	DE 240V 300W	300W	240V	R7s	2900K	4800 lm	2000 hrs	10 x 10
0021621	DE 240V 500W	500W	240V	R7s	2900K	9250 lm	2000 hrs	10 x 10
<b>Double Ended 189</b>								
0021622	DE 230V 750W	750W	230V	R7s	3000K	15000 lm	2000 hrs	10 x 10
0021623	DE 240V 750W	750W	240V	R7s	3000K	15000 lm	2000 hrs	10 x 10
0021624	DE 230V 1000W	1000W	230V	R7s	3000K	22000 lm	2000 hrs	10 x 10
0021625	DE 240V 1000W	1000W	240V	R7s	3000K	22000 lm	2000 hrs	10 x 10
<b>Double Ended 254</b>								
0021626	DE 230V 1500W	1500W	230V	R7s	3000K	33000 lm	2000 hrs	10 x 10
0021628	DE 240V 1500W	1500W	240V	R7s	3000K	33000 lm	2000 hrs	10 x 10
<b>Double Ended 331</b>								
0021629	DE 230V 2000W	2000W	230V	R7s	3000K	44000 lm	2000 hrs	50

**CABLE CROSS SECTIONS FOR LOW VOLT INSTALLATIONS**

To operate a lamp at the same power from a 12 volt supply compared to a 240V supply, 20 times the current is required. All the components on the 12 volt side of a step down transformer supplying low voltage dichroic lamps, for example, need to be sized accordingly. Therefore a 12V 50W transformer will draw about 200 milliamperes from the 240V primary supply but will deliver 4.2 amperes to the lamp on the secondary 12V low voltage side.

It is generally accepted that the correct choice of cable cross section is 6 amperes per square mm maximum. Voltage drop between the lamps and transformer may also become a problem over long cable runs. For example a 3.5% drop in voltage at the lamp cap will cause lamp light output from a 12V lamp to reduce by 10%.

To calculate the minimum cable cross section for a given cable length the following formula is used (where the voltage drop will be 3.5% maximum):

Copper cable:  $A \text{ (mm}^2\text{)} = P \text{ (lamp power in Watt)} \times L \text{ (cable run in metres)} \times 0.007$

Aluminium cable:  $A = P \times L \times 0.011$

The tables below list typical values of A (cross section) for total lamp load (W), the current (I) and cable run length of L metres for each conductor type.

$A = \text{Power (W)} \times r \times L / 2.52$

A in mm<sup>2</sup>

r specific resistance of the cable material

... 0.018 for copper

... 0.028 for aluminium

L distance between transformer and lamp(s)

**COPPER WIRE**

Cable Cross Sections (mm<sup>2</sup>) for 12V lamps (max. 3.5% Voltage Drop)

Power (W)	20	40	50	80	100	120	150	200	250
Current (A)	1.7	3.3	4.2	6.7	8.3	10	12.5	16.6	20.8
Distance Transformer – Lamp (m)									
1	0.75	0.75	0.75	0.75	0.75	1.5	1.5	1.5	2.5
2	0.75	0.75	0.75	1.5	1.5	2.5	2.5	4.0	4.0
3	0.75	1.5	1.5	2.5	2.5	2.5	4.0	6.0	6.0
5	0.75	1.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0
8	1.5	2.5	4.0	6.0	6.0	10.0	10.0	16.0	16.0
10	1.5	4.0	4.0	6.0	10.0	10.0	16.0	16.0	25.0
12	2.5	4.0	6.0	10.0	10.0	10.0	16.0	25.0	25.0
15	2.5	6.0	6.0	10.0	16.0	16.0	16.0	25.0	25.0

**ALUMINIUM WIRE**

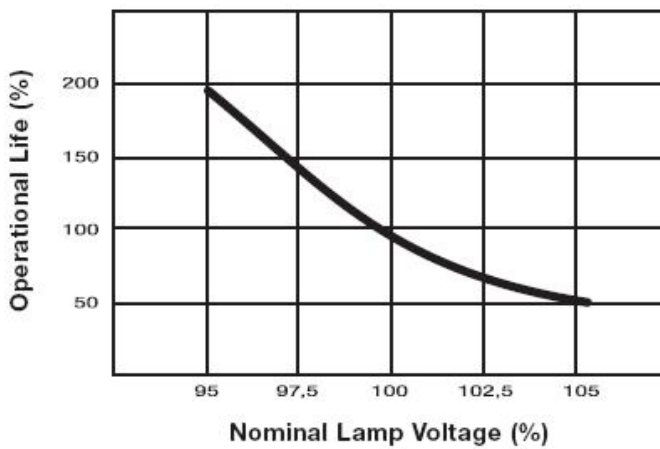
Cable Cross Sections (mm<sup>2</sup>) for 12V lamps (max. 3.5% Voltage Drop)

Power (W)	20	40	50	80	100	120	150	200	250
Current (A)	1.7	3.3	4.2	6.7	8.3	10	12.5	16.6	20.8
Distance Transformer – Lamp (m)									
1	0.75	0.75	0.75	1.5	1.5	1.5	2.5	2.5	4.0
2	0.75	1.5	1.5	2.5	2.5	4.0	4.0	6.0	6.0
3	0.75	1.5	2.5	4.0	4.0	4.0	6.0	10.0	10.0
5	1.5	2.5	4.0	6.0	6.0	10.0	10.0	16.0	16.0
8	2.5	4.0	6.0	10.0	10.0	16.0	16.0	25.0	25.0
10	2.5	6.0	6.0	10.0	16.0	16.0	25.0	25.0	
12	4.0	6.0	10.0	16.0	16.0	16.0	25.0		
15	4.0	10.0	10.0	16.0	25.0	25.0	25.0		

## Directions for Use

### OPERATIONAL LIFE

The operational life of a low voltage incandescent halogen lamp depends on the voltage applied.

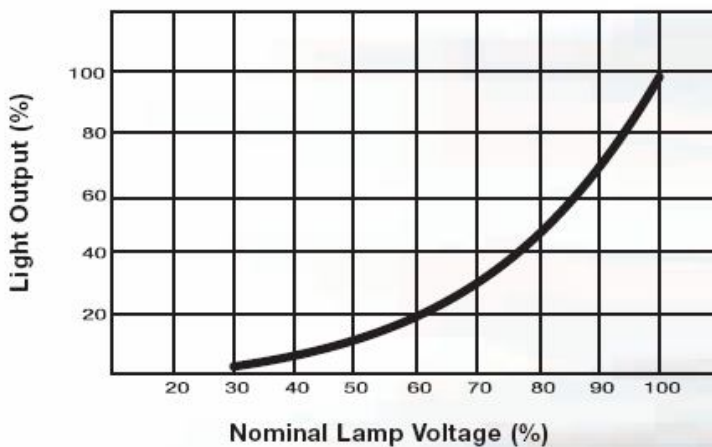


$$LD_2 = LD_1 \left( \frac{U_1}{U_2} \right)^{13}$$

- LD<sub>1</sub> = Lamp life at nominal supply voltage
- LD<sub>2</sub> = Lamp life at varying supply voltage
- U<sub>1</sub> = Nominal lamp voltage
- U<sub>2</sub> = Deviation from nominal lamp voltage

### LIGHT LEVEL VARIATIONS

The light output from low voltage incandescent halogen lamps may be varied to an infinite degree. When selecting a dimmer, ensure that it is suitable for inductive loads (only use dimmer switches intended for use with low voltage halogen lamps).



$$\phi_2 = \phi_1 \left( \frac{U_2}{U_1} \right)^{3.4}$$

- φ<sub>1</sub> = Light output at nominal lamp voltage
- φ<sub>2</sub> = Light output at varying supply voltage
- U<sub>1</sub> = Nominal lamp voltage
- U<sub>2</sub> = Deviation from nominal lamp voltage

**MICRO-LYNX**

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Micro-Lynx LED	70
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**LED MODULES**

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**LED RODS**

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LED Lamp Coloured ES50	78
LED A55 Fixable Coloured	78

LEDs are becoming more and more efficient and versatile for accent lighting applications. They are available in various shapes, intensities, beam angles and colours. LEDs are the perfect solution where long lasting light source with low service maintenance are a factor.

The small dimensions of these light sources and the easy connectivity make them popular in applications of creative, easy to install lighting effects.

The evolution of this light source is still ongoing, even our well known and established Micro-Lynx F compact fluorescent lamp has been adapted and evolved to become the **Micro-Lynx LED**.



MICRO-LYNX LED



LED BAR MODULES



LED ROUND MODULES

Sylvania offers a comprehensive range of mounted LED light sources. The LEDs are mounted on a circuit board and have an extremely thin profile. The range covers the widest application possibilities for accent lighting solutions.

Power supplies and constant current drivers are also available in order to offer a complete solution in this new range.

For specific needs and tailor-made solutions Sylvania is always able to offer a LED module that fits the requirements of our customers.



LED ARRAY



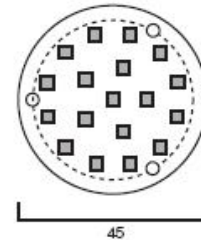
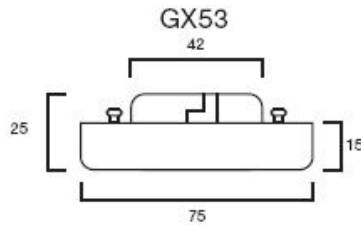
LED STRIP MODULES



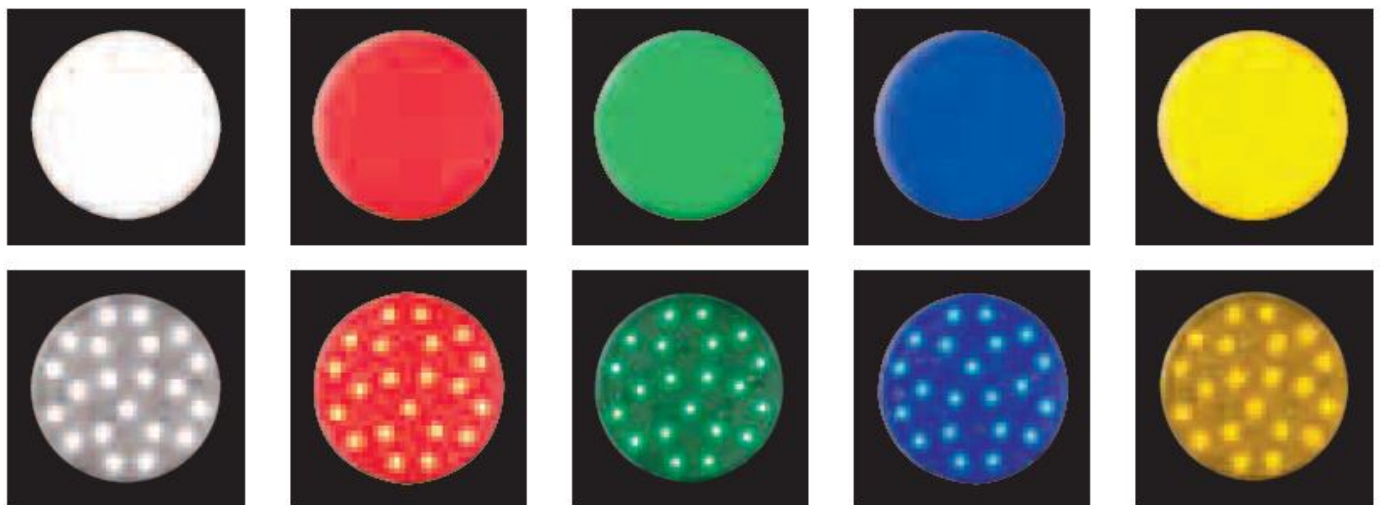
LED LIGHT ROD &  
LED LIGHT CABLE

# Micro-Lynx LED

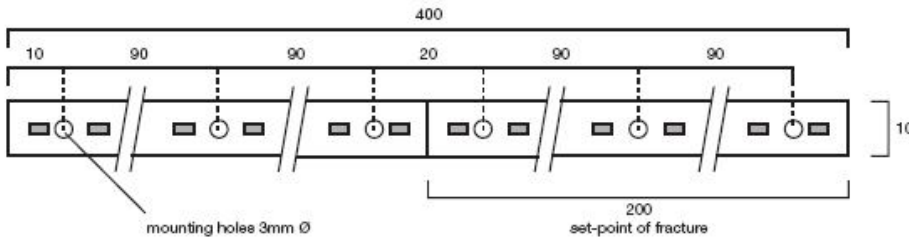
NEW



- Two different lens types – satin and clear
- Power consumption 1.5W
- Temperature range of -25°C to +60°C
- Integrated electronic transformer
- Mains voltage operation
- Average rated life: 50000 hours



Code	Description	Watt	Volt	Cap	LED Colour	Lamp Finish	Luminous Flux	Packing Qty
<b>Micro-Lynx LED Satin</b>								
0025060	Micro-Lynx LED White Satin	1.5W	230V	GX53	White	Satin	20 lm	10
0025061	Micro-Lynx LED Red Satin	1.5W	230V	GX53	Red	Satin	12 lm	10
0025062	Micro-Lynx LED Green Satin	1.5W	230V	GX53	Green	Satin	20 lm	10
0025063	Micro-Lynx LED Blue Satin	1.5W	230V	GX53	Blue	Satin	5 lm	10
0025064	Micro-Lynx LED Yellow Satin	1.5W	230V	GX53	Yellow	Satin	15 lm	10
<b>Micro-Lynx LED Clear</b>								
0025065	Micro-Lynx LED White Clear	1.5W	230V	GX53	White	Clear	40 lm	10
0025066	Micro-Lynx LED Red Clear	1.5W	230V	GX53	Red	Clear	20 lm	10
0025067	Micro-Lynx LED Green Clear	1.5W	230V	GX53	Green	Clear	32 lm	10
0025068	Micro-Lynx LED Blue Clear	1.5W	230V	GX53	Blue	Clear	8 lm	10
0025069	Micro-Lynx LED Yellow Clear	1.5W	230V	GX53	Yellow	Clear	24 lm	10




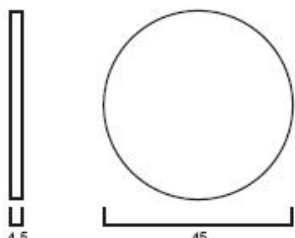


- Extremely thin profile <4,5mm
- Divisible into two parts, each with a 200mm length
- More modules can be linked together up to a total length of 25m
- Available in 6 vibrant colours
- Each module consists of 36 LEDs
- 24 Volt DC operation



Code	Description	Watt	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
<b>LED Bar Modules</b>								
0025070	LED Bar Module 36	3.84W	24V	160 mA	110°	White	48 lm	1
0025071	LED Bar Module 36	3.84W	24V	160 mA	120°	Green	36 lm	1
0025072	LED Bar Module 36	1.92W	24V	80 mA	120°	Red	24 lm	1
0025073	LED Bar Module 36	3.84W	24V	160 mA	110°	Blue	14 lm	1
0025074	LED Bar Module 36	1.92W	24V	80 mA	120°	Yellow	18 lm	1
0025075	LED Bar Module 36	1.92W	24V	80 mA	120°	Amber	14 lm	1

Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
<b>LED Power Supplies</b>							
0025114	LED Module Power Supply	5W	24VDC	200 mA	85-264VAC/47-440Hz	47 x 45 x 30.5	1
0025120	LED Module Power Supply	10W	24VDC	416 mA	85-264VAC/47-440Hz	64 x 45 x 30.5	1
0025115	LED Module Power Supply	15W	24VDC	625 mA	85-264VAC/47-440Hz	96 x 54 x 26.5	1
0025116	LED Module Power Supply	60W	24VDC	2.5 A	85-264VAC/50-60Hz	170 x 96 x 38.0	1




## LED Round Modules

	
 <p>universal</p>	
	<ul style="list-style-type: none"> <li>● Extremely thin profile &lt;4,5mm</li> <li>● Each module consists of 12 LEDs</li> <li>● Available in 6 vibrant colours</li> <li>● 24 Volt DC operation</li> <li>● Not suitable for dimming</li> </ul>

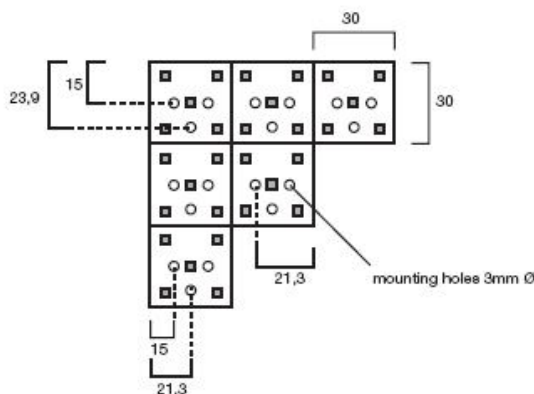


Code	Description	Watt	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
<b>LED Round Modules</b>								
0025076	LED Round Module 18/10	0.96W	24V	40 mA	110°	White	13 lm	1
0025077	LED Round Module 18/10	0.96W	24V	40 mA	120°	Green	10 lm	1
0025078	LED Round Module 18/10	0.96W	24V	40 mA	120°	Red	12 lm	1
0025079	LED Round Module 18/10	0.96W	24V	40 mA	110°	Blue	4 lm	1
0025080	LED Round Module 18/10	0.96W	24V	40 mA	120°	Yellow	9 lm	1
0025081	LED Round Module 18/10	0.96W	24V	40 mA	120°	Amber	7 lm	1

Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
<b>LED Power Supplies</b>							
0025114	LED Module Power Supply	5W	24VDC	200 mA	85-264VAC/47-440Hz	47 x 45 x 30.5	1
0025120	LED Module Power Supply	10W	24VDC	416 mA	85-264VAC/47-440Hz	64 x 45 x 30.5	1
0025115	LED Module Power Supply	15W	24VDC	625 mA	85-264VAC/47-440Hz	96 x 54 x 26.5	1
0025116	LED Module Power Supply	60W	24VDC	2.5 A	85-264VAC/50-60Hz	170 x 96 x 38.0	1

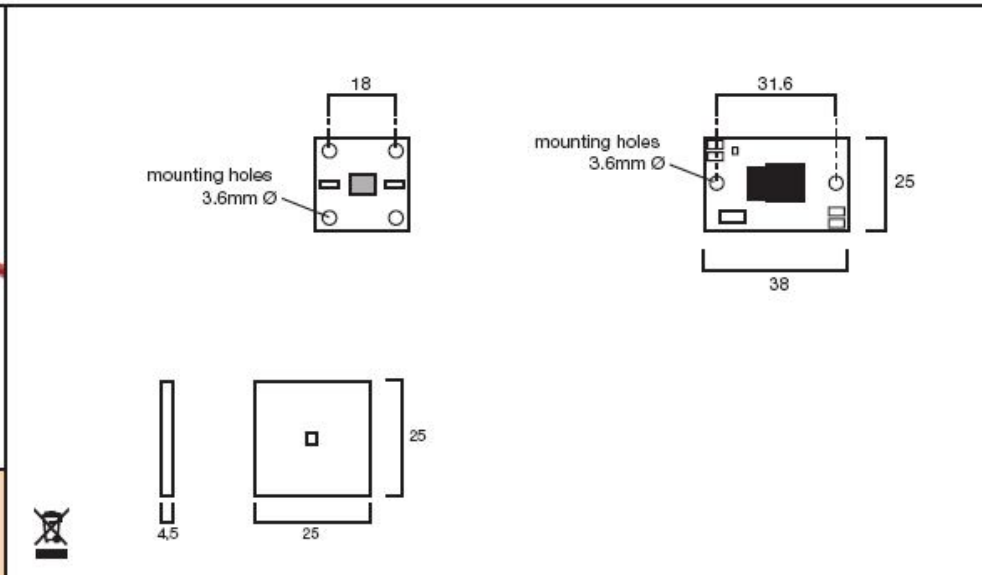
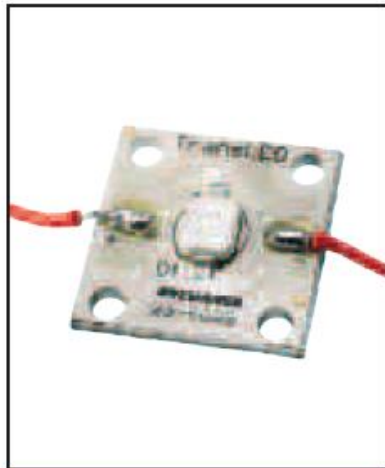
- Extremely thin profile <math><4,5\text{mm}</math>
- LED Array consists of 360 LEDs
- 6 x 12 interconnected modules divisible into any possible shape
- Available in 6 vibrant colours
- 24 Volt DC operation
- Not suitable for dimming



Code	Description	Watt	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
<b>LED Array</b>								
0025082	LED Array 6 x 12	34.56W	24V	1440 mA	110°	White	96 lm	1
0025083	LED Array 6 x 12	34.56W	24V	1440 mA	120°	Green	72 lm	1
0025084	LED Array 6 x 12	34.56W	24V	1440 mA	120°	Red	48 lm	1
0025085	LED Array 6 x 12	34.56W	24V	1440 mA	110°	Blue	28 lm	1
0025086	LED Array 6 x 12	34.56W	24V	1440 mA	120°	Yellow	36 lm	1
0025087	LED Array 6 x 12	34.56W	24V	1440 mA	120°	Amber	28 lm	1

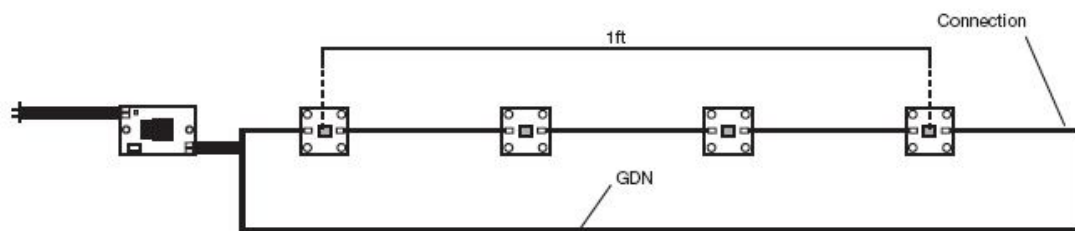
Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
<b>LED Power Supplies</b>							
0025114	LED Module Power Supply	5W	24VDC	200 mA	85-264VAC/47-440Hz	47 x 45 x 30.5	1
0025120	LED Module Power Supply	10W	24VDC	416 mA	85-264VAC/47-440Hz	64 x 45 x 30.5	1
0025115	LED Module Power Supply	15W	24VDC	625 mA	85-264VAC/47-440Hz	96 x 54 x 26.5	1
0025116	LED Module Power Supply	60W	24VDC	2.5 A	85-264VAC/50-60Hz	170 x 96 x 38.0	1

# LED Strip Modules 1



LED Strip DC/DC Driver  
1 Driver per 6 modules maximum

- One high-power LED per PCB
- Supplied on a 4,92m reel with 60 modules total
- Uses DC/DC driver – 1 per 6 module
- Available in 7 vibrant colours
- 24 Volt DC operation
- Not suitable for dimming

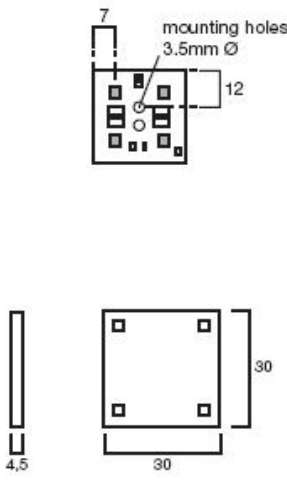
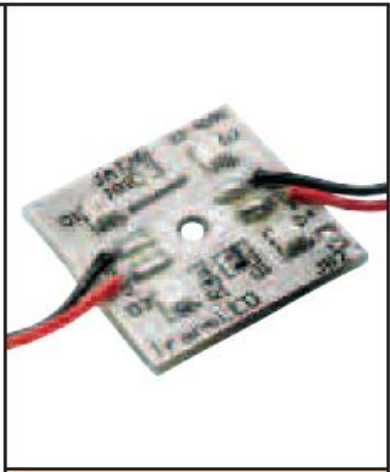
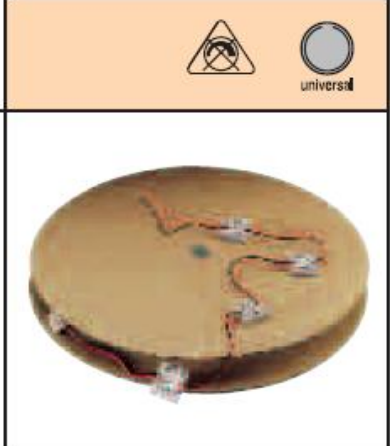


Code	Description	Watt/m	Volt	Current	Viewing Angle	LED Colour	Lumens/m	Packing Qty
<b>LED Strip Modules 1</b>								
0025088	LED Strip Modules 1	10.56W	24V	350 mA	120°	Red	222 lm	60/4,92m
0025089	LED Strip Modules 1	10.56W	24V	350 mA	120°	Orange	222 lm	60/4,92m
0025090	LED Strip Modules 1	10.56W	24V	350 mA	120°	Yellow	222 lm	60/4,92m
0025091	LED Strip Modules 1	15.96W	24V	350 mA	120°	Green	306 lm	60/4,92m
0025092	LED Strip Modules 1	15.96W	24V	350 mA	120°	Cyan	306 lm	60/4,92m
0025093	LED Strip Modules 1	15.96W	24V	350 mA	120°	Blue	99 lm	60/4,92m
0025094	LED Strip Modules 1	15.96W	24V	350 mA	120°	White	360 lm	60/4,92m

### LED Strip DC/DC Driver

0025095	LED Strip DC/DC Driver		24V	-	-	-	-	50
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Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
<b>LED Power Supplies</b>							
0025114	LED Module Power Supply	5W	24VDC	200 mA	85-264VAC/47-440Hz	47 x 45 x 30.5	1
0025120	LED Module Power Supply	10W	24VDC	416 mA	85-264VAC/47-440Hz	64 x 45 x 30.5	1
0025115	LED Module Power Supply	15W	24VDC	625 mA	85-264VAC/47-440Hz	96 x 54 x 26.5	1
0025116	LED Module Power Supply	60W	24VDC	2.5 A	85-264VAC/50-60Hz	170 x 96 x 38.0	1


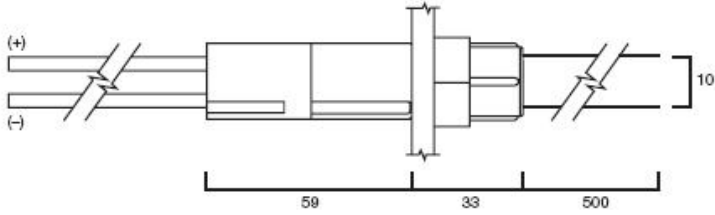


 <p>7 mounting holes 3.5mm Ø 12 30 4.5</p>	
<ul style="list-style-type: none"> <li>• Four high brightness LEDs per PCB</li> <li>• Supplied on a 4,92m reel with 45 modules total</li> <li>• No separate driver required</li> <li>• Available in 7 vibrant colours</li> <li>• 12 Volt DC operation</li> <li>• Not suitable for dimming</li> </ul>	



Code	Description	Watt/m	Volt	Current	Viewing Angle	LED Colour	Lumens/m	Packing Qty
<b>LED Strip Modules 4</b>								
0025096	LED Strip Modules 4	3.15W	12V	80 mA	120°	Red	48 lm	45/4,92m
0025097	LED Strip Modules 4	3.15W	12V	80 mA	120°	Orange	73 lm	45/4,92m
0025098	LED Strip Modules 4	3.15W	12V	80 mA	120°	Yellow	73 lm	45/4,92m
0025099	LED Strip Modules 4	3.15W	12V	80 mA	120°	Green	57 lm	45/4,92m
0025100	LED Strip Modules 4	3.15W	12V	80 mA	120°	Cyan	57 lm	45/4,92m
0025101	LED Strip Modules 4	3.15W	12V	80 mA	120°	Blue	14 lm	45/4,92m
0025102	LED Strip Modules 4	3.15W	12V	80 mA	120°	White	75 lm	45/4,92m

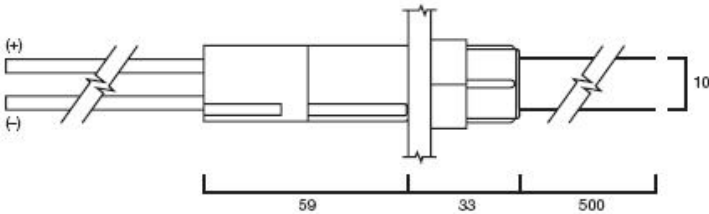
Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
<b>LED Power Supplies</b>							
0025117	LED Strip 4 Power Supply	10W	12VDC	833 mA	85-264VAC/47-440Hz	64 x 45 x 30.5	1
0025118	LED Strip 4 Power Supply	60W	12VDC	6.0 A	85-264VAC/50-60Hz	170 x 96 x 38.0	1

## LED Light Rod

	
	
	<ul style="list-style-type: none"> <li>• Equipped with high-power LED</li> <li>• Temperature range -40°C to +80°C</li> <li>• Formable in all directions under heat into almost every desired shape</li> <li>• Extremely even illumination over the total length at 60° viewing angle</li> <li>• Co-extruded reflector on a PMMA core</li> <li>• Available in 5 vibrant colours</li> </ul>



Code	Description	Watt	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
<b>LED Light Rod</b>								
0025103	LED Light Rod	2W	5.75V	0.87 A	40°	Red	84 lm	1
0025104	LED Light Rod	2W	6.00V	0.83 A	40°	Amber	84 lm	1
0025105	LED Light Rod	3W	10.5V	0.48 A	40°	Green	64 lm	1
0025106	LED Light Rod	3W	10.5V	0.48 A	40°	Blue	23 lm	1
0025107	LED Light Rod	3W	11.0V	0.45 A	40°	White	65 lm	1
<b>LED Power Supply</b>								
0025119	LED Light Cable Power Supply							1



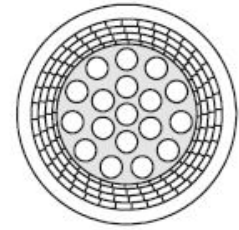
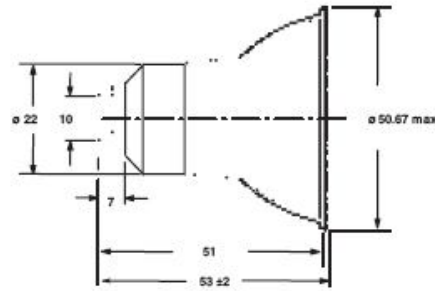
- Equipped with high-power LED
- Temperature range  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- Formable in all directions into almost every desired shape
- Extremely even radial illumination providing the best results for  $360^{\circ}$  side lighting applications
- Available in 5 vibrant colours
- Not suitable for dimming



Code	Description	Watt	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
<b>LED Light Cable</b>								
0025109	LED Light Cable	2W	5.75V	0.87 A	$360^{\circ}$	Red	84 lm	1
0025110	LED Light Cable	2W	6.00V	0.83 A	$360^{\circ}$	Amber	84 lm	1
0025111	LED Light Cable	3W	10.5V	0.48 A	$360^{\circ}$	Green	64 lm	1
0025112	LED Light Cable	3W	10.5V	0.48 A	$360^{\circ}$	Blue	23 lm	1
0025113	LED Light Cable	3W	11.0V	0.45 A	$360^{\circ}$	White	65 lm	1
<b>LED Power Supply</b>								
0025119	LED Light Cable Power Supply							1

# LED LAMP COLOURED ES50

**NEW**

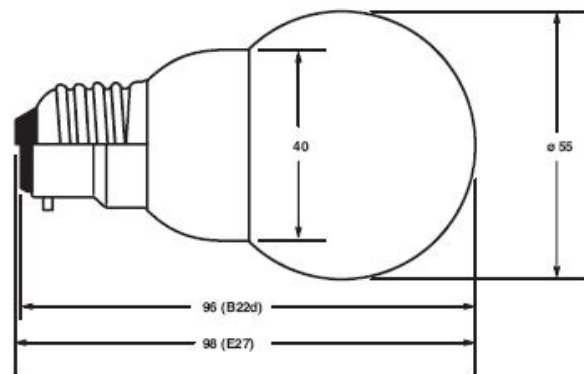


- Halogen retrofit, will fit into every GU10 / GZ10 socket.
- LED light appears much richer than the light from coloured halogen, fluorescent or HID lamps.
- Ideal for creating ambience atmosphere, in both domestic and semi-professional applications e.g. Hotel rooms, Restaurants, Bars, Furniture lighting etc.
- Life time of 25,000 hours, low maintenance cost.
- 1.5 Watt rating, cost very little to operate.
- No delay or run up time after switch-on.

Code	Description	Watt	Volt	LED Colour	Luminous Flux	Packaging Qty
0025121	LED GU10 White	1.5W	235V	White	18 lm	20
0025122	LED GU10 Blue	1.5W	235V	Blue	11 lm	20
0025125	LED GU10 Yellow	1.5W	235V	Yellow	11 lm	20
0025123	LED GU10 Red	1.5W	235V	Red	10 lm	20
0025124	LED GU10 Green	1.5W	235V	Green	22 lm	20

# LED A55 VARIABLE COLOR (HV)

**NEW**



- GLS retrofit will fit into every E27 & B22 Socket
- Colour changing ideal for creating ambience atmosphere, in Professional and domestic applications e.g. Bars, Christmas Trees, (Indoor) Parties Nurseries Nightlights etc.
- Will last an average lifetime of 25000 hours
- Works directly on mains voltage, no need for a separate transformer or electronic driver, all electronics incorporated.

Code	Description	Cap	Watt	Volt	LED Colour	Luminous Flux	Packaging Qty
0025127	7 COLOUR LED BALL	E27	0.7W	235V	Variable 7 - Colour	5 lm	10
0025135	7 COLOUR LED BALL	B22	0.7W	235V	Variable 7 - Colour	5 lm	10

**MICRO-LYNX® LAMPS**

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**MINI-LYNX® LAMPS**

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**MANUFACTURER'S LAMP CROSS REFERENCE**

Sylvania	Osram	Philips	GE
Micro-Lynx F	–	–	–
Mini-Lynx Long Life Double	DULUX EL	Master PL E-C	Electronic Biax ECO
Mini-Lynx Long Life Triple	DULUX EL	Master PL E-C	Electronic Biax ECO
Mini-Lynx Economy	DULUX EL ECONOMY	E Saver Genie	Electronic Biax Start
Mini-Lynx Globe	DULUX EL Globe	E Saver Softone Globe	Biax Elegance Globe
Mini-Lynx Ball	–	–	Biax Elegance Globe
Mini-Lynx Spiral	–	E Saver Tornado	Soft White Spiral
Mini-Lynx Automatic	DULUX EL SENSOR	Master PL E Automatic	–
Mini-Lynx Candle	DULUX EL CLASSIC	E Saver softone Candle	Biax Elegance Candle
Mini-Lynx Ambience	DULUX EL CLASSIC	PL-E Ambiance A Shape	Biax Elegance GLS
Lynx-S	DULUX S	Master PL-S 2 Pins	Biax S
Lynx-SE	DULUX S/E	Master PL-S 4 Pins	Biax SE
Lynx-D	DULUX D	Master PL-C 2 Pins	Biax D
Lynx-DE	DULUX D/E	Master PL-C 4 Pins	Biax DE
Lynx-T	DULUX T	Master PL-T 2 Pins	Biax T
Lynx-TE	DULUX T/E	Master PL-T 4 Pins	Biax TE
Lynx-L	DULUX L	Master PL-L 4 Pins	Biax L
Lynx-LE	DULUX L	Master PL-L 4 Pins	Biax L
Lynx-F	DULUX F	–	–

Compact fluorescent lamps are available in a wide range of shapes and formats to meet the growing need for compact, energy efficient and long lasting lamps, coupled with excellent colour rendering.

They are the result of traditional fluorescent lamp making skills which, when combined with an integral state-of-the-art electronic ballast and starter circuit, such as in **Mini-Lynx Fast-start**, create a range of retrofit lamps that will directly replace incandescent mains voltage filament lamps.

Compact fluorescent lamps are also available without integral ballast, for use in traditional magnetic ballast fixtures or in the new generation of high efficiency, electronic ballast, downlights and luminaires.



MICRO-LYNX® F



MINI-LYNX FAST-START®



MINI-LYNX® AMBIENCE

The **Lynx** range offers a comprehensive range of light source solutions for diverse applications – for example for use in downlights and luminaires for shops and offices, fast food chains, hotel and bar lighting schemes, signs or in low battery drain emergency lighting units.

Mini-Lynx and Lynx lamps share the common features of long life, high colour rendering and constant light output throughout their life.

Following the success of our well known **Micro-Lynx F** lamp, we are now proudly introducing a third generation which is Fast-Start with an increased average rated life of 8,000 hours. Also, an additional product Micro-Lynx Luna joins the family.



LYNX®-SE



LYNX®-T

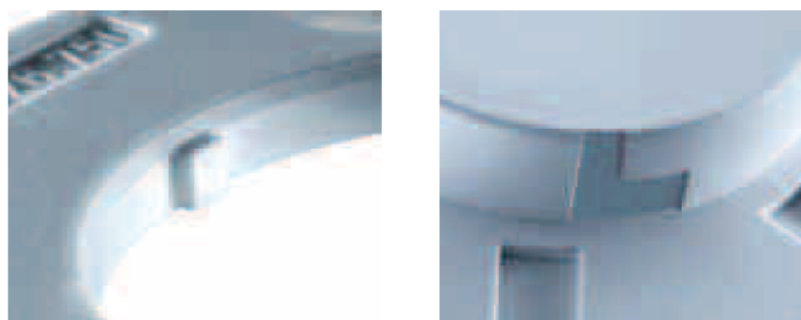


LYNX®-D

## Micro-Lynx® F Third Generation

Sylvania's ultra low profile Micro-Lynx F lamp with integral electronic ballast, 75mm diameter x 25mm depth, has undergone further improvement.

Micro-Lynx F, with excellent luminous efficacy operating at 6W whilst maintaining the 220 lumen output, now has extended it's average rated life from 6000 hours to a true 8000 hours. With the unique feature of "Fast-Start", Sylvania's Micro-Lynx® outperforms all similar products on the market.




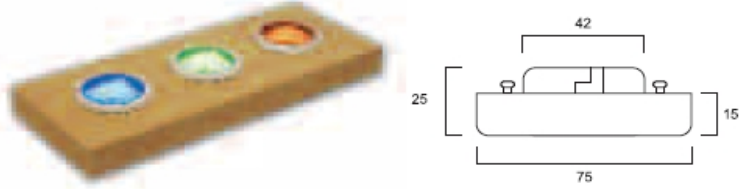



Integrated twist and lock safety key

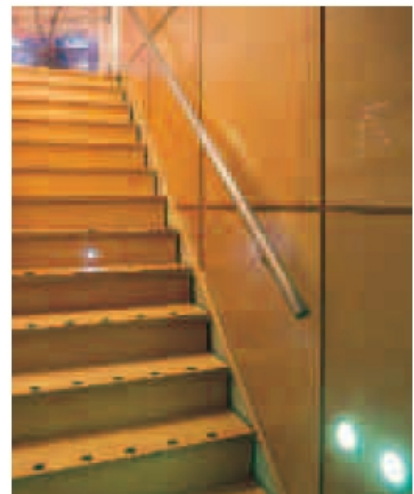
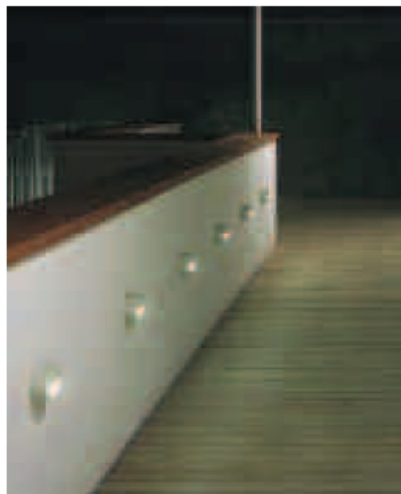
New to the Micro-Lynx® family is our Micro-Lynx Luna range. Apart from the easily applicable GX53 (IEC 60061) "twist-and-lock" base, it has an elegant and stylish cover which gives this lamp a much wider application area. Another remarkable feature of this range is the high switch cycle improved from 5000 to at least 30,000 switches, as well as it's 10,000 hours average rated life.

All our Micro-Lynx® family products are interchangeable universal burning units with built-in control gear, operating on mains supply input voltage 230-240V saving space and installation time.

Micro-Lynx® products are also available with state of the art technology LED with integrated electronic converter. Refer to LED section Page 70


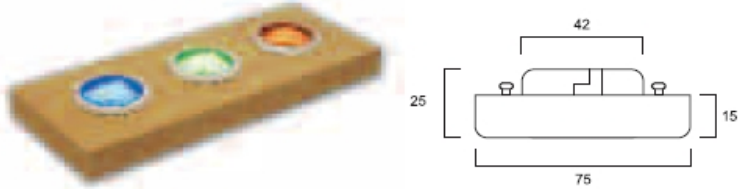



## Micro-Lynx® F Third Generation

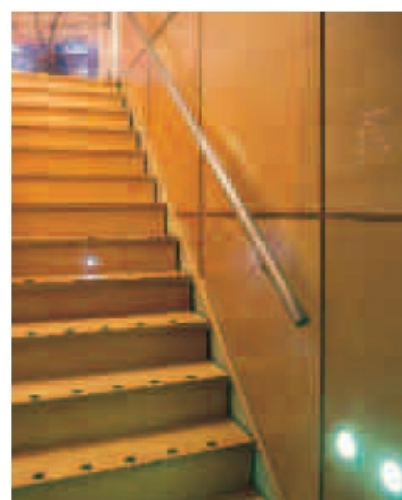
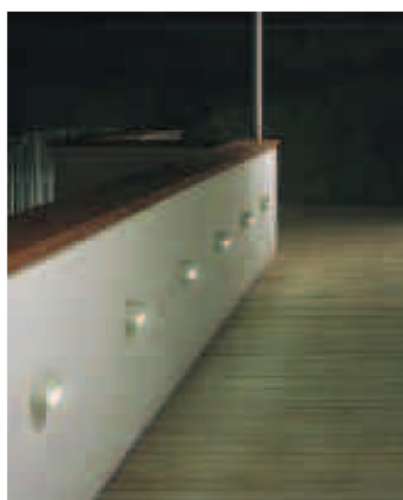
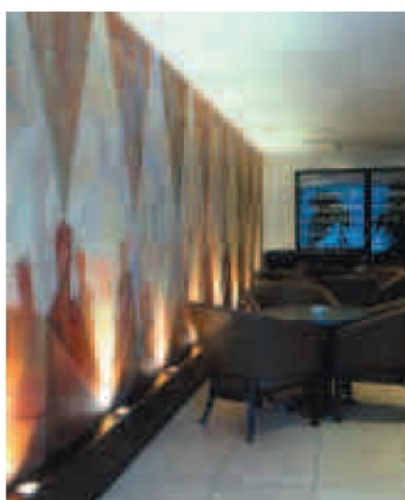
	 <p style="text-align: center;">GX53</p>
 	
	<ul style="list-style-type: none"> <li>● Fast start, lamps start immediately after switching on</li> <li>● Ultra compact size – 75mm wide x 25mm depth</li> <li>● Colour rendering – Ra85/Class 1B</li> <li>● Integrated twist and lock safety key</li> <li>● Integral electronic ballast</li> <li>● Also available in Red, Green and Blue</li> <li>● Average rated life: 8000 hours</li> </ul>



Code	Description	Watt	Cap	Colour	Colour Temp	Luminous Flux	Packing Qty
<b>Micro-Lynx F Homelight Deluxe (827)</b>							
0025214	Micro-Lynx F	6W	GX53	White	2700K	220 lm	20
<b>Micro-Lynx F Warm White Deluxe (830)</b>							
0025218	Micro-Lynx F	6W	GX53	White	3000K	220 lm	20
<b>Micro-Lynx F Cool White Deluxe (840)</b>							
0025219	Micro-Lynx F	6W	GX53	White	4000K	220 lm	20
<b>Micro-Lynx F Daylight Deluxe (860)</b>							
0025208	Micro-Lynx F	6W	GX53	White	6000K	220 lm	20
<b>Micro-Lynx F Colours</b>							
0025244	Micro-Lynx F	6W	GX53	Red		170 lm	20
0025245	Micro-Lynx F	6W	GX53	Green		310 lm	20
0025246	Micro-Lynx F	6W	GX53	Blue		110 lm	20

## Micro-Lynx® F Third Generation

	
 	
	<ul style="list-style-type: none"> <li>● Fast start, lamps start immediately after switching on</li> <li>● Ultra compact size – 75mm wide x 25mm depth</li> <li>● Colour rendering – Ra85/Class 1B</li> <li>● Integrated twist and lock safety key</li> <li>● Integral electronic ballast</li> <li>● Also available in Red, Green and Blue</li> <li>● Average rated life: 8000 hours</li> </ul>



Code	Description	Watt	Cap	Colour	Colour Temp	Luminous Flux	Packing Qty
<b>Micro-Lynx F Homelight Deluxe (827)</b>							
0025214	Micro-Lynx F	6W	GX53	White	2700K	220 lm	20
<b>Micro-Lynx F Warm White Deluxe (830)</b>							
0025218	Micro-Lynx F	6W	GX53	White	3000K	220 lm	20
<b>Micro-Lynx F Cool White Deluxe (840)</b>							
0025219	Micro-Lynx F	6W	GX53	White	4000K	220 lm	20
<b>Micro-Lynx F Daylight Deluxe (860)</b>							
0025208	Micro-Lynx F	6W	GX53	White	6000K	220 lm	20
<b>Micro-Lynx F Colours</b>							
0025244	Micro-Lynx F	6W	GX53	Red		170 lm	20
0025245	Micro-Lynx F	6W	GX53	Green		310 lm	20
0025246	Micro-Lynx F	6W	GX53	Blue		110 lm	20

# Mini-Lynx® Automatic

4

COMPACT FLUORESCENT

<table border="1"> <tr> <td><b>E27</b></td> <td><b>11W</b></td> <td><b>15W</b></td> </tr> <tr> <td>L</td> <td>138</td> <td>167</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> </tr> <tr> <td><b>B22</b></td> <td><b>11W</b></td> <td><b>15W</b></td> </tr> <tr> <td>L</td> <td>138</td> <td>165</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> </tr> </table>	<b>E27</b>	<b>11W</b>	<b>15W</b>	L	138	167	D	38	38	<b>B22</b>	<b>11W</b>	<b>15W</b>	L	138	165	D	38	38			
<b>E27</b>	<b>11W</b>	<b>15W</b>																			
L	138	167																			
D	38	38																			
<b>B22</b>	<b>11W</b>	<b>15W</b>																			
L	138	165																			
D	38	38																			
<ul style="list-style-type: none"> <li>• With its light sensitive, integral photocell, Mini-Lynx Automatic comes on automatically at dusk and goes off again at dawn</li> <li>• High lumen output</li> <li>• Compact dimensions</li> <li>• For professional and domestic use</li> <li>• Suitable for exterior lighting in covered luminaires</li> <li>• Average rated life: 12000 hours</li> </ul>																					


MINI-LYNX

85



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Automatic Homelight Deluxe (827)</b>						
0027760	11W/E27	11W	E27	2700K	600 lm	20
0027758	11W/B22	11W	B22	2700K	600 lm	20
0027764	15W/E27	15W	E27	2700K	900 lm	20
0027762	15W/B22	15W	B22	2700K	900 lm	20

## Mini-Lynx® Long Life Double



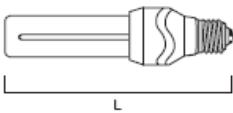
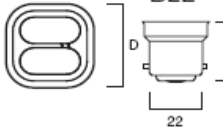
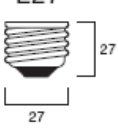
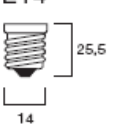
E14	5W	7W	11W	15W	20W
L	129	129	129	-	-
D	31	38	38	-	-



  

E27	5W	7W	11W	15W	20W
L	124	138	138	167	178
D	31	38	38	38	38

B22	5W	7W	11W	15W	20W
L	122	136	136	165	176
D	31	38	38	38	38

- Direct retrofit for most GLS lamps
- Integral electronic ballast
- High lumen output
- Available with E14, E27 or B22 cap
- Suitable for exterior security lighting in covered luminaires
- Average rated life: 15000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Long Life Double Homelight Deluxe (827)</b>						
0027701	7W/E14	7W	E14	2700K	400 lm	10
0025530	7W/E27	7W	E27	2700K	400 lm	20
0025531	7W/B22	7W	B22	2700K	400 lm	20
0025532	11W/E27	11W	E27	2700K	600 lm	20
0025533	11W/B22	11W	B22	2700K	600 lm	20
0025534	15W/E27	15W	E27	2700K	900 lm	20
0025535	15W/B22	15W	B22	2700K	900 lm	20
0025536	20W/E27	20W	E27	2700K	1250 lm	20
0025537	20W/B22	20W	B22	2700K	1250 lm	20
<b>Mini-Lynx Long Life Double Cool White Deluxe (840)</b>						
0025560	7W/E27	7W	E27	4000K	400lm	20
0025561	11W/E27	11W	E27	4000K	600 lm	20
0025562	15W/E27	15W	E27	4000K	900lm	20
0025563	20W/E27	20W	E27	4000K	1250lm	20
<b>Mini-Lynx Long Life Double Daylight Deluxe (860)</b>						
0025504	7W/E27	7W	E27	6000K	400 lm	20
0025930	7W/B22	7W	B22	6000K	400 lm	20
0025505	11W/E27	11W	E27	6000K	600 lm	20
0025506	15W/E27	15W	E27	6000K	900 lm	20
0025507	20W/E27	20W	E27	6000K	1250 lm	20

# Mini-Lynx® Long Life Triple

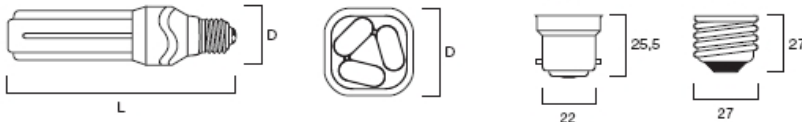
4

COMPACT FLUORESCENT

MINI-LYNX

87

<b>E27</b>	15W	20W	23W
L	137	155	166
D	50	50	50
<b>B22</b>	15W	20W	23W
L	135	153	164
D	50	50	50


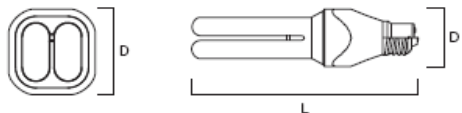
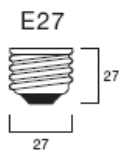
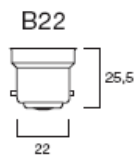





- Integral electronic ballast
- High lumen output
- Small compact dimensions
- Available with E27 or B22 cap
- Suitable for exterior security lighting in covered luminaires
- Average rated life: 15000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Long Life Triple Homelight Deluxe (827)</b>						
0027600	15W/E27	15W	E27	2700K	900 lm	10
0027606	15W/B22	15W	B22	2700K	900 lm	10
0027601	20W/E27	20W	E27	2700K	1250 lm	10
0027607	20W/B22	20W	B22	2700K	1250 lm	10
0027602	23W/E27	23W	E27	2700K	1500 lm	10
0027608	23W/B22	23W	B22	2700K	1500 lm	10
<b>Mini-Lynx Long Life Triple Daylight Deluxe (860)</b>						
0027612	15W/E27	15W	E27	6000K	900 lm	10
0027624	15W/B22	15W	B22	6000K	900 lm	10
0027613	20W/E27	20W	E27	6000K	1250 lm	10
0027625	20W/B22	20W	B22	6000K	1250 lm	10
0027614	23W/E27	23W	E27	6000K	1500 lm	10
0027626	23W/B22	23W	B22	6000K	1500 lm	10

## Mini-Lynx® Economy Double

	<table border="1"> <tr> <th>E27</th> <th>9W</th> <th>11W</th> <th>15W</th> <th>18W</th> </tr> <tr> <td>L</td> <td>138</td> <td>138</td> <td>167</td> <td>178</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> </tr> <tr> <th>B22</th> <th>9W</th> <th>11W</th> <th>15W</th> <th>18W</th> </tr> <tr> <td>L</td> <td>136</td> <td>136</td> <td>165</td> <td>176</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>38</td> <td>38</td> </tr> </table>	E27	9W	11W	15W	18W	L	138	138	167	178	D	38	38	38	38	B22	9W	11W	15W	18W	L	136	136	165	176	D	38	38	38	38			
	E27	9W	11W	15W	18W																													
L	138	138	167	178																														
D	38	38	38	38																														
B22	9W	11W	15W	18W																														
L	136	136	165	176																														
D	38	38	38	38																														
 		<ul style="list-style-type: none"> <li>• Cost effective range of energy saving lamps</li> <li>• Integral electronic ballast</li> <li>• High lumen output</li> <li>• Small dimensions</li> <li>• Direct retrofit for GLS lamps</li> <li>• Average rated life: 8000 hours</li> </ul>																																

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Economy Double Homelight Deluxe (827)</b>						
0026260	9W/E27	9W	E27	2700K	490 lm	20
0026270	9W/B22	9W	B22	2700K	490 lm	20
0026261	11W/E27	11W	E27	2700K	600 lm	20
0026271	11W/B22	11W	B22	2700K	600 lm	20
0026262	15W/E27	15W	E27	2700K	900 lm	20
0026272	15W/B22	15W	B22	2700K	900 lm	20
0026263	18W/E27	18W	E27	2700K	1080 lm	20
0026273	18W/B22	18W	B22	2700K	1080 lm	20
<b>Mini-Lynx Economy Double Cool White Deluxe (840)</b>						
0026440	9W/E27	9W	E27	4000K	490 lm	20
0026441	11W/E27	11W	E27	4000K	600 lm	20
0026442	15W/E27	15W	E27	4000K	900 lm	20
0026443	18W/E27	18W	E27	4000K	1080 lm	20
<b>Mini-Lynx Economy Double Daylight Deluxe (860)</b>						
0026444	9W/E27	9W	E27	6000K	490 lm	20
0026445	11W/E27	11W	E27	6000K	600 lm	20
0026446	15W/E27	15W	E27	6000K	900 lm	20
0026447	18W/E27	18W	E27	6000K	1080 lm	20


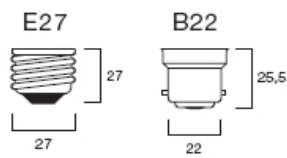



# Mini-Lynx® Economy Triple

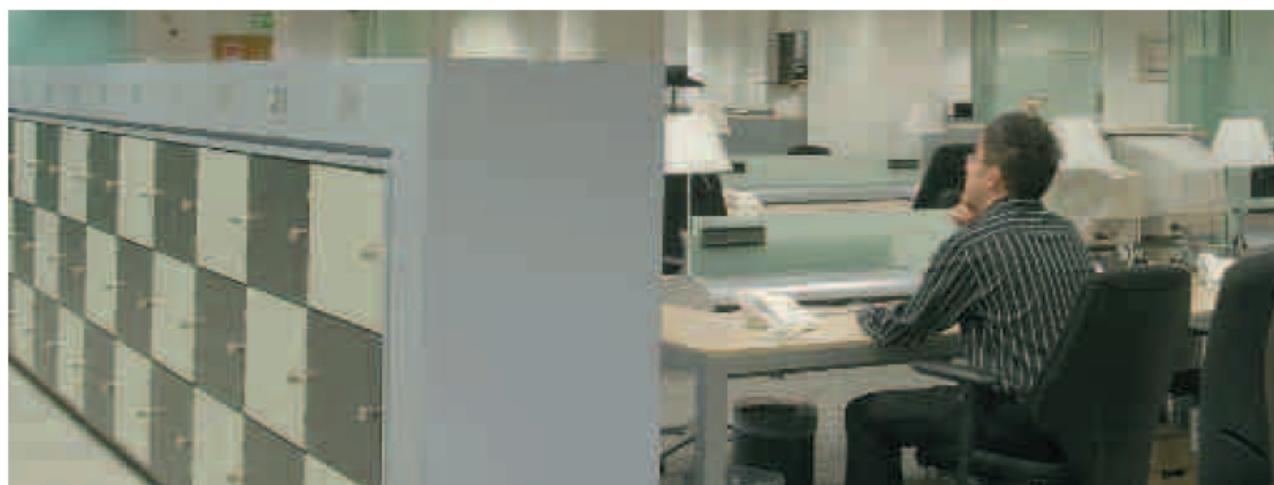
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COMPACT FLUORESCENT

MINI-LYNX


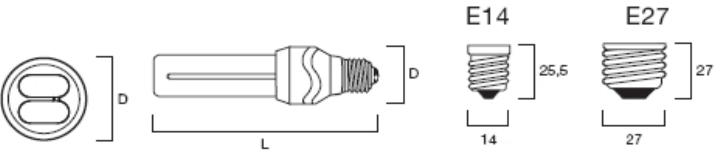


89

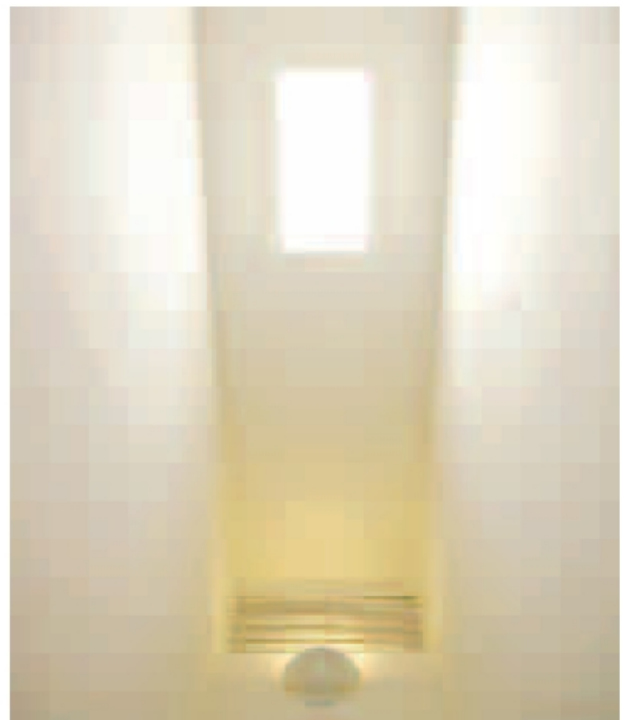
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<b>E27</b>	15W	20W	23W																								
L	140	158	169																								
D	57	57	57																								
<b>B22</b>	15W	20W	23W																								
L	138	156	167																								
D	57	57	57																								
																											
<ul style="list-style-type: none"> <li>• Cost effective range of energy saving lamps</li> <li>• Integral electronic ballast</li> <li>• High lumen output</li> <li>• Small dimensions</li> <li>• Available with E27 or B22 cap</li> <li>• Average rated life: 8000 hours</li> </ul>																											



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Economy Triple Homelight Deluxe (827)</b>						
0027260	15W/E27	15W	E27	2700K	900 lm	10
0027262	15W/B22	15W	B22	2700K	900 lm	10
0027261	20W/E27	20W	E27	2700K	1250 lm	10
0027263	20W/B22	20W	B22	2700K	1250 lm	10
0027268	23W/E27	23W	E27	2700K	1500 lm	10
0027269	23W/B22	23W	B22	2700K	1500 lm	10
<b>Mini-Lynx Economy Triple Cool White Deluxe (840)</b>						
0027266	15W/E27	15W	E27	4000K	900 lm	10
0027267	20W/E27	20W	E27	4000K	1250 lm	10
0027271	23W/E27	23W	E27	4000K	1500 lm	10

## Mini-Lynx® Economy Double T3

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E14	7W												
L	126												
D	40												
E27	9W 11W												
L	133 143												
D	40 40												
													
	<ul style="list-style-type: none"> <li>• Cost effective range of energy saving lamps</li> <li>• Integral electronic ballast</li> <li>• Equipped with double T3 size burner</li> <li>• Direct retrofit for GLS lamps</li> <li>• Available in 7W, 9W and 11W (7W blister pack only)</li> <li>• Average rated life: 6000 hours</li> </ul>												

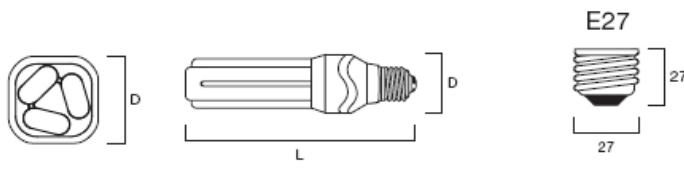





Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Economy Double T3 Homelight Deluxe (827)</b>						
0024935	7W/E14	7W	E14	2700K	350 lm	10 Blister Pack
0024950	9W/E27	9W	E27	2700K	425 lm	10
0024951	11W/E27	11W	E27	2700K	550 lm	10

# Mini-Lynx® Economy Triple T3

4

COMPACT FLUORESCENT

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E27	15W	18W								
L	149	154								
D	45	45								
<ul style="list-style-type: none"> <li>• Cost effective range of energy saving lamps</li> <li>• Integral electronic ballast</li> <li>• Equipped with triple T3 size burner</li> <li>• Direct retrofit for GLS lamps</li> <li>• Available in 15W and 18W</li> <li>• Average rated life: 6000 hours</li> </ul>										

MINI-LYNX

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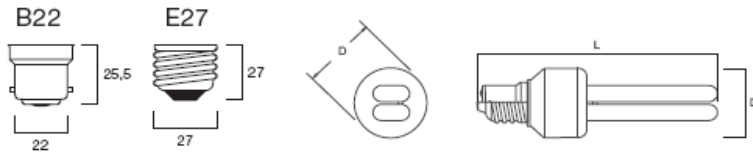
Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Economy Triple T3 Homelight Deluxe (827)</b>						
0024952	15W/E27	15W	E27	2700K	800 lm	10
0024953	18W/E27	18W	E27	2700K	1025 lm	10

## Mini-Lynx® Standard

NEW



<b>E27</b>	15W	20W
L	169	168
D	47	52
<b>B22</b>	15W	20W
L	171	166
D	47	52



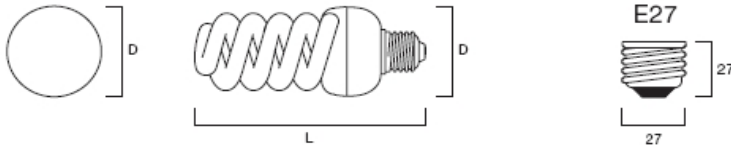
universal



- Cost effect range of energy saving lamps
- Integral electronic ballast
- Available with E27 or B 22 cap
- Direct retrofit for GLS Lamps
- Average rated life 5000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Standard Homeligt Deluxe (827)</b>						
0024912	15W/E27	15W	E27	2700K	900 lm	50
0024902	15W/B22	15W	B22	2700K	900 lm	50
0024916	20W/E27	20W	E27	2700K	1200 lm	50
0024903	20W/B22	20W	B22	2700K	1200 lm	50
0024917	23W/E27	23W	E27	2700K	1500 lm	50
0024904	23W/B22	23W	B22	2700K	1500 lm	50
<b>Mini-Lynx Standard Cool White Deluxe (840)</b>						
0024918	15W/E27	15W	E27	4000K	900 lm	50
0024919	20W/E27	20W	E27	4000K	1200 lm	50
0024915	23W/E27	23W	E27	4000K	1500 lm	50

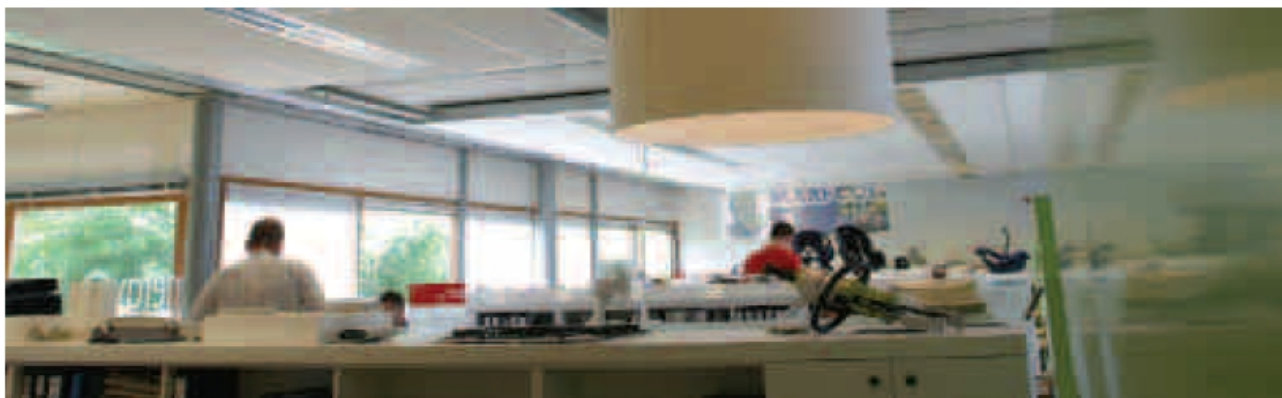
E27	11W	13W	15W	20W
L	110	115	115	130
D	50	50	50	50



universal


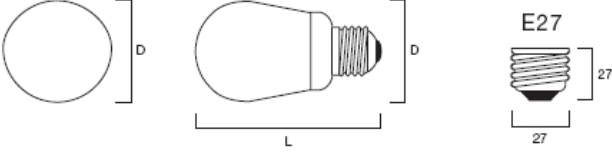



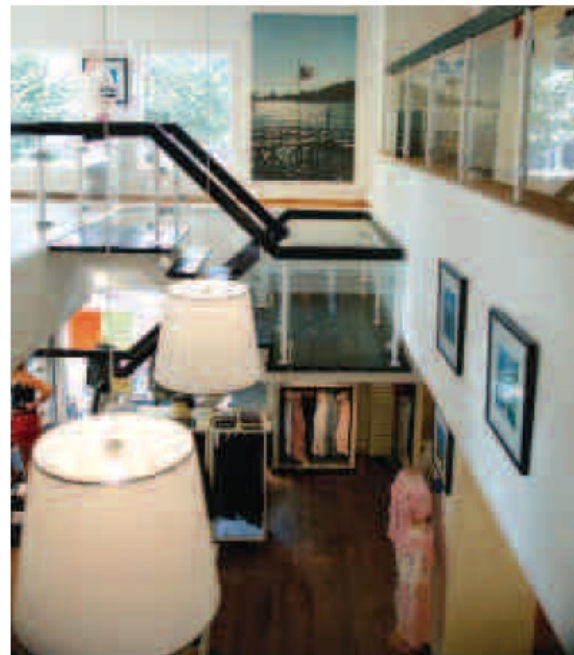
- Spiral shaped energy saving lamp
- Very compact dimensions (Ice cream Shape)
- Direct retrofit for GLS lamps
- Integral electronic ballast
- Average rated life: 6000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Spiral Homelight Deluxe (827)</b>						
0024809	11W/827	11W	E27	2700K	600 lm	10
0024803	13W/827	13W	E27	2700K	725 lm	10
0024804	15W/827	15W	E27	2700K	850 lm	10
0024807	20W/827	20W	E27	2700K	950 lm	10
<b>Mini-Lynx Spiral Cool White Deluxe (840)</b>						
0024801	11W/840	11W	E27	4000K	600 lm	10
0024805	15W/840	15W	E27	4000K	850 lm	10
0024808	20W/840	20W	E27	4000K	950 lm	10
<b>Mini-Lynx Spiral Daylight Deluxe (865)</b>						
0024802	11W/865	11W	E27	6500K	600 lm	10
0024810	13W/865	13W	E27	6500K	725 lm	10
0024806	15W/865	15W	E27	6500K	850 lm	10
0024821	20W/865	20W	E27	6500K	950 lm	10

## Mini-Lynx® Ambience

	<table border="1"> <thead> <tr> <th>E27</th> <th>7W</th> <th>11W</th> <th>15W</th> <th>20W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>116</td> <td>127</td> <td>145</td> <td>151</td> </tr> <tr> <td>D</td> <td>60</td> <td>60</td> <td>72</td> <td>75</td> </tr> </tbody> </table>	E27	7W	11W	15W	20W	L	116	127	145	151	D	60	60	72	75
	E27	7W	11W	15W	20W											
L	116	127	145	151												
D	60	60	72	75												
																
	<ul style="list-style-type: none"> <li>• Lasts up to 6 times longer, using 80% less energy than incandescent GLS lamp</li> <li>• An energy saving lamp that looks like an incandescent GLS lamp</li> <li>• Integral electronic ballast</li> <li>• Soft glow natural light</li> <li>• Direct replacement for incandescent lamps</li> <li>• Average rated life: 6000 hours</li> </ul>															



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Ambience Homelight Deluxe (827)</b>						
0024961	7W/E27	7W	E27	2700K	360 lm	10
0024962	11W/E27	11W	E27	2700K	550 lm	10
0024963	15W/E27	15W	E27	2700K	820 lm	10
0024964	20W/E27	20W	E27	2700K	1100 lm	10

# Mini-Lynx® Ball

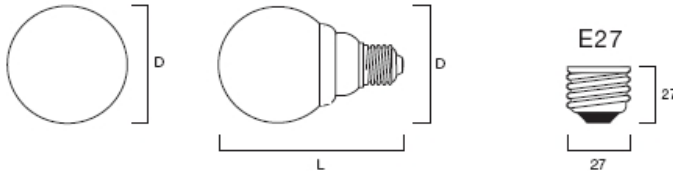
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COMPACT FLUORESCENT

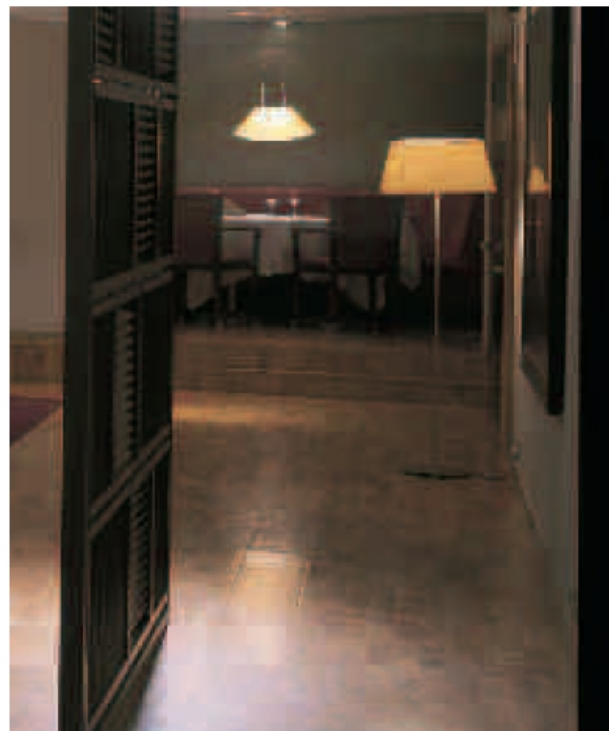
MINI-LYNX

95

E27	5W	7W	9W
L	113	113	124
D	70	70	80


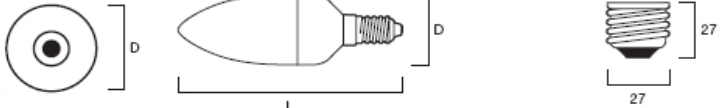
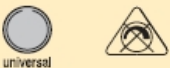


- Ball shaped energy saving lamp
- Equipped with spiral burner for even illumination of the ball
- High lumen output
- Direct retrofit for GLS lamps
- Available in blister pack only
- Average rated life: 6000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Ball</b>	<b>Homelight Deluxe (827)</b>					
0024941	5W/827	5W	E27	2700K	250 lm	10 Blister Pack
0024942	7W/827	7W	E27	2700K	350 lm	10 Blister Pack
0024943	9W/827	9W	E27	2700K	425 lm	10 Blister Pack

## Mini-Lynx® Candle

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E14	5W	7W								
L	131	131								
D	40	40								
	<ul style="list-style-type: none"> <li>● Lasts up to 6 times longer, using up to 80% less energy than incandescent candle lamps</li> <li>● An energy saving lamp that looks like an incandescent lamp</li> <li>● Integral electronic ballast</li> <li>● Soft glow natural light</li> <li>● Direct replacement for incandescent candle lamps</li> <li>● Average rated life: 6000 hours</li> </ul>									



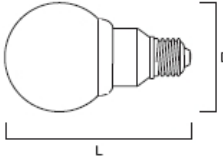
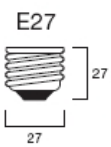




Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
	<b>Mini-Lynx Candle Homelight Deluxe (827)</b>					
0025501	5W/E14	5W	E14	2700K	125 lm	10
0026466	7W/E14	7W	E14	2700K	200 lm	10

# Mini-Lynx® Globe

4

COMPACT FLUORESCENT

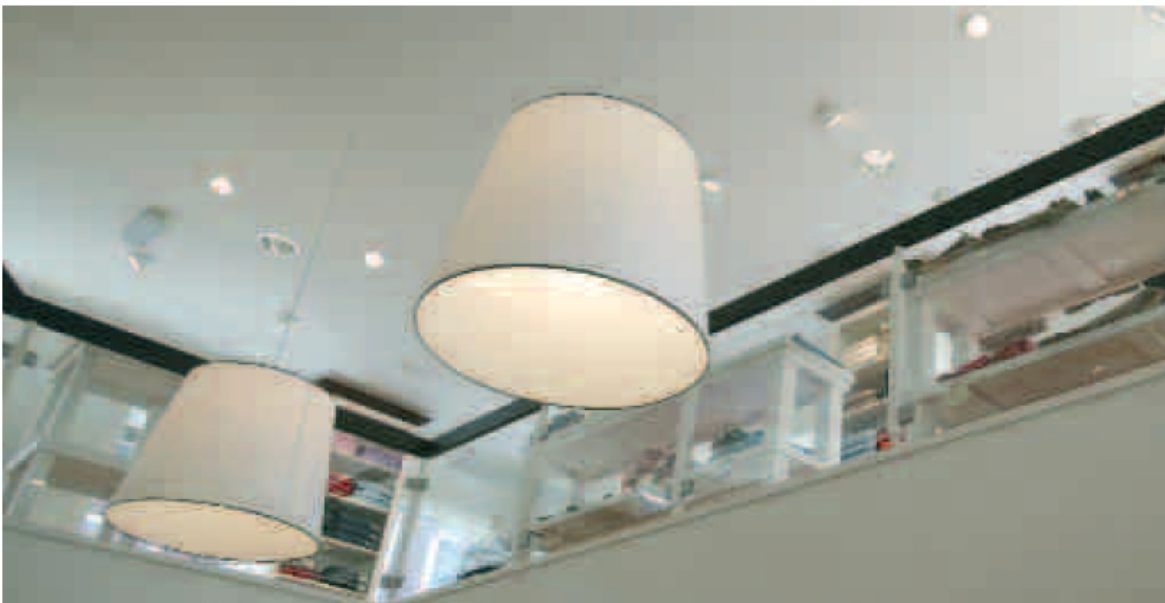
E27	11W	15W	20W	24W
L	137	160	158	180
D	80	100	95	120

- Globe shaped energy saving lamp
- Equipped with spiral burner for even illumination of the globe
- High lumen output
- Direct retrofit for GLS lamps
- Average rated life: 6000 hours

MINI-LYNX


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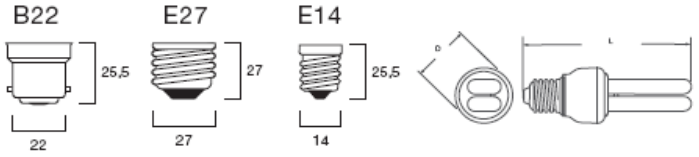
Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Globe</b>	<b>Homelight Deluxe (827)</b>					
0025418	11W/827	11W	E27	2700K	350 lm	10
0024966	15W/827	15W	E27	2700K	700 lm	10
0024965	20W/827	20W	E27	2700K	950 lm	10
0025401	24W/827	24W	E27	2700K	1200 lm	10




## Mini-Lynx® Fast-Start

NEW



E14	5W	7W	9W	11W	15W	18W	20W	23W
L	97	107	91	95	-	-	-	-
D	37	37	48	48	-	-	-	-
E27	5W	7W	9W	11W	15W	18W	20W	23W
L	94	104	88	92	112	120	132	145
D	37	37	37	37	37	37	37	37
B22	5W	7W	9W	11W	15W	18W	20W	23W
L	-	-	88	92	112	120	132	145
D	-	-	37	37	37	37	37	37



- Fast Start (with no switch delay)
- 80% energy savings, compared to standard incandescent light bulbs
- Very small dimensions, compared to standard incandescent light bulbs
- Available in a variety of colours - Homelight, Coolwhite and Daylight - and in a wide range of wattages.



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Mini-Lynx Fast-Start Homelight Deluxe (827)</b>						
0024722	5W/E14	5W	E14	2700K	225 lm	10 Sleeve
0024725	5W/E27	5W	E27	2700K	225 lm	10 Sleeve
0024734	7W/E14	7W	E14	2700K	325 lm	10 Sleeve
0024737	7W/E27	7W	E27	2700K	325 lm	10 Sleeve
0024746	9W/E14	9W	E14	2700K	450 lm	10 Sleeve
0024749	9W/E27	9W	E27	2700K	450 lm	10 Sleeve
0024750	9W/B22	9W	B22	2700K	450 lm	10 Sleeve
0024759	11W/E14	11W	E14	2700K	575 lm	10 Sleeve
0024762	11W/E27	11W	E27	2700K	575 lm	10 Sleeve
0024763	11W/B22	11W	B22	2700K	575 lm	10 Sleeve

**NEW****Mini-Lynx® Fast-Start**

4



COMPACT FLUORESCENT

MINI-LYNX

99

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
0024772	15W/E27	15W	E27	2700K	850 lm	10 Sleeve
0024773	15W/B22	15W	B22	2700K	850 lm	10 Sleeve
0024779	18W/E27	18W	E27	2700K	1100 lm	10 Sleeve
0024780	18W/B22	18W	B22	2700K	1100 lm	10 Sleeve
0024786	20W/E27	20W	E27	2700K	1100 lm	10 Sleeve
0024787	20W/B22	20W	B22	2700K	1100 lm	10 Sleeve
0024793	23W/E27	23W	E27	2700K	1325 lm	10 Sleeve
0024794	23/B22	23W	B22	2700K	1325 lm	10 Sleeve
<b>Mini-Lynx Fast-Start Cool White Deluxe (840)</b>						
0024735	7W/E14	7W	E14	4000K	325 lm	10 Sleeve
0024747	9W/E14	9W	E14	4000K	450 lm	10 Sleeve
0024751	9W/E27	9W	E27	4000K	450 lm	10 Sleeve
0024760	11W/E14	11W	E14	4000K	575 lm	10 Sleeve
0024764	11W/E27	11W	E27	4000K	575 lm	10 Sleeve
0024774	15W/E27	15W	E27	4000K	850 lm	10 Sleeve
0024781	18W/E27	18W	E27	4000K	1100 lm	10 Sleeve
0024788	20W/E27	20W	E27	4000K	1200 lm	10 Sleeve
0024795	23W/E27	23W	E27	4000K	1325 lm	10 Sleeve
<b>Mini-Lynx Fast-Start Daylight Deluxe (860)</b>						
0024761	11W/E14	11W	E14	6000K	575 lm	10 Sleeve
0024765	11W/E27	11W	E27	6000K	575 lm	10 Sleeve
0024775	15W/E27	15W	E27	6000K	850 lm	10 Sleeve
0024782	18W/E27	18W	E27	6000K	1100 lm	10 Sleeve
0024789	20W/E27	20W	E27	6000K	1200 lm	10 Sleeve
0024796	23W/E27	23W	E27	6000K	1325 lm	10 Sleeve

## Mini-Lynx® Compact Fast-Start

	<table border="1"> <thead> <tr> <th>E14</th> <th>7W</th> <th>9W</th> <th>11W</th> <th>15W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>92</td> <td>97</td> <td>-</td> <td>-</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>-</td> <td>-</td> </tr> <tr> <th>E27</th> <td>L</td> <td>92</td> <td>97</td> <td>100</td> <td>117</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>38</td> <td>43</td> </tr> <tr> <th>B22</th> <td>L</td> <td>-</td> <td>-</td> <td>102</td> <td>115</td> </tr> <tr> <td>D</td> <td>-</td> <td>-</td> <td>38</td> <td>43</td> </tr> </tbody> </table>	E14	7W	9W	11W	15W	L	92	97	-	-	D	38	38	-	-	E27	L	92	97	100	117	D	38	38	38	43	B22	L	-	-	102	115	D	-	-	38	43
	E14	7W	9W	11W	15W																																	
L	92	97	-	-																																		
D	38	38	-	-																																		
E27	L	92	97	100	117																																	
D	38	38	38	43																																		
B22	L	-	-	102	115																																	
D	-	-	38	43																																		
																																						
<ul style="list-style-type: none"> <li>● Smallest Fast-Start energy saving lamps on the market</li> <li>● Compact dimensions</li> <li>● Instant flicker-free start and delivers utmost brightness instantly</li> <li>● 80% cost-savings, compared to standard incandescent lamps</li> <li>● Integral electronic ballast</li> <li>● Direct retrofit for Incandescent</li> <li>● High lumen output</li> <li>● Can be used in almost any light fixture of your choice</li> <li>● Average rated life: 6000 hours</li> <li>● Available in a variety of colours - Homelight, Cool White and Daylight - and in a wide range of wattages</li> </ul>																																						

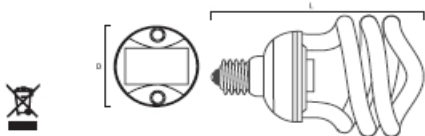
Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packaging Qty	Packing Type
<b>Mini-Lynx Compact Fast-Start Homelight Deluxe (827)</b>							
0031001	5W/E14/827	5	E14	2700K	250	10	Sleeve
0031003	5W/E27/827	5	E27	2700K	250	10	Sleeve
0031019	7W/E14/827	7	E14	2700K	300	10	Sleeve
0031021	7W/E27/827	7	E27	2700K	300	10	Sleeve
0031023	9W/E14/827	9	E14	2700K	405	10	Sleeve
0031025	9W/E27/827	9	E27	2700K	405	10	Sleeve
0031029	11W/E27/827	11	E27	2700K	450	10	Sleeve
0031031	11W/B22/827	11	B22	2700K	450	10	Sleeve
0031037	15W/E27/827	15	E27	2700K	725	10	Sleeve
0031039	15W/B22/827	15	B22	2700K	725	10	Sleeve
<b>Mini-Lynx Compact Fast-Start Cool White Deluxe (840)</b>							
0031027	9W/E27/840	9	E27	4000K	405	10	Sleeve
0031033	11W/E27/840	11	E27	4000K	450	10	Sleeve
0031041	15W/E27/840	15	E27	4000K	725	10	Sleeve
<b>Mini-Lynx Compact Fast-Start Daylight Deluxe (860)</b>							
0031035	11W/E27/860	11	E27	6000K	450	10	Sleeve
0031117	15W/E27/860	15	E27	6000K	725	10	Sleeve

# Mini-Lynx® Compact Fast-Start

4

COMPACT FLUORESCENT

E14	8W	12W	15W
L	92	-	-
D	40	-	-
E27			
L	92	97	117
D	40	40	40
B22			
L	-	95	115
D	-	40	40



- Smallest Fast-Start energy saving lamps on the market
- Compact dimensions
- Instant flicker-free start and delivers utmost brightness instantly
- 80% cost-savings, compared to standard incandescent lamps
- Integral electronic ballast
- Direct retrofit for Incandescent
- High lumen output
- Can be used in almost any light fixture of your choice
- Average rated life: 6000 hrs
- Available in a variety of colours - Homelight and Cool White - and in a range of wattages


MINI-LYNX

101

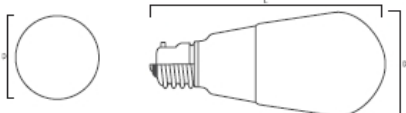


Code	Description	Watt	Cap	Color Temp	Luminous Flux	Packing Qty	Packing Type
<b>Mini-Lynx Compact Fast-Start Homelight Deluxe (827)</b>							
0031005	8W/E14/827	8	E14	2700K	460	10	Sleeve
0031007	8W/E27/827	8	E27	2700K	460	10	Sleeve
0031009	12W/E27/827	12	E27	2700K	650	10	Sleeve
0031011	12W/B22/827	12	B22	2700K	650	10	Sleeve
0031013	15W/E27/827	15	E27	2700K	815	10	Sleeve
0031015	15W/B22/827	15	B22	2700K	815	10	Sleeve
<b>Mini-Lynx Compact Fast-Start Cool White Deluxe (840)</b>							
0031017	15W/E27/840	15	E27	4000K	815	10	Sleeve


## Mini-Lynx® Compact GLS



<b>E27</b>	15W	18W
L	130	130
D	60	60
<b>B22</b>		
L	128	128
D	60	60

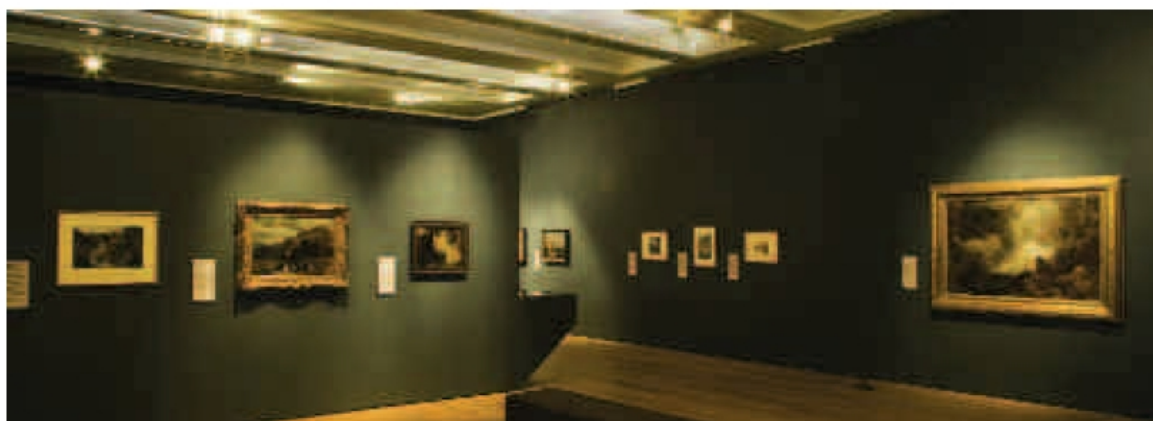


universal



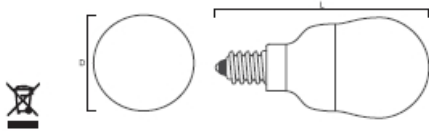
- Direct Retrofit for Incandescent
- Smart alternative to standard incandescent lamp
- Compact dimensions
- Shorter Preheating time.
- Provide flicker-free start and delivers utmost brightness instantly
- 80% cost-saving, compared to standard incandescent lamps
- Integral electronic ballast
- Average rated life: 6000 hours
- Can be used in almost any light fitting of your choice
- Available in a variety of colours - Homelight and Cool White - and in a range of wattages.

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Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packaging Qty	Packing Type
<b>Mini-Lynx Compact GLS Homelight Deluxe (827)</b>							
0024961	7W/E27/827	7	E27	2700K	360	10	Sleeve
0024962	11W/E27/827	11	E27	2700K	550	10	Sleeve
0031071	11W/B22/827	11	B22	2700K	550	10	Sleeve
0031073	15W/E27/827	15	E27	2700K	825	10	Sleeve
0031075	15W/B22/827	15	B22	2700K	825	10	Sleeve
0031079	18W/E27/827	18	E27	2700K	940	10	Sleeve
0031081	18W/B22/827	18	B22	2700K	940	10	Sleeve
0031070	22W/E27/827	22	E27	2700K	1150	10	Sleeve
<b>Mini-Lynx Compact GLS Cool White Deluxe (840)</b>							
0024988	11W/E27/840	11	E27	4000K	550	10	Sleeve
0031077	15W/E27/840	15	E27	4000K	825	10	Sleeve
0031083	18W/E27/840	18	E27	4000K	940	10	Sleeve

<b>E14</b>	<b>5W</b>	<b>7W</b>
L	89	-
D	45	-
<b>E27</b>		
L	-	89
D	-	45
<b>B22</b>		
L	-	83
D	-	45




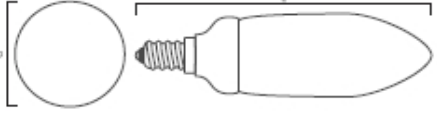


- Direct Retrofit for Incandescent
- Smart alternative to standard incandescent lamp
- Compact dimensions
- Shorter Preheating time.
- Provide flicker-free start and delivers utmost brightness instantly
- 80% cost-saving, compared to standard incandescent lamps
- Integral electronic ballast
- Average rated life: 6000 hours
- Can be used in almost any light fitting of your choice
- Available in a variety of colours - Homelight and Cool White - and in a range of wattages.



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packaging Qty	Packing Type
<b>Mini-Lynx Compact Ball Homelight Deluxe (827)</b>							
0031055	5W/E14/827	5	E14	2700K	160	10	Sleeve
0031118	7W/E14/827	7	E14	2700K	260	10	Sleeve
0031057	7W/E27/827	7	E27	2700K	260	10	Sleeve
0031059	7W/B22/827	7	B22	2700K	260	10	Sleeve
0031061	9W/E14/827	9	E14	2700K	385	10	Sleeve
0031063	9W/E27/827	9	E27	2700K	385	10	Sleeve
0031065	9W/B22/827	9	B22	2700K	385	10	Sleeve
<b>Mini-Lynx Compact Ball Cool White Deluxe (840)</b>							
0031116	9W/E14/840	9	E14	4000K	385	10	Sleeve
0031064	9W/E27/840	9	E27	4000K	385	10	Sleeve

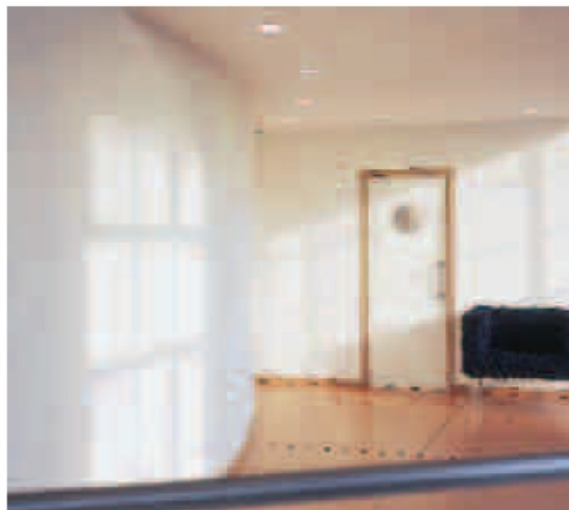
## Mini-Lynx® Compact Candle

	<table border="1"> <thead> <tr> <th>E14</th> <th>5W</th> <th>7W</th> <th>9W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>100</td> <td>89</td> <td>111</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>38</td> </tr> <tr> <th colspan="4">E27</th> </tr> <tr> <td>L</td> <td>89</td> <td>-</td> <td>111</td> </tr> <tr> <td>D</td> <td>38</td> <td>-</td> <td>38</td> </tr> <tr> <th colspan="4">B22</th> </tr> <tr> <td>L</td> <td>87</td> <td>-</td> <td>109</td> </tr> <tr> <td>D</td> <td>38</td> <td>-</td> <td>38</td> </tr> </tbody> </table>	E14	5W	7W	9W	L	100	89	111	D	38	38	38	E27				L	89	-	111	D	38	-	38	B22				L	87	-	109	D	38	-	38
		E14	5W	7W	9W																																
L	100	89	111																																		
D	38	38	38																																		
E27																																					
L	89	-	111																																		
D	38	-	38																																		
B22																																					
L	87	-	109																																		
D	38	-	38																																		
 																																					
<ul style="list-style-type: none"> <li>● Direct Retrofit for Incandescent</li> <li>● Smart alternative to standard incandescent lamp</li> <li>● Compact dimensions</li> <li>● Shorter Preheating time.</li> <li>● Provide flicker-free start and delivers utmost brightness instantly</li> <li>● 80% cost-saving, compared to standard incandescent lamps</li> <li>● Integral electronic ballast</li> <li>● Average rated life: 6000 hours</li> <li>● Can be used in almost any light fitting of your choice</li> <li>● Available in a variety of colours - Homelight and Cool White - and in a range of wattages.</li> </ul>																																					




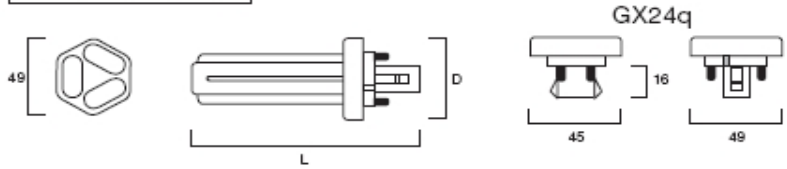


Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packaging Qty	Packing Type
<b>Mini-Lynx Compact Candle Homelight Deluxe (827)</b>							
0031085	5W/E14/827	5	E14	2700K	150	10	Sleeve
0031089	7W/E14/827	7	E14	2700K	240	10	Sleeve
0031091	7W/E27/827	7	E27	2700K	240	10	Sleeve
0031093	7W/B22/827	7	B22	2700K	240	10	Sleeve
0031095	9W/E14/827	9	E14	2700K	320	10	Sleeve
0031097	9W/E27/827	9	E27	2700K	320	10	Sleeve
0031102	9W/B22/827	9	B22	2700K	320	10	Sleeve
<b>Mini-Lynx Compact Candle Cool White Deluxe (840)</b>							
0031087	5W/E14/840	5	E14	4000K	150	10	Sleeve
0031099	9W/E27/840	9	E27	4000K	320	10	Sleeve
0031101	9W/E14/840	9	E14	4000K	320	10	Sleeve
0031103	9W/B22/840	9	B22	4000K	320	10	Sleeve

<table border="1"> <tr> <td>GX24d</td> <td>18W</td> <td>26W</td> </tr> <tr> <td>L</td> <td>97</td> <td>112</td> </tr> <tr> <td>D</td> <td>49</td> <td>49</td> </tr> </table>	GX24d	18W	26W	L	97	112	D	49	49	
GX24d	18W	26W								
L	97	112								
D	49	49								
<ul style="list-style-type: none"> <li>• Multi-limbed compact fluorescent lamps</li> <li>• Excellent colour rendering – Ra85/Class 1B</li> <li>• For use with magnetic ballast</li> <li>• Average rated life: 15000 hours</li> </ul>										



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-T Homelight Deluxe (827)</b>						
0027800	18W/827	18W	GX24d-2	2700K	1200 lm	10
0027810	26W/827	26W	GX24d-3	2700K	1800 lm	10
<b>Lynx-T Warm White Deluxe (830)</b>						
0027801	18W/830	18W	GX24d-2	3000K	1200 lm	10
0027811	26W/830	26W	GX24d-3	3000K	1800 lm	10
<b>Lynx-T Cool White Deluxe (840)</b>						
0027802	18W/840	18W	GX24d-2	4000K	1200 lm	10
0027812	26W/840	26W	GX24d-3	4000K	1800 lm	10

Lynx<sup>®</sup>-TE Amalgam

	<table border="1"> <thead> <tr> <th>GX24q</th> <th>18W</th> <th>26W</th> <th>32W</th> <th>42W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>97</td> <td>112</td> <td>128</td> <td>145</td> </tr> <tr> <td>D</td> <td>49</td> <td>49</td> <td>49</td> <td>49</td> </tr> </tbody> </table>	GX24q	18W	26W	32W	42W	L	97	112	128	145	D	49	49	49	49
	GX24q	18W	26W	32W	42W											
L	97	112	128	145												
D	49	49	49	49												
																
 universal																
<ul style="list-style-type: none"> <li>● Particularly suitable for use in the new generation of ultra compact fluorescent downlights and luminaires</li> <li>● Amalgam technology designed for high temperature applications</li> <li>● Excellent colour rendering - Ra 80 - 89 / Class 1B</li> <li>● To be operated on electronic ballasts only</li> <li>● Not recommended for dimming applications</li> <li>● Average rated life: 15000 hours</li> </ul>																


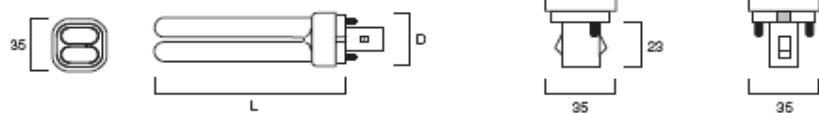



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-TE Homelight Deluxe (827)</b>						
0027815	18W/827	18W	GX24q-2	2700K	1200 lm	10
0027820	26W/827	26W	GX24q-3	2700K	1800 lm	10
0027841	32W/827	32W	GX24q-3	2700K	2400 lm	10
0027843	42W/827	42W	GX24q-4	2700K	3200 lm	10
<b>Lynx-TE Warm White Deluxe (830)</b>						
0027817	18W/830	18W	GX24q-2	3000K	1200 lm	10
0027822	26W/830	26W	GX24q-3	3000K	1800 lm	10
0027842	32W/830	32W	GX24q-3	3000K	2400 lm	10
0027844	42W/830	42W	GX24q-4	3000K	3200 lm	10
<b>Lynx-TE Cool White Deluxe (840)</b>						
0027816	18W/840	18W	GX24q-2	4000K	1200 lm	10
0027821	26W/840	26W	GX24q-3	4000K	1800 lm	10
0027840	32W/840	32W	GX24q-3	4000K	2400 lm	10
0027845	42W/840	42W	GX24q-4	4000K	3200 lm	10

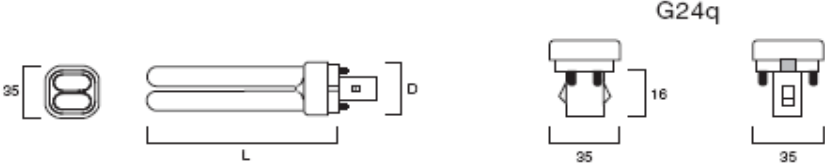


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GX24q	18W	26W	32W	42W														
L	97	112	128	149														
D	49	49	49	49														
<ul style="list-style-type: none"> <li>• Highly efficient light source uses up to 80% less energy than equivalent incandescent lamps.</li> <li>• Excellent colour rendering - Ra 80 - 89 / Class 1B</li> <li>• Rapid Run-up</li> <li>• Can be used in dimming applications</li> <li>• Average Rated Life 15000 hrs</li> </ul>																		

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing
<b>Lynx-TE FSD Homelight Deluxe (827)</b>						
0027850	18W/827	18W	GX24q-2	2700K	1200 lm	10
0027853	26W/827	26W	GX24q-3	2700K	1800 lm	10
0027856	32W/827	32W	GX24q-3	2700K	2400 lm	10
0027859	42W/827	42W	GX24q-4	2700K	3200 lm	10
<b>Lynx-TE FSD Warm White Deluxe (830)</b>						
0027851	18W/830	18W	GX24q-2	3000K	1200 lm	10
0027854	26W/830	26W	GX24q-3	3000K	1800 lm	10
0027857	32W/830	32W	GX24q-3	3000K	2400 lm	10
0027860	42W/830	42W	GX24q-4	3000K	3200 lm	10
<b>Lynx-TE FSD Cool White Deluxe (840)</b>						
0027852	18W/840	18W	GX24q-2	4000K	1200 lm	10
0027855	26W/840	26W	GX24q-3	4000K	1800 lm	10
0027858	32W/840	32W	GX24q-3	4000K	2400 lm	10
0027861	42W/840	42W	GX24q-4	4000K	3200 lm	10

Lynx<sup>®</sup>-D


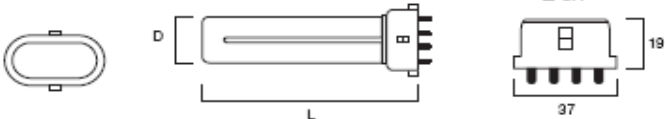


	<table border="1"> <thead> <tr> <th>G24d</th> <th>10W</th> <th>13W</th> <th>18W</th> <th>26W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>87</td> <td>115</td> <td>129</td> <td>147</td> </tr> <tr> <td>D</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> </tr> </tbody> </table>	G24d	10W	13W	18W	26W	L	87	115	129	147	D	35	35	35	35
	G24d	10W	13W	18W	26W											
L	87	115	129	147												
D	35	35	35	35												
																
																
<ul style="list-style-type: none"> <li>• Two U shaped tubes and a 2 pin base which incorporates the starter and capacitor</li> <li>• Excellent colour rendering – Ra85/Class 1B</li> <li>• For use with magnetic ballast</li> <li>• Uses considerably less power and last up to 15 times longer than incandescent lamps</li> <li>• Average rated life: 15000 hours</li> </ul>																

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-D Homelight Deluxe (827)</b>						
0025904	10W/827	10W	G24d-1	2700K	600 lm	10
0025905	13W/827	13W	G24d-1	2700K	900 lm	10
0025906	18W/827	18W	G24d-2	2700K	1200 lm	10
0025907	26W/827	26W	G24d-3	2700K	1800 lm	10
<b>Lynx-D Warm White Deluxe (830)</b>						
0025908	10W/830	10W	G24d-1	3000K	600 lm	10
0025909	13W/830	13W	G24d-1	3000K	900 lm	10
0025910	18W/830	18W	G24d-2	3000K	1200 lm	10
0025911	26W/830	26W	G24d-3	3000K	1800 lm	10
<b>Lynx-D White Deluxe (835)</b>						
0025940	10W/835	10W	G24d-1	3500K	600 lm	10
0025941	13W/835	13W	G24d-1	3500K	900 lm	10
0025942	18W/835	18W	G24d-2	3500K	1200 lm	10
0025943	26W/835	26W	G24d-3	3500K	1800 lm	10
<b>Lynx-D Cool White Deluxe (840)</b>						
0025912	10W/840	10W	G24d-1	4000K	600 lm	10
0025913	13W/840	13W	G24d-1	4000K	900 lm	10
0025914	18W/840	18W	G24d-2	4000K	1200 lm	10
0025915	26W/840	26W	G24d-3	4000K	1800 lm	10
<b>Lynx-D Daylight Deluxe (860)</b>						
0028322	10W/860	10W	G24d-1	6000K	600 lm	10
0028323	13W/860	13W	G24d-1	6000K	900 lm	10
0028324	18W/860	18W	G24d-2	6000K	1200 lm	10
0028325	26W/860	26W	G24d-3	6000K	1800 lm	10

<table border="1" data-bbox="145 432 387 488"> <tr> <th>G24d</th> <th>10W</th> <th>13W</th> <th>18W</th> <th>26W</th> </tr> <tr> <td>L</td> <td>87</td> <td>115</td> <td>129</td> <td>147</td> </tr> <tr> <td>D</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> </tr> </table>  <p data-bbox="145 689 183 739"></p>	G24d	10W	13W	18W	26W	L	87	115	129	147	D	35	35	35	35	
G24d	10W	13W	18W	26W												
L	87	115	129	147												
D	35	35	35	35												
<ul style="list-style-type: none"> <li>● Two U shaped tubes and a 4 pin base without starter or capacitor</li> <li>● Excellent colour rendering – Ra85/Class 1B</li> <li>● To be operated on electronic ballast only</li> <li>● Suitable for emergency lighting</li> <li>● Average rated life: 15000 hours</li> </ul>																

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-DE Homelight Deluxe (827)</b>						
0025916	10W/827	10W	G24q-1	2700K	600 lm	10
0025917	13W/827	13W	G24q-1	2700K	900 lm	10
0025918	18W/827	18W	G24q-2	2700K	1200 lm	10
0025919	26W/827	26W	G24q-3	2700K	1800 lm	10
<b>Lynx-DE Warm White Deluxe (830)</b>						
0025920	10W/830	10W	G24q-1	3000K	600 lm	10
0025921	13W/830	13W	G24q-1	3000K	900 lm	10
0025922	18W/830	18W	G24q-2	3000K	1200 lm	10
0025923	26W/830	26W	G24q-3	3000K	1800 lm	10
<b>Lynx-DE White Deluxe (835)</b>						
0025944	10W/835	10W	G24q-1	3500K	600 lm	10
0025945	13W/835	13W	G24q-1	3500K	900 lm	10
0025946	18W/835	18W	G24q-2	3500K	1200 lm	10
0025947	26W/835	26W	G24q-3	3500K	1800 lm	10
<b>Lynx-DE Cool White Deluxe (840)</b>						
0025924	10W/840	10W	G24q-1	4000K	600 lm	10
0025925	13W/840	13W	G24q-1	4000K	900 lm	10
0025926	18W/840	18W	G24q-2	4000K	1200 lm	10
0025927	26W/840	26W	G24q-3	4000K	1800 lm	10
<b>Lynx-DE Daylight Deluxe (860)</b>						
0025948	10W/860	10W	G24q-1	6000K	600 lm	10
0025949	13W/860	13W	G24q-1	6000K	900 lm	10
0025950	18W/860	18W	G24q-2	6000K	1200 lm	10
0025951	26W/860	26W	G24q-3	6000K	1800 lm	10

## Lynx®-SE

	<table border="1" data-bbox="571 454 815 517"> <thead> <tr> <th>2G7</th> <th>5W</th> <th>7W</th> <th>9W</th> <th>11W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>85</td> <td>115</td> <td>145</td> <td>215</td> </tr> <tr> <td>D</td> <td>28</td> <td>28</td> <td>28</td> <td>28</td> </tr> </tbody> </table> 	2G7	5W	7W	9W	11W	L	85	115	145	215	D	28	28	28	28
2G7	5W	7W	9W	11W												
L	85	115	145	215												
D	28	28	28	28												
																
	<ul style="list-style-type: none"> <li>• U shaped tubes and a 4 pin base without starter or capacitor</li> <li>• Excellent colour rendering – Ra85/Class 1B</li> <li>• To be operated on electronic ballast only</li> <li>• Suitable for emergency lighting</li> <li>• Average rated life: 15000 hours</li> </ul>															

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-SE Homelight Deluxe (827)</b>						
0025892	5W/827	5W	2G7	2700K	250 lm	10
0025893	7W/827	7W	2G7	2700K	420 lm	10
0025894	9W/827	9W	2G7	2700K	600 lm	10
0025895	11W/827	11W	2G7	2700K	900 lm	10
<b>Lynx-SE Warm White Deluxe (830)</b>						
0025896	5W/830	5W	2G7	3000K	250 lm	10
0025897	7W/830	7W	2G7	3000K	420 lm	10
0025898	9W/830	9W	2G7	3000K	600 lm	10
0025899	11W/830	11W	2G7	3000K	900 lm	10
<b>Lynx-SE Cool White Deluxe (840)</b>						
0025900	5W/840	5W	2G7	4000K	250 lm	10
0025901	7W/840	7W	2G7	4000K	420 lm	10
0025902	9W/840	9W	2G7	4000K	600 lm	10
0025903	11W/840	11W	2G7	4000K	900 lm	10


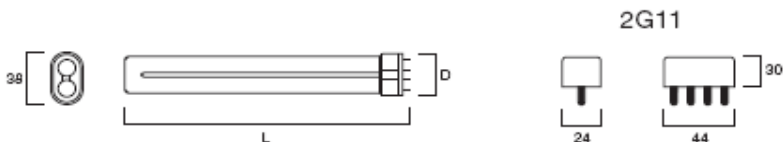


G23	5W	7W	9W	11W
L	100	134	165	233
D	28	28	28	28

**universal**

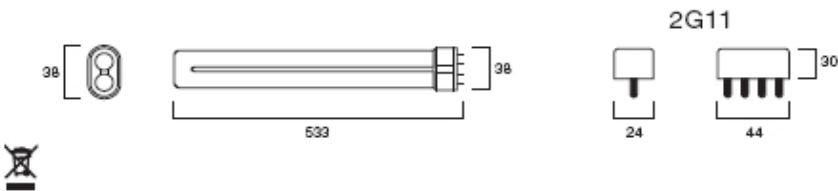



- U shaped tube and a 2 pin base which incorporates the starter and capacitor
- Excellent colour rendering – Ra85/Class 1B
- For use with magnetic ballast
- Average rated life: 15000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-S Homelight Deluxe (827)</b>						
0025880	5W/827	5W	G23	2700K	250 lm	10
0025881	7W/827	7W	G23	2700K	420 lm	10
0025882	9W/827	9W	G23	2700K	600 lm	10
0025883	11W/827	11W	G23	2700K	900 lm	10
<b>Lynx-S Warm White Deluxe (830)</b>						
0025884	5W/830	5W	G23	3000K	250 lm	10
0025885	7W/830	7W	G23	3000K	420 lm	10
0025886	9W/830	9W	G23	3000K	600 lm	10
0025887	11W/830	11W	G23	3000K	900 lm	10
<b>Lynx-S White Deluxe (835)</b>						
0025876	5W/835	5W	G23	3500K	250 lm	10
0025877	7W/835	7W	G23	3500K	420 lm	10
0025878	9W/835	9W	G23	3500K	600 lm	10
0025879	11W/835	11W	G23	3500K	900 lm	10
<b>Lynx-S Cool White Deluxe (840)</b>						
0025888	5W/840	5W	G23	4000K	250 lm	10
0025889	7W/840	7W	G23	4000K	420 lm	10
0025890	9W/840	9W	G23	4000K	600 lm	10
0025891	11W/840	11W	G23	4000K	900 lm	10
<b>Lynx-S Daylight Deluxe (860)</b>						
0028326	5W/860	5W	G23	6000K	250 lm	10
0028327	7W/860	7W	G23	6000K	420 lm	10
0028328	9W/860	9W	G23	6000K	600 lm	10
0028329	11W/860	11W	G23	6000K	900 lm	10

## Lynx®-L

	<table border="1"> <thead> <tr> <th>2G11</th> <th>18W</th> <th>24W</th> <th>36W</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>225</td> <td>320</td> <td>415</td> </tr> <tr> <td>D</td> <td>38</td> <td>38</td> <td>38</td> </tr> </tbody> </table>	2G11	18W	24W	36W	L	225	320	415	D	38	38	38
	2G11	18W	24W	36W									
L	225	320	415										
D	38	38	38										
													
													
<ul style="list-style-type: none"> <li>● Excellent colour rendering – Ra85/Class 1B</li> <li>● 4-pin 2G11 cap without starter or capacitor</li> <li>● Suitable for use in modular ceiling luminaires – 300 x 300mm or 600 x 600mm</li> <li>● To be used with magnetic ballast with remote starter and capacitor or on electronic ballast</li> <li>● Dimmable with suitable ballast</li> <li>● Average rated life: 15000 hours</li> </ul>													


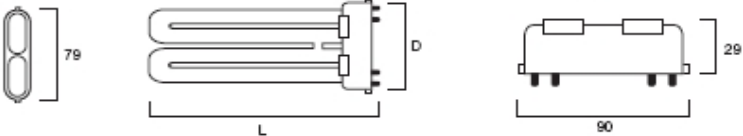
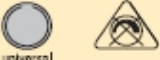

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-L Homelight Deluxe (827)</b>						
0025226	18W/827	18W	2G11	2700K	1200 lm	10
0025227	24W/827	24W	2G11	2700K	1800 lm	10
0025228	36W/827	36W	2G11	2700K	2900 lm	10
<b>Lynx-L Warm White Deluxe (830)</b>						
0025233	18W/830	18W	2G11	3000K	1200 lm	10
0025235	24W/830	24W	2G11	3000K	1800 lm	10
0025237	36W/830	36W	2G11	3000K	2900 lm	10
<b>Lynx-L White Deluxe (835)</b>						
0027908	18W/835	18W	2G11	3500K	1200 lm	10
0027910	24W/835	24W	2G11	3500K	1800 lm	10
0027912	36W/835	36W	2G11	3500K	2900 lm	10
<b>Lynx-L Cool White Deluxe (840)</b>						
0025234	18W/840	18W	2G11	4000K	1200 lm	10
0025236	24W/840	24W	2G11	4000K	1800 lm	10
0025238	36W/840	36W	2G11	4000K	2900 lm	10
<b>Lynx-L Daylight Deluxe (865)</b>						
0025685	18W/865	18W	2G11	6500K	1200 lm	10
0025686	24W/865	24W	2G11	6500K	1800 lm	10
0025687	36W/865	36W	2G11	6500K	2900 lm	10

 <p>38 593 38 24 44 2G11 30</p> 	  <p>universal</p>
<ul style="list-style-type: none"> <li>● Excellent colour rendering – Ra85/Class 1B</li> <li>● 4-pin 2G11 cap without starter or capacitor</li> <li>● Suitable for use in modular ceiling luminaires – 600 x 600mm</li> <li>● To be used with electronic ballast only</li> <li>● Dimmable with suitable ballast</li> <li>● Average rated life: 15000 hours</li> </ul>	



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-LE Homelight Deluxe (827)</b>						
0025460	40W/827	40W	2G11	2700K	3500 lm	10
0025463	55W/827	55W	2G11	2700K	4800 lm	10
<b>Lynx-LE Warm White Deluxe (830)</b>						
0025461	40W/830	40W	2G11	3000K	3500 lm	10
0025464	55W/830	55W	2G11	3000K	4800 lm	10
<b>Lynx-LE White Deluxe (835)</b>						
0027914	40W/835	40W	2G11	3500K	3500 lm	10
0027916	55W/835	55W	2G11	3500K	4800 lm	10
<b>Lynx-LE Cool White Deluxe (840)</b>						
0025462	40W/840	40W	2G11	4000K	3500 lm	10
0025465	55W/840	55W	2G11	4000K	4800 lm	10
<b>Lynx-LE Daylight Deluxe (865)</b>						
0025688	40W/865	40W	2G11	6500K	3500 lm	10
0025689	55W/865	55W	2G11	6500K	4800 lm	10

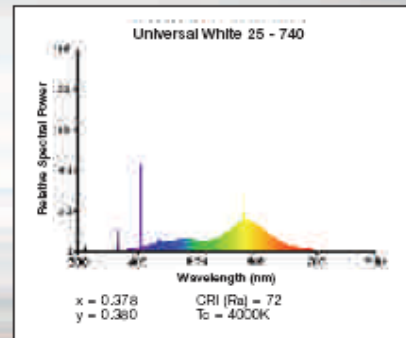
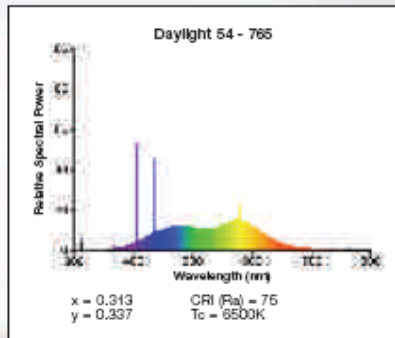
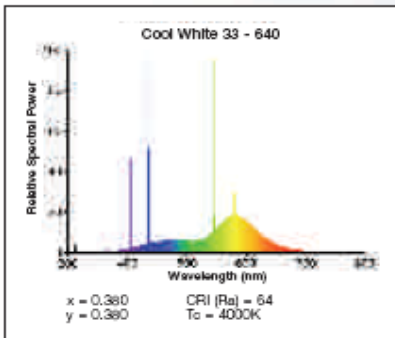
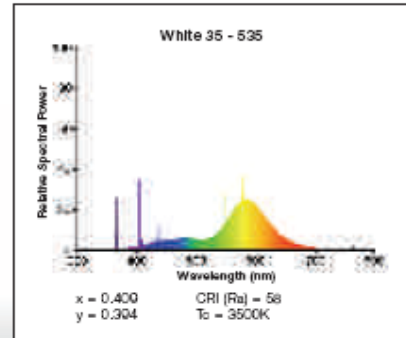
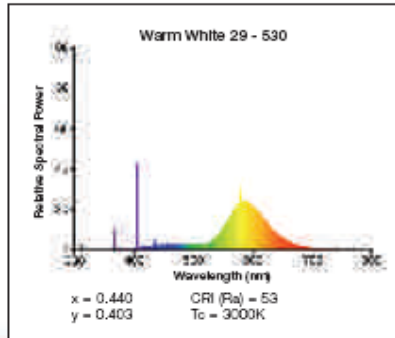
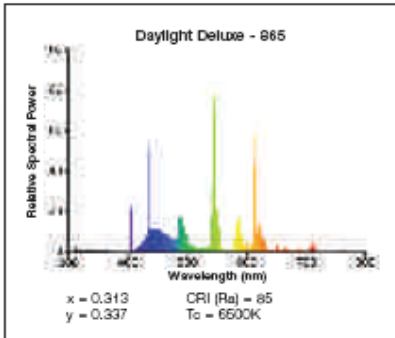
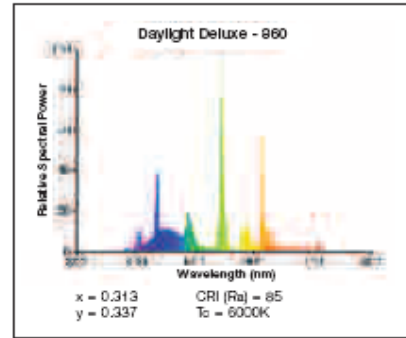
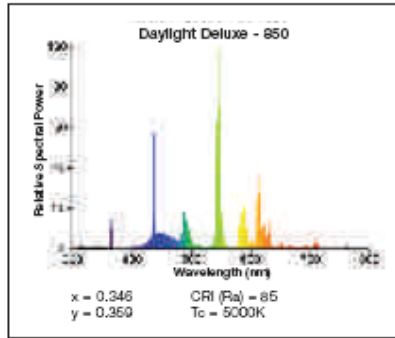
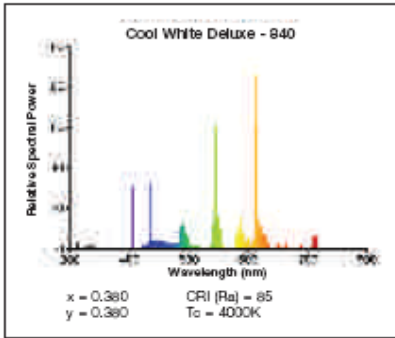
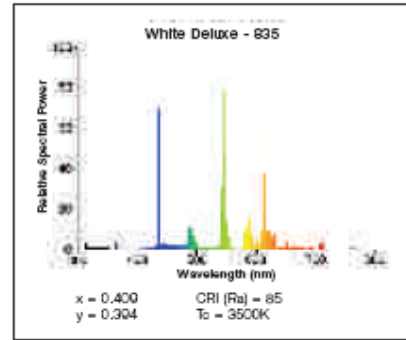
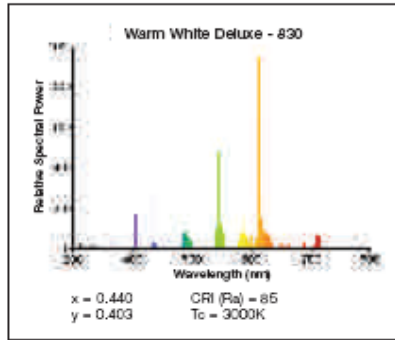
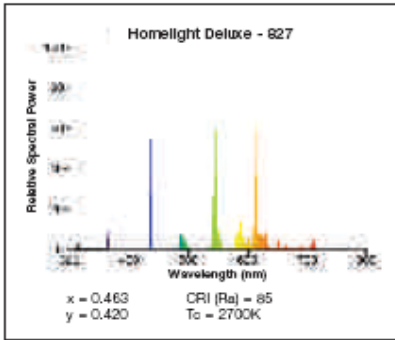
Lynx<sup>®</sup>-F

	<table border="1" data-bbox="596 434 794 495"> <tr> <td>2G10</td> <td>18W</td> <td>24W</td> <td>36W</td> </tr> <tr> <td>L</td> <td>122</td> <td>165</td> <td>217</td> </tr> <tr> <td>D</td> <td>79</td> <td>79</td> <td>79</td> </tr> </table> 	2G10	18W	24W	36W	L	122	165	217	D	79	79	79
2G10	18W	24W	36W										
L	122	165	217										
D	79	79	79										
													
	<ul style="list-style-type: none"> <li>• Multi-limbed compact fluorescent lamps</li> <li>• Half the length of corresponding L types</li> <li>• Very good colour rendering – Ra85/Class 1B</li> <li>• Ideal for small, flat luminaires for wall and ceiling mounting</li> <li>• To be used with conventional, magnetic or electronic ballast</li> <li>• Average rated life: 15000 hours</li> </ul>												

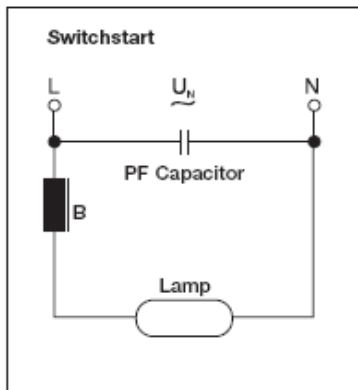


Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>Lynx-F Homelight Deluxe (827)</b>						
0027824	18W/827	18W	2G10	2700K	1100 lm	10
0027829	24W/827	24W	2G10	2700K	1700 lm	10
0027834	36W/827	36W	2G10	2700K	2800 lm	10
<b>Lynx-F Warm White Deluxe (830)</b>						
0027825	18W/830	18W	2G10	3000K	1100 lm	10
0027830	24W/830	24W	2G10	3000K	1700 lm	10
0027835	36W/830	36W	2G10	3000K	2800 lm	10
<b>Lynx-F Cool White Deluxe (840)</b>						
0027826	18W/840	18W	2G10	4000K	1100 lm	10
0027831	24W/840	24W	2G10	4000K	1700 lm	10
0027836	36W/840	36W	2G10	4000K	2800 lm	10

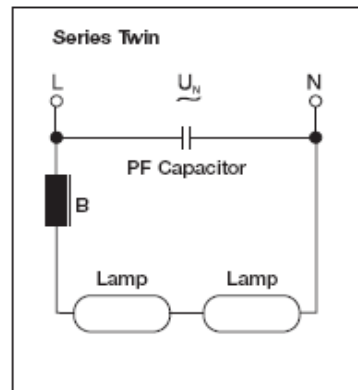
# Spectral Power Distribution



## Circuit Diagrams

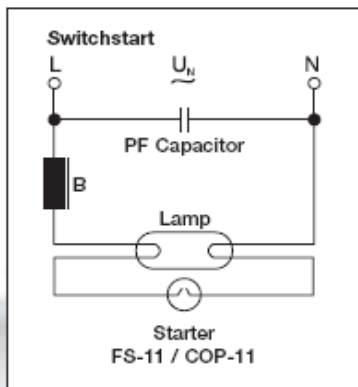
**SWITCHSTART**

with conventional ballast  
Lynx-S 5W, 7W, 9W, 11W  
Lynx-D 10W, 13W, 18W, 26W  
Lynx-T 18W, 26W

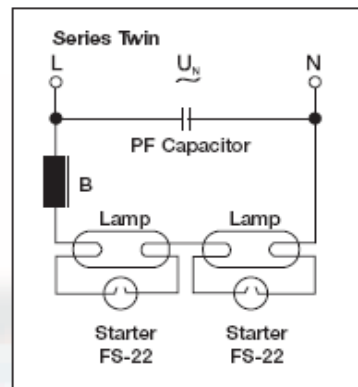
**SERIES TWIN**

with conventional ballast  
Lynx-S 5W, 7W, 9W

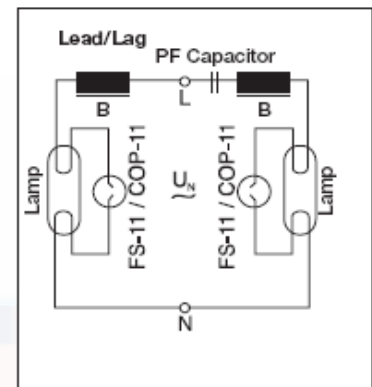
L = External conductor L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub>  
N = Median conductor MP  
U<sub>n</sub> = Power supply 230V  
B = Ballast

**SWITCHSTART**

with conventional ballast and  
FS-11 starter or COP-11 safety starter  
Lynx-L 18W, 24W, 36W

**SERIES TWIN**

with conventional ballast only with  
2 x FS-22 starter  
Lynx-L 18W

**LEAD/LAG**

with conventional ballast with  
FS-11 starter or with  
COP-11 safety starter  
Lynx-L 18W, 24W, 36W

**T5 LAMPS**

T5 FHE Luxline® Plus	120
T5 FHO Luxline® Plus	121
T5 Standard / Luxline® Plus	122
T5 Emergency	123

**T8 LAMPS**

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**MANUFACTURER'S LAMP CROSS REFERENCE****Sylvania**

T5 FHE Luxline® Plus
T5 FHO Luxline® Plus
T5 Standard
T5 Luxline® Plus
T8 Standard
T8 Luxline® Plus
T8 Luxline® Plus Reflector
T8 Luxline® Plus Shatter-Resistant
T8 U-Shaped
T12 Standard
T12 IRS
T12 Reflector
Circline
Activa
Gourmet

**Osram**

Lumilux FH
Lumilux FQ
Basic T5
Lumilux T5
Basic T8
Lumilux T8
–
Splinter Protection
U-Shaped
S-Type
SA-Type
–
Circular
Biolum
Natura

**Philips**

TL5 HE
TL5 HO
TL-Mini Standard
TL-Mini Pro 80
TL-D Standard
TL-D Super 80
TL-D Reflex
TL-D Secura
–
TL-RS
TL-M RS
–
TL-E Standard
–
TL-D Shoplight

**GE**

T5 Starcoat HE
T5 Starcoat HO
T5 Miniature Standard
T5 Miniature Polyflux
T8 Standard
T8 Polyflux
–
T8 Cov-R-Guard Polyflux
Mod-U-Line
T12 Standard
T12 Rapid Start
–
Circline
–
–

The key benefits of fluorescent tubes are well known – proven energy efficiency, long life and a wide choice of sizes, shapes and colours.

The introduction of improved phosphor coatings, the more efficient T8 tubes and the new generation of T5 tubes have brought significant improvements in lamp efficacy and colour rendering, lumen maintenance and life.

Sylvania engineers have always been at the forefront of these developments, and in caring for the environment, by continually introducing innovative products and improvements in lamp manufacture, technology and performance.



T5



T8



T12

Sylvania offers a comprehensive range of high efficiency fluorescent tubes in various lengths, diameters, wattages and colours, including tubes for specialist applications.

The improved technology of the **Luxline® Plus** triphosphor coating guarantees excellent colour rendering, high luminous flux and high lamp efficacy (lumen per watt). The average life of up to 24000 hours allows longer replacement intervals which has a positive impact to your on maintenance costs.

All of these advantages mean that Sylvania Luxline® Plus triphosphor tubes should always be the first choice for all new installations, particularly when used in fixtures incorporating electronic control gear, and be used in place of T12 and T8 halophosphor tubes when re-lamping.

**CIRCULAR****U-SHAPED****SPECIAL APPLICATIONS**

## T5 FHE Luxline® Plus

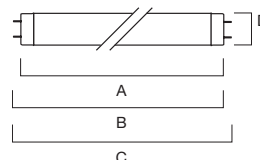


	A max	B min	B max	C max	D nom
14W	549	553.7	556.1	563.2	16
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16

G5

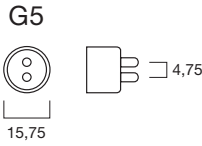


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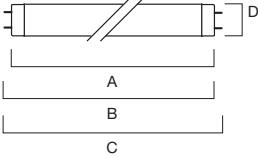





- T5 FHE Luxline Plus triphosphor lamp ideal solution for new, slim, aesthetic luminaires
- Average life time of 24,000 hours with pre-heating ballast
- High luminous efficacy of up to 104 lm/W.
- Energy savings of up to 25% compared to a T8 tube
- For electronic ballast operation only
- Optimum luminous flux at an ambient temperature of approx 35°C
- Almost constant lumen maintenance throughout the entire lamp life due to Luxline Plus triphosphor technology

SSTL No.	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Luminous Colour Temp	Luminous Flux Nominal at 25°	Flux Max at 34-38°	Packing Qty
<b>T5 FHE Luxline Plus Homelight De Luxe (827)</b>											
0002798	FHE 14W/827	14W	86V	0.165A	549mm	1B	G5	2700K	1230 lm	1350 lm	25
0002799	FHE 21W/827	21W	126V	0.165A	849mm	1B	G5	2700K	1910 lm	2100 lm	25
0002800	FHE 28W/827	28W	166V	0.170A	1149mm	1B	G5	2700K	2640 lm	2900 lm	25
0002801	FHE 35W/827	35W	205V	0.175A	1449mm	1B	G5	2700K	3320 lm	3650 lm	25
<b>T5 FHE Luxline Plus Warm White De Luxe (830)</b>											
0002760	FHE 14W/830	14W	86V	0.165A	549mm	1B	G5	3000K	1230 lm	1350 lm	25
0002763	FHE 21W/830	21W	126V	0.165A	849mm	1B	G5	3000K	1910 lm	2100 lm	25
0002766	FHE 28W/830	28W	166V	0.170A	1149mm	1B	G5	3000K	2640 lm	2900 lm	25
0002769	FHE 35W/830	35W	205V	0.175A	1449mm	1B	G5	3000K	3320 lm	3650 lm	25
<b>T5 FHE Luxline Plus White De Luxe (835)</b>											
0002787	FHE 14W/835	14W	86V	0.165A	549mm	1B	G5	3500K	1230 lm	1350 lm	25
0002788	FHE 21W/835	21W	126V	0.165A	849mm	1B	G5	3500K	1910 lm	2100 lm	25
0002789	FHE 28W/835	28W	166V	0.170A	1149mm	1B	G5	3500K	2640 lm	2900 lm	25
0002790	FHE 35W/835	35W	205V	0.175A	1449mm	1B	G5	3500K	3320 lm	3650 lm	25
<b>T5 FHE Luxline Plus Cool White De Luxe (840)</b>											
0002761	FHE 14W/840	14W	86V	0.165A	549mm	1B	G5	4000K	1230 lm	1350 lm	25
0002764	FHE 21W/840	21W	126V	0.165A	849mm	1B	G5	4000K	1910 lm	2100 lm	25
0002767	FHE 28W/840	28W	166V	0.170A	1149mm	1B	G5	4000K	2640 lm	2900 lm	25
0002770	FHE 35W/840	35W	205V	0.175A	1449mm	1B	G5	4000K	3320 lm	3650 lm	25
<b>T5 FHE Luxline Plus Daylight De Luxe (865)</b>											
0002762	FHE 14W/865	14W	86V	0.165A	549mm	1B	G5	6500K	1140 lm	1250 lm	25
0002765	FHE 21W/865	21W	126V	0.165A	849mm	1B	G5	6500K	1775 lm	1950 lm	25
0002768	FHE 28W/865	28W	166V	0.170A	1149mm	1B	G5	6500K	2460 lm	2700 lm	25
0002771	FHE 35W/865	35W	205V	0.175A	1449mm	1B	G5	6500K	3095 lm	3400 lm	25



	A max	B min	B max	C max	D nom
24W	549	553.7	556.1	563.2	16
39W	849	853.7	856.1	863.2	16
49 & 80W	1449	1453.7	1456.1	1463.2	16
54W	1149	1153.7	1156.1	1163.2	16

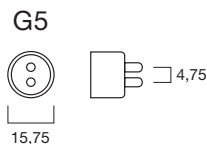


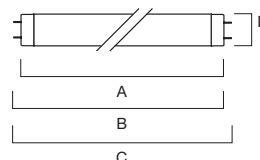
- The T5 FHO Luxline Plus triphosphor lamp is the ideal solution for indirect and direct lighting, i.e. industrial lighting systems with high ceilings
- Average life time of 24,000 hours with pre-heating ballast
- For applications where a high luminous flux is required (up to 7000 lm per lamp)
- High colour rendering (Ra85/Class 1B)
- For electronic ballast operation only
- Optimum luminous flux at an ambient temperature of approx 35°C

Code	Description	Nominal Lamp Watt	Nominal Lamp Volt	Nominal Lamp Current	Cap to Cap Lamp Length	CRI Group	Colour Cap	Colour Temp	Luminous Flux nominal at 25°	Luminous Flux max at 34-38°	Packing Qty
<b>T5 FHO Luxline Plus Home light De Luxe (827)</b>											
0002802	FHO 24W/827	24W	77V	0.295A	549mm	1B	G5	2700K	4450 lm	5000 lm	25
0002803	FHO 39W/827	39W	118V	0.325A	849mm	1B	G5	2700K	4450 lm	5000 lm	25
0002805	FHO 54W/827	54W	120V	0.455A	1149mm	1B	G5	2700K	4450 lm	5000 lm	25
0002804	FHO 49W/827	49W	195V	0.255A	1449mm	1B	G5	2700K	4450 lm	5000 lm	25
0002806	FHO 80W/827	80W	152V	0.530A	1449mm	1B	G5	2700K	6150 lm	7000 lm	25
<b>T5 FHO Luxline Plus Warm White De Luxe (830)</b>											
0002772	FHO 24W/830	24W	77V	0.295A	549mm	1B	G5	3000K	1700 lm	2000 lm	25
0002775	FHO 39W/830	39W	118V	0.325A	849mm	1B	G5	3000K	3220 lm	3500 lm	25
0002781	FHO 54W/830	54W	120V	0.455A	1149mm	1B	G5	3000K	4450 lm	5000 lm	25
0002778	FHO 49W/830	49W	195V	0.255A	1449mm	1B	G5	3000K	4165 lm	4900 lm	25
0002784	FHO 80W/830	80W	152V	0.530A	1449mm	1B	G5	3000K	6150 lm	7000 lm	25
<b>T5 FHO Luxline Plus White De Luxe (835)</b>											
0002791	FHO 24W/835	24W	77V	0.295A	549mm	1B	G5	3500K	4450 lm	5000 lm	25
0002792	FHO 39W/835	39W	118V	0.325A	849mm	1B	G5	3500K	4450 lm	5000 lm	25
0002794	FHO 54W/835	54W	120V	0.455A	1149mm	1B	G5	3500K	4450 lm	5000 lm	25
0002793	FHO 49W/835	49W	195V	0.255A	1449mm	1B	G5	3500K	4165 lm	4900 lm	25
<b>T5 FHO Luxline Plus Cool White De Luxe (840)</b>											
0002773	FHO 24W/840	24W	77V	0.295A	549mm	1B	G5	4000K	1700 lm	2000 lm	25
0002776	FHO 39W/840	39W	118V	0.325A	849mm	1B	G5	4000K	3220 lm	3500 lm	25
0002782	FHO 54W/840	54W	120V	0.455A	1149mm	1B	G5	4000K	4450 lm	5000 lm	25
0002777	FHO 49W/840	49W	195V	0.255A	1449mm	1B	G5	4000K	4165 lm	4900 lm	25
0002785	FHO 80W/840	80W	152V	0.530A	1449mm	1B	G5	4000K	6150 lm	7000 lm	25
<b>T5 FHO Luxline Plus Daylight De Luxe (865)</b>											
0002774	FHO 24W/865	24W	77V	0.295A	549mm	1B	G5	6500K	1570 lm	1850 lm	25
0002779	FHO 39W/865	39W	118V	0.325A	849mm	1B	G5	6500K	2990 lm	3250 lm	25
0002783	FHO 54W/865	54W	120V	0.455A	1149mm	1B	G5	6500K	4050 lm	4550 lm	25
0002780	FHO 49W/865	49W	195V	0.255A	1449mm	1B	G5	6500K	3950 lm	4650 lm	25
0002786	FHO 80W/865	80W	152V	0.530A	1449mm	1B	G5	6500K	5700 lm	6650 lm	25

# T5 Standard / Luxline® Plus

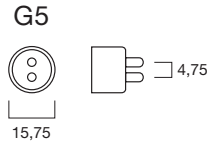


	A max	B min	B max	C max	D nom
4W	135.9	140.6	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
13W	516.9	521.6	524.0	531.1	16

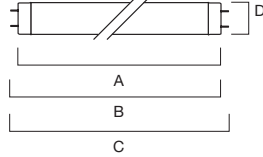



- 16mm fluorescent lamps in Standard and Luxline Plus colours
- For applications where space is limited
- Ideal solution for furniture, showcases, bathroom cabinets, transportation and leisure applications
- For higher colour rendering index we recommend fluorescent T5 Short Luxline Plus (6W and 8W)



Code	Description	Nominal Watt	Lamp Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T5 Standard Warm White (29-530)</b>										
0000004	F4W/29-530	4W	29V	0.170A	136mm	3	G5	3000K	140 lm	25
0000014	F6W/29-530	6W	42V	0.160A	212mm	3	G5	3000K	280 lm	25
0000382	F8W/29-530	8W	56V	0.145A	288mm	3	G5	3000K	400 lm	25
0000032	F13W/29-530	13W	95V	0.165A	517mm	3	G5	3000K	880 lm	25
<b>T5 Standard White (35-535)</b>										
0000002	F4W/35-535	4W	29V	0.170A	136mm	3	G5	3500K	140 lm	25
0000012	F6W/35-535	6W	42V	0.160A	212mm	3	G5	3500K	280 lm	25
0000020	F8W/35-535	8W	56V	0.145A	288mm	3	G5	3500K	400 lm	25
0000030	F13W/35-535	13W	95V	0.165A	517mm	3	G5	3500K	880 lm	25
<b>T5 Standard Cool White (33-640)</b>										
0000003	F4W/33-640	4W	29V	0.170A	136mm	2B	G5	4000K	140 lm	25
0000013	F6W/33-640	6W	42V	0.160A	212mm	2B	G5	4000K	280 lm	25
0000021	F8W/33-640	8W	56V	0.145A	288mm	2B	G5	4000K	400 lm	25
0000031	F13W/33-640	13W	95V	0.165A	517mm	2B	G5	4000K	880 lm	25
<b>T5 Standard Daylight (54-765)</b>										
0000001	F4W/54-765	4W	29V	0.170A	136mm	2A	G5	6500K	115 lm	25
0000011	F6W/54-765	6W	42V	0.160A	212mm	2A	G5	6500K	240 lm	25
0000019	F8W/54-765	8W	56V	0.145A	288mm	2A	G5	6500K	340 lm	25
0000029	F13W/54-765	13W	95V	0.165A	517mm	2A	G5	6500K	750 lm	25
<b>T5 Luxline Plus Cool White De Luxe (840)</b>										
0005941	F6W-840	6W	42V	0.160A	212mm	1B	G5	4000K	320 lm	200
0005938	F8W-840	8W	56V	0.145A	288mm	1B	G5	4000K	500 lm	200



	A max	B min	B max	C max	D nom
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16

universal

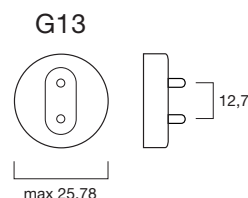
- Range of T5 fluorescent lamps for the exclusive use in emergency lighting luminaires
- **Only for operation by battery with electronic ballast (low lamp currents)**
- Reliable ignition with compatible ballast
- Available in standard as well as in Luxline Plus colours
- Luminous flux dependant on individual ballast (lamp current)

Code	Description	Nominal Watt	Lamp Volt	Single Lamp Current*	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux**	Packing Qty
<b>T5 Emergency Warm White (29-530)</b>										
0001901	F6W/29-530	6W	48V	0.040A	212mm	3	G5	3000K	–	200
0001906	F8W/29-530	8W	71V	0.040A	288mm	3	G5	3000K	–	200
<b>T5 Emergency Cool White (33-640)</b>										
0001900	F6W/33-640	6W	48V	0.040A	212mm	2B	G5	4000K	–	200
0001905	F8W/33-640	8W	71V	0.040A	288mm	2B	G5	4000K	–	200
<b>T5 Emergency Daylight (54-765)</b>										
0001902	F6W/54-765	6W	48V	0.040A	212mm	2A	G5	6500K	–	200
0001908	F8W/54-765	8W	71V	0.040A	288mm	2A	G5	6500K	–	200
<b>T5 Emergency Cool White De Luxe (840) Luxline Plus</b>										
0001909	F6W/840	6W	48V	0.040A	212mm	1B	G5	4000K	–	200
0001907	F8W/840	8W	71V	0.040A	288mm	1B	G5	4000K	–	200

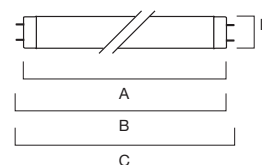
\* Lamp Current: Not applicable for asymmetrical lamp current with DC component

\*\* Luminous Flux: Depends on individual ballast

# T8 Standard



	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26



- Standard T8 fluorescent lamps with a wide range of individual colours
- Colour rendering: Ra50-79/Class 3-2A
- For applications with standard requirements, e.g. exterior lighting, garages and cellars, warehouses etc
- Suitable for areas where people are not engaged in work for long periods of time (EN 12464-1)
- For new installations or replacements we recommend T8 Luxline Plus

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T8 Standard Universal White (25-740)</b>										
0001407	F18W/25-740	18W	57V	0.370A	590mm	2A	G13	4000K	1100 lm	25
0001417	F36W/25-740	36W	103V	0.430A	1200mm	2A	G13	4000K	2600 lm	25
0001437	F58W/25-740	58W	110V	0.670A	1500mm	2A	G13	4000K	4100 lm	25
<b>T8 Standard Warm White (29-530)</b>										
0001409	F18W/29-530	18W	57V	0.370A	590mm	3	G13	3000K	1150 lm	25
0001419	F36W/29-530	36W	103V	0.430A	1200mm	3	G13	3000K	2850 lm	25
0001439	F58W/29-530	58W	110V	0.670A	1500mm	3	G13	3000K	4600 lm	25
0001092	F70W/29-530	70W	128V	0.700A	1764mm	3	G13	3000K	5800 lm	25
<b>T8 Standard White (35-535)</b>										
0001408	F18W/35-535	18W	57V	0.370A	590mm	3	G13	3500K	1150 lm	25
0001418	F36W/35-535	36W	103V	0.430A	1200mm	3	G13	3500K	2850 lm	25
0001438	F58W/35-535	58W	110V	0.670A	1500mm	3	G13	3500K	4600 lm	25
0001091	F70W/35-535	70W	128V	0.700A	1764mm	3	G13	3500K	5800 lm	25
<b>T8 Standard Cool White (33-640)</b>										
0001406	F18W/33-640	18W	57V	0.370A	590mm	2B	G13	4000K	1150 lm	25
0001416	F36W/33-640	36W	103V	0.430A	1200mm	2B	G13	4000K	2850 lm	25
0001436	F58W/33-640	58W	110V	0.670A	1500mm	2B	G13	4000K	4600 lm	25
0001090	F70W/33-640	70W	128V	0.700A	1764mm	2B	G13	4000K	5700 lm	25
<b>T8 Standard Daylight (54-765)</b>										
0001410	F18W/54-765	18W	57V	0.370A	590mm	2A	G13	6500K	1050 lm	25
0001420	F36W/54-765	36W	103V	0.430A	1200mm	2A	G13	6500K	2500 lm	25
0001440	F58W/54-765	58W	110V	0.670A	1500mm	2A	G13	6500K	4000 lm	25

	A max	B min	B max	C max	D nom
14W	361.2	365.8	368.3	375.4	26
15W	437.4	442.1	444.5	451.6	26
16W	720.0	724.7	727.1	734.2	26
25W/28"	691.4	696.1	698.5	705.6	26
25W/30"	742.2	746.9	749.3	756.4	26
25W/33"	818.4	823.1	825.5	832.6	26
30W	894.6	899.3	901.7	908.8	26
36W/1m	970.0	974.1	977.1	984.2	26
38W	1047.0	1051.7	1054.1	1061.2	26

**G13**

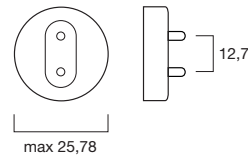
- Standard T8 fluorescent lamps with a wide range of special wattages in standard colours
- Colour rendering: Ra50-79/Class 3-2A
- Suitable for areas where people are not engaged in work for long periods of time (EN 12464-1)
- For new installations or replacements we recommend T8 Luxline Plus where possible

Code	Description	Watt	Nominal Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T8 Special Length Universal White (25-740)</b>										
0001508	F36W/25-740/1M	36W	80V	0.560A	970mm	2A	G13	4000K	2500 lm	25
0001784	F38W/25-740	38W	104V	0.430A	1047mm	2A	G13	4000K	2600 lm	25
<b>T8 Special Length Warm White (29-530)</b>										
0000040	F14W/29-530	14W	38V	0.395A	361mm	3	G13	3000K	700 lm	25
0000065	F15W/29-530	15W	55V	0.310A	438mm	3	G13	3000K	900 lm	25
0000861	F16W/29-530	16W	95V	0.200A	720mm	3	G13	3000K	1100 lm	25
0001086	F25W/30"/29-530	25W	84V	0.360A	742mm/30"	3	G13	3000K	1800 lm	25
0000145	F30W/29-530	30W	96V	0.365A	895mm	3	G13	3000K	2200 lm	25
<b>T8 Special Length White (35-535)</b>										
0000063	F15W/35-535	15W	55V	0.310A	438mm	3	G13	3500K	900 lm	25
0000868	F16W/35-535	16W	95V	0.200A	720mm	3	G13	3500K	1100 lm	25
0000143	F30W/35-535	30W	96V	0.365A	895mm	3	G13	3500K	2200 lm	25
<b>T8 Special Length Cool White (33-640)</b>										
0000039	F14W/33-640	14W	38V	0.395A	361mm	2B	G13	4000K	700 lm	25
0000064	F15W/33-640	15W	55V	0.310A	438mm	2B	G13	4000K	900 lm	25
0000860	F16W/33-640	16W	95V	0.200A	720mm	2B	G13	4000K	1100 lm	25
0001768	F25W/28"/33-640	25W	80V	0.380A	691mm/28"	2B	G13	4000K	1700 lm	25
0001085	F25W/30"/33-640	25W	84V	0.360A	742mm/30"	2B	G13	4000K	1800 lm	25
0001770	F25W/33"/33-640	25W	90V	0.340A	818mm/33"	2B	G13	4000K	1900 lm	25
0000144	F30W/33-640	30W	96V	0.365A	895mm	2B	G13	4000K	2200 lm	25
<b>T8 Special Length Daylight (54-765)</b>										
0000037	F14W/54-765	14W	38V	0.395A	361mm	2A	G13	6500K	650 lm	25
0000062	F15W/54-765	15W	55V	0.310A	438mm	2A	G13	6500K	750 lm	25
0001767	F25W/28"/54-765	25W	80V	0.380A	691mm/28"	2A	G13	6500K	1500 lm	25
0001769	F25W/33"/54-765	25W	90V	0.340A	818mm/33"	2A	G13	6500K	1700 lm	25
0000142	F30W/54-765	30W	96V	0.365A	895mm	2A	G13	6500K	1900 lm	25

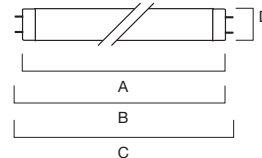
## T8 Luxline® Plus



G13

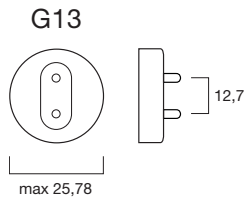


	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26

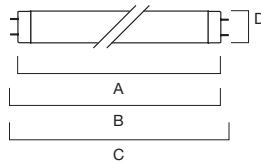


- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Colour rendering: Ra80-89/Class 1B
- High luminous efficacy
- Average rated life 20000 hours (based on 3hrs burning cycle)
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified in the European Standard EN 12464-1 for workplaces

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T8 LuxLine Plus Homelight De Luxe (827)</b>										
0001505	F18W/827	18W	57V	0.370A	590mm	1B	G13	2700K	1350 lm	25
0001514	F36W/827	36W	103V	0.430A	1200mm	1B	G13	2700K	3350 lm	25
0001535	F58W/827	58W	110V	0.670A	1500mm	1B	G13	2700K	5200 lm	25
0000582	F70W/827	70W	128V	0.700A	1764mm	1B	G13	2700K	6000 lm	25
<b>T8 LuxLine Plus Warm White De Luxe (830)</b>										
0001501	F18W/830	18W	57V	0.370A	590mm	1B	G13	3000K	1350 lm	25
0001511	F36W/830	36W	103V	0.430A	1200mm	1B	G13	3000K	3350 lm	25
0001531	F58W/830	58W	110V	0.670A	1500mm	1B	G13	3000K	5200 lm	25
0001093	F70W/830	70W	128V	0.700A	1764mm	1B	G13	3000K	6000 lm	25
<b>T8 LuxLine Plus White De Luxe (835)</b>										
0000580	F18W/835	18W	57V	0.370A	590mm	1B	G13	3500K	1350 lm	25
0000578	F36W/835	36W	103V	0.430A	1200mm	1B	G13	3500K	3350 lm	25
0001394	F58W/835	58W	110V	0.670A	1500mm	1B	G13	3500K	5200 lm	25
0000581	F70W/835	70W	128V	0.700A	1764mm	1B	G13	3500K	6000 lm	25
<b>T8 LuxLine Plus Cool White De Luxe (840)</b>										
0001500	F18W/840	18W	57V	0.370A	590mm	1B	G13	4000K	1350 lm	25
0001510	F36W/840	36W	103V	0.430A	1200mm	1B	G13	4000K	3350 lm	25
0001530	F58W/840	58W	110V	0.670A	1500mm	1B	G13	4000K	5200 lm	25
0001094	F70W/840	70W	128V	0.700A	1764mm	1B	G13	4000K	6000 lm	25
<b>T8 LuxLine Plus Daylight De Luxe (865)</b>										
0001502	F18W/865	18W	57V	0.370A	590mm	1B	G13	6500K	1300 lm	25
0001512	F36W/865	36W	103V	0.430A	1200mm	1B	G13	6500K	3250 lm	25
0001532	F58W/865	58W	110V	0.670A	1500mm	1B	G13	6500K	5000 lm	25
0001095	F70W/865	70W	128V	0.700A	1764mm	1B	G13	6500K	5700 lm	25



	A max	B min	B max	C max	D nom
15W	437.4	442.1	444.5	451.6	26
30W	894.6	899.3	901.7	908.8	26
38W	1047.0	1051.7	1054.1	1061.2	26




- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Colour rendering: Ra80-89/Class 1B
- High luminous efficacy
- Average rated life 20000 hours (based on 3hrs burning cycle)
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified in the European Standard EN 12464-1 for workplaces

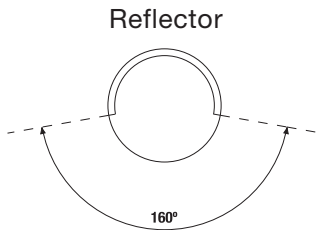


Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T8 Luxline Plus Special Length Homelight De Luxe (827)</b>										
0001850	F15W/827	15W	55V	0.310A	438mm	1B	G13	2700K	950 lm	25
0001680	F30W/827	30W	96V	0.365A	895mm	1B	G13	2700K	2400 lm	25
<b>T8 Luxline Plus Special Length Warm White De Luxe (830)</b>										
0001853	F15W/830	15W	55V	0.310A	438mm	1B	G13	3000K	950 lm	25
0001079	F30W/830	30W	96V	0.365A	895mm	1B	G13	3000K	2400 lm	25
0001521	F38W/830	38W	104V	0.430A	1047mm	1B	G13	3000K	3200 lm	25
<b>T8 Luxline Plus Special Length Cool White De Luxe (840)</b>										
0000567	F15W/840	15W	55V	0.310A	438mm	1B	G13	4000K	950 lm	25
0001080	F30W/840	30W	96V	0.365A	895mm	1B	G13	4000K	2400 lm	25
0001520	F38W/840	38W	104V	0.430A	1047mm	1B	G13	4000K	3200 lm	25
<b>T8 Luxline Plus Special Length Daylight De Luxe (865)</b>										
0000947	F15W/865	15W	55V	0.310A	438mm	1B	G13	6500K	900 lm	25
0001078	F30W/865	30W	96V	0.365A	895mm	1B	G13	6500K	2300 lm	25

# T8 Luxline® Plus Reflector

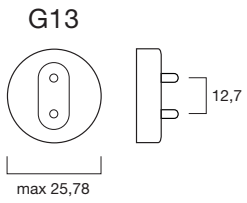


**Reflector**



160°

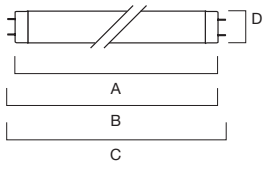
**G13**




max 25,78


12,7

	A max	B min	B max	C max	D nom
58W	1500.0	1504.7	1507.1	1514.2	26






universal



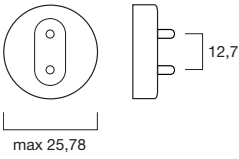
- T8 fluorescent lamp with a 200° internal reflector
- Directional control of light
- Approximately 75% of light is directed through a beam angle of 160°
- For optimising existing luminaires with no reflector
- High colour rendering due to Luxline Plus triphosphor (Class 1B)



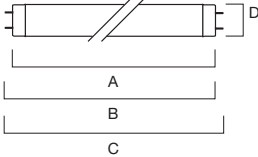





Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
<b>T8 LuxLine Plus Reflector</b>										
0001537	FR58W/840	58W	110V	0.700A	Cool White Deluxe	1B	G13	4000K	5200 lm	25

**G13**




	A max	B min	B max	C max	D nom
36W	970.0	974.7	977.1	984.2	26
58W	1500.0	1504.7	1507.1	1514.2	26

- Fluorescent lamp with a transparent VPE plastic sleeve
- Protection against glass splinters and other lamp parts
- Absorbs UV radiation below 380nm
- Maximum 5% decrease in light output compared to a standard lamp
- Colour temperature and colour rendering not affected
- Average rated life 10,000 hours
- This lamp should not be used in enclosed (IP65) fittings



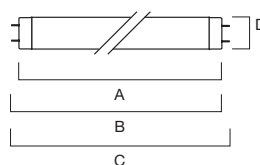
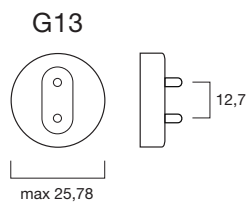


Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
<b>T8 LuxLine Plus Shatter-Resistant</b>										
0001517	F36W/840 Shatter-Resistant	36W	103V	0.430A	Cool White Deluxe	1B	G13	4000K	3180 lm	25
0001528	F58W/840 Shatter-Resistant	58W	110V	0.670A	Cool White Deluxe	1B	G13	4000K	4940 lm	25

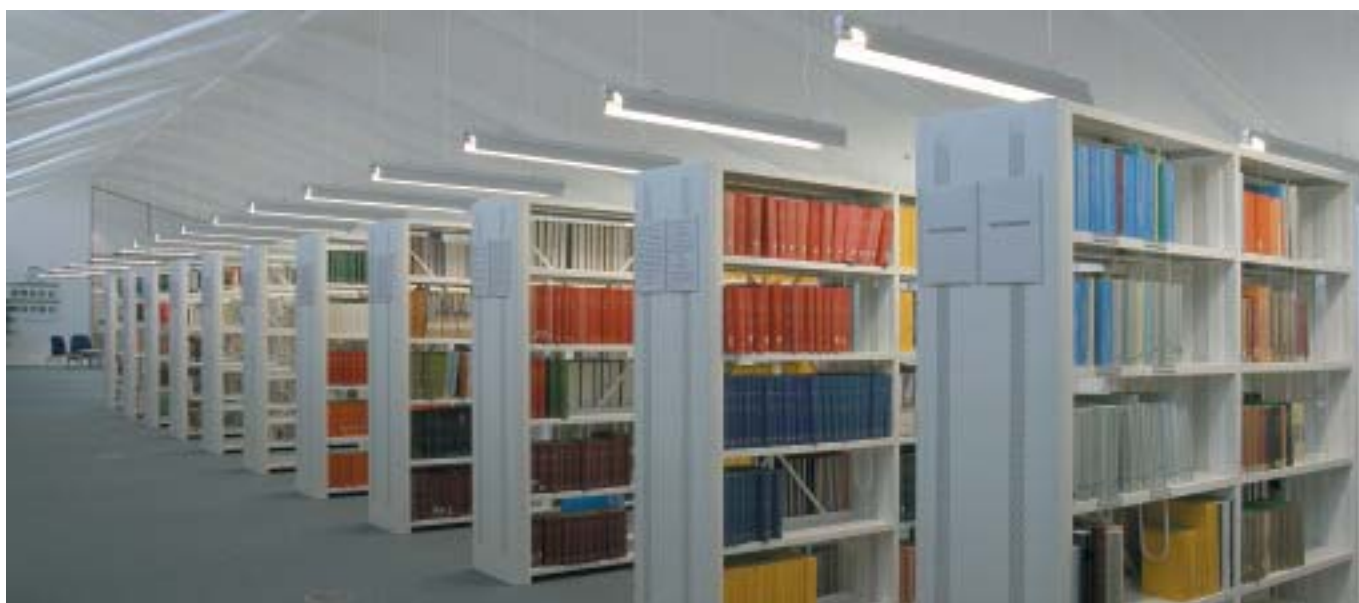
# T8 Octron



	A max	B min	B max	C max	D nom
32W	1199.4	1204.1	1206.5	1213.6	26

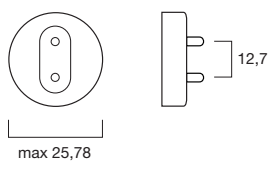


- T8 fluorescent lamps for the exclusive use with an Octron ballast
- Maximum energy efficiency
- High colour rendering: Ra85/Class 1B
- High light output
- High lamp lumen maintenance factor



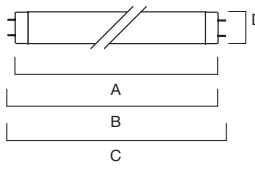
Code	Description	Nominal Lamp			Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
<b>T8 Octron Daylight (54-765)</b>										
0002336	F032W/65K 54-765	32W	135V	0.265A	1200mm	2A	G13	6500K	2100 lm	25
<b>T8 Octron Warm White De Luxe (830)</b>										
0001700	F032W/31K 830	32W	135V	0.265A	1200mm	1B	G13	3100K	2900 lm	25
<b>T8 Octron Cool White De Luxe (840)</b>										
0001701	F032W/41K 840	32W	135V	0.265A	1200mm	1B	G13	4100K	2900 lm	25
<b>T8 Octron Daylight White De Luxe (865)</b>										
0001703	F032W/65K 865	32W	135V	0.265A	1200mm	1B	G13	6500K	2600 lm	25


**G13**




max 25,78

	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26








universal


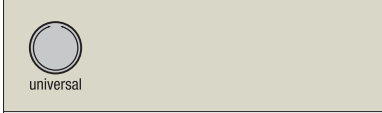

- Range of T8 fluorescent lamps with a coloured phosphor coating
- Available in 4 colours: red, yellow, green and blue
- Used to create special lighting effects in shop windows, bars, fairground attractions, dance halls and discotheques





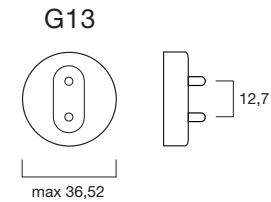
Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Luminous Flux	Cap	Packing Qty
<b>T8 Coloured 590mm Length</b>									
0002572	F 18W/T8/R	18W	57V	0.370A	590mm	Red	550 lm	G13	25
0002573	F 36W/T8/R	36W	103V	0.430A	1200mm	Red	1250 lm	G13	25
0002574	F 58W/T8/R	58W	110 V	0.670 A	1500 mm	Red	2500 lm	G13	25
0002561	F 18W/T8/Y	18W	57V	0.370A	590mm	Yellow	650 lm	G13	25
0002565	F 36W/T8/Y	36W	103V	0.430A	1200mm	Yellow	1500 lm	G13	25
0002569	F 58W/T8/Y	58W	110 V	0.670 A	1500 mm	Yellow	2300 lm	G13	25
0002562	F 18W/T8/G	18W	57V	0.370A	590mm	Green	1300 lm	G13	25
0002566	F 36W/T8/G	36W	103V	0.430A	1200mm	Green	3000 lm	G13	25
0002570	F 58W/T8/G	58W	110 V	0.670 A	1500 mm	Green	5000 lm	G13	25
0002563	F 18W/T8/B	18W	57V	0.370A	590mm	Blue	300 lm	G13	25
0002567	F 36W/T8/B	36W	103V	0.430A	1200mm	Blue	700 lm	G13	25
0002571	F 58W/T8/B	58W	110 V	0.670 A	1500 mm	Blue	1200 lm	G13	25

## T12 Standard / Luxline Plus

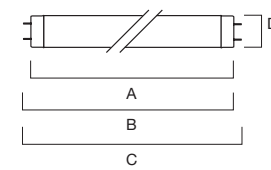





	A max	B min	B max	C max	D nom
20W	589.8	594.5	596.9	604.0	38
25W/1m	970.0	974.7	977.1	984.2	38
40W/1m	970.0	974.7	977.1	984.2	38
40W	1199.4	1204.1	1206.5	1213.6	38
65W	1500.0	1504.7	1507.1	1514.2	38
65/80W	1500.0	1504.7	1507.1	1514.2	38
75/85W	1763.8	1768.5	1770.9	1778.0	38
100W	2374.3	2379.0	2381.4	2388.5	38
125W	2374.3	2379.0	2381.4	2388.5	38

**G13**



max 36,52






- Wide range of standard T12 fluorescent lamps in various wattages and colours
- For use in luminaires and installations where T8 Standard is not suitable
- RS: Rapid Start in accordance with EN 60081
- 100W and 125W with triphosphor coating with high colour rendering (Ra85/Class 1B)

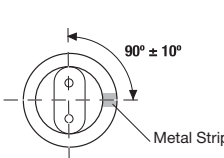
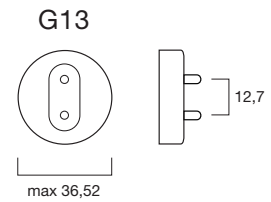
Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T12 Standard Universal White (25-740)</b>										
0001552	F20W/25-740 RS	20W	57V	0.370A	590mm	2A	G13	4000K	1050 lm	25
0000403	F40W/1M/25-740 RS	40W	81V	0.556A	970mm	2A	G13	4000K	2400 lm	25
0001555	F40W/25-740 RS	40W	103V	0.430A	1200mm	2A	G13	4000K	2500 lm	25
0001558	F65W/25-740 RS	65W	110V	0.670A	1500mm	2A	G13	4000K	4000 lm	25
<b>T12 Standard Warm White (29-530)</b>										
0001551	F20W/29-530 RS	20W	57V	0.370A	590mm	3	G13	3000K	1200 lm	25
0001554	F40W/29-530 RS	40W	103V	0.430A	1200mm	3	G13	3000K	3000 lm	25
0001557	F65W/29-530	65W	110V	0.670A	1500mm	3	G13	3000K	4800 lm	25
0000446	F65/80W/29-530	65W	110V	0.670A	1500mm	3	G13	3000K	4800 lm	25
0000446	F65/80W/29-530	80W	99V	0.870A	1500mm	3	G13	3000K	5500 lm	25
0001009	F85W/29-530	85W	120V	0.800A	1764mm	3	G13	3000K	6400 lm	25
<b>T12 Standard White (35-535)</b>										
0001562	F20W/35-535 RS	20W	57V	0.370A	590mm	3	G13	3500K	1200 lm	25
0001563	F40W/35-535 RS	40W	103V	0.430A	1200mm	3	G13	3500K	3000 lm	25
0000444	F65/80W/35-535 RS	65W	110V	0.670A	1500mm	3	G13	3500K	4800 lm	25
0000444	F65/80W/35-535 RS	80W	99V	0.870A	1500mm	3	G13	3500K	5500 lm	25
0001008	F75/85W/35-535	75W	130V	0.670A	1764mm	3	G13	3500K	6000 lm	25
0001008	F75/85W/35-535	85W	120V	0.800A	1764mm	3	G13	3500K	6400 lm	25
0001028	F100W/35-535	100W	125V	0.960A	2400mm	3	G13	3500K	8200 lm	25
0001038	F125W/35-535	125W	149V	0.940A	2400mm	3	G13	3500K	9500 lm	25



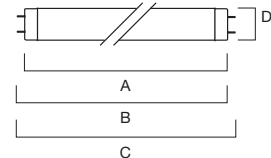
Code	Description	Nominal Lamp			Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
<b>T12 Standard Cool White (33-640)</b>										
0001550	F20W/33-640 RS	20W	57V	0.370A	590mm	2B	G13	4000K	1200 lm	25
0000393	F25W/1M/33-640 RS	25W	94V	0.290A	970mm	2B	G13	4000K	1800 lm	25
0000399	F40W/1M/33-640 RS	40W	81V	0.556A	970mm	2B	G13	4000K	2800 lm	25
0001553	F40W/33-640 RS	40W	103V	0.430A	1200mm	2B	G13	4000K	3000 lm	25
0001556	F65W/33-640 RS	65W	110V	0.670A	1500mm	2B	G13	4000K	4800 lm	25
0000445	F65/80W/33-640 RS	65W	110V	0.670A	1500mm	2B	G13	4000K	4800 lm	25
0000445	F65/80W/33-640 RS	80W	99V	0.870A	1500mm	2B	G13	4000K	5500 lm	25
0001017	F75/85W/33-640	75W	130V	0.670A	1764mm	2B	G13	4000K	6000 lm	25
0001017	F75/85W/33-640	85W	120V	0.800A	1764mm	2B	G13	4000K	6400 lm	25
0001027	F100W/33-640	100W	125V	0.960A	2400mm	2B	G13	4000K	8200 lm	25
<b>T12 Standard Daylight (54-765)</b>										
0001559	F20W/54-765 RS	20W	57V	0.370A	590mm	2A	G13	6500K	1050 lm	25
0000391	F25W/1M/54-765 RS	25W	94V	0.290A	970mm	2A	G13	6500K	1600 lm	25
0000397	F40W/1M/54-765 RS	40W	81V	0.556A	970mm	2A	G13	6500K	2500 lm	25
0001560	F40W/54-765 RS	40W	103V	0.430A	1200mm	2A	G13	6500K	2500 lm	25
0001561	F65W/54-765 RS	65W	110V	0.670A	1500mm	2A	G13	6500K	4200 lm	25
0001138	F75/85W/54-765	75W	130V	0.670A	1764mm	2A	G13	6500K	5000 lm	25
0001138	F75/85W/54-765	85W	120V	0.800A	1764mm	2A	G13	6500K	5300 lm	25
<b>T12 Luxline Plus Cool White De Luxe (840)</b>										
0001029	F100W/840	100W	125V	1.0A	2400mm	1B	G13	4000K	9300 lm	25
0001037	F125W/840	125W	145V	1.0A	2400mm	1B	G13	4000K	10500 lm	25



# T12 IRS







	A max	B min	B max	C max	D nom
20W	589.8	594.5	596.9	604.0	38
40W	1199.4	1204.1	1206.5	1213.6	38
65W	1500.0	1504.7	1507.1	1514.2	38



- T12 fluorescent lamp with a resistor cap, 3.6V electrodes and an external ignition stripe
- For an immediate, soft and flicker-free start
- For rapid start or semi-resonant ballast
- Dimmable T12 lamp





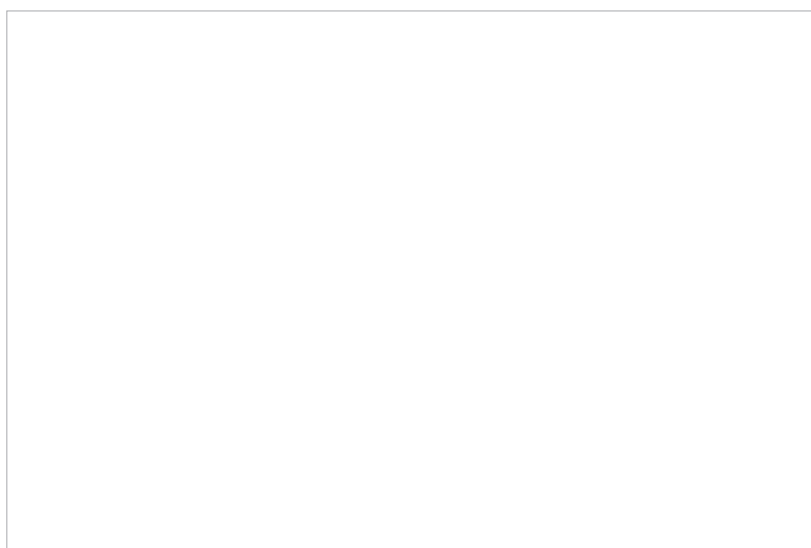
Code	Description	Watt	Volt	Current	Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T12 IRS Warm White (29-530)</b>										
0000424	F20W/29-530-IRS	20W	57V	0.370A	590mm	3	G13	3000K	1200 lm	25
0000431	F40W/29-530-IRS	40W	103V	0.430A	1200mm	3	G13	3000K	3000 lm	25
<b>T12 IRS Cool White (33-640)</b>										
0000423	F20W/33-640-IRS	20W	57V	0.370A	590mm	2B	G13	4000K	1200 lm	25
0000430	F40W/33-640-IRS	40W	103V	0.430A	1200mm	2B	G13	4000K	3000 lm	25
0000438	F65W/33-640-IRS	65W	110V	0.670A	1500mm	2B	G13	4000K	4800 lm	25

# T12 High Output / Very High Output

**R17d**

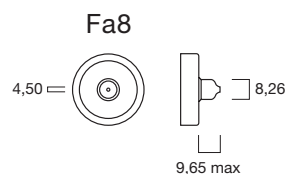
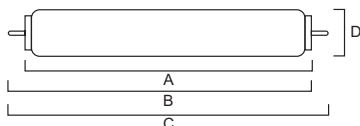
	Length		Bulb	
	A Min.	A Max.	D Min.	D Max.
60W	1161	1166	35.8	40.5
85W	1771	1775	35.8	40.5
110W	2380.5	2385.3	35.8	40.5

- High lumen output lamps



Code	Description	Nominal Watt	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T12 High Output Cool White</b>								
9000218	F48T12/CW/HO	60W	1168mm	2B	R17d	4200K	4050 lm	30
0000263	F72T12/CW/HO	85W	1776mm	2B	R17d	4200K	6250 lm	15
0000300	F96T12/CW/HO	110W	2385mm	2B	R17d	4200K	8600 lm	15
<b>T12 High Output Daylight</b>								
0000261	F72T12/D/HO	85W	1776mm	2A	R17d	6500K	5550 lm	15
<b>T12 Very High Output Cool White</b>								
0000269	F72T12/CW/VHO	160W	1776mm	2B	R17d	4200K	10600 lm	15
0000307	F96T12/CW/VHO	215W	2385mm	2B	R17d	4200K	14000 lm	15

# Slimline T8 / T12



	A Min	A Max.	B Min	B Max.	C Min	C Max.	D Min	D Max.
52W						1574.8	24	27.8
38W/55W	1755.1	1760.2	1763.7	1769.1	1771.4	1778	24	27.8
51/75W	2364.7	2369.8	2372.9	2378.7	2381	2387.6	24	27.8

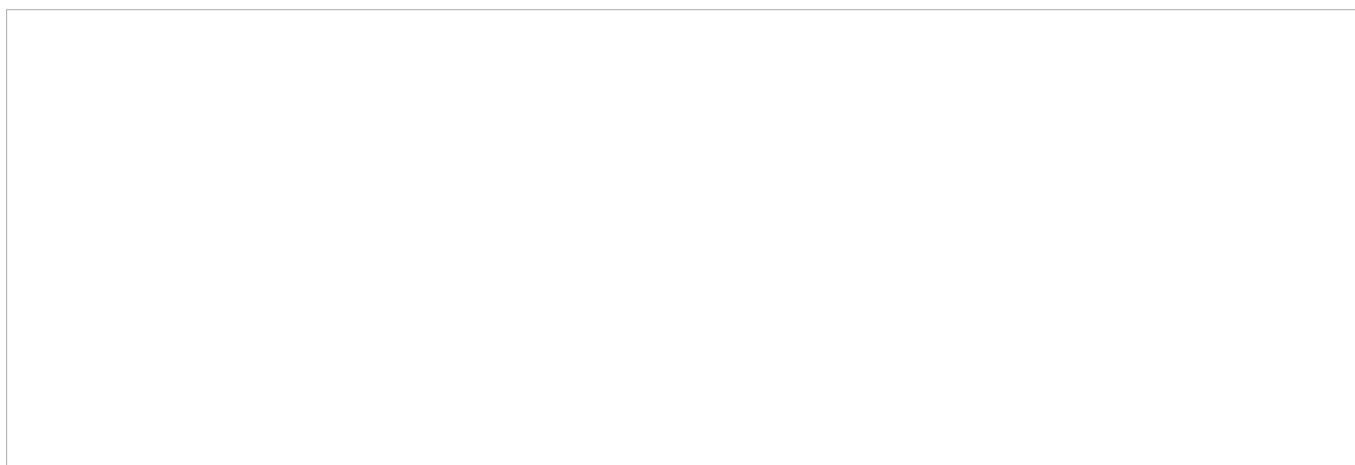
A - Base face to base face  
 B - Base face to end of opposite base pin  
 C - End of base pin to end of opposite pin end  
 D - Bulb outside diameter



universal



- Wide range of single pin fluorescent lamps
- Operate without the use of a starter
- General lighting in industrial areas and for special applications i.e. refrigerated food displays



Code	Description	Nominal Watt	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
<b>T8 Slimline Cool White</b>								
9000011	F72T8/CW	38W	1778mm	2B	Fa8	4200K	3050 lm	24
0000282	F96T8/CW	51W	2387mm	2B	Fa8	4200K	4000 lm	24
<b>T8 Slimline Daylight</b>								
0000246	F72T8/D	38W	1778mm	2A	Fa8	6500K	2600 lm	24
0000280	F96T8/D	51W	2387mm	2A	Fa8	6500K	3550 lm	24
<b>T12 Slimline Cool White</b>								
9000242	F64T12/CW	52W	1575mm	2B	Fa8	4200K	3900 lm	30
0000255	F72T12/CW	55W	1778mm	2B	Fa8	4200K	4500 lm	15
9000291	F96T12/CW	75W	2387mm	2B	Fa8	4200K	6300 lm	15
<b>T12 Slimline Daylight</b>								
9000240	F64T12/D	52W	1575mm	2A	Fa8	6500K	3300 lm	30


**G10q**

	A min	A max	B min	B max	C or D min	C or D max	d min	d max
22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9
32W	239.7	246.1	236.5	246.1	292.1	304.8	26.2	30.9
40W	341.3	347.7	338.1	347.7	393.7	406.4	26.2	30.9
60W	341.3	347.7	338.1	347.7	393.7	406.4	26.2	30.9

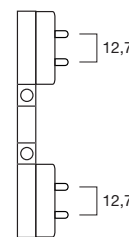
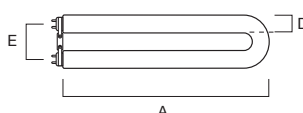
- T9 circular fluorescent lamps
- Available in standard colours
- Suitable in a wide range of round and square shaped luminaires for various purposes
- For commercial and domestic lighting

Code	Description	Nominal Lamp			Lamp Diameter	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
<b>T9 Circular Universal White (25-740)</b>										
<b>0000478</b>	FC22W/25-740	22W	62V	0.400A	216mm Ø	2A	G10q	4000K	1000 lm	12
<b>0000488</b>	FC32W/25-740	32W	84V	0.450A	305mm Ø	2A	G10q	4000K	1700 lm	12
<b>0000497</b>	FC40W/25-740	40W	115V	0.415A	406mm Ø	2A	G10q	4000K	2300 lm	12
<b>T9 Circular Warm White (29-530)</b>										
<b>0000475</b>	FC22W/29-530	22W	62V	0.400A	216mm Ø	3	G10q	3000K	1100 lm	12
<b>0000485</b>	FC32W/29-530	32W	84V	0.450A	305mm Ø	3	G10q	3000K	2000 lm	12
<b>0000494</b>	FC40W/29-530	40W	115V	0.415A	406mm Ø	3	G10q	3000K	2800 lm	12
<b>0001065</b>	FC60W/29-530	60W	92V	0.750A	406mm Ø	3	G10q	3000K	3650 lm	12
<b>T9 Circular Cool White (33-640)</b>										
<b>0000474</b>	FC22W/33-640	22W	62V	0.400A	216mm Ø	2B	G10q	4000K	1100 lm	12
<b>0000484</b>	FC32W/33-640	32W	84V	0.450A	305mm Ø	2B	G10q	4000K	2000 lm	12
<b>0000493</b>	FC40W/33-640	40W	115V	0.415A	406mm Ø	2B	G10q	4000K	2800 lm	12
<b>T9 Circular Daylight (54-765)</b>										
<b>0000472</b>	FC22W/54-765	22W	62V	0.400A	216mm Ø	2A	G10q	6500K	1000 lm	12
<b>0000482</b>	FC32W/54-765	32W	84V	0.450A	305mm Ø	2A	G10q	6500K	1700 lm	12
<b>0000491</b>	FC40W/54-765	40W	115V	0.415A	406mm Ø	2A	G10q	6500K	2400 lm	12



## T8 U-Shaped




**2G13**

	A min	A max	D max	E min	E max
18W	300	310	27	90	94
36W	597	607	27	90	94
58W	750	765	27	90	94

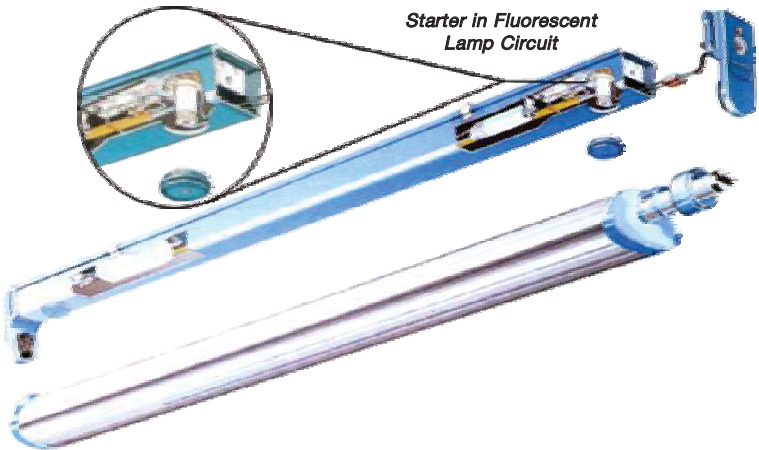


- T8 U-shaped fluorescent lamps in standard colours
- Suitable for rectangular shaped luminaires
- For commercial, domestic lighting, as well as for outdoor and streetlighting applications, especially in German-speaking countries



Code	Description	Nominal Lamp			Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
<b>T8 U-Shaped Universal White (25-740)</b>										
0000510	FU18W/25-740	18W	60V	0.370A	310mm	2A	2G13	4000K	1000 lm	24
0000511	FU36W/25-740	36W	103V	0.430A	607mm	2A	2G13	4000K	2400 lm	12
0000512	FU58W/25-740	58W	110V	0.670A	765mm	2A	2G13	4000K	3650 lm	12
<b>T8 U-Shaped Warm White (29-530)</b>										
0000513	FU36W/29-530	36W	103V	0.430A	607mm	3	2G13	3000K	2600 lm	12
0000514	FU58W/29-530	58W	110V	0.670A	765mm	3	2G13	3000K	4100 lm	12

## FS Standard Starters



Starter in Fluorescent Lamp Circuit



SYLVANIA  
GAB1381  
**FS-11**  
F4W...65W, F80W  
CF4RL...80W

ENEC VDE

- Reliable and fast starting
- Suitable for temperatures from -20°C to +80°C
- For single and twin lamp operation
- Testhouse approved and ENEC/VDE marked

Code	Description	Watt	Volt	Lamp Type	Circuit	Packing Qty
<b>FS Standard Starters</b>						
<b>0024454</b>	FS-11	4, 6, 8, 13W	220-240V	T5	Single	10/500/1000
		14, 15, 16, 18, 25, 36, 38, 58W	220-240V	T8	Single	
		20, 40, 65, 80W	220-240V	T12	Single	
		22, 32, 40, 60W	220-240V	Circline	Single	
		18, 24, 36W	220-240V	CF-L	Single	
<b>0024456</b>	FS-11	As Above	220-240V	As Above	Single	500/1000
						Industrial Pack
<b>0024455</b>	FS-22	4, 6, 8W	120V	T12	Single	10/500/1000
		4, 6, 8W	230V	T12	Twin	
		14, 15, 18W	120V	T8	Single	
		14, 15, 18W	230V	T8	Twin	
		20W	120V	T12	Single	
		20W	230V	T12	Twin	
		22W	120V	Circline	Single	
		22W	230V	Circline	Twin	
		18W	120V	CF-L	Single	
		18W	230V	CF-L	Twin	
		18W	120V	CF-F	Single	
		18W	230V	CF-F	Twin	
		<b>0024457</b>	FS-22	As Above	As Above	As Above
						Industrial Pack

## COP Safety Starters

	
	
	<ul style="list-style-type: none"> <li>● Quick-start without increasing the starting current</li> <li>● Immediate switch off in case of flickering or defective lamp (end of life)</li> <li>● Prevents overheating of the ballast</li> <li>● Extended life compared to standard starters</li> <li>● Reduced maintenance cost due to longer life time</li> <li>● For single and twin lamp operation</li> <li>● Testhouse approved and ENEC/VDE marked</li> </ul>

Code	Description	Watt	Volt	Lamp Type	Circuit	Packing Qty
<b>COP Safety Starters</b>						
<b>0024469</b>	COP-10	14, 15, 16, 18, 25, 30W	220-240V	T8	Single	10/100/1000
		20W	220-240V	T12	Single	
		22, 32W	220-240V	Circline	Single	
		18, 24W	220-240V	CF-L	Single	
<b>0024470</b>	COP-11	30, 36, 58W	220-240V	T8	Single	10/100/1000
		40, 65W	220-240V	T12	Single	
		32, 40, 60W	220-240V	Circline	Single	
		18, 24, 36W	220-240V	CF-L	Single	
<b>0024482</b>	COP-22	14, 15, 16, 18W	120V	T8	Single	10/100/1000
		14, 15, 16, 18W	230V	T8	Twin	
		20W	120V	T12	Single	
		20W	230V	T12	Twin	
		22W	120V	Circline	Single	
		22W	230V	Circline	Twin	
		18W	120V	CF-L	Single	
		18W	230V	CF-L	Twin	

### Ballasts for T8 and T5 Luxline® Plus

A full range of electronic ballasts is available for T8 and T5 Luxline® Plus lamps, giving you the flexibility to choose the right ballast for your specific application.

For T8 Luxline® Plus lamps, the ballast range offers:

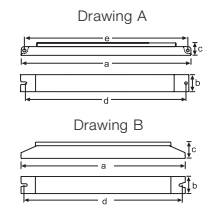
- Low power consumption and high power factor
- Warm start for optimal lamp ignition
- Compliance with all relevant IEC/ENEC requirements and standards
- Standard and analogue dimmable (0-10 V) versions.

For T5 Luxline® Plus FHE/FHO lamps, the ballast incorporates the following features:

- Defined lamp warm start (preheat of electrodes) for more than 50,000 starts
- Protection against excessive mains voltage and incorrect polarity
- Automatic safety shutdown of defective lamps at end of lamp life
- Only 21 mm high
- Protection against excessive mains voltage and incorrect polarity
- Automatic re-start after lamp change
- Great potential for miniaturisation and reduced cost of ownership
- Available in standard, analogue dimmable (0-10 V) or DALI dimmable versions.

Also available for both T8 and T5 Luxline® Plus lamps is a full range of compatible lighting control products, from simple dimmer switches to the most advanced lighting control systems. The dimmable ballast for T5 Luxline® Plus should only be used after the lamp has been operated for 100 hours without dimming.

All Helvar's ballasts manufactured according to IEC standard 60929 and with lamps which are manufactured according to IEC standard 60081, a 3-year guarantee for lamps and ballasts is provided.



NO.	1	2	3	4	5
DRAWING	A	A	A	B	B
LENGTH 'a' (mm)	280	360	430	280	360
WIDTH 'b' (mm)	30	30	30	30	30
HEIGHT 'c' (mm)	21	21	21	28	28
'd' (mm)	270	350	420	270	350
'e' (mm)	270	350	420	270	350

#### Technical data Ballasts. T5 Luxline® Plus FHO

Code	Item description	Watt	Type	No of lamps	Length (cm)	Width (cm)	Height (cm)	Packing Qty
9010997	EL 1x24 s	24	Standard	1	28	3	2.1	10
9010999	EL 2x24 s	24	Standard	2	36	3	2.1	10
9010842	EL 1x39/36 s	39	Standard	1	28	3	2.1	10
9010844	EL 2x39/36 s	39	Standard	2	36	3	2.1	10
9010956	EL 1x49 s	49	Standard	1	28	3	2.1	10
9010963	EL 2x49 s	49	Standard	2	36	3	2.1	10
9010957	EL 1x54 s	54	Standard	1	28	3	2.1	10
9010841	EL 2x54 s	54	Standard	2	36	3	2.1	10
9010843	EL 1x80 s	80	Standard	1	28	3	2.1	10
9011840	EL 1x24 si	24	Dim DALI	1	36	3	2.1	10
9010849	EL 2x24 si	24	Dim DALI	2	43	3	2.1	10
9011841	EL 1x39 si	39	Dim DALI	1	36	3	2.1	10
9010850	EL 2x39 si	39	Dim DALI	2	43	3	2.1	10
9011842	EL 1x49 si	49	Dim DALI	1	36	3	2.1	10
9010851	EL 2x49 si	49	Dim DALI	2	43	3	2.1	10
9011843	EL 1x54 si	54	Dim DALI	1	36	3	2.1	10
9010852	EL 2x54 si	54	Dim DALI	2	43	3	2.1	10
9011844	EL 1x80 si	80	Dim DALI	1	36	3	2.1	10
9010822	EL 1x24 sc	24	Dim analog (1-10V)	1	36	3	2.1	10
9010831	EL 2x24 sc	24	Dim analog (1-10V)	2	43	3	2.1	10
9010823	EL 1x39 sc	39	Dim analog (1-10V)	1	36	3	2.1	10
9010832	EL 2x39 sc	39	Dim analog (1-10V)	2	43	3	2.1	10
9010824	EL 1x49 sc	49	Dim analog (1-10V)	1	36	3	2.1	10
9010833	EL 2x49 sc	49	Dim analog (1-10V)	2	43	3	2.1	10
9010825	EL 1x54 sc	54	Dim analog (1-10V)	1	36	3	2.1	10
9010834	EL 2x54 sc	54	Dim analog (1-10V)	2	43	3	2.1	10
9010826	EL 1x80 sc	80	Dim analog (1-10V)	1	36	3	2.1	10

## Electronic Ballasts

NEW

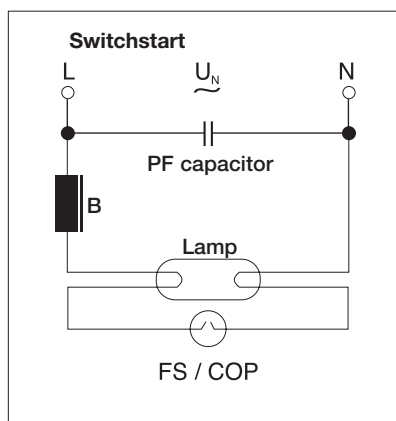
Technical data Ballasts. T5 Luxline® Plus FHE

Code	Item description	Watt	Type	No of lamps	Length (cm)	Width (cm)	Height (cm)	Packing Qty
9011022	EL 1x14-35 s	14	Standard	1	28	3	2.1	10
9011023	EL 2x14-35 s	14	Standard	2	36	3	2.1	10
9010966	EL 3/4x14 s	14	Standard	3	36	3	2.1	10
9010966	EL 3/4x14 s	14	Standard	4	36	3	2.1	10
9011022	EL 1x14-35 s	21	Standard	1	28	3	2.1	10
9011023	EL 2x14-35 s	21	Standard	2	36	3	2.1	10
9011022	EL 1x14-35 s	28	Standard	1	28	3	2.1	10
9011023	EL 2x14-35 s	28	Standard	2	36	3	2.1	10
9011022	EL 1x14-35 s	35	Standard	1	28	3	2.1	10
9011023	EL 2x14-35 s	35	Standard	2	36	3	2.1	10
9010836	EL 1x14 si	14	Dim DALI	1	36	3	2.1	10
9010845	EL 2x14 si	14	Dim DALI	2	43	3	2.1	10
9010837	EL 1x21 si	21	Dim DALI	1	36	3	2.1	10
9010846	EL 2x21 si	21	Dim DALI	2	43	3	2.1	10
9010838	EL 1x28 si	28	Dim DALI	1	36	3	2.1	10
9010847	EL 2x28 si	28	Dim DALI	2	43	3	2.1	10
9010839	EL 1x35 si	35	Dim DALI	1	36	3	2.1	10
9010848	EL 2x35 si	35	Dim DALI	2	43	3	2.1	10
9010818	EL 1x14 sc	14	Dim analog (1-10V)	1	36	3	2.1	10
9010827	EL 2x14 sc	14	Dim analog (1-10V)	2	43	3	2.1	10
9010835	EL 4x14 sc	14	Dim analog (1-10V)	4	43	3	2.1	10
9010819	EL 1x21 sc	21	Dim analog (1-10V)	1	36	3	2.1	10
9010828	EL 2x21 sc	21	Dim analog (1-10V)	2	43	3	2.1	10
9010820	EL 1x28 sc	28	Dim analog (1-10V)	1	36	3	2.1	10
9010829	EL 2x28 sc	28	Dim analog (1-10V)	2	43	3	2.1	10
9010821	EL 1x35 sc	35	Dim analog (1-10V)	1	36	3	2.1	10
9010830	EL 2x35 sc	35	Dim analog (1-10V)	2	43	3	2.1	10

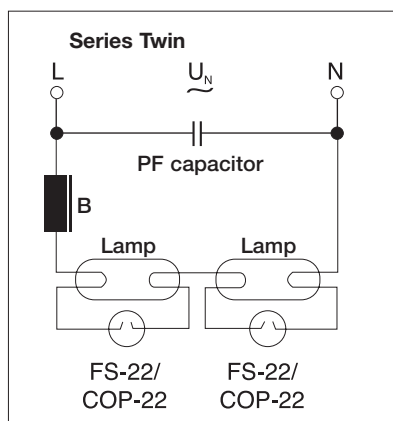
Technical data Ballasts. T8 Luxline® Plus

Code	Item description	Watt	Type	No of lamps	Length (cm)	Width (cm)	Height (cm)	Packing Qty
9010919	EL 1x18 HF	18	Standard	1	28	3	2.8	10
9010912	EL 2x18 HF	18	Standard	2	36	3	2.8	10
9010914	EL 3/4x18 su	18	Standard	3	28	3	2.1	10
9010914	EL 3/4x18 su	18	Standard	4	28	3	2.1	10
9010915	EL 1x36 HF	36	Standard	1	28	3	2.8	10
9010916	EL 2x36 HF	36	Standard	2	36	3	2.8	10
9010917	EL 1x58 HF	58	Standard	1	28	3	2.8	10
9010918	EL 2x58 HF	58	Standard	2	36	3	2.8	10
9011014	EL 1x70 s	70	Standard	1	28	3	2.8	10
9011013	EL 2x70 s	70	Standard	2	36	3	2.1	10
9010840	EL 2x36 s	36	Standard	2	36	3	2.1	10
9010808	EL 1x18 sc	18	Dim analog (1-10V)	1	36	3	2.1	10
9010813	EL 2x18 sc	18	Dim analog (1-10V)	2	43	3	2.1	10
9010817	EL 3/4x18 sc	18	Dim analog (1-10V)	4	43	3	2.1	10
9010809	EL 1x36 sc	36	Dim analog (1-10V)	1	36	3	2.1	10
9010814	EL 2x36 sc	36	Dim analog (1-10V)	2	43	3	2.1	10
9010811	EL 1x58 sc	58	Dim analog (1-10V)	1	36	3	2.1	10
9010816	EL 2x58 sc	58	Dim analog (1-10V)	2	43	3	2.1	10
9010812	EL 1x70 sc	70	Dim analog (1-10V)	1	36	3	2.1	10

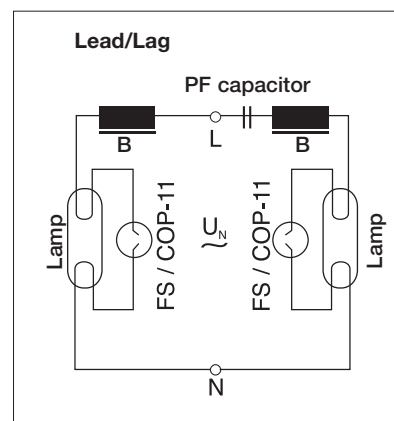
## Circuit Diagrams

**SWITCHSTART**

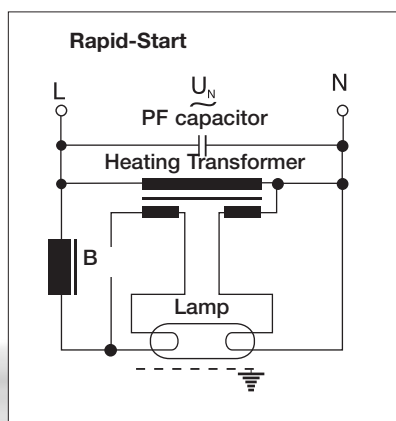
The most common circuit using a ballast and glow starter which effects electrode pre-heating. When the starter contacts open the ballast supplies the starting voltage. Reliable starting is from  $-5^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ . Use FS-11 or COP-11 starters.

**SERIES TWIN**

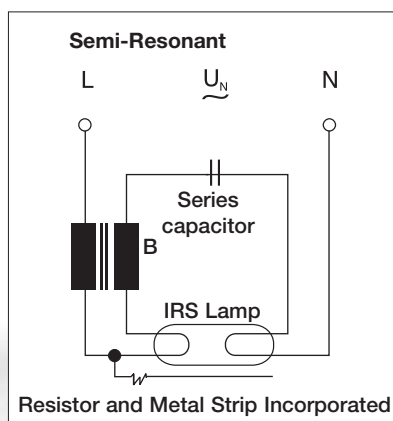
A circuit used for most lamp types up to 20W. Two fluorescent lamps are run in series using one ballast but with individual starters operating as above. Use FS-11 or COP-11 starters.

**LEAD/LAG**

A common circuit combination for Twin lamp luminaires, with high power factor and less likelihood of flicker. Use FS-11 or COP-11 starters.

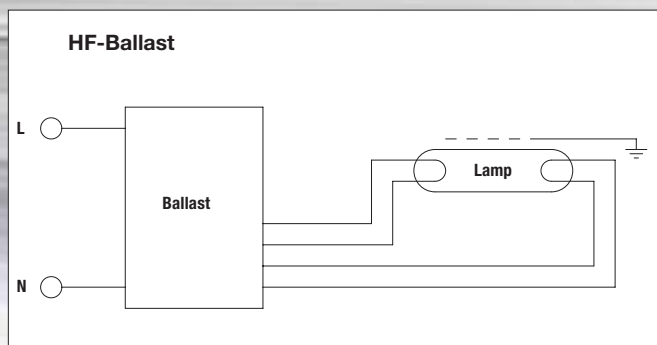
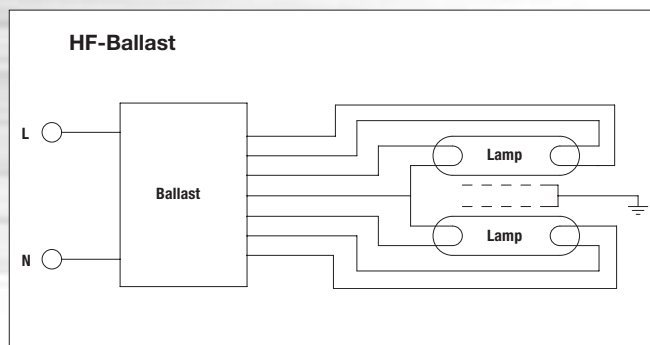
**RAPID-START**

A circuit giving flicker-free instant starting and increased lamp life. The lamp is operated in series with a standard ballast. The electrode pre-heating voltage is provided by a separate transformer. Reliable starting from  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ .

**SEMI-RESONANT**

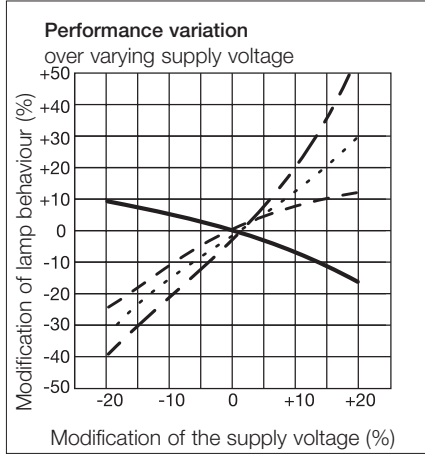
A circuit with flicker-free instant start and electrode pre-heating. An electrical resonance occurs between the secondary winding of the ballast and the capacitor, amplifying the mains voltage for starting the IRS metal stripped lamp.

L = Live conductor  
N = Neutral conductor  
L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub> = external conductor  
N = median conductor MP  
U<sub>N</sub> = power supply 230V  
B = ballast  
PF = power factor capacitor  
K<sub>Z</sub> = start-up capacitor

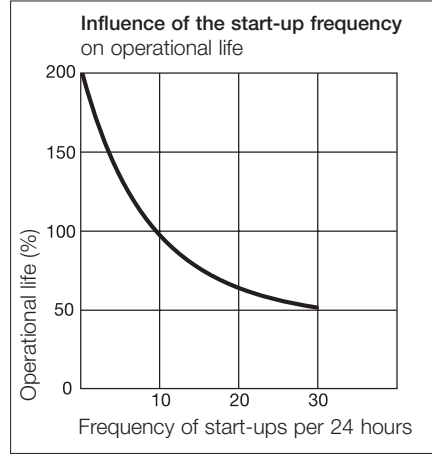
**SINGLE LAMP OPERATION****TWIN LAMP OPERATION**

# Operating Characteristics

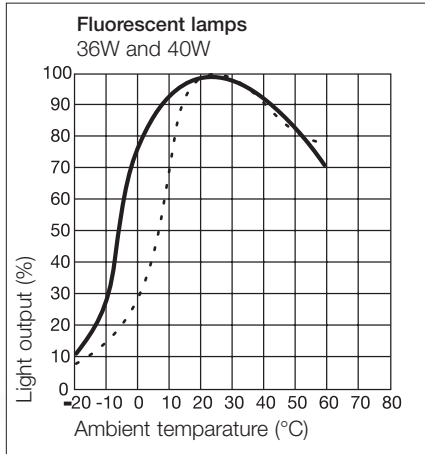
## OPERATIONAL CHARACTERISTICS



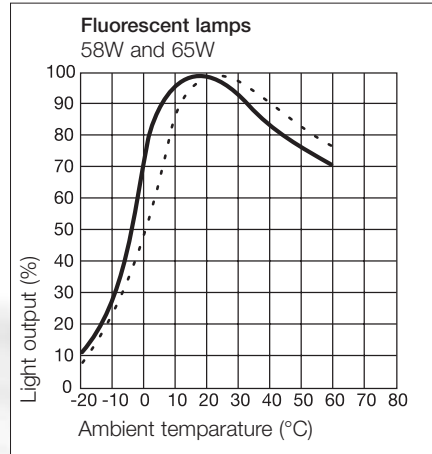
$I_L$  ——— = lamp current  
 $P_L$  ····· = lamp conductor  
 $\Phi$  - - - = light output  
 $U_L$  — · — = lamp voltage



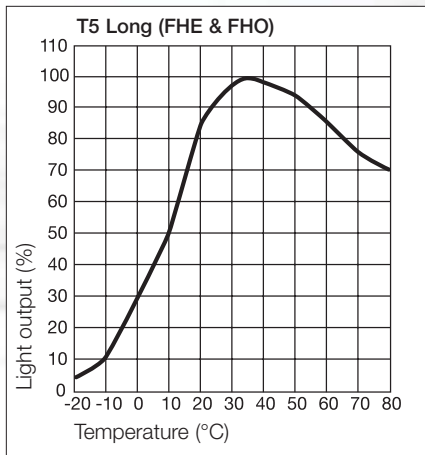
## RELATIONSHIP BETWEEN AMBIENT TEMPERATURE AND LIGHT OUTPUT



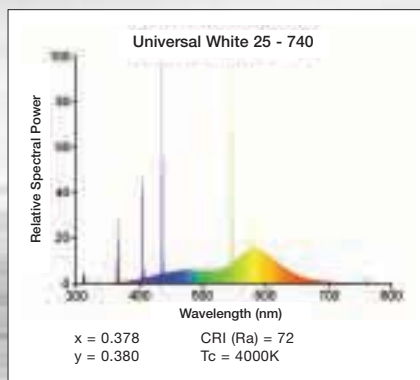
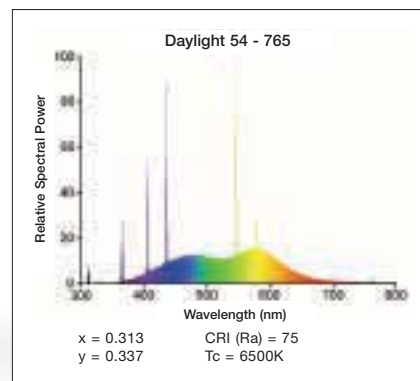
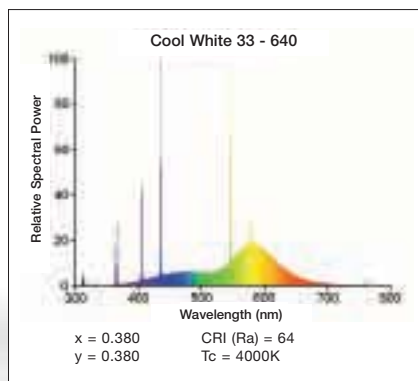
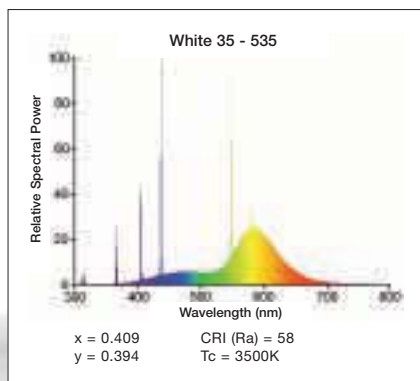
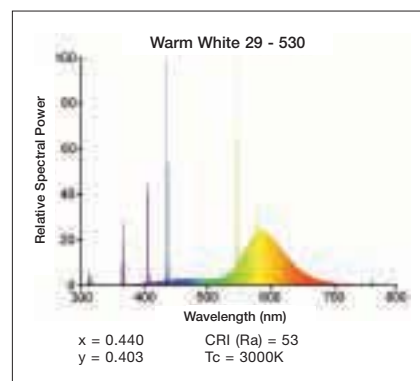
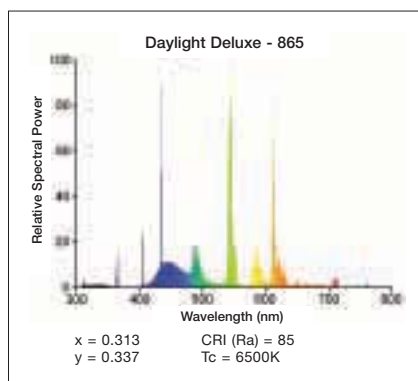
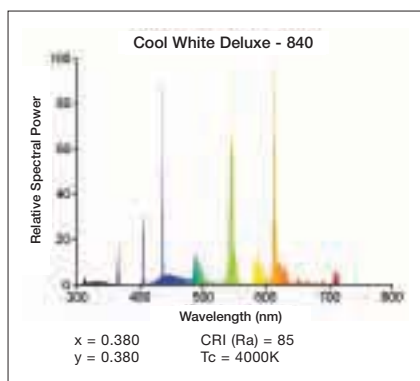
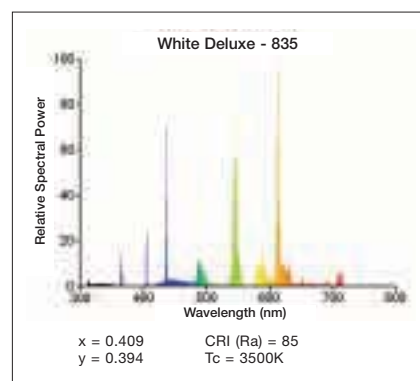
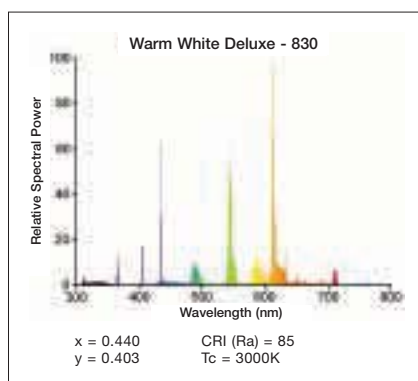
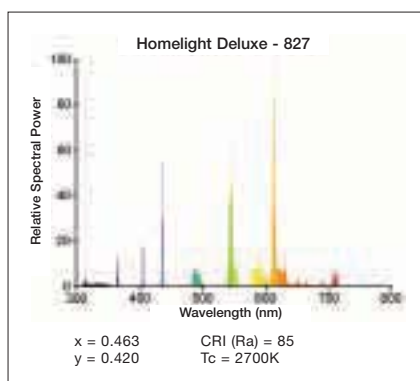
····· F36W  
 ——— F40W



····· F58W  
 ——— F65W



## Spectral Power Distribution

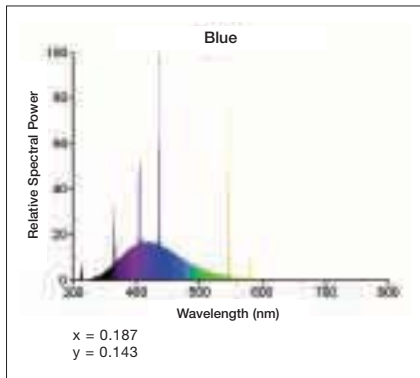
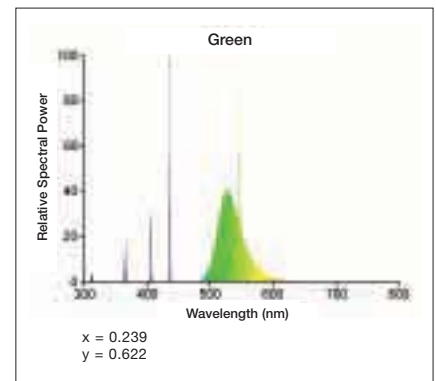
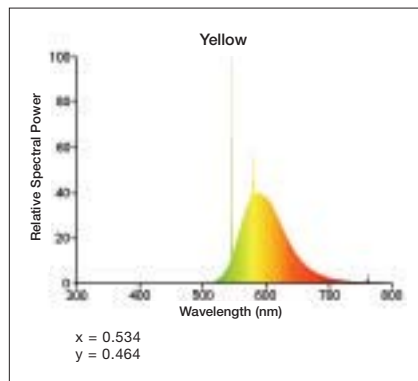
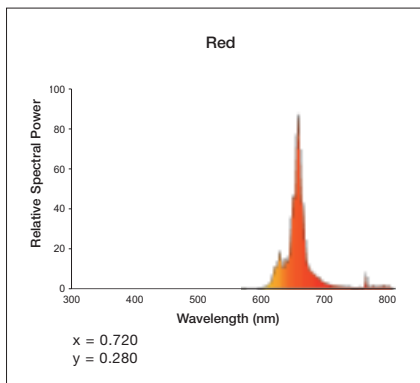


	Sylvania	Osram	Philips	GE
Halo-phosphor	33-640	640	33-640	133
	29-530	530	29-530	129
	25-740	740	25-740	125
	35-535	535	35-535	135
	54-765	765	54-765	154
Tri-phosphor	840	840	840	840
	830	830	830	830
	827	827	827	827
	835	835	835	835
	860	860	860	860

8 means CRI (Ra) > 80  
27 means Tc = 2700K

33 means a reference to the old colour description of 133 only, no link to technical specifications  
6 means CRI (Ra) > 60  
40 means Tc = 4000 K

## Spectral Power Distribution

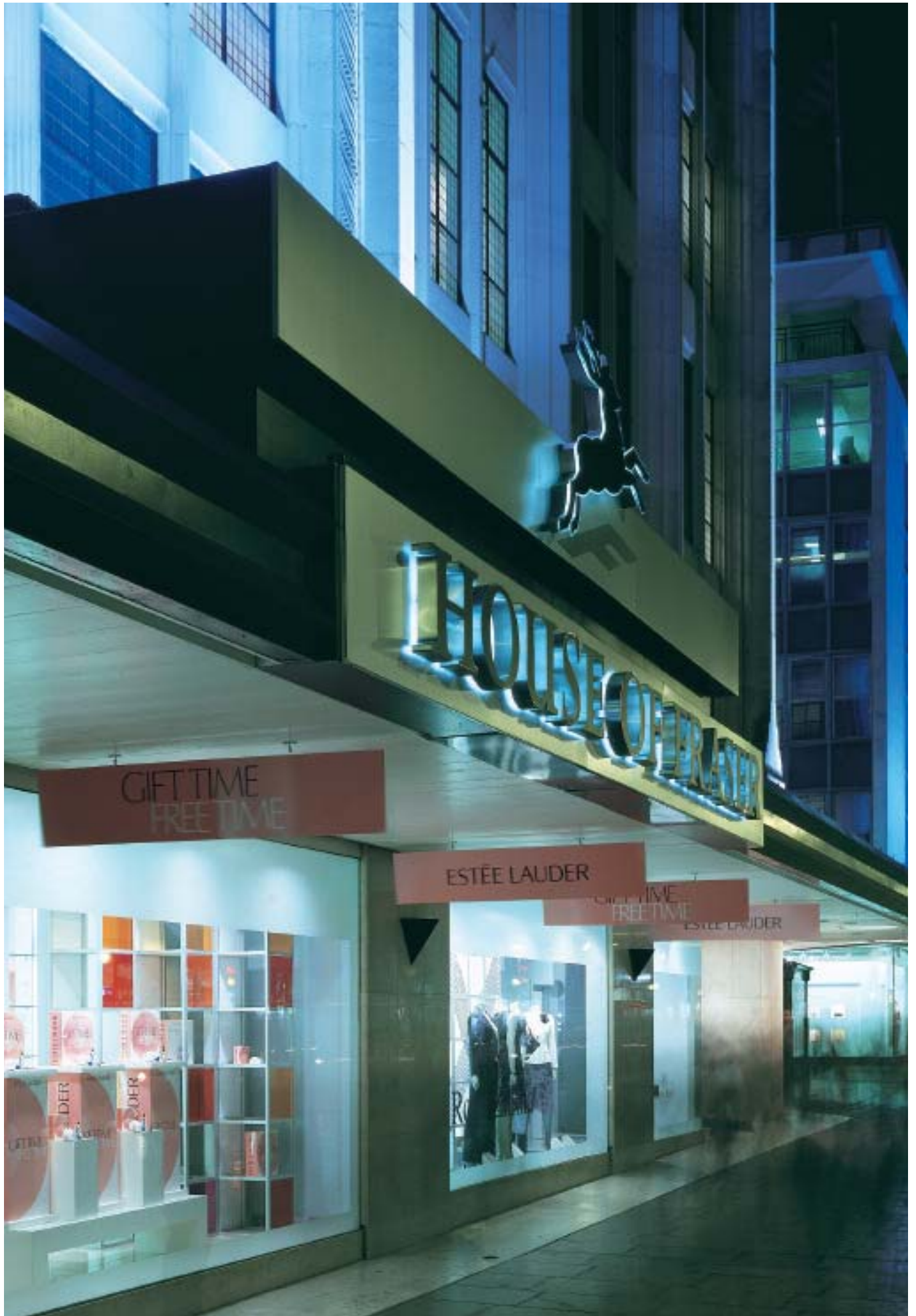


	COOL		INTERMEDIATE			WARM		SPECIAL			
	Activa 172	D 865	CW 33-640	CW 840	W 35-535	WW 29-530	WW 830	Homelight 827	Grolux	Aquastar Daylightstar Coralstar Reptistar	Gourmet 175
<b>Department stores/Shops</b>											
Grocery shops				m		m	t				
Meat Counter				m			m				t
Bakers/Patisseries				m		m	t				
Boutiques				t			t				
Shoe Shops				t			t				
Furniture Stores						m	t				
Books Shops/Record Stores				m			t				
Chemists & cosmetic shops	m						t	t			
Florists	t	m		m			t		t		
Pet shops/Aquaria/Terrariums	t	m		m					t	t	
<b>Hotels/Conference Centres</b>											
Lobbies and Corridors				m		m	t				
Dining Rooms							t	t			
Bedrooms							m	t			
Conference Areas				m			t				
<b>Schools</b>											
Sports Areas			m	t			m				
Classrooms				m			t				
Corridors			t	m		m	t				
<b>Restaurants</b>							t	t			
<b>Hospitals</b>											
Wards				t			t				
General	t			m			m				
<b>Offices</b>	m			t			t				
<b>Industrial</b>											
Workshops			m	t	m	m	m				
Warehouses			t	m	m	m	m				
Textiles and Printing	t	m		t			m				
Plastics and Chemicals			m	t			t				
Automobile industry	t	m		t			m				
Laboratories	t			t			t				
Quality Inspection Depts	t			m			m				
<b>Domestic</b>											
Living Room							m	t			
Kitchens, Bathrooms							m	t			
Plants, Fish Tanks	m			m			m		t		

	COOL		INTERMEDIATE			WARM		SPECIAL		
--	------	--	--------------	--	--	------	--	---------	--	--

t = Recommended

m = Alternative



**LOW WATTAGE METAL HALIDE**

BriteSpot ES50 / ESD50	154
BriteSpot ESD50 Coloured	155
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BriteSpot DE	157
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**MEDIUM WATTAGE METAL HALIDE**

HSI-SX / HSI-TSX BriteLux	162
HSI-HX / HSI-THX	163
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**HIGH WATTAGE METAL HALIDE**

HSI-T	165
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**HIGH PRESSURE SODIUM**

SHP-S / SHP-TS Super	167
SHP-TS GroLux	168
SHP-TS Mercury Free	169
SHP-S / SHP-TS TwinArc	170
SHP / SHP-T Standard	171
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**HIGH PRESSURE MERCURY**

HSL-SC Super Comfort	176
HSL-BW Bright White Standard	177
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**LOW PRESSURE SODIUM**

SLP	179
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**ELECTRONIC CONTROL GEAR**

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**MANUFACTURER'S LAMP CROSS REFERENCE**

<b>Sylvania</b>	<b>Osram</b>	<b>Philips</b>	<b>GE</b>
BriteSpot	-	-	CMH MR16
CMI-T	HCI-T	CDM-T	CMH-T
CMI-TD	HCI-TS	CDM-TD	CMH-TD
CMI-TC	HCI-TC	CDM-TC	CMH-TC
HSI-MP MetalArc	HQI-E	-	-
HSI-TD MetalArc	HQI-TS	MHN-TD	ARC/TD
HSI-T MetalArc	HQI-T	-	ARC/T
HSI-SX BriteLux	HQI-E/N	HPI Plus	ARC/D/H
HSI-TSX BriteLux	HQI-T/N	HPI-T Plus	ARC/T/H
HSI-HX	HQI-E/N/SI	HPI Plus	KolorArc
HSI-THX	HQI-T/N/SI	HPI-T Plus	-
HSI-T Daylight	HQI-T/D	-	-
HSI-T High Wattage	HQI-T/N/SN	HPI-T	Sportlight MI2000
HSI-TD High Wattage	HQI-TS/D/S	-	-
SHP Super	NAV Super	SON PLUS	Lucalox HO
SHP-TS GroLux	NAV Planta	SON AGRO	Lucalox PSL
SHP Mercury Free	-	SON Hg FREE	-
SHP TwinArc	-	-	-
SHP Standard	NAV Standard	SON	Lucalox
SHP Self-Starting	NAV/I Standard	SON PRO I	Lucalox I
SHX Plug-In	NAV Plug-In	SON-H	Lucalox E-Z Lux
SPX EcoArc	-	-	-
HSL-SC Super Comfort	HQL De Luxe	HPL-Comfort	MBF Deluxe
HSL-BW Bright White Standard	HQL	HPL-N	MBF
HSB-BW Bright White Blended	HWL	ML	MBTF
SLP	SOX	SOX	SOX

High Intensity Discharge (HID) lighting offers versatility, outstanding performance and reliability, from energy and cost effective lamps. Comprising four major groups – metal halide, high pressure sodium, mercury and low pressure sodium – HID lamps meet a variety of lighting needs for interior and exterior applications.



#### METAL HALIDE

Combine excellent colour rendering with good efficacy. The low wattage range is available with conventional quartz arc tube technology as well as ceramic and BriteSpot™ arc tube technology enhancing colour uniformity and stability over lamp life. The new **BriteSpot™** range represents a revolution in lighting technology. BriteSpot offers the crisp white light of metal halide lamps combined with colour stability throughout lamp life.

The medium wattage range offers compatibility with mercury and high pressure sodium control gear.

#### HIGH PRESSURE SODIUM

Combines excellent efficacy with extremely long life. The environmental benefits are enhanced by the range of Mercury Free products. The SHP TwinArc lamp uses two arc tubes, to double lamp life and reduce early lamp failures.

Sylvania's range of discharge lamps are characterised by quality materials, certified manufacturing techniques and stringent quality control procedures, to ensure the highest performance and reliability standards.



#### **HIGH PRESSURE MERCURY**

Lamps which combine white light, reliability and ease of use together with proven lamp technology.



#### **LOW PRESSURE SODIUM**

Although still used for many applications, these lamps are increasingly being replaced by high pressure sodium and metal halide lamps. Colour appearance and rendering from these monochromatic lamps are poor, but the luminous efficacy is extremely high.

## BriteSpot

Sylvania BriteSpot™ is a revolutionary range of compact metal halide lamps, the successful and original BriteSpot ES50 measuring only 51mm diameter by 62.5mm depth is the most compact metal halide reflector lamp to combine high output, excellent light quality and superb energy efficiency in one compact highly distinctive package for general lighting.

Three times the light output compared to equivalent size low voltage tungsten halogen units, the BriteSpot ES50 offers a unique tool for commercial accent lighting. Providing excellent colour rendering, available in 35W with a choice of 24, 38 and 60 degree beams.



The universal burning Dichroic (Cool beam) versions ESD50 35W, are also available in four deep saturated colours with a 12 degree beam for increased accent.

Colours include yellow, red, blue and green in addition to the standard white which has an outstanding colour rendering index of Ra90, backed by a stable colour temperature of 3000K and a long 9000 hour life.

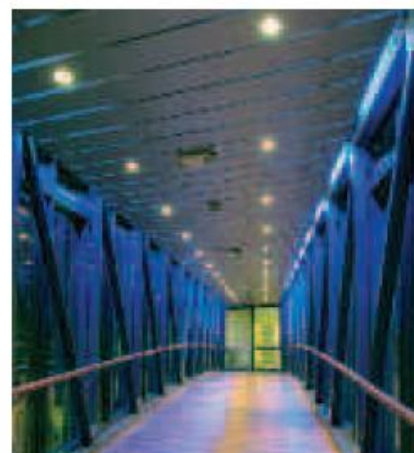
BriteSpot 35W ES111 and 70W ESD111, based around the styling of the 111mm integral reflector halogen lamp.

Its' extraordinary look is augmented by a number of distinctive visual features, the all-glass design allowing the sparkle of the spiral faceted reflector to shine through 8, 24 and 45 degree beam versions. The high-tech appearance of the inner is complemented by a patented anti-glare shield, which eliminates stray light without compromising peak intensity. A stylish brushed aluminium front ring accentuates both the lamp's appearance and safety.

BriteSpot DE 70W/150W the latest additions to the range show improved performance over standard metal halide, and increased colour stability for both the WDL – 3000K and ND L – 4200K available colour temperatures with a colour rendering index Ra85.


The easy to install GX10 twist and lock base is a feature on all of the BriteSpot reflector lamps along with safe end of life failure mode for use in open luminaires.

The extreme fast run-up as well as the UV stop glass to reduce colour fading of materials, makes BriteSpot the perfect selection for retail, restaurants, hotel and gallery spot and floodlight applications.

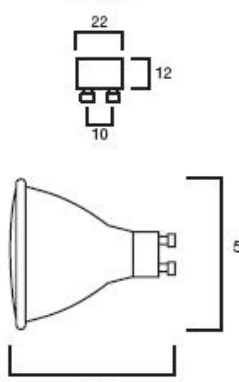


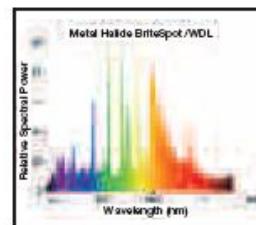
## BriteSpot ES50™ / ESD50™

NEW



**GX10**





24°		35W
425mmØ	1m	7000lx
850mmØ	2m	1750lx
1275mmØ	3m	770lx
1700mmØ	4m	438lx

38°		35W
689mmØ	1m	4000lx
1377mmØ	2m	1000lx
2066mmØ	3m	445lx
2755mmØ	4m	250lx

60°		35W
1155mmØ	1m	2000lx
2309mmØ	2m	500lx
3464mmØ	3m	220lx
4619mmØ	4m	125lx

**BriteSpot ES**



vertically ±90°

**BriteSpot ESD**



universal



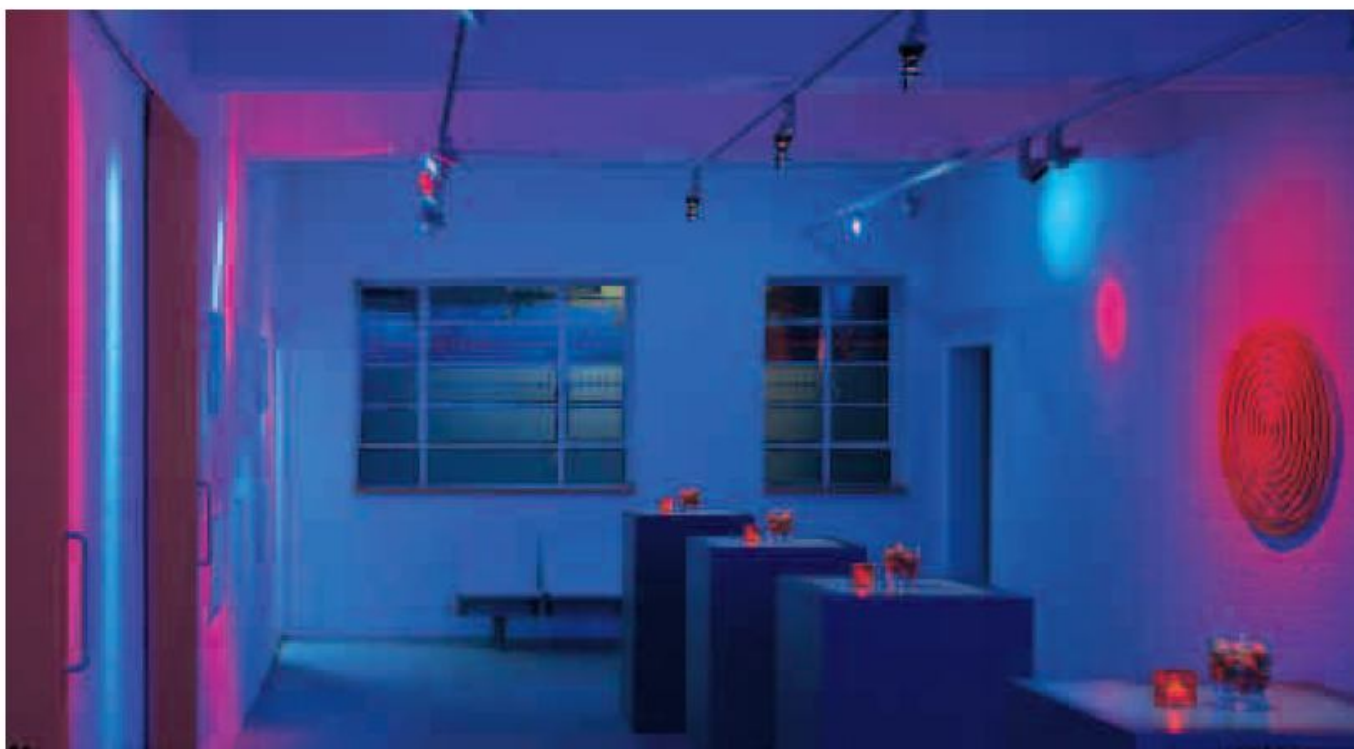
Code	Description	Watt	Volt	Current	Beam Angle	Cap	Colour Temp	CRI	Luminous Intensity	Packing Qty
<b>BriteSpot ES50™</b>										
0020272	BriteSpot ES50 35W 24°	39W	100V	0.53A	24°	GX10	3000K	90	7000 cd	15
0020270	BriteSpot ES50 35W 38°	39W	100V	0.53A	38°	GX10	3000K	90	4000 cd	15
0020271	BriteSpot ES50 35W 60°	39W	100V	0.53A	60°	GX10	3000K	90	2000 cd	15
<b>BriteSpot ESD50™ Dichroic</b>										
0020273	BriteSpot ESD50 35W 24°	39W	100V	0.53A	24°	GX10	3000K	90	7000 cd	15
0020274	BriteSpot ESD50 35W 38°	39W	100V	0.53A	38°	GX10	3000K	90	4000 cd	15
0020275	BriteSpot ESD50 35W 60°	39W	100V	0.53A	60°	GX10	3000K	90	2000 cd	15

- High efficiency metal halide light source
- Very deep saturated colours in a choice of blue, green, red and yellow
- First metal halide lamp available in strong red and yellow colours
- 9000 hours average rated life
- Narrow spot beam delivers extra punch for accent and display lighting
- Operation on compatible electronic gear as listed on the corporate website ([www.havells-sylvania.com](http://www.havells-sylvania.com))
- Ideal for special effects, accenting architectural features, or attracting attention in retail and commercial environments

universal

COOL BEAM


UV STOP




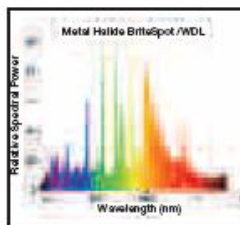
Code	Description	Watt	Volt	Current	Beam Angle	Cap	Colour Point CCx	CCy	Packing Qty
<b>BriteSpot ESD50™ Coloured</b>									
0020279	BriteSpot ESD50 35W/Blue	39W	100V	0.53A	12°	GX10	0.206	0.081	15
0020280	BriteSpot ESD50 35W/Green	39W	100V	0.53A	12°	GX10	0.249	0.548	15
0020281	BriteSpot ESD50 35W/Red	39W	100V	0.53A	12°	GX10	0.635	0.353	15
0020282	BriteSpot ESD50 35W/Yellow	39W	100V	0.53A	12°	GX10	0.476	0.466	15

# BriteSpot ES111™ / ESD111™

**NEW**







8°		35W
140mmØ	1m	40000k
280mmØ	2m	10000k
420mmØ	3m	4445k
560mmØ	4m	2500k

24°		35W	70W
425mmØ	1m	10000k	20000k
850mmØ	2m	2500k	5000k
1275mmØ	3m	1111k	2222k
1700mmØ	4m	625k	1250k

45°		35W	70W
628mmØ	1m	3500k	7000k
1657mmØ	2m	875k	1750k
2485mmØ	3m	389k	778k
3314mmØ	4m	219k	438k

**BriteSpot ES**

universal UV STOP

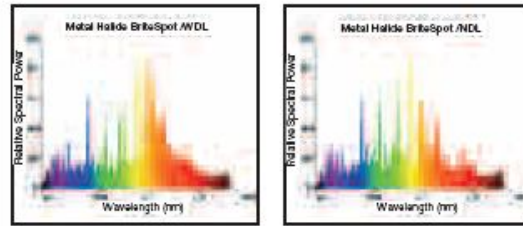
**BriteSpot ESD**

universal COOL BEAM UV STOP

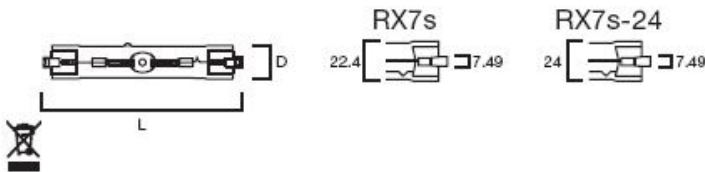
- Attractively styled lamp adds a touch of class to lighting designs
- Very high efficiency thanks to the large reflector and patented anti-glare optics
- Crisp, powerful white light with outstanding colour rendering index of Ra90
- Extremely high intensity possible with narrow beam versions, ideal for accent lighting
- Easy to install due to the robust new GX10 twist-lock cap
- Operation on compatible electronic gear as listed on the corporate website ([www.havells-sylvania.com](http://www.havells-sylvania.com))
- Wide range of interior applications in shops, restaurants, hotels, galleries and many other cultural and leisure venues



Code	Description	Watt	Volt	Current	Beam Angle	Cap	Colour Temp	CRI	Luminous Intensity	Packing Qty
<b>BriteSpot ES111™</b>										
0020200	BriteSpot ES111 35W 8°	39W	100V	0.53A	8°	GX10	3000K	90	40000 cd	15
0020201	BriteSpot ES111 35W 24°	39W	100V	0.53A	24°	GX10	3000K	90	10000 cd	15
0020202	BriteSpot ES111 35W 45°	39W	100V	0.53A	45°	GX10	3000K	90	3500 cd	15
<b>BriteSpot ESD111™ Dichroic</b>										
0020207	BriteSpot ESD111 70W 24°	75W	100V	0.98A	24°	GX10	3000K	90	20000 cd	15
0020208	BriteSpot ESD111 70W 45°	75W	100V	0.98A	45°	GX10	3000K	90	7000 cd	15



	70W	150W
L	117.6	135.4
D	22	25




- Dramatic improvement in performance over standard double ended metal halide
- BriteSpot technology delivers same colour stability over life as ceramic metal halide
- Excellent colour rendering index of Ra85 available in both WDL and NDL colours
- High luminous efficacy combined with UV stop quartz to reduce colour fading of merchandise
- Excellent for interior lighting of showrooms, shop windows, exhibitions, commercial premises and reception areas
- Delivers stable-colour architectural lighting in exterior applications



Code	Description	Watt	Volt	Current	Cap	Colour Temp	CRI	Luminous Flux	Packing Qty
<b>BriteSpot DE™</b>									
0021210	BriteSpot DE 70W/WDL	75W	95V	0.98A	RX7s	3000K	85	6000 lm	10
0021211	BriteSpot DE 70W/NDL	75W	95V	0.98A	RX7s	4200K	85	6000 lm	10
0021212	BriteSpot DE 150W/WDL	150W	95V	1.80A	RX7s-24	3000K	85	12500 lm	10
0021213	BriteSpot DE 150W/NDL	150W	95V	1.80A	RX7s-24	4200K	85	12500 lm	10

## CMI-T / CMI-TD / CMI-TC

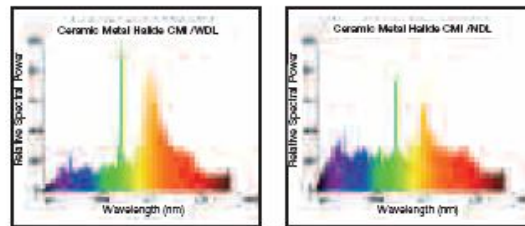


CMI-T    CMI-TD    CMI-TC

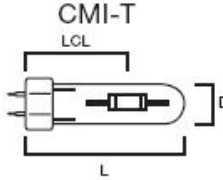
CMI-T	35W	70W	150W
L	90	90	100
LCL	56	56	56
D	20	20	20

CMI-TD	70W	150W
L	117.6	135.4
D	22	25

CMI-TC	35W	70W
L	85	85
LCL	52	52
D	17	17

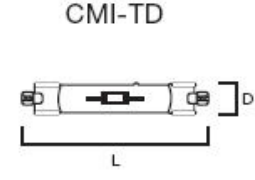


CMI-T



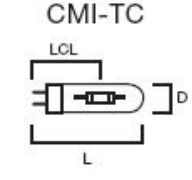
G12  
30,8

CMI-TD



RX7s  
22,4

CMI-TC



RX7s-24  
24

G8.5  
8,5

**CMI-T / CMI-TC**

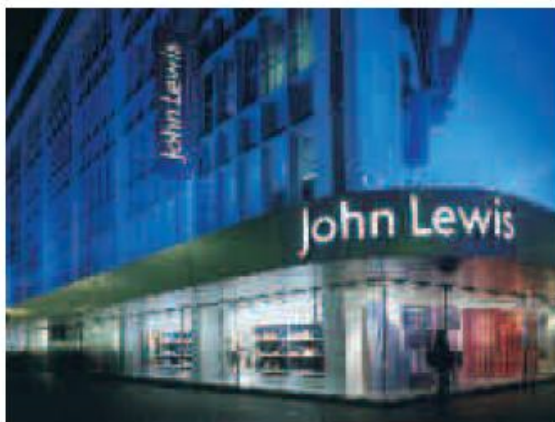
universal

UV STOP

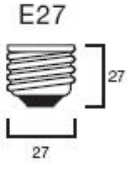
**CMI-TD**

horizontally ±45°

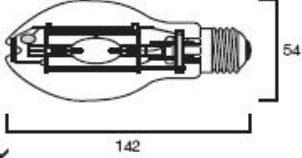
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life
- Very high luminous efficiency in a compact lamp format
- Good to excellent colour rendering properties
- UV-stop quartz reduces colour fading of merchandise
- For use only in luminaires equipped with a protective cover glass
- Applications in both interior and exterior lighting – shops, hotel lobbies and architectural



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>CMI-T</b>									
0020300	CMI-T 35W/WDL	39W	95V	0.53A	G12	Clear	3000K	3400 lm	12
0020301	CMI-T 70W/WDL	72W	95V	0.98A	G12	Clear	3000K	6200 lm	12
0020305	CMI-T 70W/NDL	72W	95V	0.98A	G12	Clear	4200K	6000 lm	12
0020302	CMI-T 150W/WDL	146W	95V	1.82A	G12	Clear	3000K	13500 lm	12
0020306	CMI-T 150W/NDL	146W	95V	1.82A	G12	Clear	4200K	13000 lm	12
<b>CMI-TD</b>									
0020307	CMI-TD 70W/WDL	72W	95V	0.98A	RX7s	Clear	3000K	6200 lm	12
0020308	CMI-TD 70W/NDL	72W	95V	0.98A	RX7s	Clear	4200K	6200 lm	12
0020309	CMI-TD 150W/WDL	146W	95V	1.82A	RX7s-24	Clear	3000K	13500 lm	12
0020310	CMI-TD 150W/NDL	146W	95V	1.82A	RX7s-24	Clear	4200K	12500 lm	12
<b>CMI-TC</b>									
0020303	CMI-TC 35W/WDL	39W	90V	0.53A	G8.5	Clear	3000K	3400 lm	12
0020304	CMI-TC 70W/WDL	72W	90V	0.98A	G8.5	Clear	3000K	6200 lm	12

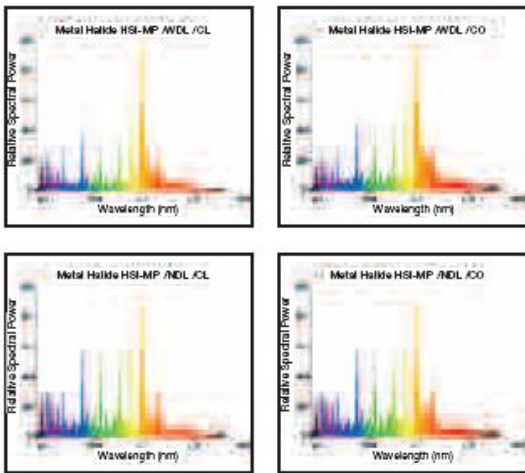



E27




HSI-MP

142





- A family of metal halide lamps specially designed for use in open fixtures
- Long service life of 15,000 hours keeps maintenance costs to a minimum
- Excellent colour maintenance throughout lamp life
- UV-stop outer jacket for reduced risks of fading
- Large variety of colours and wattages, in both clear and phosphor coated lamps
- Very economical light source for downlighting applications in large public spaces, for example airport terminals, halls, hotel lobbies and open-plan offices




universal

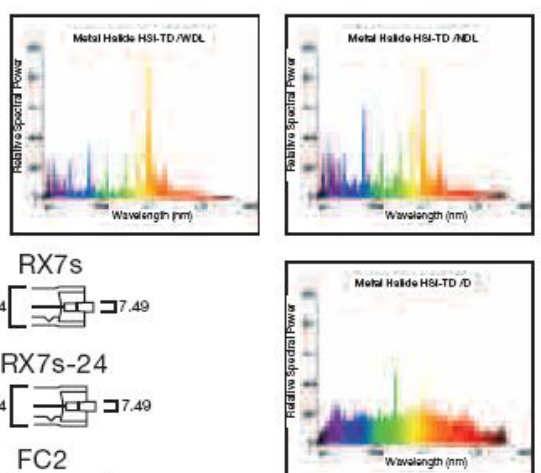


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-MP MetalArc</b>									
0020810	HSI-MP 70W CL/WDL	75W	95V	1.00A	E27	Clear	3000K	5500 lm	12
0020811	HSI-MP 70W CO/WDL	75W	95V	1.00A	E27	Coated	2900K	5200 lm	12
0020812	HSI-MP 70W CL/NDL	75W	95V	1.00A	E27	Clear	4000K	5800 lm	12
0020813	HSI-MP 70W CO/NDL	75W	95V	1.00A	E27	Coated	3800K	5500 lm	12
0020820	HSI-MP 100W CL/WDL	100W	100V	1.15A	E27	Clear	3000K	8500 lm	12
0020821	HSI-MP 100W CO/WDL	100W	100V	1.15A	E27	Coated	2900K	7900 lm	12
0020822	HSI-MP 100W CL/NDL	100W	105V	1.15A	E27	Clear	4000K	8500 lm	12
0020823	HSI-MP 100W CO/NDL	100W	105V	1.15A	E27	Coated	3800K	8100 lm	12
0020830	HSI-MP 150W CL/WDL	150W	95V	1.80A	E27	Clear	3000K	13000 lm	12
0020831	HSI-MP 150W CO/WDL	150W	95V	1.80A	E27	Coated	2900K	12500 lm	12
0020832	HSI-MP 150W CL/NDL	150W	95V	1.80A	E27	Clear	4000K	13000 lm	12
0020833	HSI-MP 150W CO/NDL	150W	95V	1.80A	E27	Coated	3800K	12500 lm	12

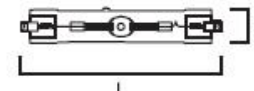
## HSI-TD MetalArc



HSI-TD	70W	150W	250W
L	117.6	135.4	161.6
D	22	25	27.5

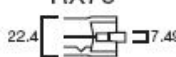


RX7s



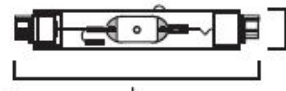
L

RX7s




22.4 [ ] 7.49

FC2




L

RX7s-24




24 [ ] 7.49

FC2



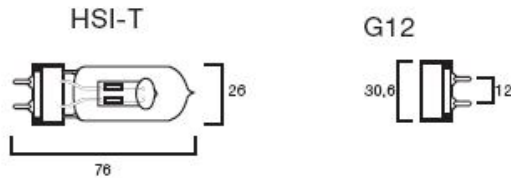
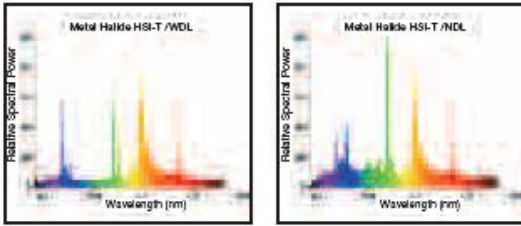
horizontal  $\pm 45^\circ$



- Double ended quartz metal halide lamps with a compact tubular clear outer envelope
- Choice of three different colour temperatures: Warm, Neutral White and Daylight
- UV-stop outer jacket for reduced risks of fading
- High efficiency, compact arc tube
- Suitable for general interior lighting in uplights or downlights, e.g. in shops and malls
- Economical source for exterior floodlighting of monuments, parks and facades



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-TD MetalArc</b>									
0021030	HSI-TD 70W/WDL	75W	95V	0.98A	RX7s	Clear	3000K	5500 lm	10
0021031	HSI-TD 70W/NDL	75W	95V	0.98A	RX7s	Clear	4200K	5800 lm	10
0021045	HSI-TD 70W/D	75W	108V	0.98A	RX7s	Clear	5600K	5400 lm	10
0021033	HSI-TD 150W/WDL	150W	95V	1.80A	RX7s-24	Clear	3000K	12500 lm	10
0021034	HSI-TD 150W/NDL	150W	95V	1.80A	RX7s-24	Clear	4200K	12500 lm	10
0021046	HSI-TD 150W/D	150W	102V	1.80A	RX7s-24	Clear	5200K	11000 lm	10
0021036	HSI-TD 250W/WDL	250W	100V	3.00A	FC2	Clear	3200K	20000 lm	10
0021037	HSI-TD 250W/NDL	250W	100V	3.00A	FC2	Clear	4200K	20000 lm	10
0021047	HSI-TD 250W/D	250W	112V	3.00A	FC2	Clear	5200K	18000 lm	10




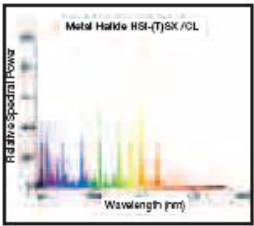
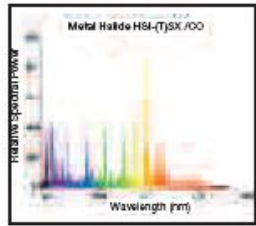
- Single ended quartz metal halide lamps with a compact tubular clear outer envelope
- Small point light source allows compact luminaire designs
- Ideal for spotlighting where high intensities are required
- UV-stop outer jacket for reduced risks of fading
- Suitable for interior accent and display lighting
- Exterior applications in floodlighting of monuments, parks and facades



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-T MetalArc</b>									
0020335	HSI-T 70W/WDL	75W	95V	0.95A	G12	Clear	3000K	5200 lm	12
0020340	HSI-T 70W/NDL	75W	95V	0.95A	G12	Clear	4200K	5200 lm	12
0020336	HSI-T 150W/WDL	146W	95V	1.82A	G12	Clear	3000K	12000 lm	12
0020341	HSI-T 150W/NDL	146W	95V	1.82A	G12	Clear	4200K	12500 lm	12

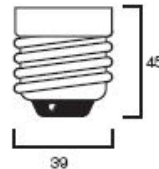
## HSI-SX / HSI-TSX BriteLux



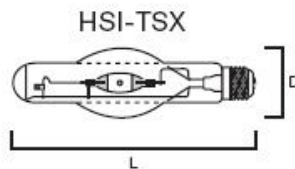
HSI-SX		250W	400W
L		227	290
D		90	120
HSI-TSX		250W	400W
L		260	270
D		48	63

E40

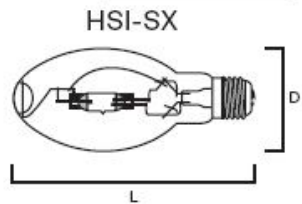


39


HSI-TSX



L




**HSI-SX/P BriteLux**




universal

**HSI-SX / TSX BriteLux**



universal



- SX family of metal halide lamps for use with a sodium ballast
- Direct retrofit for sodium lamps to upgrade lighting to a more pleasant white light
- High lumen package with good colour rendering properties
- Good colour rendering properties
- 'P' protected versions incorporate integral shroud for safe use in open fixtures
- For commercial and industrial applications in shopping areas, factories, warehouses
- Exterior applications in city beautification to upgrade from yellow sodium light



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-SX BriteLux Elliptical</b>									
0020772	HSI-SX 250W/CL BriteLux	265W	100V	2.9A	E40	Clear	4100K	23500 lm	12
0020776	HSI-SX 250W/CL/P BriteLux	265W	100V	2.9A	E40	Clear/Protected	4500K	21000 lm	12
0020771	HSI-SX 250W/CO BriteLux	265W	100V	2.9A	E40	Coated	3800K	22300 lm	12
0020775	HSI-SX 250W/CO/P BriteLux	265W	100V	2.9A	E40	Coated/Protected	4200K	20000 lm	12
0020774	HSI-SX 400W/CL/P BriteLux	425W	120V	4.4A	E40	Clear/Protected	4300K	42000 lm	6
0020773	HSI-SX 400W/CO/P BriteLux	425W	120V	4.4A	E40	Coated/Protected	4200K	40000 lm	6
<b>HSI-TSX BriteLux Tubular</b>									
0024407	HSI-TSX 250W BriteLux	265W	100V	2.9A	E40	Clear	4200K	21000 lm	12
0024409	HSI-TSX 400W BriteLux	425W	105V	4.4A	E40	Clear	4200K	40000 lm	12

<b>HSI-HX</b>	250W	400W
L	227	290
D	90	120
<b>HSI-THX</b>	250W	400W
L	260	270
D	48	63

E40

HSI-HX

HSI-THX

**HSI-HX**

vertically ±15°

**HSI-HX/I**

vertically ±15°


**HSI-THX**

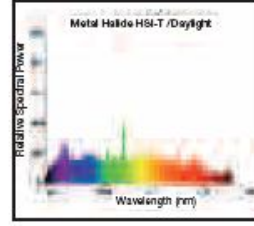
horizontally ±20°

- HX family of metal halide lamps for use with a mercury ballast with soft ignitor
- HX family can also be operated on SHP control gear, resulting in both different output and colour temperature
- 'I' internal ignitor versions available, for simpler circuits with no ignitor
- 'I' versions can be used as a direct replacement for mercury discharge lamps
- High lumen package with good colour rendering properties
- For industrial applications such as petrol stations, car parks, rail yards
- Popular choice for sports arena lighting

Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-HX Elliptical</b>									
0020357	HSI-HX 250W/CL	245W	130V	2.1A	E40	Clear	4500K	23000 lm	12
0020355	HSI-HX 250W/CO	245W	130V	2.1A	E40	Coated	3800K	21000 lm	12
0020353	HSI-HX 400W/CL	400W	130V	3.4A	E40	Clear	4500K	37000 lm	12
0020350	HSI-HX 400W/CO	400W	130V	3.4A	E40	Coated	3800K	35200 lm	12
0020351	HSI-HX 400W/CO/I	400W	130V	3.4A	E40	Coated	3800K	35200 lm	12
<b>HSI-THX Tubular</b>									
0020394	HSI-THX 250W	245W	130V	2.1A	E40	Clear	4500K	20000 lm	12
0020546	HSI-THX 400W	400W	130V	3.4A	E40	Clear	4200K	36000 lm	12

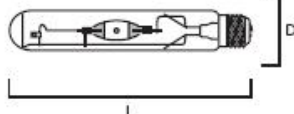
## HSI-T Daylight



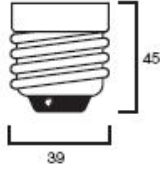


HSI-T Daylight		250W	400W
L		257	285
D		48	63

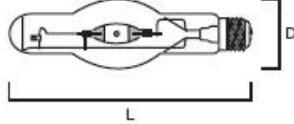
HSI-T Daylight 250W




E40



HSI-T Daylight 400W

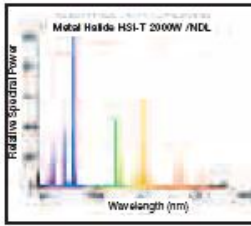




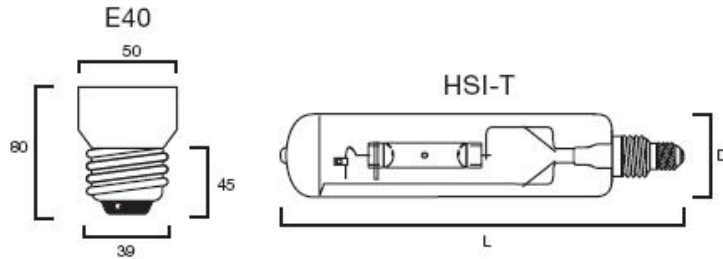
- Single ended metal halide lamps with crisp daylight colour
- Excellent colour rendering Class 1A
- High light output
- Good lumen maintenance over life
- Industrial lighting e.g. car parks, rail yards, petrol stations and street lighting
- Sports arena lighting



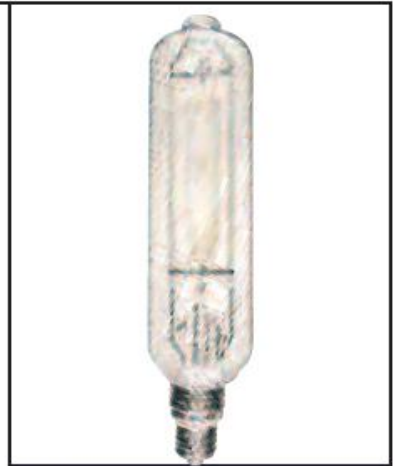
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-T Daylight</b>									
0020530	HSI-T 250W/D	250W	112V	3.0A	E40	Clear	5300K	20000 lm	12
0020531	HSI-T 400W/D	400W	122V	4.4A	E40	Clear	6100K	32000 lm	12



HSI-T	1000W	2000W
L	382	430
D	66	102



- Single ended quartz metal halide lamps with a tubular outer envelope
- Both internal and external ignitor versions available
- All versions operate on a standard mercury ballast, with or without (/I type) external ignitor
- Very high light output with outstanding colour properties
- Suitable for colour television filming in sports stadia and large arena
- Industrial lighting applications in exterior car parks, rail and dock yards



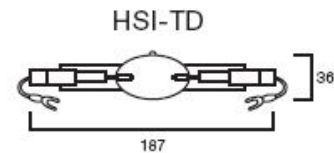
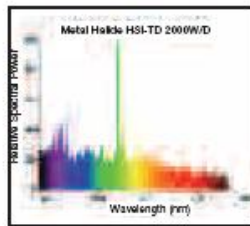
**HSI-T**

**HSI-T/I**



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-T</b>									
0020597	HSI-T 1000W	965W	130V	8.25A	E40	Clear	4000K	81000 lm	4
0020533	HSI-T 2000W-S/380V	2000W	235V	9.00A	E40	Clear	4000K	200000 lm	4
0020540	HSI-T 2000W-S/I/380V	2000W	235V	9.00A	E40	Clear	4000K	200000 lm	4

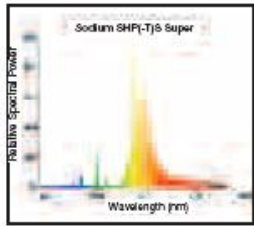
## HSI-TD



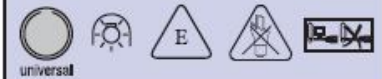
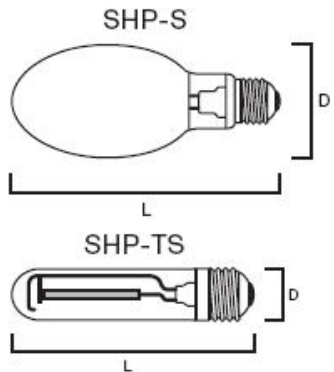
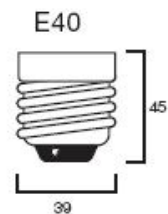
- Compact double ended quartz metal halide lamp
- Short arc source allows for good optical control in floodlighting luminaires
- No outer envelope required, permitting the design of compact luminaires
- Very high light output with excellent colour rendering properties
- Suitable for colour television filming in sports stadia and large arenas
- Exterior lighting applications in outdoor car parks, petrol stations, rail and dock yards



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSI-TD</b>									
0020349	HSI-TD 1000W/D	1000W	105V	9.50A	Cable	Clear	5900K	90000 lm	10
0020339	HSI-TD 2000W/D	1950W	205V	11.30A	Cable	Clear	5800K	200000 lm	10




SHP-S	35W	50W	70W	100W	150W	250W	400W	
L	165	165	165	186	227	227	292	
D	72	72	72	78	91	91	122	
SHP-TS	35W	50W	70W	100W	150W	250W	400W	600W
L	156	156	156	211	211	260	292	292
D	39	39	39	48	48	48	48	48

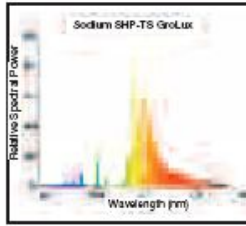


- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- Exclusive 'frameless' construction delivers superior system efficiency and improves lumen maintenance over life
- Exceptional reliability, offering 4 years service with over 95% lumen maintenance
- Super versions with high xenon pressure boost luminous efficacy up to 150 lm/W
- Offers increased lighting levels and an extended maintenance-free service life in all road and industrial applications

Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHP-S Super Elliptical</b>									
0020448	SHP-S 35W	35W	90V	0.49A	E27	Coated	2050K	1800 lm	40
0020688	SHP-S 50W	50W	85V	0.76A	E27	Coated	2050K	3600 lm	40
0020690	SHP-S 70W	70W	90V	0.98A	E27	Coated	2050K	6000 lm	40
0020692	SHP-S 100W	100W	100V	1.20A	E40	Coated	2050K	9500 lm	40
0020693	SHP-S 150W	150W	100V	1.80A	E40	Coated	2050K	16000 lm	12
0020715	SHP-S 250W	255W	100V	2.95A	E40	Coated	2050K	30000 lm	12
0020716	SHP-S 400W	410W	105V	4.40A	E40	Coated	2050K	54000 lm	12
<b>SHP-TS Super Tubular</b>									
0020326	SHP-TS 35W	35W	90V	0.49A	E27	Clear	2050K	2100lm	40
0020687	SHP-TS 50W	50W	85V	0.76A	E27	Clear	2050K	4200 lm	40
0020678	SHP-TS 70W	70W	90V	0.98A	E27	Clear	2050K	6800 lm	40
0020686	SHP-TS 100W	100W	100V	1.20A	E40	Clear	2050K	10500 lm	12
0020685	SHP-TS 150W	150W	100V	1.80A	E40	Clear	2050K	17500 lm	12
0020713	SHP-TS 250W	255W	100V	2.95A	E40	Clear	2050K	33000 lm	12
0020714	SHP-TS 400W	400W	100V	4.50A	E40	Clear	2050K	55500 lm	12
0020805	SHP-TS 600W	600W	110V	6.00A	E40	Clear	2050K	90000 lm	12

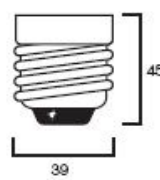
# SHP-TS GroLux



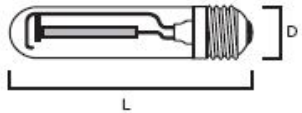


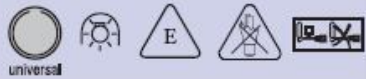
SHP-TS GroLux	400W	600W
L	292	292
D	48	48

E40



SHP-TS GroLux



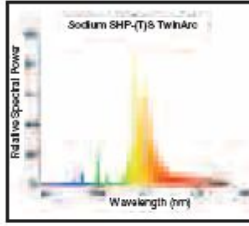


- Patented arc tube delivers highest photosynthetic efficiency of any lamp in the world
- Exclusive 'frameless' construction reduces shadow of side wire
- New materials eliminate darkening of outer jacket
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- Industry leading lumen maintenance figure of 95% at end of life
- New 400-Volt lamp boosts the Sylvania GroLux system efficiency to new levels

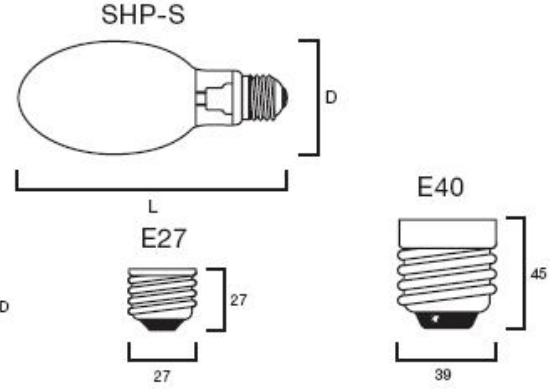


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Photosynthetic (PhytoLm)	PAR (µ mol)	Packing Qty
<b>SHP-TS GroLux Tubular</b>										
0020807	SHP-TS 400W GroLux	425W	120V	4.00A	E40	Clear	2050K	128000	713	12
0020808	SHP-TS 600W GroLux	615W	125V	5.50A	E40	Clear	2050K	200000	1100	12
0020809	SHP-TS 600W/400V GroLux	620W	200V	3.50A	E40	Clear	1950K	215000	1180	12

# SHP-S / SHP-TS TwinArc



SHP-S	35W	50W	70W	100W	150W	250W	400W
L	165	165	165	186	227	227	292
D	72	72	72	78	81	81	122
SHP-TS	50W	70W	100W	150W	250W	400W	1000W
L	156	156	211	211	260	292	400
D	39	39	48	48	48	48	68

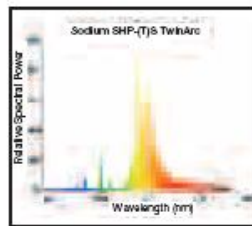


- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- Doubled lamp life and reduced occurrence of early failures
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- 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

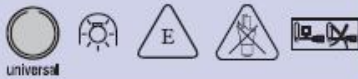
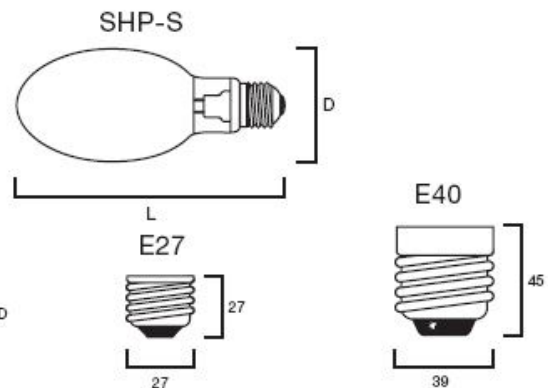


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHP-S TwinArc Elliptical</b>									
0020720	SHP-S 35W TwinArc	35W	90V	0.49A	E27	Coated	2050K	1800 lm	40
0020717	SHP-S 50W TwinArc	50W	85V	0.76A	E27	Coated	2050K	3600 lm	40
0020719	SHP-S 70W TwinArc	70W	90V	0.98A	E27	Coated	2050K	6000 lm	40
0020725	SHP-S 100W TwinArc	100W	100V	1.20A	E40	Coated	2050K	9500 lm	40
0020740	SHP-S 150W TwinArc	150W	100V	1.80A	E40	Coated	2050K	15500 lm	12
0020742	SHP-S 250W TwinArc	255W	100V	2.95A	E40	Coated	2050K	30000 lm	12
0020744	SHP-S 400W TwinArc	410W	105V	4.40A	E40	Coated	2050K	52500 lm	12
<b>SHP-TS TwinArc Tubular</b>									
0020712	SHP-TS 50W TwinArc	50W	85V	0.76A	E27	Clear	2050K	4000 lm	40
0020718	SHP-TS 70W TwinArc	70W	90V	0.98A	E27	Clear	2050K	6500 lm	40
0020724	SHP-TS 100W TwinArc	100W	100V	1.20A	E40	Clear	2050K	10000 lm	12
0020739	SHP-TS 150W TwinArc	150W	100V	1.80A	E40	Clear	2050K	17000 lm	12
0020741	SHP-TS 250W TwinArc	255W	100V	2.95A	E40	Clear	2050K	32000 lm	12
0020743	SHP-TS 400W TwinArc	400W	100V	4.50A	E40	Clear	2050K	55000 lm	12
0020748	SHP-T 1000W SBY	960W	100V	10.6A	E40	Clear	2050K	130000 lm	12

## SHP-S / SHP-TS TwinArc



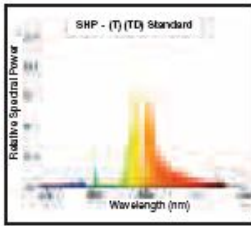
SHP-S	35W	50W	70W	100W	150W	250W	400W
L	165	165	165	186	227	227	292
D	72	72	72	78	81	81	122
SHP-TS	50W	70W	100W	150W	250W	400W	1000W
L	156	156	211	211	260	292	400
D	39	39	48	48	48	48	68



- 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
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- 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

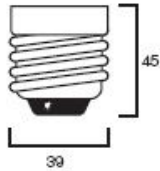


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHP-S TwinArc Elliptical</b>									
0020720	SHP-S 35W TwinArc	35W	90V	0.49A	E27	Coated	2050K	1800 lm	40
0020717	SHP-S 50W TwinArc	50W	85V	0.76A	E27	Coated	2050K	3600 lm	40
0020719	SHP-S 70W TwinArc	70W	90V	0.98A	E27	Coated	2050K	6000 lm	40
0020725	SHP-S 100W TwinArc	100W	100V	1.20A	E40	Coated	2050K	9500 lm	40
0020740	SHP-S 150W TwinArc	150W	100V	1.80A	E40	Coated	2050K	15500 lm	12
0020742	SHP-S 250W TwinArc	255W	100V	2.95A	E40	Coated	2050K	30000 lm	12
0020744	SHP-S 400W TwinArc	410W	105V	4.40A	E40	Coated	2050K	52500 lm	12
<b>SHP-TS TwinArc Tubular</b>									
0020712	SHP-TS 50W TwinArc	50W	85V	0.76A	E27	Clear	2050K	4000 lm	40
0020718	SHP-TS 70W TwinArc	70W	90V	0.98A	E27	Clear	2050K	6500 lm	40
0020724	SHP-TS 100W TwinArc	100W	100V	1.20A	E40	Clear	2050K	10000 lm	12
0020739	SHP-TS 150W TwinArc	150W	100V	1.80A	E40	Clear	2050K	17000 lm	12
0020741	SHP-TS 250W TwinArc	255W	100V	2.95A	E40	Clear	2050K	32000 lm	12
0020743	SHP-TS 400W TwinArc	400W	100V	4.50A	E40	Clear	2050K	55000 lm	12
0020748	SHP-T 1000W SBY	960W	100V	10.6A	E40	Clear	2050K	130000 lm	12

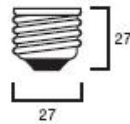


<b>SHP</b>	50W	70W	100W	150W	250W	400W	
L	165	165	178	227	227	292	
D	72	72	78	91	91	122	
<b>SHP-T</b>	50W	70W	100W	150W	250W	400W	1000W
L	156	156	-	211	260	292	400
D	39	39	-	48	48	48	68

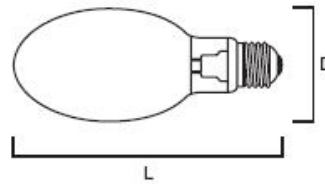
E40



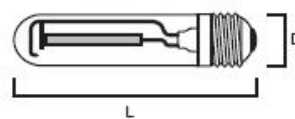
E27



SHP



SHP-T




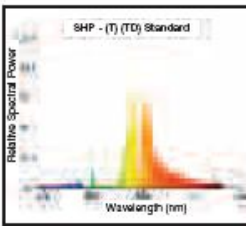
- Exclusive 'frameless' construction for improved reliability with fewer early failures
- Large wattage range with either clear tubular or coated ellipsoidal outer bulb
- Pleasant golden white light gives a warm colour appearance
- High luminous efficacy of up to 130 lm/W
- Major application in road lighting, both on motorways and in residential streets
- Excellent choice for general industrial lighting, both indoors and for outdoor floodlighting



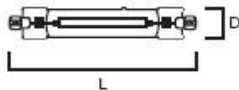
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHP Standard Elliptical</b>									
0020554	SHP 50W	50W	85V	0.76A	E27	Coated	2050K	3300 lm	40
0020555	SHP 70W	70W	90V	0.98A	E27	Coated	2050K	5800 lm	40
0020563	SHP 100W	100W	100V	1.20A	E27	Coated	2050K	8500 lm	40
0020479	SHP 150W	150W	100V	1.80A	E40	Coated	2050K	14000 lm	12
0020481	SHP 250W	250W	100V	3.00A	E40	Coated	2050K	26000 lm	12
0020484	SHP 400W	400W	105V	4.45A	E40	Coated	2050K	47000 lm	12
<b>SHP-T Standard Tubular</b>									
0020455	SHP-T 50W	50W	85V	0.76A	E27	Clear	2050K	3500 lm	40
0020457	SHP-T 70W	70W	90V	0.98A	E27	Clear	2050K	6000 lm	40
0020480	SHP-T 150W	150W	100V	1.80A	E40	Clear	2050K	14500 lm	12
0020482	SHP-T 250W	250W	100V	3.00A	E40	Clear	2050K	28000 lm	12
0020485	SHP-T 400W	392W	100V	4.60A	E40	Clear	2050K	48000 lm	12
0020504	SHP-T 1000W	960W	100V	10.6A	E40	Clear	2050K	130000 lm	4

## SHP-TD Standard







SHP-TD 70W		150W	
L	117.6	135.4	
D	22	25	

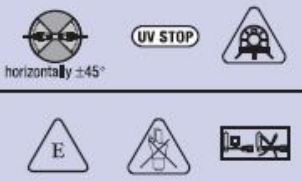


RX7s-24



RX7s

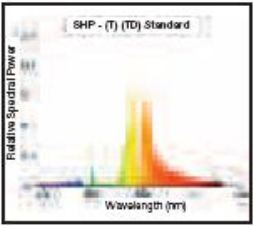
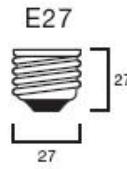
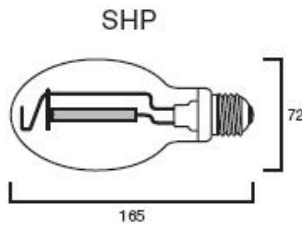





- Double ended high pressure sodium lamps with a compact outer envelope
- Small size allows excellent optical control in shallow reflectors
- Pleasant golden white light gives a warm colour appearance
- Offers an alternative to double ended metal halide, for improved efficacy or colour contrast
- Interior lighting in general commercial areas, exhibition halls
- Allows high precision floodlighting of monuments, facades and public parks





Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHP-TD Standard</b>									
0020709	SHP-TD 70W	70W	90V	0.98A	RX7s	Clear	1900K	6800 lm	10
0020711	SHP-TD 150W	150W	100V	1.80A	RX7s-24	Clear	1900K	15000 lm	10






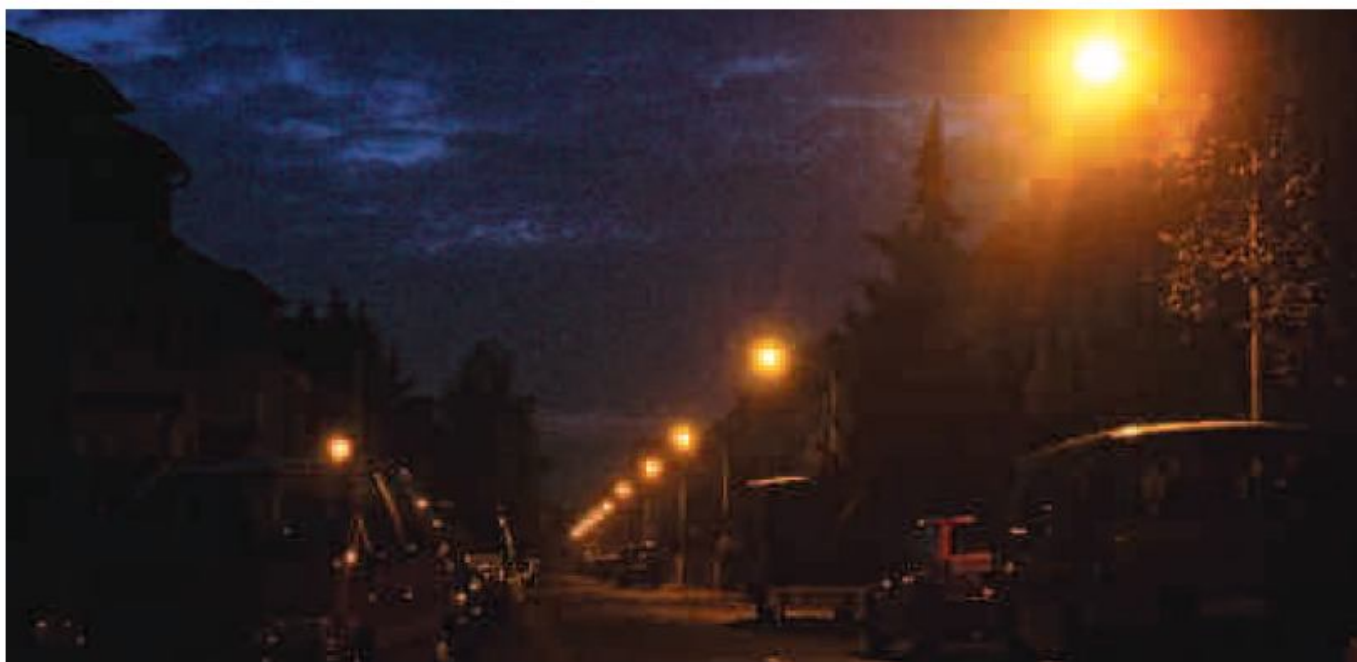


- Range of high pressure sodium lamps with internal ignitor
- Cost reduction opportunities since no ignitor or external wiring is required
- Enables luminaire size to be reduced since no ignitor is required
- Available in clear or coated elliptical bulbs
- Popular choice for parks, gardens, pedestrian zones and residential street lighting
- Low-cost illumination of workshops and small industrial areas



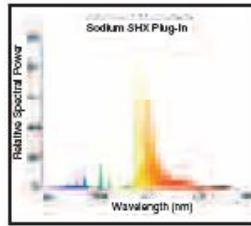






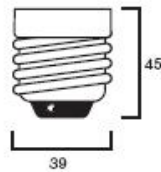
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHP Self-Starting Elliptical</b>									
0020550	SHP 50W/CO-I	50W	85V	0.76A	E27	Coated	2050K	3300 lm	40
0020551	SHP 70W/CO-I	70W	90V	0.98A	E27	Coated	2050K	5800 lm	40
0020553	SHP 70W/CL-I	70W	90V	0.98A	E27	Clear	2050K	6000 lm	40

## SHX Plug-In

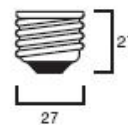


SHX	110W	210W	350W
L	178	228	292
D	76	91	122

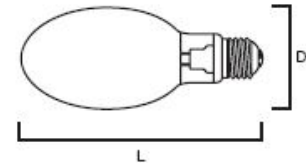
E40



E27



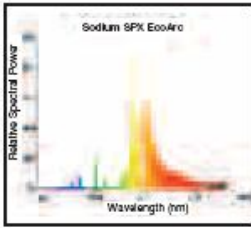
SHX



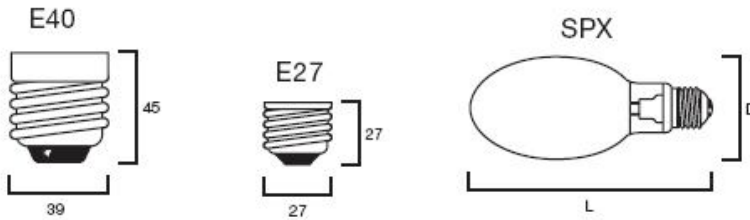
- Range of high pressure sodium lamps for direct retrofit of mercury lamps
- Offers reduced energy consumption and higher light levels when replacing mercury lamps
- Long average rated life, up to 20,000 hours
- Not recommended for operation on circuits having a leading power factor
- Suitable for direct installation in street and industrial applications using mercury lamps



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SHX Plug-In Elliptical</b>									
0020560	SHX 110W	110W	115V	1.22A	E27	Coated	2000K	8000 lm	40
0020488	SHX 210W	210W	117V	2.25A	E40	Coated	2000K	18000 lm	12
0020490	SHX 350W	350W	117V	3.60A	E40	Coated	2000K	34500 lm	12



SPX	69W	108W	190W	295W
L	176	176	228	292
D	76	76	91	122




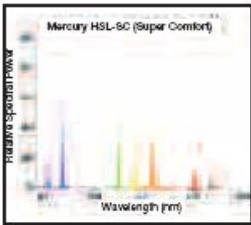
- Range of high pressure sodium lamps for direct retrofit of mercury lamps
- High xenon pressure delivers improved light output and reduced energy consumption over standard retrofit types
- Internal electronic ignitor provides reliable ignition of the xenon-filled arc tube
- Provides instant energy savings up to 18% over existing mercury installations
- Increased light output up to 50% more than comparable high pressure mercury lamp
- Excellent lumen maintenance throughout the long lamp life
- Upgrade for road/industrial installations to higher lighting levels with reduced energy consumption



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SPX EcoArc Elliptical</b>									
0020800	SPX EcoArc 69/108W	69W	100V	0.82A	E27	Coated	1800K	4300 lm	40
0020800	SPX EcoArc 69/108W	108W	120V	1.20A	E27	Coated	1900K	8800 lm	40
0020801	SPX EcoArc 190W	205W	150V	1.70A	E40	Coated	1800K	19000 lm	12
0020802	SPX EcoArc 295W	330W	155V	2.60A	E40	Coated	1900K	34000 lm	12

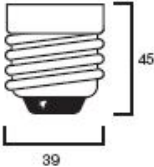
## HSL-SC Super Comfort



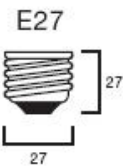


HSL-SC	50W	80W	125W	250W	400W
L	130	166	178	228	292
D	56	71	76	91	122

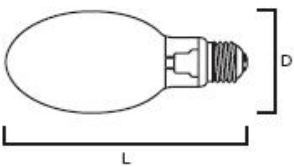
E40




E27



HSL-SC



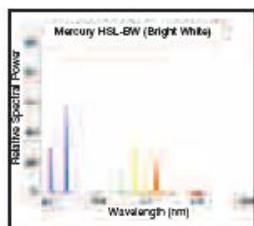


- Range of high pressure mercury lamps with improved colour rendering index (Ra60)
- Warm white colour temperature of 3400K
- Low cost white lighting solution operating on simple mercury choke circuit
- Excellent reliability throughout the long 29,000 hours average rated life
- High efficacy up to 60 lm/W
- Suitable for general interior lighting, and floodlighting of buildings and monuments

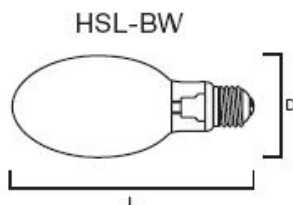
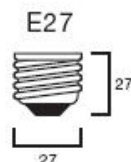
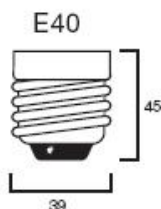


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSL-SC Super Comfort Elliptical</b>									
0020895	HSL-SC 50W	50W	95V	0.61A	E27	Coated	3400K	2000 lm	24
0020890	HSL-SC 80W	80W	115V	0.80A	E27	Coated	3400K	4000 lm	40
0020891	HSL-SC 125W	125W	125V	1.15A	E27	Coated	3400K	6500 lm	40
0020892	HSL-SC 250W	250W	130V	2.13A	E40	Coated	3400K	14000 lm	12
0020893	HSL-SC 400W	400W	135V	3.25A	E40	Coated	3400K	24000 lm	12

# HSL-BW Bright White Standard



HSL-SC	50W	80W	125W	250W	400W	700W	1000W
L	130	166	178	228	282	357	411
D	56	71	76	91	122	152	167




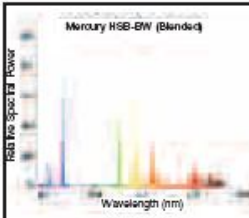
- Range of standard high pressure mercury lamps with Yttrium Vanadate phosphor
- Neutral white colour temperature of 4000K
- Low cost white lighting solution operating on simple mercury choke circuit
- Excellent reliability throughout the long 29,000 hours average rated life
- High efficacy up to 60 lm/W
- For replacement purposes only in roads, parks, industrial, rail and dock yard lighting



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSL-BW Bright White Standard Elliptical</b>									
0020405	HSL-BW 50W	50W	95V	0.61A	E27	Coated	4000K	1800 lm	24
0020406	HSL-BW 80W	80W	115V	0.80A	E27	Coated	4000K	3800 lm	40
0020407	HSL-BW 125W	125W	125V	1.15A	E27	Coated	4000K	6300 lm	40
0020408	HSL-BW 250W	250W	130V	2.13A	E40	Coated	4000K	13000 lm	12
0020409	HSL-BW 400W	400W	135V	3.25A	E40	Coated	3800K	22000 lm	12
0020410	HSL-BW 700W	700W	140V	5.40A	E40	Coated	4000K	40000 lm	6
0020411	HSL-BW 1000W	1000W	145V	7.50A	E40	Coated	4000K	58000 lm	6

## HSB-BW Bright White Blended



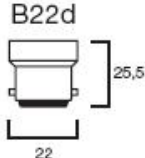


HSB-BW E27		160W	250W	500W
L		178	233	-
D		76	91	-

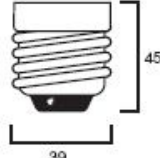
HSB-BW E40		160W	250W	500W
L		-	228	292
D		-	91	122

HSB-BW B22d		160W	250W	500W
L		178	-	-
D		76	-	-

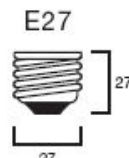
B22d



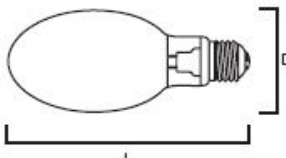
E40




E27



HSB-BW

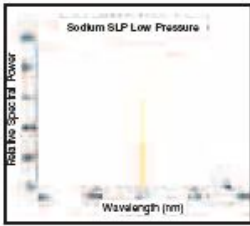




- Range of self-ballasted high pressure mercury lamps
- Direct plug-in replacement for incandescent, with mains voltage operation
- Extremely low system cost as no control gear is required
- Reliable starting down to -18°C
- Pleasant white light with good colour rendering index (Ra60)
- Improved lighting levels over incandescent in industrial and exterior environments

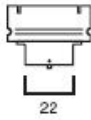


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>HSB-BW Bright White Blended Elliptical 230V</b>									
0020414	HSB-BW 160W 230V	160W	230V	0.80A	E27	Coated	3500K	3100 lm	40
0020415	HSB-BW 250W 230V	250W	230V	1.20A	E40	Coated	3500K	5600 lm	12
0020449	HSB-BW 250W 230V	250W	230V	1.20A	E27	Coated	3500K	5600 lm	12
0020456	HSB-BW 500W 230V	500W	230V	2.40A	E40	Coated	3500K	14000 lm	12
<b>HSB-BW Bright White Blended Elliptical 240V</b>									
0020475	HSB-BW 160W 240V	160W	240V	0.75A	E27	Coated	3500K	3100 lm	40
0020476	HSB-BW 160W 240V	160W	240V	0.75A	B22d	Coated	3500K	3100 lm	40
0020477	HSB-BW 250W 240V	250W	240V	1.15A	E40	Coated	3500K	5600 lm	12
0020478	HSB-BW 500W 240V	500W	240V	2.20A	E40	Coated	3500K	14000 lm	12



SLP	18W	35W	55W	90W	135W	180W
L	216	311	425	528	775	1120
D	54	54	54	68	68	68

BY22d

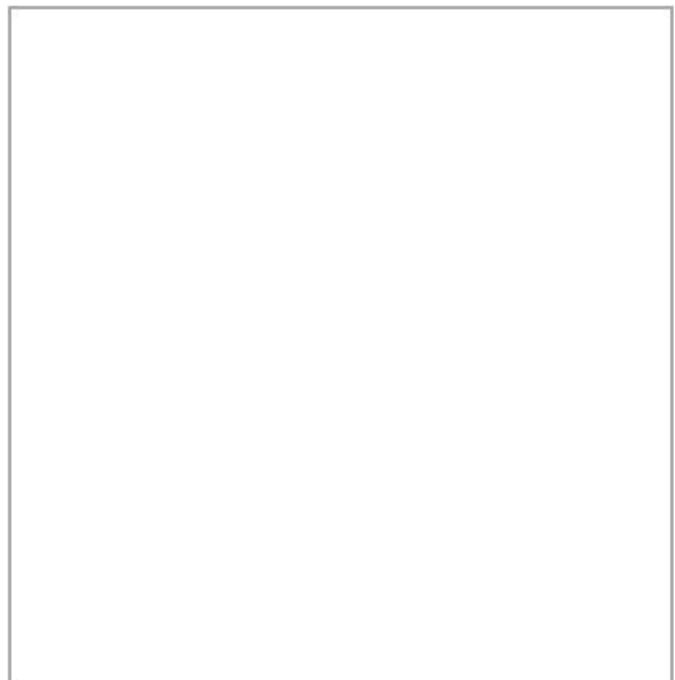
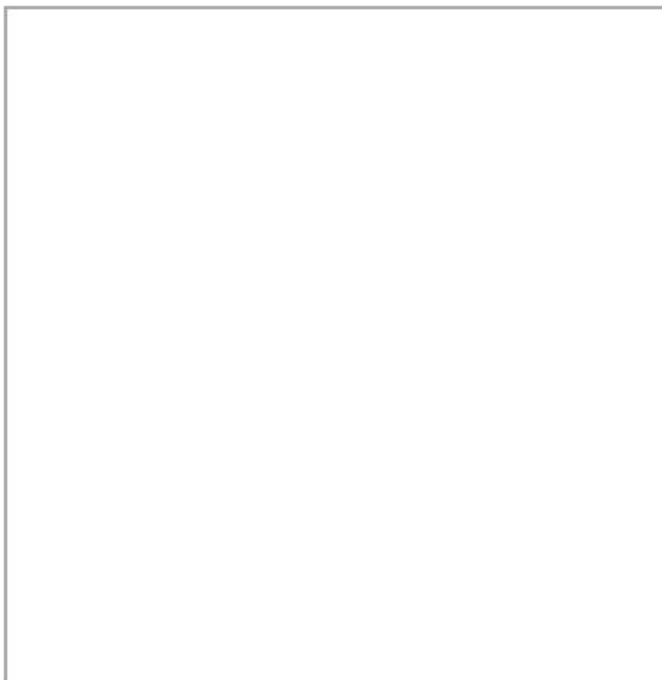


- Range of monochromatic low pressure sodium discharge lamps
- Highest efficacy available – up to 183 lm/W
- Monochromatic warm yellow light
- Radiates light in the most effective part of the visible spectrum
- Road lighting with maximum light levels with minimum energy costs
- Pedestrian crossing lighting for contrast with mercury or fluorescent sources

SLP 18 / 35 / 55W



SLP 90 / 135 / 180W



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
<b>SLP Tubular</b>									
0020528	SLP 18W	18W	57V	0.35A	BY22d	Clear	1800K	1800 lm	12
0020495	SLP 35W	35W	70V	0.60A	BY22d	Clear	1800K	4500 lm	12
0020496	SLP 55W	55W	109V	0.59A	BY22d	Clear	1800K	7400 lm	12
0020497	SLP 90W	90W	112V	0.94A	BY22d	Clear	1800K	13000 lm	12
0020498	SLP 135W	135W	164V	0.95A	BY22d	Clear	1800K	21500 lm	12
0020499	SLP 180W	180W	240V	0.91A	BY22d	Clear	1800K	33000 lm	6

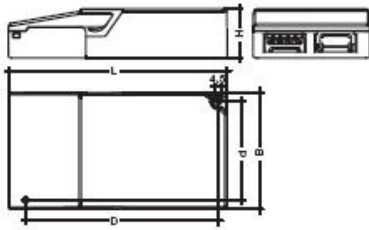
# BriteTronic™



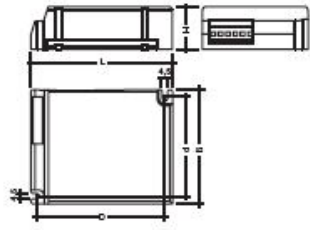
BriteTronic (Remote)	35W	70W
L	150	150
B	80	80
H	34	34

BriteTronic	35W	70W
L	90	100
B	60	75
H	28	28

Remote Version



Built-in Version

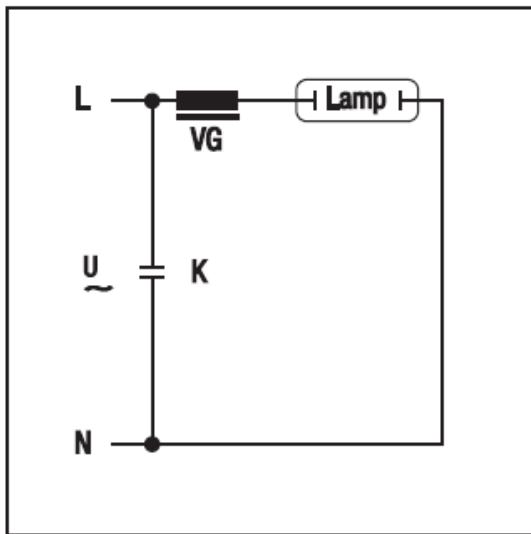


- Remote & Built-In available.
- Optimal Lamp operation.
- Compliant with all EN regulations.
- Over temperature Cut-off.
- Low Power Consumption.

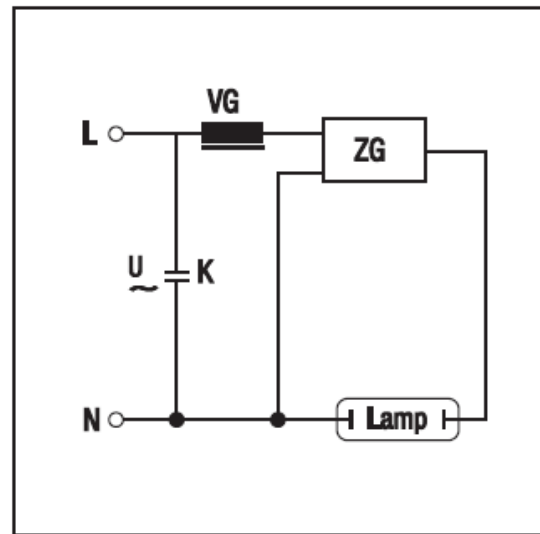


Code	Description	Rated Lamp Type	Line Voltage +/- 10%	Line Frequency	System Power	Packing Qty
0010932	BriteTronic™ PCI 0035 B011	BriteSpot, CMI, HSI 35W	220-240V	0/50-60 Hz	44.0W	15
0010933	BriteTronic™ PCI 0035 B021	BriteSpot, CMI, HSI 35W	220-240V	0/50-60 Hz	44.0W	15
0010934	BriteTronic™ PCI 0070 B011	BriteSpot, CMI, HSI 70W	220-240V	0/50-60 Hz	79.0W	15
0010935	BriteTronic™ PCI 0070 B021	BriteSpot, CMI, HSI 70W	220-240V	0/50-60 Hz	79.0W	15

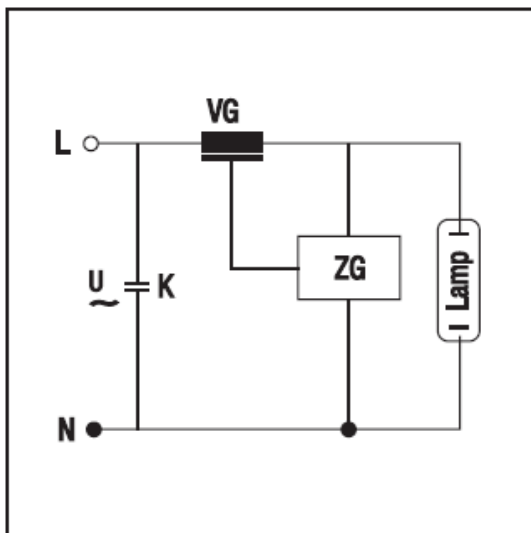
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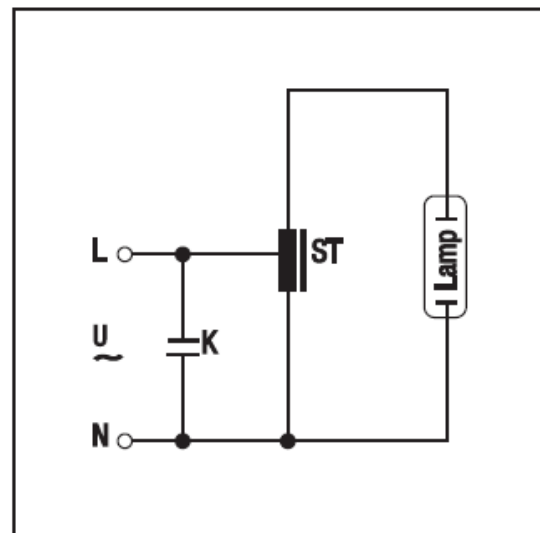
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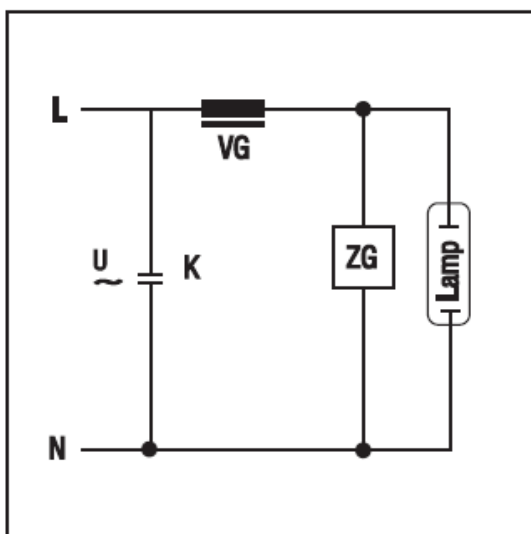
No 3



No 4



No 5



- L = Live conductor
- N = Neutral conductor
- U = power supply voltage
- VG = ballast
- K = capacitor
- ZG = ignitor
- ST = leakage reactance transformer

# Electrical and Photometric Data

Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
BriteSpot ES50 35W 24°	42W	N/A	1A	Electronic
BriteSpot ES50 35W 38°	42W	N/A	1A	Electronic
BriteSpot ES50 35W 60°	42W	N/A	1A	Electronic
BriteSpot ESD50 35W 24°	42W	N/A	1A	Electronic
BriteSpot ESD50 35W 38°	42W	N/A	1A	Electronic
BriteSpot ESD50 35W 60°	42W	N/A	1A	Electronic
BriteSpot ESD50 35W/Blue	42W	N/A	N/A	Electronic
BriteSpot ESD50 35W/Green	42W	N/A	N/A	Electronic
BriteSpot ESD50 35W/Red	42W	N/A	N/A	Electronic
BriteSpot ESD50 35W/Yellow	42W	N/A	N/A	Electronic
BriteSpot ES111 35W 8°	42W	N/A	1A	Electronic
BriteSpot ES111 35W 24°	42W	N/A	1A	Electronic
BriteSpot ES111 35W 45°	42W	N/A	1A	Electronic
BriteSpot ESD111 70W 24°	82W	N/A	1A	Electronic
BriteSpot ESD111 70W 45°	82W	N/A	1A	Electronic
BriteSpot DE 70W/WDL	90W	12	1B	2
BriteSpot DE 70W/NDL	90W	12	1B	2
BriteSpot DE 150W/WDL	170W	20	1B	2
BriteSpot DE 150W/NDL	170W	20	1B	2
CMI-T 35W/WDL	48W	6	1B	2
CMI-T 70W/WDL	88W	12	1B	2
CMI-T 70W/NDL	88W	12	1A	2
CMI-T 150W/WDL	167W	20	1B	2
CMI-T 150W/NDL	167W	20	1A	2
CMI-TD 70W/WDL	86W	12	1B	2
CMI-TD 70W/NDL	86W	12	1A	2
CMI-TD 150W/WDL	167W	20	1B	2
CMI-TD 150W/NDL	167W	20	1A	2
CMI-TC 35W/WDL	48W	6	1B	2
CMI-TC 70W/NDL	88W	12	1B	2
HSI-MP 70W/CL/WDL	90W	10	2B	2
HSI-MP 70W/CO/WDL	90W	10	2A	2
HSI-MP 70W/CL/NDL	90W	10	2A	2
HSI-MP 70W/CO/NDL	90W	10	2A	2
HSI-MP 100W/CL/WDL	115W	12	2B	2
HSI-MP 100W/CO/WDL	115W	12	2A	2
HSI-MP 100W/CL/NDL	115W	12	2A	2
HSI-MP 100W/CO/NDL	115W	12	2A	2
HSI-MP 150W/CL/WDL	170W	20	2B	2
HSI-MP 150W/CO/WDL	170W	20	2A	2
HSI-MP 150W/CL/NDL	170W	20	2A	2
HSI-MP 150W/CO/NDL	170W	20	2A	2

Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
HSI-TD 70W/WDL	90W	12	1B	2
HSI-TD 70W/NDL	90W	12	1B	2
HSI-TD 70W/D	90W	12	1B	2
HSI-TD 150W/WDL	170W	20	1B	2
HSI-TD 150W/NDL	170W	20	1B	2
HSI-TD 150W/D	170W	20	1B	2
HSI-TD 250W/WDL	275W	32	1B	2
HSI-TD 250W/NDL	275W	32	1B	2
HSI-TD 250W/D	275W	32	1A	2
HSI-TD 150W AquaArc	170W	20	1B	2
HSI-TD 250W AquaArc	275W	32	1B	2
HSI-TD 150W CoralArc	170W	20	1B	2
HSI-TD 250W CoralArc	275W	32	1B	2
HSI-T 70W/WDL	90W	12	1B	2
HSI-T 70W/NDL	90W	12	1B	2
HSI-T 150W/WDL	167W	20	1B	2
HSI-T 150W/NDL	167W	20	1B	2
HSI-SX 250W/CL BriteLux	290W	40	2B	2/3
HSI-SX 250W/CL/P BriteLux	290W	40	2B	2/3
HSI-SX 250W/CO BriteLux	290W	40	2A	2/3
HSI-SX 250W/CO/P BriteLux	290W	40	2A	2/3
HSI-SX 400W/CL/P BriteLux	465W	45	2B	2/3
HSI-SX 400W/CO/P BriteLux	465W	45	2A	2/3
HSI-TSX 250W BriteLux	290W	40	2B	2/3
HSI-TSX 400W BriteLux	465W	45	2B	2/3
HSI-HX 250W/CL	265W	18	2B	5
HSI-HX 250W/CO	265W	18	2A	5
HSI-HX 400W/CL	420W	28	2B	5
HSI-HX 400W/CO	420W	28	2A	5
HSI-HX 400W/CO/I	420W	28	2A	5
HSI-THX 250W	265W	18	2B	5
HSI-THX 400W	420W	28	2B	5
HSI-T 250W/D	275W	32	1A	2
HSI-T 400W/D	440W	45	1A	2
HSI-T 1000W	985W	65	2B	5
HSI-T 2000W-S/380V	2022W	35	2B	5
HSI-T 2000W-S/I/380V	2022W	35	2B	1
HSI-TD 1000W/D	1065W	85	1A	2
HSI-TD 2000W/D	2030W	60	1A	2

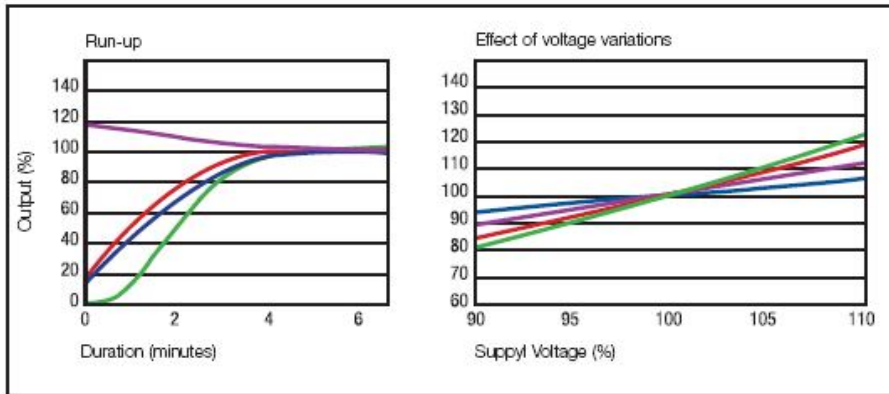
## Electrical and Photometric Data

Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
SHP-S 35W	42W	6	4	2/3
SHP-S 50W	60W	8	4	2/3
SHP-S 70W	82W	10	4	2/3
SHP-S 100W	115W	12	4	2/3
SHP-S 150W	170W	20	4	2/3
SHP-S 250W	285W	40	4	2/3
SHP-S 400W	450W	45	4	2/3
SHP-TS 35W	42W	6	4	2/3
SHP-TS 50W	60W	8	4	2/3
SHP-TS 70W	82W	10	4	2/3
SHP-TS 100W	115W	12	4	2/3
SHP-TS 150W	170W	20	4	2/3
SHP-TS 250W	285W	40	4	2/3
SHP-TS 400W	440W	45	4	2/3
SHP-TS 600W	645W	60	4	2
SHP-TS 400W GroLux	467W	45	4	2
SHP-TS 600W GroLux	661W	60	4	2
SHP-TS 600W/400V GroLux	645W	25	4	2
SHP-TS 70W Mercury Free	82W	10	4	2/3
SHP-TS 100W Mercury Free	115W	12	4	2/3
SHP-TS 150W Mercury Free	173W	20	4	2/3
SHP-TS 250W Mercury Free	288W	40	4	2/3
SHP-TS 400W Mercury Free	448W	45	4	2/3
SHP-S 35W TwinArc	42W	6	4	2/3
SHP-S 50W TwinArc	60W	8	4	2/3
SHP-S 70W TwinArc	82W	10	4	2/3
SHP-S 100W TwinArc	115W	12	4	2/3
SHP-S 150W TwinArc	170W	20	4	2/3
SHP-S 250W TwinArc	285W	40	4	2/3
SHP-S 400W TwinArc	450W	45	4	2/3
SHP-TS 50W TwinArc	60W	8	4	2/3
SHP-TS 70W TwinArc	82W	10	4	2/3
SHP-TS 100W TwinArc	115W	12	4	2/3
SHP-TS 150W TwinArc	170W	20	4	2/3
SHP-TS 250W TwinArc	285W	40	4	2/3
SHP-TS 400W TwinArc	440W	45	4	2/3
SHP-T 1000W SBY	1020W	100	4	2/3
SHP 50W	60W	8	4	2/3
SHP 70W	82W	10	4	2/3
SHP 100W	115W	12	4	2/3
SHP 150W	170W	20	4	2/3
SHP 250W	280W	40	4	2/3
SHP 400W	440W	45	4	2/3

Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
SHP-T 50W	60W	8	4	2/3
SHP-T 70W	82W	10	4	2/3
SHP-T 150W	170W	20	4	2/3
SHP-T 250W	280W	40	4	2/3
SHP-T 400W	432W	45	4	2/3
SHP-T 1000W	1020W	100	4	2/3
SHP-TD 70W	82W	10	4	2/3
SHP-TD 150W	82W	10	4	2/3
SHP 50W/CO-I	60W	8	4	1
SHP 70W/CO-I	82W	10	4	1
SHP 70W/CL-I	82W	10	4	1
SHX 110W	130W	10	4	1
SHX 210W	243W	18	4	1
SHX 350W	416W	25	4	1
SPX EcoArc 69/108W	82W	8	4	1
SPX EcoArc 69/108W	124W	10	4	1
SPX EcoArc 190W	226W	18	4	1
SPX EcoArc 295W	363W	25	4	1
HSL-SC 50W	59W	7	3	1
HSL-SC 80W	90W	8	3	1
HSL-SC 125W	140W	10	3	1
HSL-SC 250W	281W	18	3	1
HSL-SC 400W	451W	25	3	1
HSL-BW 50W	59W	7	3	1
HSL-BW 80W	90W	8	3	1
HSL-BW 125W	140W	10	3	1
HSL-BW 250W	281W	18	3	1
HSL-BW 400W	451W	25	3	1
HSL-BW 700W	735W	40	3	1
HSL-BW 1000W	1045W	60	3	1
HSB-BW 160W 230V	160W	-	2B	-
HSB-BW 250W 230V	250W	-	2B	-
HSB-BW 250W 230V	250W	-	2B	-
HSB-BW 500W 230V	500W	-	2B	-
HSB-BW 160W 240V	160W	-	2B	-
HSB-BW 160W 240V	160W	-	2B	-
HSB-BW 250W 240V	250W	-	2B	-
HSB-BW 500W 240V	500W	-	2B	-
SLP 18W	25W	5	-	3/4
SLP 35W	46W	20	-	3/4
SLP 55W	77W	20	-	3/4
SLP 90W	101W	26	-	3/4
SLP 135W	155W	45	-	3/4
SLP 180W	211W	40	-	3/4

# Lamp Performance During Run-Up & the Effect of Mains Voltage Variations

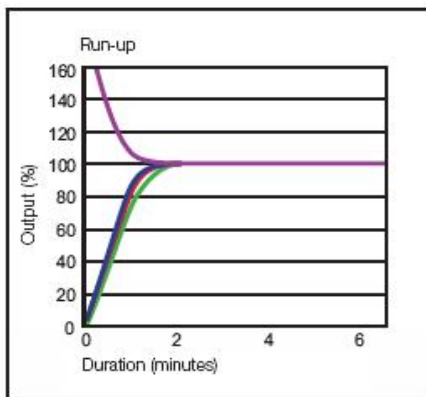
## Ceramic Metal Halide



### Re-start time when hot

TD versions: immediate with appropriate start up system  
T, TC versions: up to 10 minutes

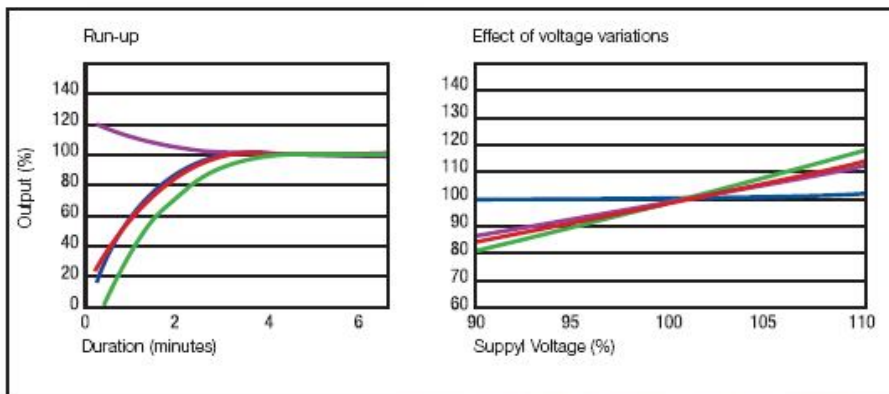
## BriteSpot



Re-start time when hot  
3 to 4 minutes

■ Lamp Voltage  
■ Lamp Current  
■ Lamp Power  
■ Luminous Flux

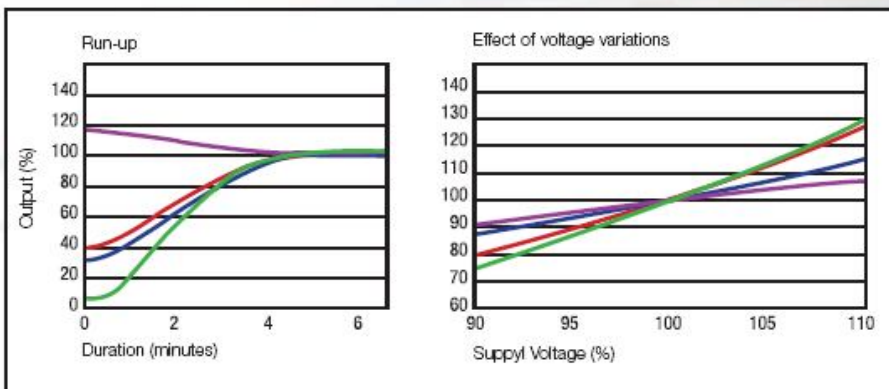
## Quartz Metal Halide



### Re-start time when hot

TD versions: immediate with appropriate start up system  
Other versions: up to 10 minutes

## High Pressure Sodium

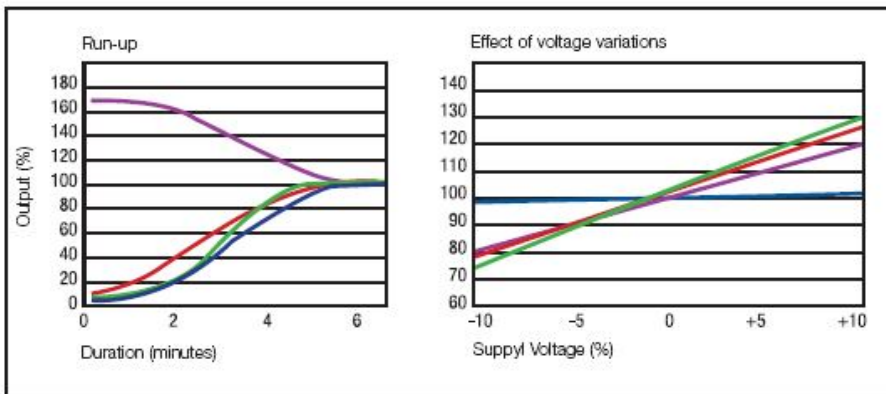


### Re-start time when hot

Twinarc, SBY: immediate re-start  
Standard, Super & MF: up to 1 minute

# Lamp Performance During Run-Up & the Effect of Mains Voltage Variations

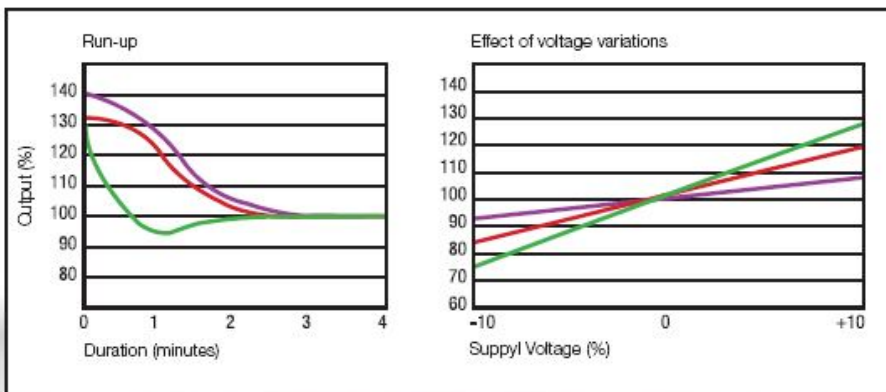
## High Pressure Mercury



Re-start time when hot  
5 to 10 minutes

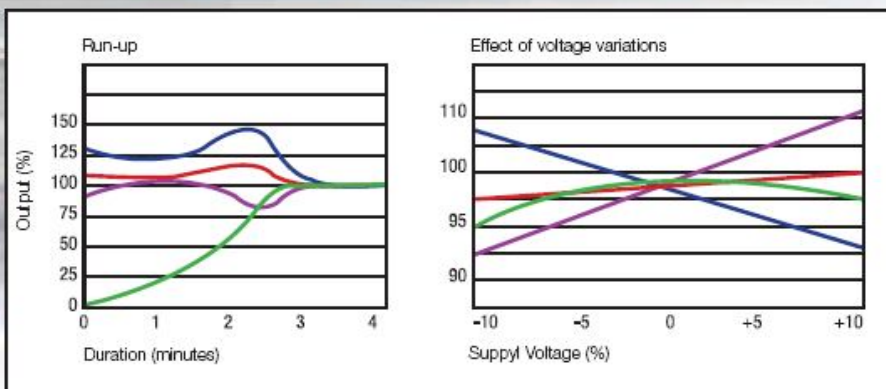
- Lamp Voltage
- Lamp Current
- Lamp Power
- Luminous Flux

## Blended High Pressure Mercury



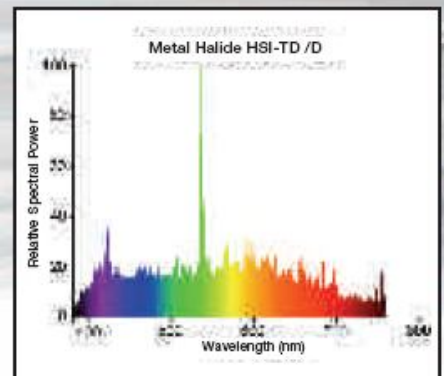
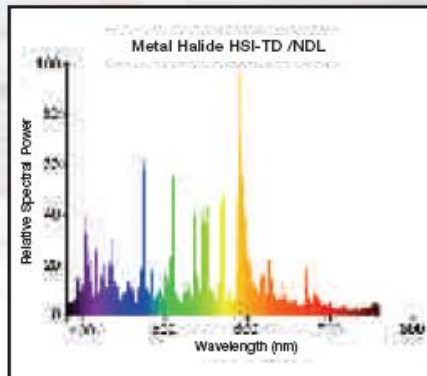
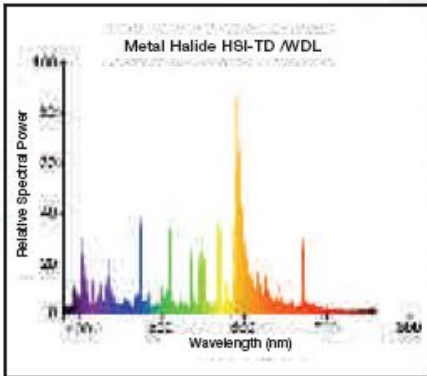
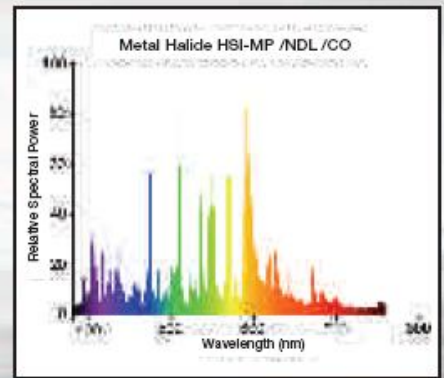
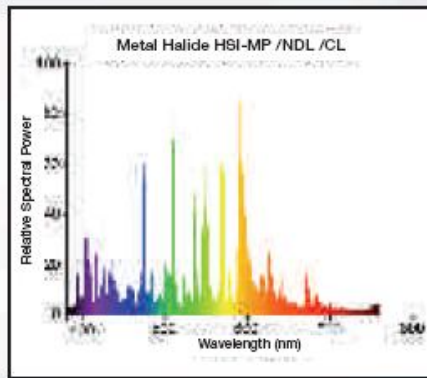
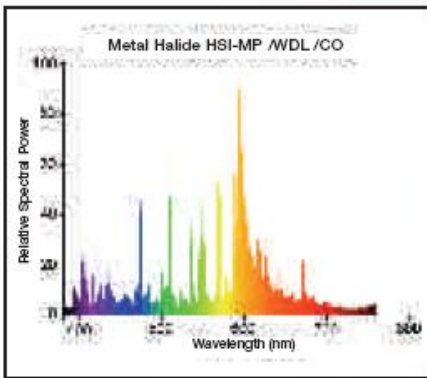
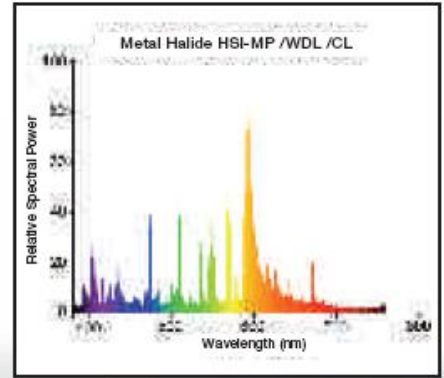
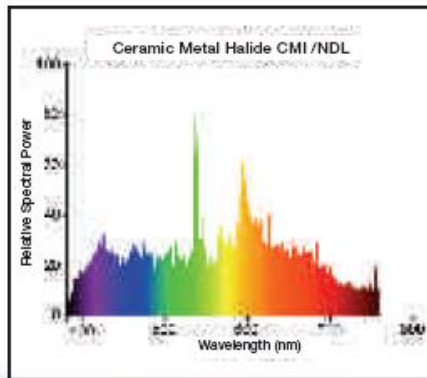
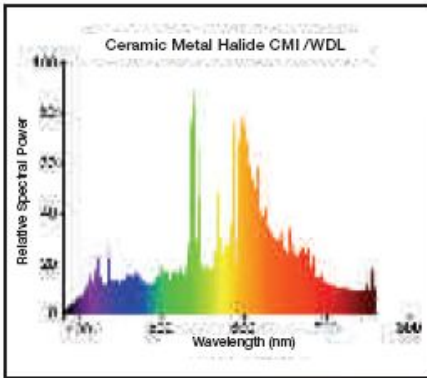
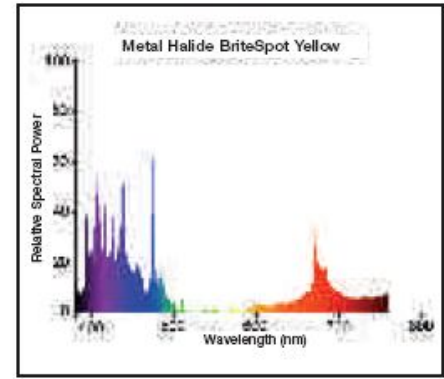
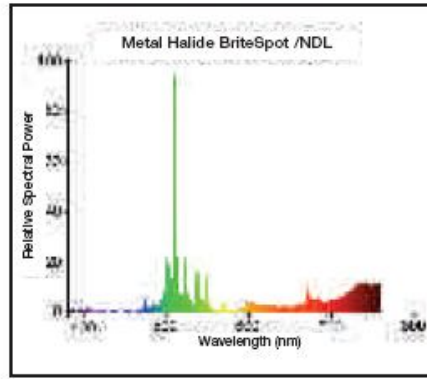
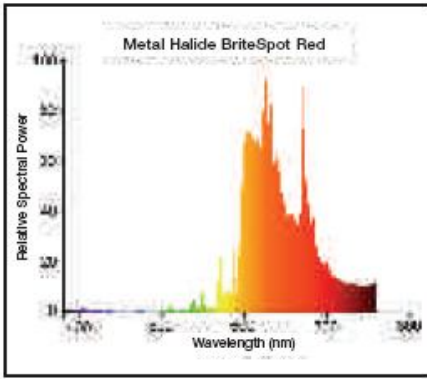
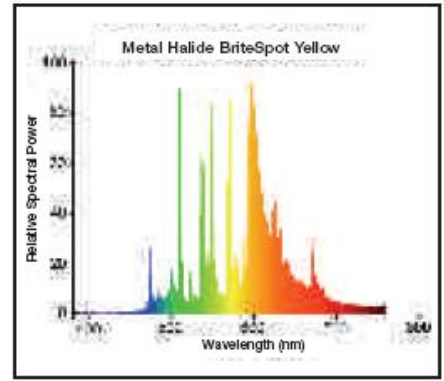
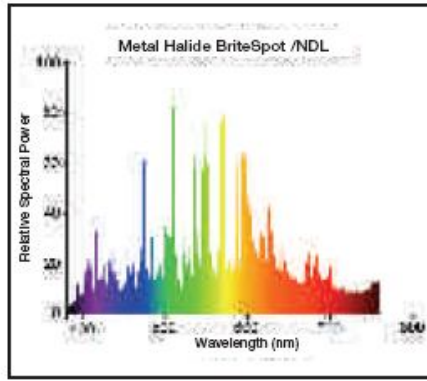
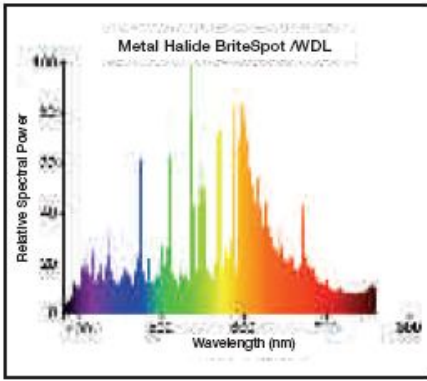
Re-start time when hot  
5 to 10 minutes

## Low Pressure Sodium

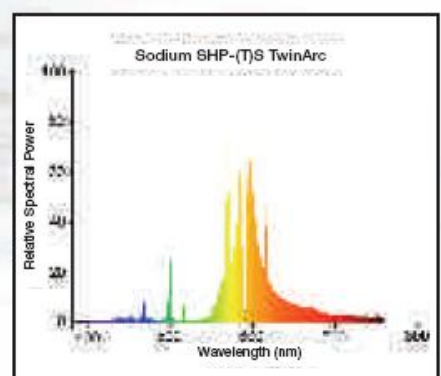
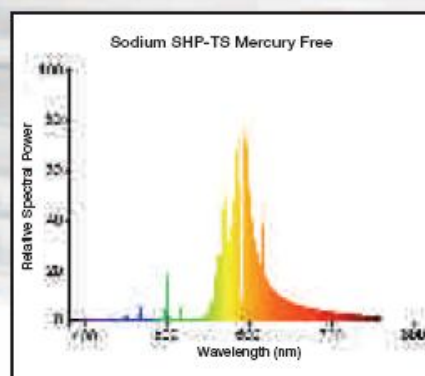
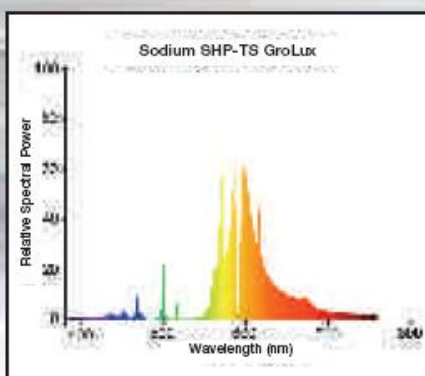
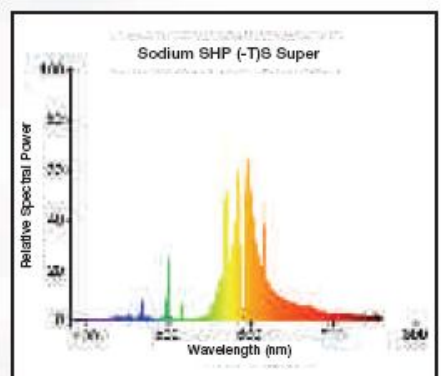
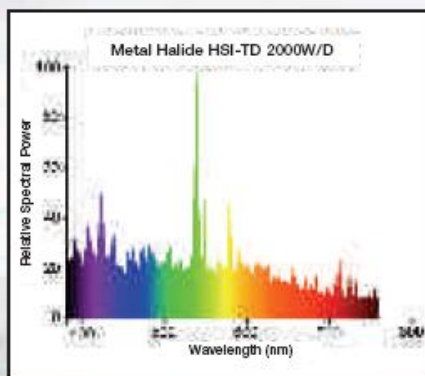
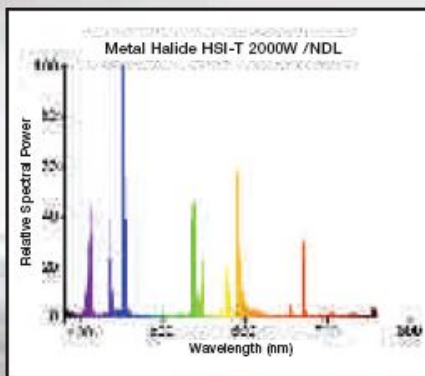
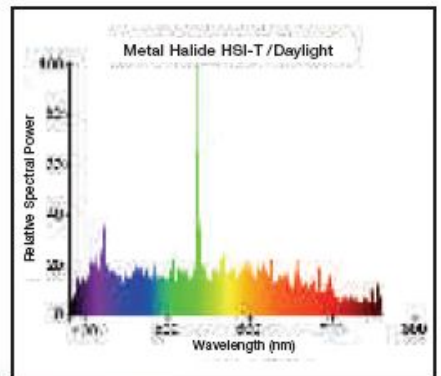
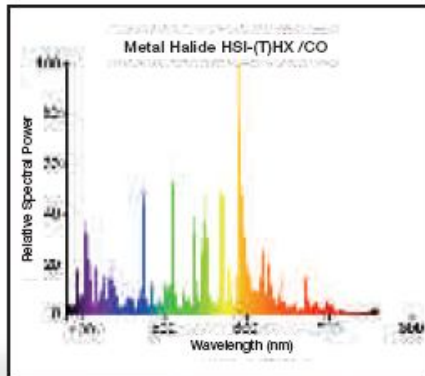
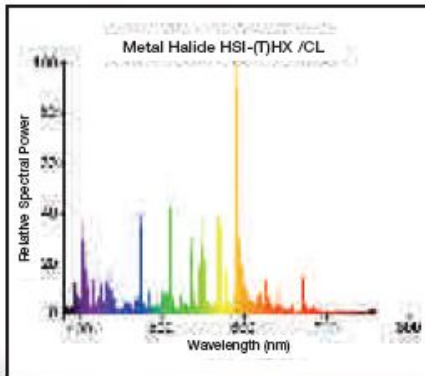
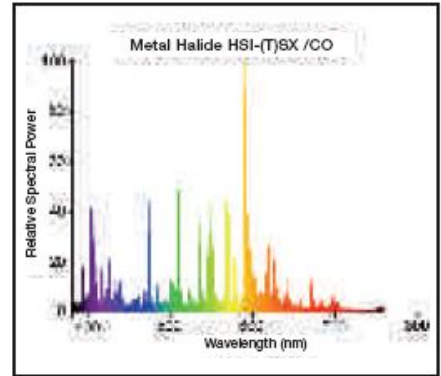
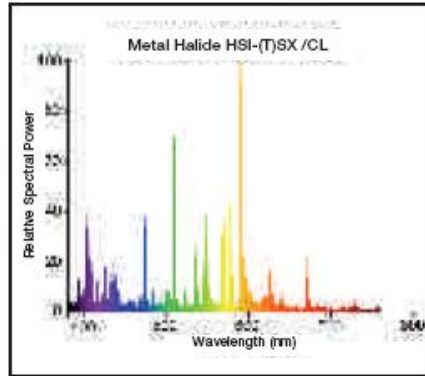
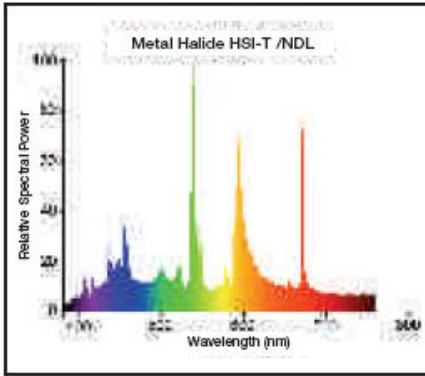
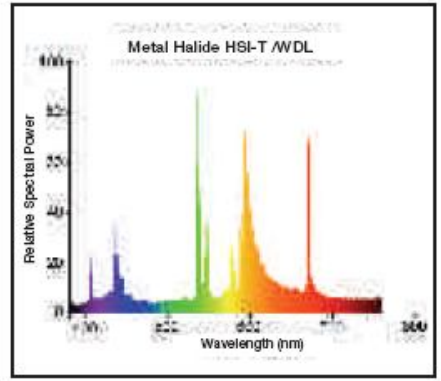
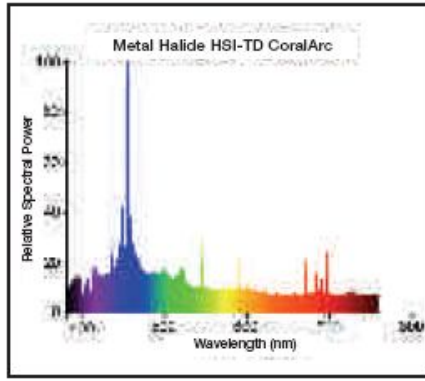
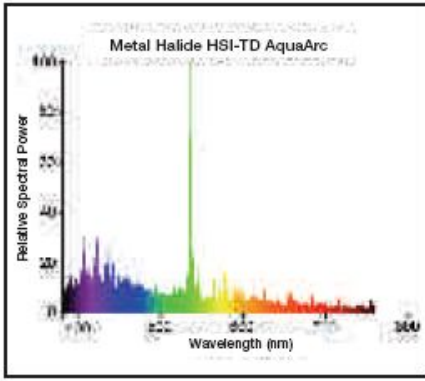


Re-start time when hot  
up to 6 minutes depending on  
interruption time.

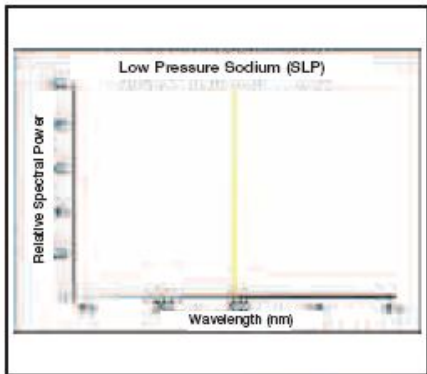
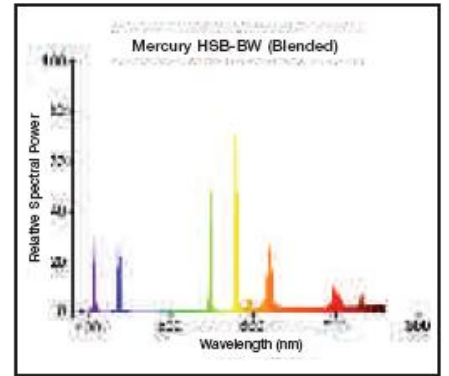
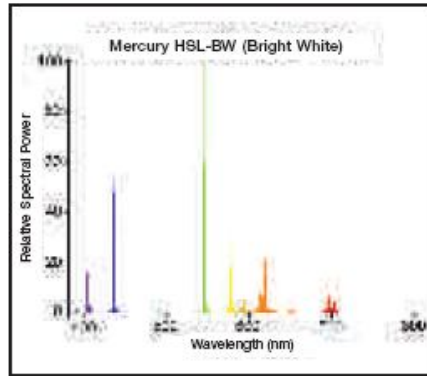
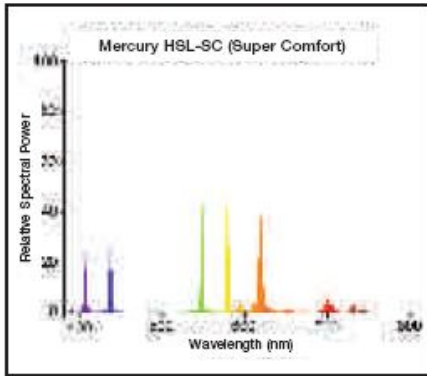
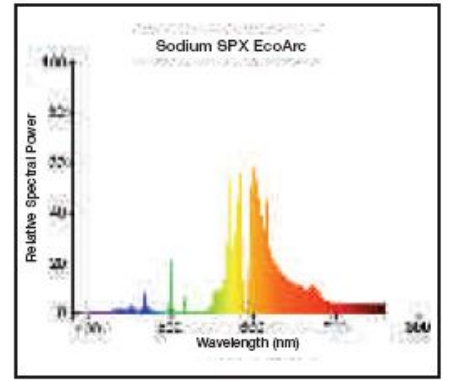
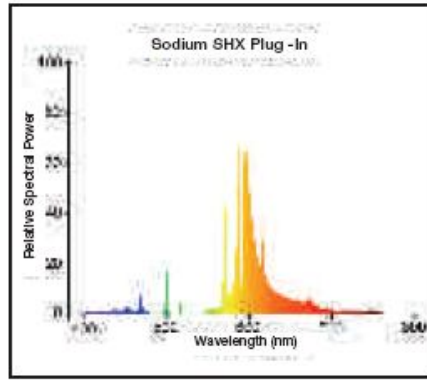
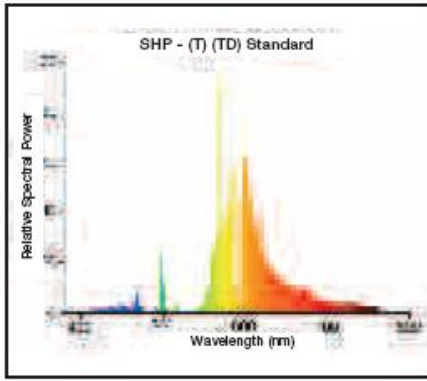
# Spectral Power Distribution



# Spectral Power Distribution



# Spectral Power Distribution



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## General Introduction

In addition to offering one of the widest ranges of conventional lamps, Sylvania also offer a comprehensive range of lamps to meet a diverse range of specialist applications. This Special product range includes Photo-, Stage- and Studio lamps, and Sun Tanning lamps. The key to the success of these products depends very much on satisfying the unique requirements of our Speciality customers. Critical factors in this process are: quality assurance, reliability, highly skilled sales support and a dependable distribution network.



### PHOTO OPTIC

Sylvania offer a wide and competitive range of lamps specifically designed for photo and projection applications. Used by photographers and in film and slide projectors; photo labs and mini-labs are also an important application.

The market for studio, stage, theatre and disco is rapidly growing with demand now shifting towards high pressure metal halide lamps. BriteArc is the ideal solution for these applications. With a small arc gap, it is ideal to optimally concentrate the light and produce a strong beam.



A special Photo Optic Catalogue is also available from your local Sylvania office. Contact details are on the back cover of this catalogue.

### AQUARIUM & TERRARIUM

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. 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.

### INSECT TRAPPING AND DISINFECTION

Flying insects such as the common house fly, wasps, midges etc carry up to 4 million pathogenic bacteria. Their presence is totally unacceptable in areas where hygiene is paramount. Sylvania offer a wide range of UV-A lamps in various lengths and diameters to attract these insects. Sylvania lamps are utilised in many brands of insect traps.

Micro-organisms such as bacteria, moulds, yeasts etc can be destroyed or removed by physical, biological, and chemical methods. UV-C radiation destroys or inactivates the micro organism so that it can no longer multiply. Our extensive range of germicidal and blacklight lamps are ideal for generating the right sterilising effect.



### TRAFFIC

Airfields require lighting to provide aircraft with accurate information on positioning and direction. Sylvania offer a range of halogen capsule and reflector lamps for runways and taxiways. In such a critical 24/7 environment, all Airfield lighting must be of the highest quality.

Sylvania lamps are also used internally in aircraft cabins, throughout the world.

Special incandescent lamps are supplied to local authority, government and maintenance companies for use in traffic lights. With an exceptional average life of 8000hrs, these lamps have a reinforced filament in order to absorb shocks.



### BODY CARE

Wellness, sun tanning and body care in general are more and more part of modern life. Our Pure Bronze range of sun tanning low-pressure lamps and high-pressure tubes leave barely any wish unfulfilled. Open and closed glass, 2-meter and miniature tubes, with and without reflectors, standard or long life versions, Pure Bronze provides a matching solution for practically every requirement.




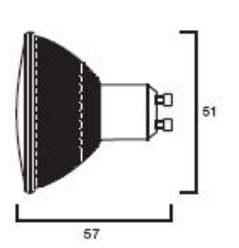
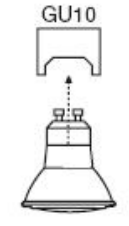
### FOOD DISPLAY

With a modified special spectrum, food display lamps are the perfect lighting for butchers, bakeries and supermarkets. In particular, meat products can be displayed very attractively using this form of specialist lamp. Food display lamps have an excellent colour rendering and are direct retro-fit for conventional T8 lamps.



A special Suntanning Catalogue is also available from your local Sylvania office. Contact details are on the back cover of this catalogue.

## Hi Spot ES50 GU 10 Coloured

25°		35W	50W
443mmØ	1m	500lx	800lx
887mmØ	2m	125lx	200lx
1330mmØ	3m	56lx	89lx
1774mmØ	4m	31lx	50lx

universal UV STOP

**FEATURES**

- Transparent lens in real natural coloured glass
- Pure, saturated beam colours without the usual rainbow-effect halo
- Four colours available: red, yellow, green and blue
- Unique, patented, computer designed spiral faceted aluminised reflector
- Available in medium flood version: 25°

**APPLICATIONS**

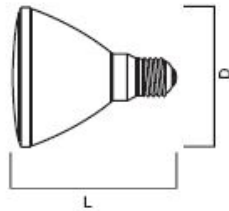
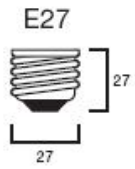
- To bring a touch of colour in a wide range of applications
- Architectural features
- Discos and clubs
- Decorative lighting

**DIRECTIONS FOR USE**

- For use in mains voltage fixtures with GU10 base
- Universal burning
- Suitable for exterior use in conjunction with waterproof fixtures
- Can be dimmed using standard dimming switches



Code	Item description	Watt W	Voltage V	Beam Angle	Luminous intensity cd	Colour	Cap	Average Rated Life hrs	Packing Quantity
0021270	Hi-Spot ES50 50W BLUE 240V	50	240	25°	30	Blue	GU10	2500	10
0021271	Hi-Spot ES50 50W GREEN 240V	50	240	25°	130	Green	GU10	2500	10
0021272	Hi-Spot ES50 50W RED 240V	50	240	25°	225	Red	GU10	2500	10
0021273	Hi-Spot ES50 50W YELLOW 240V	50	240	25°	550	Yellow	GU10	2500	10



Code	L	D
0019650	136	124
0019651	136	124
0019652	136	124
0019653	136	124



240V 80W RED



240V 80W BLUE



240V 80W GREEN



240V 80W YELLOW

**FEATURES**

- Parabolic-shaped reflector made from hard glass
- Coloured front lens
- Choice of four colours: Blue, Green Red, and Yellow
- E27 cap

**APPLICATIONS**

- Mainly used in commercial accent lighting
- To create special effects in bars, clubs and discos and in shop window displays

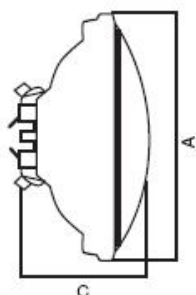


Code	Item description	Watt	Volt	Cap	Packing Quantity
0019650	80W/FL30°PAR38 blue	80	240	E27	15
0019651	80W/FL30°PAR38 green	80	240	E27	15
0019652	80W/FL30°PAR38 red	80	240	E27	15
0019653	80W/FL30°PAR38 yellow	80	240	E27	15

## PAR36



PAR36 6V 30W



Code	A	C
9061531	114	70
9020167	114	70
0060508	114	70
0060501	114	70
0060502	114	70
0060503	114	70

## FEATURES

- Pressed glass reflector lamps
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Economical light source for effects
- Halogen version delivers maintained beam intensity throughout life

## APPLICATIONS

- Entertainment and Architectural applications
- Displays ● Museums
- Exhibitions ● Gardens
- Discos

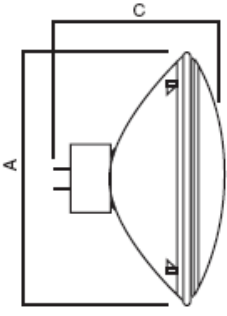
## DIRECTIONS FOR USE

- Easy handling
- Can be used with very economical fixtures (PAR cans)

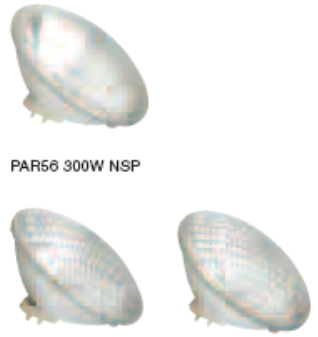


Item description	ANSI	LIF	Voltage V	Watt W	Beam type	Approx. Beam Spread 10% Peak CD	Base
PAR 36 6,4V 30W (4515)	-	-	6.4	30	Spot	5x5	Screw Terminal
PAR 36 12,8V 30W (H 4405)	-	-	12.8	30	Spot	6x5	Screw Terminal
PAR36 12V 50W VNSP			12	50	Very Narrow Spot	6x6	Screw Terminal
PAR 36 12V 50W NSP	-	-	12	50	Narrow Spot	11x10	Screw Terminal
PAR 36 12V 50W NFL	-	-	12	50	Wide Flood	30x25	Screw Terminal
PAR 36 120V 650W	DWE	-	120	650	Medium Flood	40x30	Screw Terminal

Code	Item description	Peak Intensity cd	Colour temp. K	Rated Av. Life h	Burning Position	Packing Quantity
9061531	PAR 36 6,4V 30W (4515)	55000	3200	100	Any	12
9020167	PAR 36 12,8V 30W (H 4405)	50000	3200	100	Any	12
0060508	PAR36 12V 50W VNSP	19000	3000	2000	Any	12
0060501	PAR 36 12V 50W NSP	11000	3000	2000	Any	12
0060502	PAR 36 12V 50W NFL	1300	3000	2000	Any	12
0060503	PAR36 DWE 120V 650W	24000	3200	100	H15	12



Code	A	C
0060510	178,6	127
0060511	178,6	127
0060512	178,6	127
0060513	178,6	127
0060514	178,6	127
0060515	178,6	127



PAR56 300W NSP

PAR56 300W MFL      PAR56 300W WFL

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Pressed glass reflector lamps</li> <li>● Beam patterns : from very narrow spot through wide angle floods</li> <li>● Consistency from lamp to lamp</li> <li>● Instant replaceability without the need to re-focus and re-aim fixtures</li> </ul>	<p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>● Theatre lighting</li> <li>● TV and studio</li> <li>● Entertainment and Architectural applications</li> <li>● Displays ● Museums</li> <li>● Churches ● Towers</li> <li>● Exhibitions ● Gardens</li> <li>● Discos</li> </ul>
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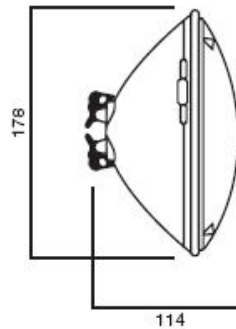
**DIRECTIONS FOR USE**

- Easy handling
- Can be used with very economical fixtures (PAR cans)

Item description	ANSI	LIF	Voltage	Watt	Beam type	Approx. Beam Spread		Base
			V	W		10% Peak CD	50% Peak CD	
PAR 56 300W NSP 230V	-	-	230	300	Narrow Spot	20° x 14°	10° x 8°	Gx16d
PAR 56 300W MFL 230V	-	-	230	300	Medium Flood	34° x 19°	23° x 11°	Gx16d
PAR 56 300W WFL 230V	-	-	230	300	Wide Flood	57° x 27°	37° x 18°	Gx16d
PAR 56 300W NSP 240V	-	-	240	300	Narrow Spot	20° x 14°	10° x 8°	Gx16d
PAR 56 300W MFL 240V	-	-	240	300	Medium Flood	34° x 19°	23° x 11°	Gx16d
PAR 56 300W WFL 240V	-	-	240	300	Wide Flood	57° x 27°	37° x 18°	Gx16d

Code	Description	Peak Intensity cd	Colour temp. K	Rated Av. Life h	Burning Position	Packing Quantity
0060510	PAR 56 300W NSP 230V	70000	2750	2000	Any	12
0060511	PAR 56 300W MFL 230V	30000	2750	2000	Any	12
0060512	PAR 56 300W WFL 230V	10000	2750	2000	Any	12
0060513	PAR 56 300W NSP 240V	70000	2750	2000	Any	12
0060514	PAR 56 300W MFL 240V	30000	2750	2000	Any	12
0060515	PAR 56 300W WFL 240V	10000	2750	2000	Any	12

## PAR56 12V Swimming Pool



### FEATURES

- Low voltage (12V) for safety reasons
- Heat resistant glass
- Sturdily constructed lamp absorbs mechanical shocks
- Wide beam

### APPLICATIONS

- Swimming Pools
- Fountains

### DIRECTIONS FOR USE

- High running current (25A)



Item description	ANSI	LIF	Voltage	Watt	Approx. Beam Spread Hor. x Vert. Degrees	Base
			V	W		
PAR 56 12V 300W Swimming Pool	-	-	12	300	50 x 25	Screw
Code	Item description	Peak Intensity cd	Colour temp. K	Rated Av. Life h	Burning Position	Packing Quantity
9061532	PAR 56 12V 300W Swimming Pool	12000	2850	1000	S45	12



**FEATURES**

- Pressed glass reflector lamps
- Beam patterns : from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures

**APPLICATIONS**

- Theatre lighting
- TV and studio
- Entertainment and Architectural applications
- Displays ● Museums
- Churches ● Towers
- Exhibitions ● Gardens
- Discos

**DIRECTIONS FOR USE**

- Easy handling
- Can be used with very economical fixtures (PAR cans)



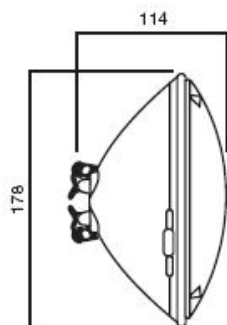
Item description	ANSI	LIF	Voltage	Watt	Beam Type	Approx. Beam Spread	Base
			V	W		10% Peak CD	

PAR 56 12V 100W (4545)	-	-	12	100	Spot	9 x 5	Screw Terminal
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Code	Item description	Peak Intensity	Colour temp.	Rated Av. Life	Burning Position	Packing Quantity
		cd	K	h		

0060509	PAR 56 12V 100W (4545)	225000	3200	100	Any	12
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## PAR56 LED Swimming pool



### FEATURES

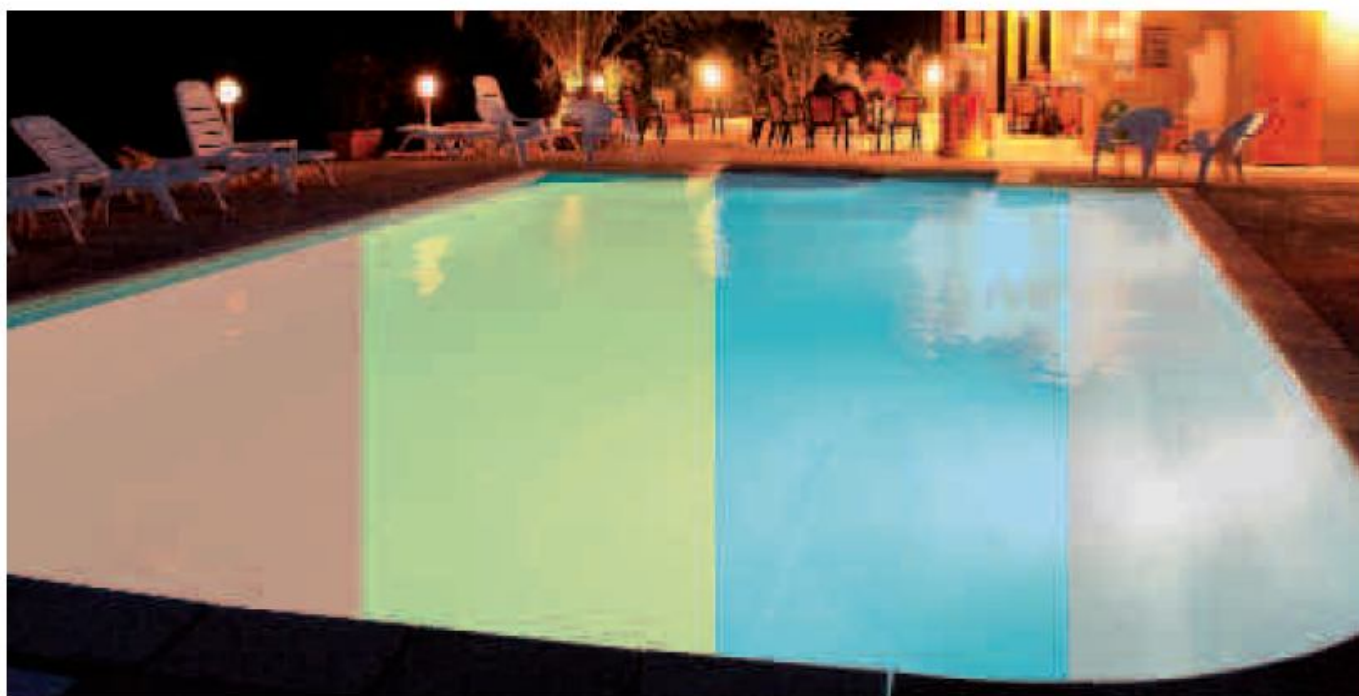
- Coloured LED retrofit for incandescent PAR56 lamps
- Produces full spectrum of rich colours or white (multi colours)
- Sylvania patent pending colour control technology
- Simple on/off switching sets colour changing or fixed mode
- Optional Sylvania remote control and receiver available
- Identical shape to incandescent PAR56 = easy retrofit
- Exclusive Ultrasonic welding guarantees water-tight seal
- Rugged poly-carbonate construction resists impacts
- Chlorine-resistant materials allow use in swimming pools
- Long lamp lifetime > 10,000 hours
- Low heat output

### APPLICATIONS

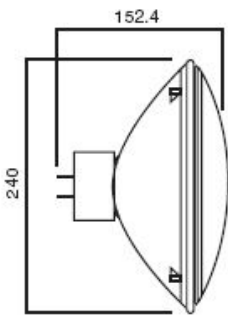
- All retro fit PAR 56
- Swimming Pools
- Fountains

### DIRECTIONS FOR USE

- Only suitable for use with magnetic (no electronic) transformer



Code	Description	Watt W	Volt V	Current	Base	Packing Quantity
0060521	PAR56 LED LAMP RGB + White (multi colours)	10	12V-AC	0,83A	Screws	12
0060522	PAR56 remote control		12V battery			
0060523	PAR56 receiver	max. 250W	220-250V	max. 1A		



Code	A	C
9061146	240	152,4
9061147	240	152,4
9061148	240	152,4
9061109	240	152,4
9061127	240	152,4
9061128	240	152,4
9061129	240	152,4



PAR 64 CP60 1000W NSP



PAR 64 CP61 1000W SP



PAR 64 CP62 1000W MFL

**FEATURES**

- Pressed glass reflector lamps
- Extremely powerful beam
- Halogen inner capsule, for 100% lumen maintenance through life
- Beam patterns : from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures

**APPLICATIONS**

- Theatre lighting
- TV and studio
- Entertainment and Architectural applications
- Displays ● Museums
- Churches ● Towers
- Exhibitions ● Gardens
- Discos

**DIRECTIONS FOR USE**

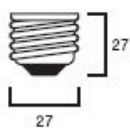
- Easy handling
- Can be used with very economical fixtures (PAR cans)

Item description	ANSI	LIF	Voltage	Watt	Beam Type	Approx. Beam Spread		Base
			V	W		10% Peak CD	50% Peak CD	
PAR 64 CP86 240V 500W VNSP	-	CP86	240	500	Very Narrow Spot	16x13	10x7	Gx16d
PAR 64 CP87 240V 500W NSP	-	CP87	240	500	Narrow Spot	19x16	11x9	Gx16d
PAR 64 CP88 240V 500W MFL	-	CP88	240	500	Medium Flood	32x19	21x10	Gx16d
PAR 64 CP60 240V 1000W NSP	EXC	CP60	240	1000	Narrow Spot	20x17	12x6	Gx16d
PAR 64 CP61 240V 1000W SP	EXD	CP61	240	1000	Spot	23x20	14x7	Gx16d
PAR 64 CP62 240V 1000W MFL	EXE	CP62	240	1000	Medium Flood	39x24	28x12	Gx16d
PAR 64 CP95 240V 1000W XWFL	EXG	CP95	240	1000	Extra Wide Flood	125x95	70x70	Gx16d

Code	Item description	Peak Intensity cd	Colour temp. K	Rated Av. Life h	Burning Position	Packing Quantity
9061146	PAR 64 CP86 240V 500W VNSP	240000	3200	300	Any	6
9061147	PAR 64 CP87 240V 500W NSP	140000	3200	300	Any	6
9061148	PAR 64 CP88 240V 500W MFL	65000	3200	300	Any	6
9061109	PAR 64 CP60 240V 1000W NSP	400000	3200	300	Any	6
9061127	PAR 64 CP61 240V 1000W SP	275000	3200	300	Any	6
9061128	PAR 64 CP62 240V 1000W MFL	130000	3200	300	Any	6
9061129	PAR 64 CP95 240V 1000W	15000	3200	300	Any	6

8W	24W	39W	54W	80W	14W	15W	18W	25W	30W	36W	38W	58W	20W	18W	Mini Lynx
L 288	549	849	1149	1449	361	438	590	742	895	1200	1047	1500	590	178	120
D 16	16	16	16	16	26	26	26	26	26	26	26	26	38	38	37

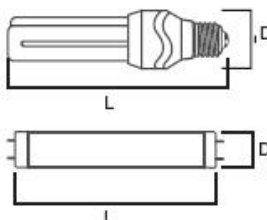
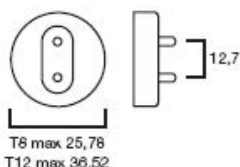
E27



G5



G13

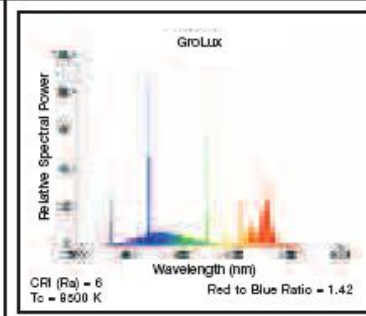


**FEATURES**

- 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

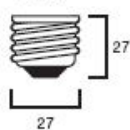


Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Retail Pack Quantity per 20	Item description	Watt	Colour	Cap
0000026	-	-	F8W/GRO T5	8	Gro-Lux	G5
0002740	-	-	FHO24W/GRO T5	24	Gro-Lux	G5
0002743	-	-	FHO39W/GRO T5	39	Gro-Lux	G5
0002746	-	-	FHO54W/GRO T5	54	Gro-Lux	G5
0002749	-	-	FHO80W/GRO T5	80	Gro-Lux	G5
0000043	0000707	-	F14W/GRO T8	14	Gro-Lux	G13
0000069	0000708	-	F15W/GRO T8	15	Gro-Lux	G13
0001523	0000709	-	F18W/GRO T8	18	Gro-Lux	G13
0001679	0000710	-	F25W/30"/GRO T8	25	Gro-Lux	G13
0000150	0000711	-	F30W/GRO T8	30	Gro-Lux	G13
0001524	0000712	-	F36W/GRO T8	36	Gro-Lux	G13
0002213	0000713	-	F38W/GRO T8	38	Gro-Lux	G13
0001525	0000714	-	F58W/GRO T8	58	Gro-Lux	G13
-	-	0026484	Mini-Lynx 18W/GRO	18	Gro-Lux	E27

Packaging Note: The sleeve pictured is for retail sales.

	8W	24W	39W	54W	80W	14W	15W	18W	25W	30W	36W	38W	58W	20W	18W	Mini Lynx
L	288	549	849	1149	1449	361	438	590	742	895	1200	1047	1500	590	178	120
D	16	16	16	16	26	26	26	26	26	26	26	26	26	38	38	37

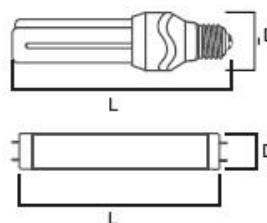
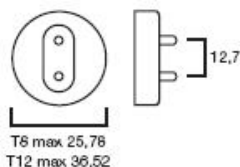
E27



G5



G13

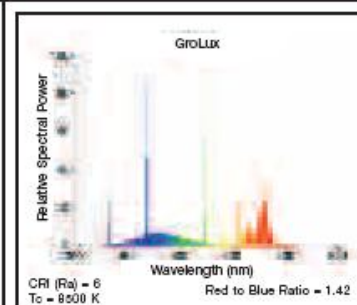


**FEATURES**

- 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



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Retail Pack Quantity per 20	Item description	Watt	Colour	Cap
0000026	-	-	F8W/GRO T5	8	Gro-Lux	G5
0002740	-	-	FHO24W/GRO T5	24	Gro-Lux	G5
0002743	-	-	FHO39W/GRO T5	39	Gro-Lux	G5
0002746	-	-	FHO54W/GRO T5	54	Gro-Lux	G5
0002749	-	-	FHO80W/GRO T5	80	Gro-Lux	G5
0000043	0000707	-	F14W/GRO T8	14	Gro-Lux	G13
0000069	0000708	-	F15W/GRO T8	15	Gro-Lux	G13
0001523	0000709	-	F18W/GRO T8	18	Gro-Lux	G13
0001679	0000710	-	F25W/30"/GRO T8	25	Gro-Lux	G13
0000150	0000711	-	F30W/GRO T8	30	Gro-Lux	G13
0001524	0000712	-	F36W/GRO T8	36	Gro-Lux	G13
0002213	0000713	-	F38W/GRO T8	38	Gro-Lux	G13
0001525	0000714	-	F58W/GRO T8	58	Gro-Lux	G13
-	-	0026484	Mini-Lynx 18W/GRO	18	Gro-Lux	E27

Packaging Note: The sleeve pictured is for retail sales.

# Aquastar

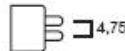


	24W	39W	54W	80W	14W	15W	18W	25W	30W	36W	38W	58W
L	549	849	1149	1449	361	438	590	742	895	1200	1047	1500
D	16	16	16	16	26	26	26	26	26	26	26	26

G5



15,75



4,75

G13



12,7

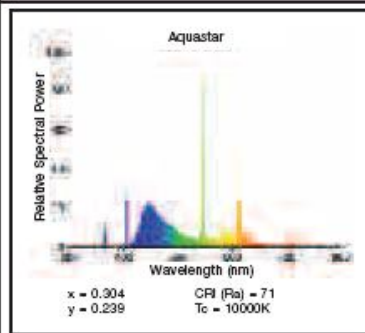
T8 max 25,78

T12 max 36,52



L

D



## 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

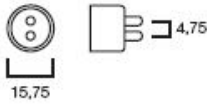


Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Watt	Colour Temp. K	Cap	Light-output lm
0002741	0002752	FHO24W/Aquastar T5	24	10000	G5	1120
0002744	0002753	FHO39W/Aquastar T5	39	10000	G5	1960
0002747	0002754	FHO54W/Aquastar T5	54	10000	G5	2800
0002750	-	FHO80W/Aquastar T5	80	10000	G5	3300
0002212	-	F14W/Aquastar T8	14	10000	G13	525
0002224	0000643	F15W/Aquastar T8	15	10000	G13	650
0002221	0000644	F18W/Aquastar T8	18	10000	G13	900
0002226	0000645	F25W/30"/Aquastar T8	25	10000	G13	1500
0002225	0000646	F30W/Aquastar T8	30	10000	G13	1700
0002222	0000647	F36W/Aquastar T8	36	10000	G13	2200
0002185	0000648	F38W/Aquastar T8	38	10000	G13	2100
0002223	0000649	F58W/Aquastar T8	58	10000	G13	3550

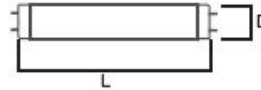
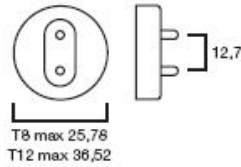
Packaging Note: The sleeve pictured is for retail sales.

	24W	39W	54W	80W	18W	25W	30W	36W	38W
L	549	849	1149	1449	590	742	895	1200	1047
D	16	16	16	16	26	26	26	26	26

G5



G13

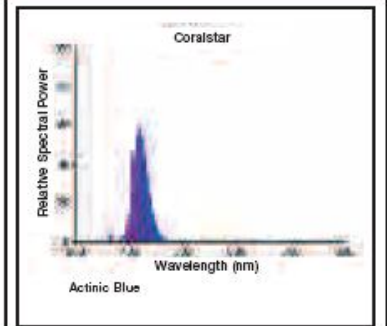


**FEATURES**

- 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



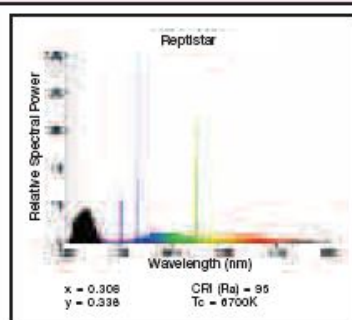
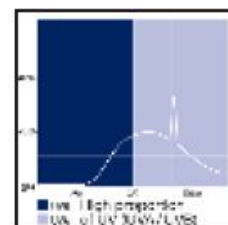
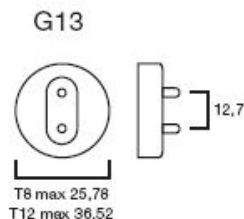
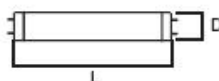
Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Watt	Colour	Cap
0002742	-	FHO24W/Coralstar T5	24	Coralstar	G5
0002745	0002755	FHO39W/Coralstar T5	39	Coralstar	G5
0002748	0002756	FHO54W/Coralstar T5	54	Coralstar	G5
0002751	-	FHO80W/Coralstar T5	80	Coralstar	G5
-	0000719	F18W/Coralstar T8	18	Actinic	G13
-	0000720	F25W/30"/Coralstar T8	25	Actinic	G13
-	0000725	F30W/Coralstar T8	30	Actinic	G13
-	0000726	F36W/Coralstar T8	36	Actinic	G13
-	0000721	F38W/Coralstar T8	38	Actinic	G13

Packaging Note: The sleeve pictured is for retail sales.

## Reptistar



	15W	18W	30W	36W
L	438	590	895	1200
D	26	26	26	26



## 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

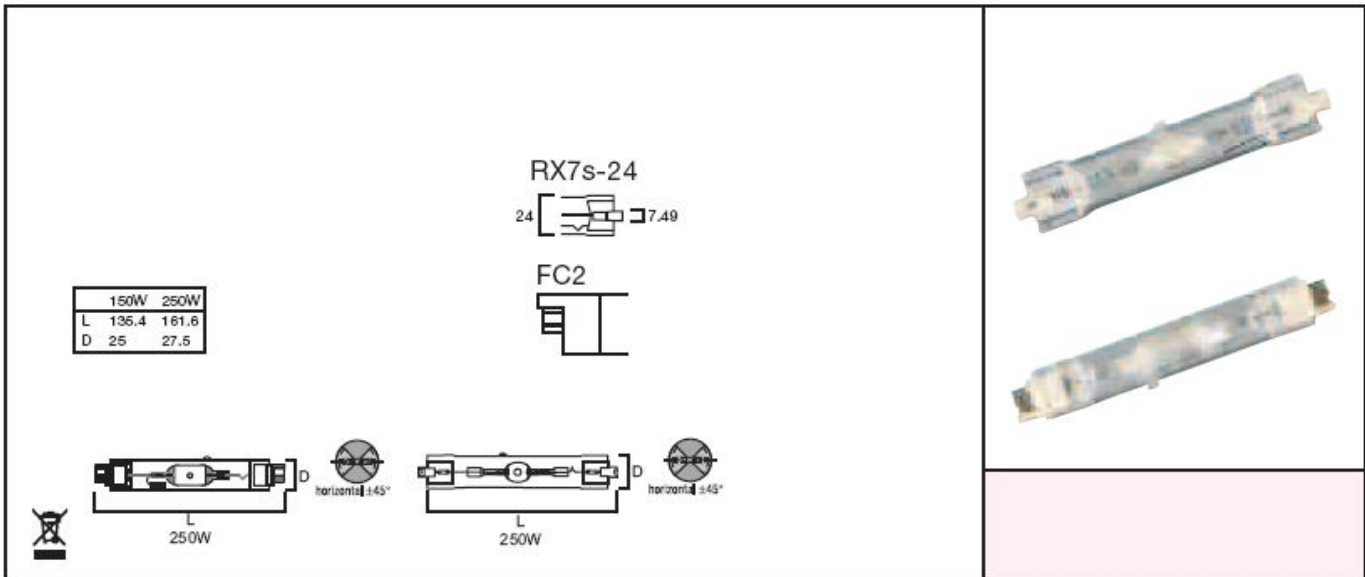
## APPLICATIONS

- For the artificial lighting of reptiles in terrariums



Ordering Code	Item description	Watt	Colour	Cap	Light output lm	Retail Pack Quantity
0000731	F15W/Reptistar T8	15	Reptistar	G13	300	10
0000732	F18W/Reptistar T8	18	Reptistar	G13	450	10
0000733	F30W/Reptistar T8	30	Reptistar	G13	700	10
0000734	F36W/Reptistar T8	36	Reptistar	G13	1000	10

Packaging Note: The sleeve pictured is for retail sales.

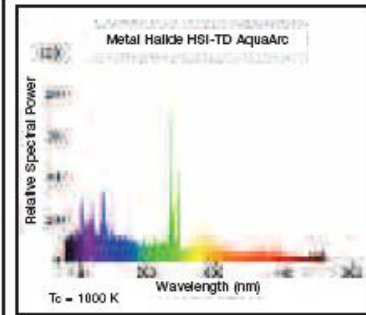


**FEATURES**

- 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



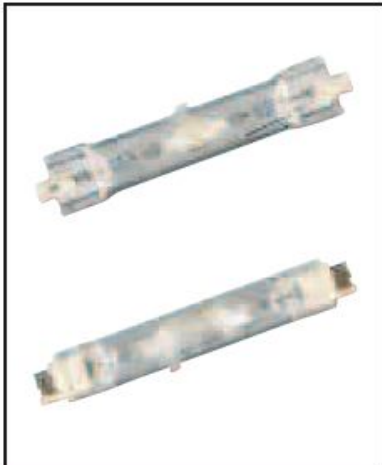
**DIRECTIONS FOR USE**

- 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

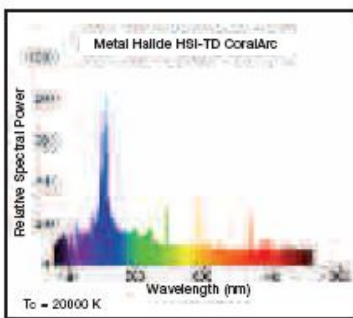
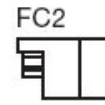
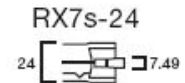


Code	Item description	Watt	Volt	Current	Cap	Bulb finish	Colour temp. K	Chromaticity Coordinates x	Chromaticity Coordinates y	Light output lm	Packing Quantity
0021049	HSI-TD 150W AquaArc	150	100	1.80	Rx7s	clear	10000	0.277	0.311	9000	10
0021050	HSI-TD 250W AquaArc	250	100	3.00	Fc2	clear	10000	0.275	0.323	14000	10

## CoralArc



	150W	250W
L	135.4	161.6
D	25.0	27.5



## FEATURES

- Very high colour temperature 20000 K (bluish light)
- Very high colour stability over the entire lamp life
- Enhanced colour rendition

## APPLICATIONS

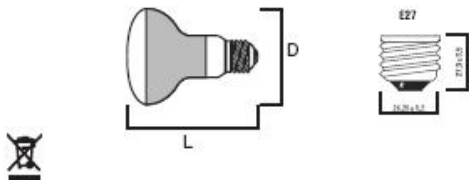

- For use in sea water aquaria
- Provides the specific spectrum (400-480 nm) necessary to achieve the blue chlorophyll absorption for zooxanthellae symbioses to develop

## 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

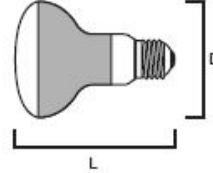
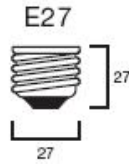


Code	Item description	Watt	Volt	Current	Cap	Bulb finish	Colour temp. K	Chromaticity Coordinates x	Chromaticity Coordinates y	Light output lm	Packing Quantity
0021028	HSI-TD 150W CoralArc	150	100	1.80	Rx7s	clear	blue	0.261	0.257	5400	10
0021029	HSI-TD 250W CoralArc	250	100	3.00	Fc2	clear	blue	0.257	0.243	8000	10

 <table border="1" data-bbox="774 537 981 604"> <tr> <td></td> <td>150W</td> <td>250W</td> <td>100W</td> </tr> <tr> <td>L</td> <td>181</td> <td>181</td> <td>130</td> </tr> <tr> <td>D</td> <td>125</td> <td>125</td> <td>95</td> </tr> </table>		150W	250W	100W	L	181	181	130	D	125	125	95	
	150W	250W	100W										
L	181	181	130										
D	125	125	95										
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>Converts electric current into infrared radiation</li> </ul> <p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>Provides the necessary infrared radiation for reptiles in terrariums and for other pets like hamsters, mice etc.</li> </ul>													

Code	Item description	Watt	Volt	Cap	Packing Quantity
0033002	Refl. 150W R125 Infrared	150	230	E27	10
0033003	Refl. 250W R125 Infrared	250	230	E27	10
0033004	Refl. 100W R95 Infrared	100	230	E27	15

## GroLux Incandescent Reflector Lamps

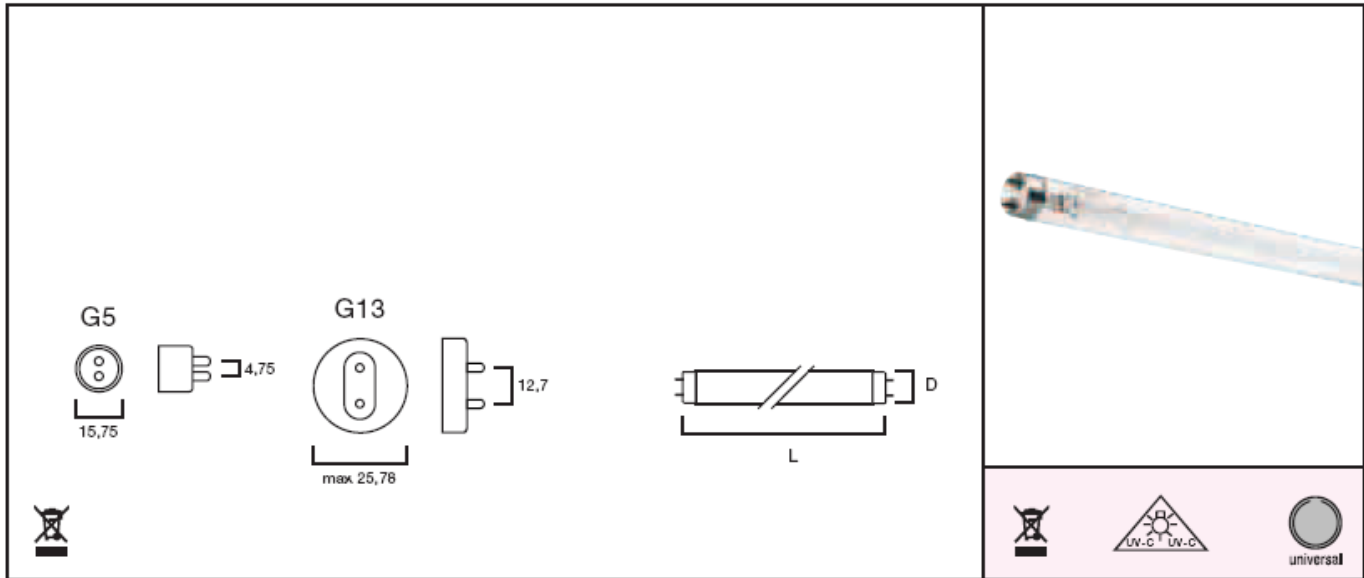


	R80	R95
L	110	133
D	80	95

- Blown glass reflector lamps
- Special coating to support photosynthesis
- To light plants in case of weak daylight (winter gardens)



Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
<b>Reflector GroLux R80 80mmØ</b>						
0015633	60W R80 GroLux	60W	240V	E27	GroLux	10
0015632	75W R80 GroLux	75W	240V	E27	GroLux	10
<b>Reflector GroLux R95 95mmØ</b>						
0015631	75W R95 GroLux	75W	240V	E27	GroLux	10

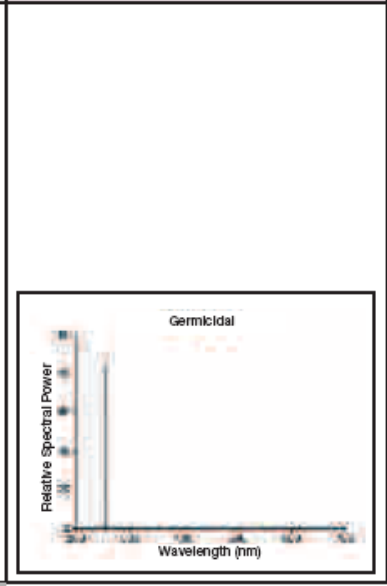


**FEATURES**

- Lamps radiate more than 85% of their energy in the UV-C spectrum at 253.7nm.
- Shape, electrical characteristics and lighting circuits are similar to general fluorescent lamps.
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°.
- All lamps are Ozone Free

**APPLICATIONS**

- Water purification
- Destruction of bacteria, viruses, mould spores and other micro-organisms.
- Sterilisation of air, gases, liquids and surfaces
- Typical application area's are hospitals, dairies, bakeries, breweries.
- Disinfection of drinking water, swimming pools, air conditioning systems
- Industrial graphic equipment.
- Fluorescent effects
- Mineral detection
- Erasing EEPROM memories

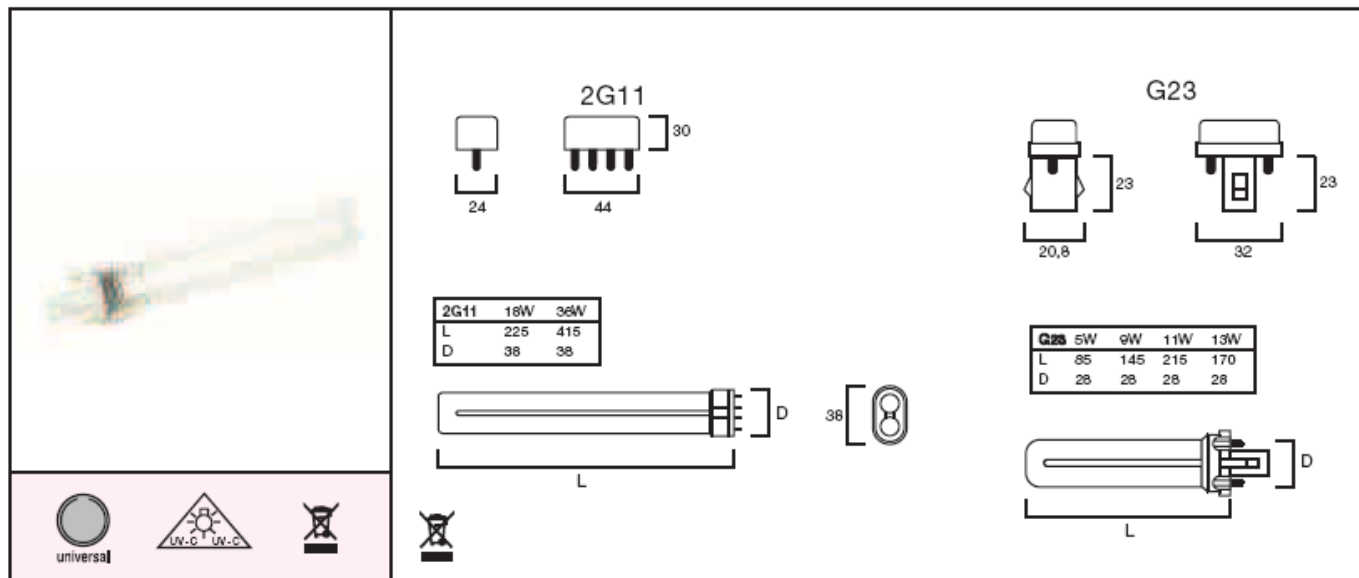


**DIRECTIONS FOR USE**

- The radiation from these lamps is very harmful to eyes and skin. Always protect your eyes and skin against radiation.
- Germicidal lamps must only be used in appropriate equipment and applications.
- When using UV-C emitting lamps, the official reference guides and the current industrial safety guideline must be followed.
- Maximum Permissible Exposure Time (MPET) can be established for a given range of wavelengths. For example: 1 minute/day at a distance of 30cm.
- Germicidal lamps emit UV-C radiation and must not be used for general lighting purposes.

Ordering Code	Item Description	Watt W	Lamp Voltage V	Lamp Current A	UV Radiation at 25° W	Cap	Dimensions L mm	D mm	Average Life hrs	Packing Quantity
0002328	G4 T5	4	29	0.170	0.8	G5	136	16	6000	50
0002216	G6 T5	6	42	0.160	1.7	G5	212	16	6000	50
0000501	G8T5	8	56	0.145	2.5	G5	288	16	6000	24
0002482	G10 T8	10	46	0.230	2.6	G13	330	26	6000	10
0000502	G15 T8	15	55	0.310	4.9	G13	437	26	8000	24
9000526	G25 T8	25	46	0.600	6.9	G13	436	26	8000	24
0000503	G30 T8	30	96	0.365	13.4	G13	894	26	8000	24
0000504	G36 T8	36	103	0.430	15.5	G13	1198	26	8000	20
0002208	G55 T8	55	83	0.770	18.0	G13	893	26	8000	96
0002217	G58 T8	58	110	0.670	20.0	G13	1500	26	5000	12
9002500	G20 T10	20	58	0.360	7.5	G13	590	34	8000	10
9002327	G40 T10	40	106	0.420	19.8	G13	1199	34	8000	10

# Germicidal Lamps Compact

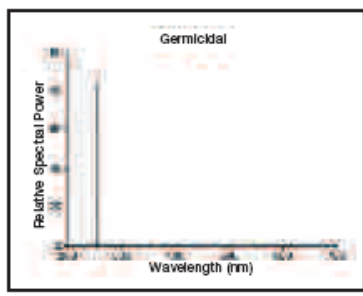


## FEATURES

- Lamps radiate more than 85% of their energy in the UV-C spectrum at 253.7nm.
- Shape, electrical characteristics and lighting circuits are similar to general fluorescent lamps.
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°.
- All lamps are Ozone Free

## APPLICATIONS

- Water purification
- Destruction of bacteria, viruses, mould spores and other micro-organisms.
- Sterilisation of air, gases, liquids and surfaces
- Typical application area's are hospitals, dairies, bakeries, breweries.
- Disinfection of drinking water, air conditioning systems
- Industrial graphic equipment.
- Fluorescent effects
- Mineral detection
- Erasing EEPROM memories




## DIRECTIONS FOR USE

- The radiation from these lamps is very harmful to eyes and skin. Always protect your eyes and skin against radiation.
- Germicidal lamps must only be used in appropriate equipment and applications.
- When using UV-C emitting lamps, the official reference guides and the current industrial safety guideline must be followed.
- Maximum Permissible Exposure Time (MPET) can be established for a given range of wavelengths. For example: 1 minute/day at a distance of 30cm.
- Germicidal lamps emit UV-C radiation and must not be used for general lighting purposes.


Ordering Code	Item Description	Watt W	Lamp Voltage V	Lamp Current A	UV Radiation at 25° W	Cap	Dimensions		Average Life hrs	Packing Quantity
							L mm	D mm		
0025046	G5 Lynx-S	5	35	0.180	1.0	G23	85	28	8000	10
0025050	G9 Lynx-S	9	59	0.170	2.4	G23	145	28	8000	10
0025051	G11 Lynx-S	11	89	0.160	3.6	G23	215	28	8000	10
0025047	G13 Lynx-S	13	59	0.285	3.4	GX23	170	28	8000	10
0025049	G18 L	18	58	0.375	5.5	2G11	225	38	8000	25
0025048	G36 L	36	106	0.435	12.0	2G11	415	38	8000	25

**G5**



15,75

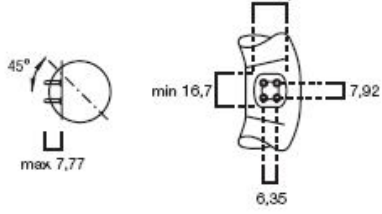
**G13**



12,7

T8 max 25,78  
T12 max 36,52

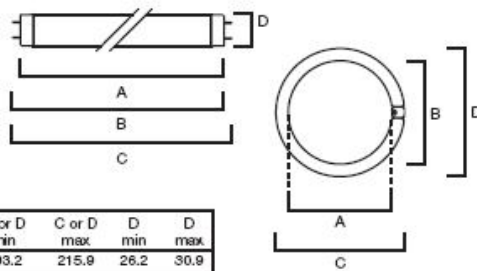
**G10q**





min 15,9  
min 16,7  
7,92  
6,35

45°  
max 7,77

	A max	B min	B max	C max	D nom
4W	135.9	140.8	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
11W	212.1	216.8	219.2	226.3	16
15WT5	288.3	293.0	295.4	302.5	16
15WT8	437.4	442.1	444.5	451.6	26
20W 24"	589.8	594.5	596.9	604.0	38
40W/2ft 24"	589.8	594.5	596.9	604.0	38
40W 48"	1199.4	1204.1	1206.5	1213.6	38



	A min	A max	B min	B max	C or D min	C or D max	D min	D max
22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9

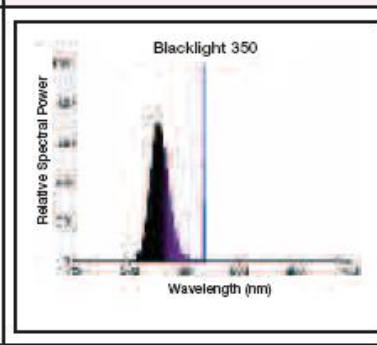


- ### FEATURES

  - Lamps emit UV-radiation between 315nm and 400nm with a peak at 352nm.
  - The 352nm wave length attracts insects, mainly flies and mosquitoes.
  - Equivalent to other fluorescent lamps for all electrical and physical characteristics

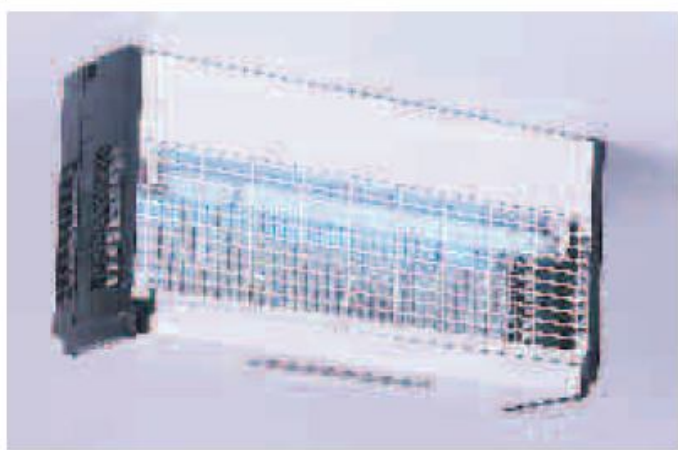
### APPLICATIONS

  - Insect traps
  - Diazo printing machines
  - Photo Polymerisation
  - Chemical processing
  - Mineral detection
  - Various technical applications



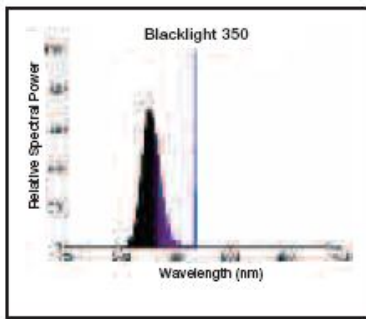
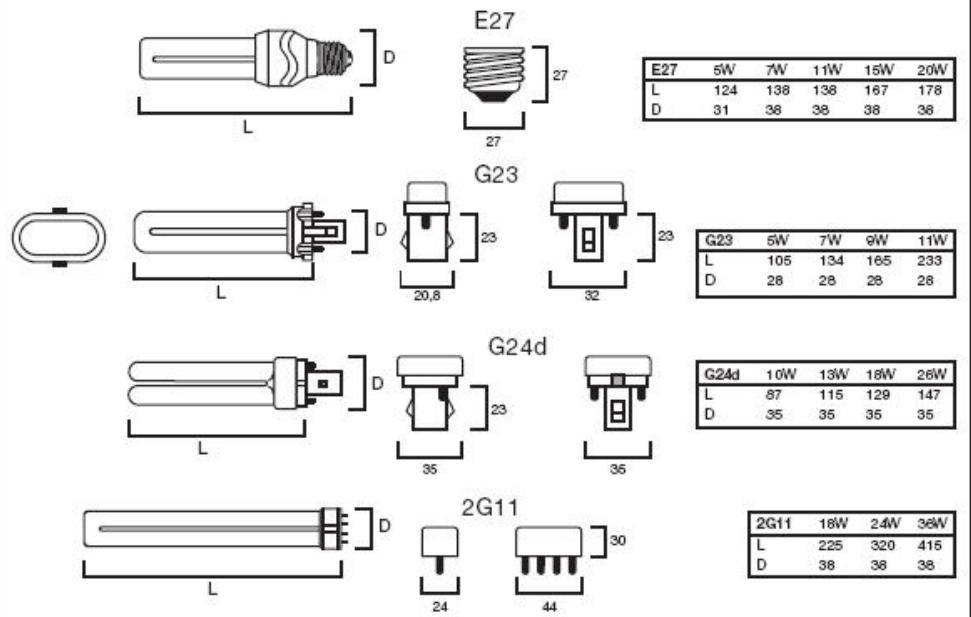
### DIRECTIONS FOR USE

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m<sup>2</sup>) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL-lamp measured without reflector, in free air at 25 Celsius, is very approximately 0,2 mW/m<sup>2</sup> or about one-fifth of the limit.



Ordering Code	Item description	Watt	Volt	Current	Lamp Colour	Cap	Dimensions (mm) L	D	Packing Quantity
9000007	F4 T5 BL350	4	29	0,170	BL350	G5	136	16	50
0000017	F6 T5 BL350	6	42	0,160	BL350	G5	212	16	25
0000023	F8 T5 BL350	8	56	0,145	BL350	G5	288	16	25
0000384	F11 T5 BL350	11	34	0,350	BL350	G5	212	16	25
0000045	F15 T5 BL350	15	44	0,310	BL350	G5	288	16	200
0000076	F15 T8 BL350	15	55	0,310	BL350	G13	437	26	25
9022918	F15 T12 BL350 500PH 15"	22	57	0,500	BL350	G13	360	38	30
0000359	F20 T12 BL350 24"	20	57	0,370	BL350	G13	590	38	25
0001635	F40 T12 BL350 24"	40	47	0,880	BL350	G13	590	38	25
0000185	F40 T12 BL350 48"	40	103	0,430	BL350	G13	1200	38	25
0000489	FC22 BL350	22	62	0,400	BL350	G10q	216	29	12

# Blacklight BL350 Compact



## FEATURES

- Lamps emit UV-radiation between 315nm and 400nm with a peak at 352nm.
- The 352nm wave length attracts insects, mainly flies and mosquitoes.
- Equivalent to other fluorescent lamps for all electrical and physical characteristics

## APPLICATIONS

- Insect traps
- Diazo printing machines
- Photo Polymerisation
- Chemical processing
- Mineral detection
- Various technical applications

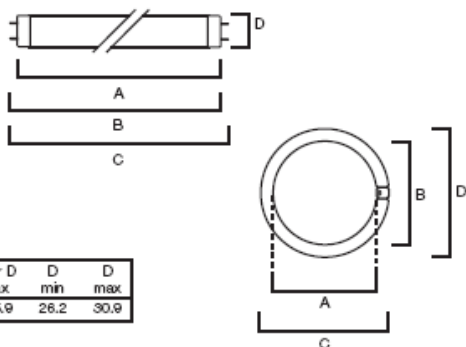
## DIRECTIONS FOR USE

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m<sup>2</sup>) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL-lamp measured without reflector, in free air at 25 Celsius, is very approximately 0,2 mW/m<sup>2</sup> or about one-fifth of the limit.



Code	Item description	Watt W	Volt V	Current A	Lamp Colour	Cap	Length mm	Packing Quantity
0028318	Mini-Lynx 20W BL350 Longlife	20	230	0,160	BL350	E27	178	20
0025275	LYNX-S BL355 9W	9	60	0,170	BL355	G23	165	50
0025276	LYNX-S BL350 9W	9	60	0,170	BL350	G23	165	50
0025277	LYNX-S BL350 11W	11	91	0,155	BL350	G23	233	50
0025454	LYNX-D BL350 26W	26	105	0,325	BL350	G24d-3	147	50
0025239	LYNX-L BL350 18W	18	58	0,375	BL350	2G11	225	10
0025247	LYNX-L BL350 36W	36	106	0,435	BL350	2G11	415	10

	A max	B min	B max	C max	D nom
15WT8	437.4	442.1	444.5	451.6	26
20W	589.8	594.5	596.9	604.0	26
40W/2ft	589.8	594.5	596.9	604.0	26



	A min	A max	B min	B max	C or D min	C or D max	D min	D max
22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9



### FEATURES

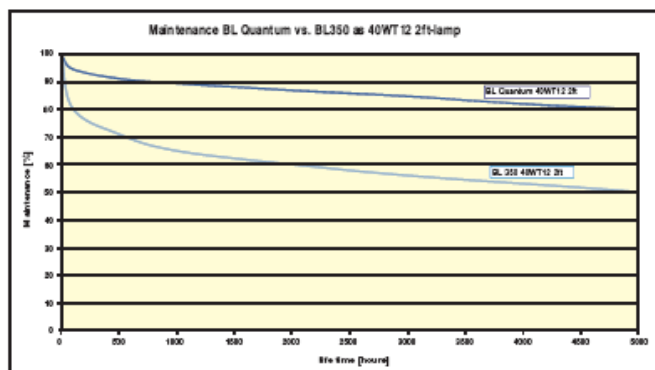
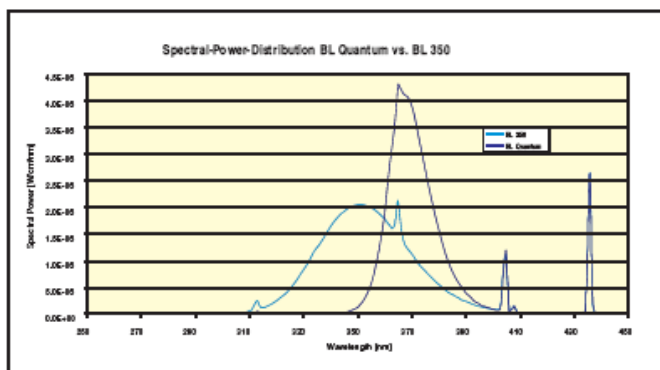
- These Quantum tubes emit an upgraded highly concentrated radiation with peak around 365 nm. Flying insect's eye sensitivity is generally at or near this frequency.
- 100% improvement in effectiveness (at 365nm)
- Depreciation of UV-A output over time is significantly reduced (70% at 5000hrs of original 100 hour output)
- Performs longer and better throughout the insect season
- Same shape, structural and electrical characteristics and control circuits as standard T12, T8 or T5 tubes.

### APPLICATIONS

- Insect traps, insect attraction is strongly increased
- Restaurants, kitchens, food shops, supermarkets
- Diazo printing machines
- Photo Polymerisation
- Chemical processing
- Mineral detection
- Various technical applications


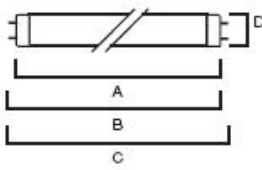
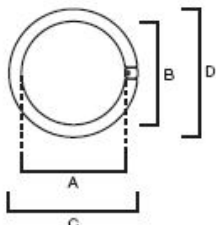

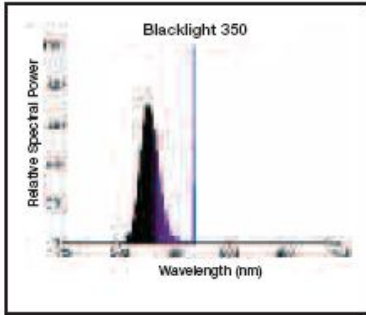
### DIRECTION FOR USE

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m<sup>2</sup>) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL-lamp measured without reflector, in free air at 25 Celsius, is very approximately 0,2 mW/m<sup>2</sup> or about one-fifth of the limit.

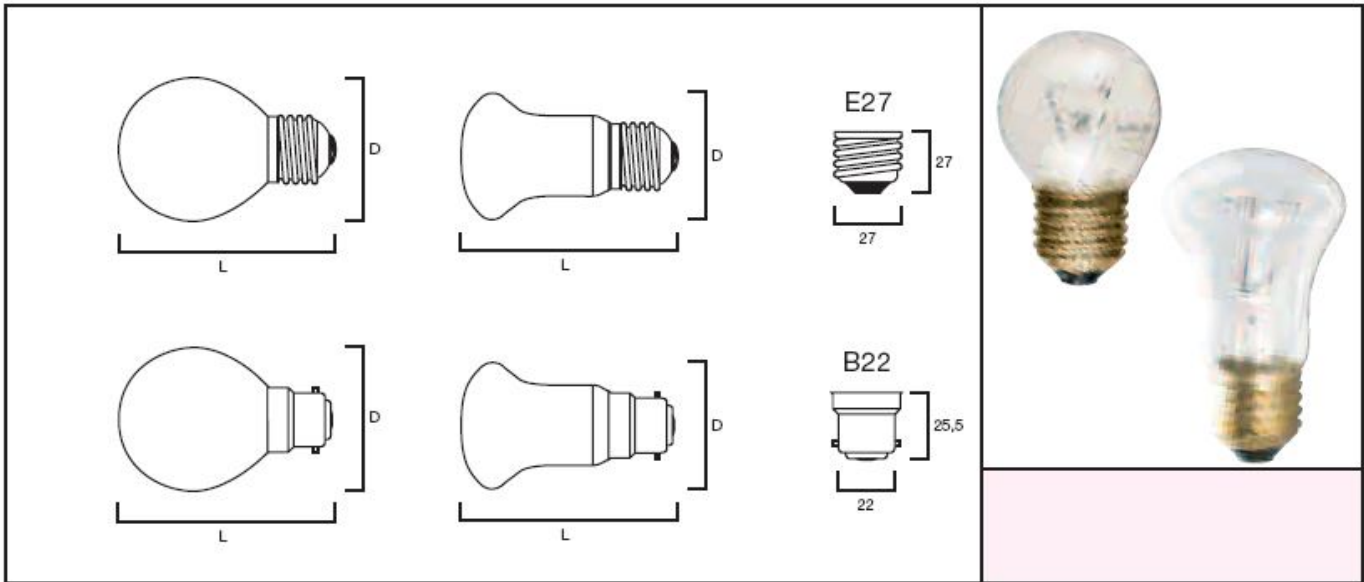


Ordering Code	Item description	Watt W	Volt V	Current A	Lamp Colour	Cap	Cap to Cap Lamp Length mm	Packing Quantity
0000082	F15 T8 BL Quantum	15	55	0,310	Quantum-365nm	G13	437	25
0000361	F20 T12 BL Quantum	20	57	0,370	Quantum-365nm	G13	590	25
0001638	F40 T12 BL Quantum	40	47	0,880	Quantum-365nm	G13	590	25
0000456	FC22 T12 BL Quantum	22	62	0.400	Quantum-365nm	G10q	216	12

# Blacklight FEP Shatter Resistant

	<table border="1"> <thead> <tr> <th></th> <th>A max</th> <th>B min</th> <th>B max</th> <th>C max</th> <th>D nom</th> </tr> </thead> <tbody> <tr> <td>8W</td> <td>288.3</td> <td>293.0</td> <td>295.4</td> <td>302.5</td> <td>16</td> </tr> <tr> <td>15WT8</td> <td>437.4</td> <td>442.1</td> <td>444.5</td> <td>451.6</td> <td>28</td> </tr> <tr> <td>20W</td> <td>589.8</td> <td>594.5</td> <td>596.9</td> <td>604.0</td> <td>28</td> </tr> <tr> <td>40W/2ft</td> <td>589.8</td> <td>594.5</td> <td>596.9</td> <td>604.0</td> <td>28</td> </tr> <tr> <td>40W</td> <td>1199.4</td> <td>1204.1</td> <td>1206.5</td> <td>1213.6</td> <td>28</td> </tr> </tbody> </table>		A max	B min	B max	C max	D nom	8W	288.3	293.0	295.4	302.5	16	15WT8	437.4	442.1	444.5	451.6	28	20W	589.8	594.5	596.9	604.0	28	40W/2ft	589.8	594.5	596.9	604.0	28	40W	1199.4	1204.1	1206.5	1213.6	28	
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	<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>100% fragment retention in the event of breakage.</li> <li>The protective coating meets the IEC60068-2-75 Pendulum Hammer Impact (5Joule) test and the 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage.</li> <li>Protected lamps are coated with Teflon FEP fluo polymer coating</li> <li>The 99% UVA transmission provides a maximum attraction for insects</li> <li>No discolouration or yellowing of shatter resistant coating during the entire lamp life.</li> <li>Coating operates up to 200° C in both open and enclosed IP65 fittings</li> <li>Shatter resistant lamps pass all resistance to heat &amp; fire regulations and do not support combustion when exposed to naked flame or excessive heat.</li> <li>Satisfy the requirements of the International Food Standard (IFS 2004)</li> <li>Satisfy the requirements of the BRC global standard.</li> <li>Recyclable</li> </ul>	<p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>Insect attraction</li> <li>Restaurants, kitchens, food shops, supermarkets</li> <li>Food processing plants</li> <li>Pharmaceutical industry</li> </ul>																																				
																																						

Code	Item description	Watt W	Volt V	Current A	Lamp Colour	Cap	Cap to Cap Lamp Length mm	Packing Quantity
<b>Blacklight BL350 - FEP Shatter Resistant</b>								
0000044	F8W T5 BL350 Shatter Resistant	8	56	0,145	BL350	G5	288	25
0000133	F15W T8 BL350 Shatter Resistant	15	55	0,310	BL350	G13	437	25
0000127	F20W T12 BL350 Shatter Resistant	20	57	0,370	BL350	G13	590	25
0000128	F40W T12 2ft BL350 Shatter Resistant	40	47	0,880	BL350	G13	590	25
0000121	F40W T12 4ft BL350 Shatter Resistant	40	103	0,430	BL350	G13	1199	25
0000132	FC22W BL350 Shatter Resistant	22	62	0,400	BL350	G10q	216	12
<b>Blacklight Quantum - FEP Shatter Resistant</b>								
0000124	F15W T8 BL Quantum Shatter Resistant	15	55	0,310	Quantum-365nm	G13	437	25
0000125	F20W T12 BL Quantum Shatter Resistant	20	57	0,370	Quantum-365nm	G13	590	25
0000126	F40W T12 2ft BL Quantum Shatter Resistant	40	47	0,880	Quantum-365nm	G13	590	25



**FEATURES**

- Round (45mm) or mushroom shaped (50mm - 60mm) envelope.
- Robust construction: the filament is held by extra supports to resist vibration
- Average rated life: 8000 hours
- Krypton filled lamps for increased light output
- Available in E27 and B22 base

**APPLICATIONS**

- Traffic lights and signs
- Private parkings
- Tramway traffic lights
- Industrial sites

Code	L	D
Traffic Signal Incandescent - Ball		
E27	71	45
B22	70	45
Traffic Signal Incandescent - Mushroom		
50W	86	50
60W	86	50
70W	86	50
100W	95	60




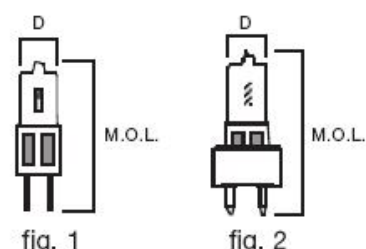

**TRAFFIC SIGNAL INCANDESCENT - BALL**

Ordering Code	Item description	Finish	Gas Fill	Watt	Voltage	Cap	Avg. Life (h)	Rated Lumens	Packing Quantity
0009873	25W 230V E27	Clear	Krypton	25	230	E27	8000	150	100
0009869	25W 230V B22	Clear	Krypton	25	230	B22	8000	150	100
0009893	40W 230V E27	Clear	Krypton	40	230	E27	8000	320	100
0009891	40W 130V E27	Clear	Krypton	40	130	E27	8000	390	100
0009894	40W 230V B22	Clear	Krypton	40	230	B22	8000	320	100
0009895	40W 260V E27	Clear	Krypton	40	260	E27	8000	260	100

**TRAFFIC SIGNAL INCANDESCENT - MUSHROOM**

Ordering Code	Item description	Finish	Gas Fill	Watt	Voltage	Cap	Avg. Life (h)	Rated Lumens	Packing Quantity
0009718	55W 230V E27	Clear	Krypton	55	230	E27	8000	465	100
0009716	55W 130V E27	Clear	Krypton	55	130	E27	8000	545	100
0009719	55W 230V B22	Clear	Krypton	55	230	B22	8000	465	100
0009721	60W 230V B22	Clear	Krypton	60	235	B22	8000	510	100
0009753	70W 230V E27	Clear	Krypton	70	230	E27	8000	645	100
0009752	70W 130V E27	Clear	Krypton	70	130	E27	8000	755	100
0009749	70W 230V B22	Clear	Krypton	70	230	B22	8000	645	100
0009754	100W 230V E27	Clear	Krypton	100	230	E27	8000	1030	100
0009763	100W 230V B22	Clear	Krypton	100	230	B22	8000	1030	100

## Airfield Capsule Lamps

		<table border="1"> <thead> <tr> <th>Code</th> <th>M.O.L.</th> <th>D</th> </tr> </thead> <tbody> <tr><td>0021479</td><td>45.0</td><td>11.0</td></tr> <tr><td>0022213</td><td>45.0</td><td>11.0</td></tr> <tr><td>0021480</td><td>45.0</td><td>11.0</td></tr> <tr><td>0022214</td><td>45.0</td><td>11.0</td></tr> <tr><td>0022215</td><td>45.0</td><td>11.0</td></tr> <tr><td>0022212</td><td>47.0</td><td>13.5</td></tr> <tr><td>0021491</td><td>47.0</td><td>13.5</td></tr> <tr><td>0022211</td><td>47.0</td><td>13.5</td></tr> <tr><td>0021492</td><td>47.0</td><td>13.5</td></tr> <tr><td>0021757</td><td>44.0</td><td>11.4</td></tr> <tr><td>0021686</td><td>44.0</td><td>11.4</td></tr> <tr><td>0024529</td><td>57.0</td><td>13.5</td></tr> <tr><td>0021683</td><td>57.0</td><td>13.5</td></tr> <tr><td>0021696</td><td>57.0</td><td>13.5</td></tr> <tr><td>0024531</td><td>57.0</td><td>13.5</td></tr> <tr><td>0024530</td><td>57.0</td><td>13.5</td></tr> </tbody> </table>	Code	M.O.L.	D	0021479	45.0	11.0	0022213	45.0	11.0	0021480	45.0	11.0	0022214	45.0	11.0	0022215	45.0	11.0	0022212	47.0	13.5	0021491	47.0	13.5	0022211	47.0	13.5	0021492	47.0	13.5	0021757	44.0	11.4	0021686	44.0	11.4	0024529	57.0	13.5	0021683	57.0	13.5	0021696	57.0	13.5	0024531	57.0	13.5	0024530	57.0	13.5
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	<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Current controlled (6,0A, 6,6A &amp; 8,33A) lamps</li> <li>● Long reliable through life performance</li> <li>● Complete interchangeability for existing capsule types.</li> <li>● Constant colour temperature</li> <li>● Dimming possible</li> <li>● Infra red radiation output allowing operation in toughest winter conditions</li> </ul>	<p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>● Approach lights</li> <li>● Runway edge lights</li> <li>● Threshold lights</li> <li>● Runway lights</li> <li>● Taxiway lights</li> <li>● Visual approach slope indicator systems</li> </ul>																																																			

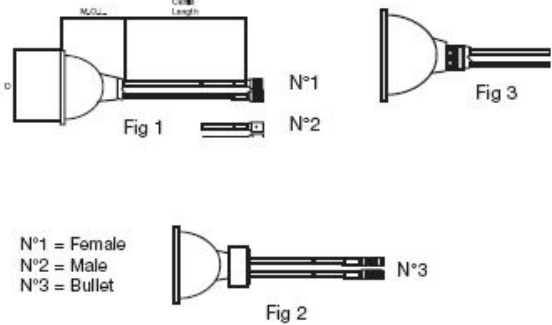
**DIRECTIONS FOR USE**

- Bulb should never be touched with bare fingers



Code	Item description	Watt	Current A	Cap	Light Output (lm)	Rated Average life (h)	Burning position	Fig. #	Packing quantity
0021479	L2516 30W 6.6A J1/74	30	6.6	G6.35	400	1500	BD+/-90°	1	50
0022213	L2510 36W 6.0A J1/59	36	6.0	G6.35	610	1200	BD+/-90°	1	50
0021480	L2517 36W 6.6A J1/75	36	6.6	G6.35	610	1500	BD+/-90°	1	50
0022214	L2511 45W 6.6A J1/57	45	6.6	G6.35	960	1200	BD+/-90°	1	50
0022215	L2512 65W 6.6A	65	6.6	G6.35	1450	1200	BD+/-90°	1	50
0022212	L2513 100W 6.6A J1/58	100	6.6	G6.35	2300	1200	BD+/-90°	1	50
0021491	L2518 100W 8.33A J1/66	100	8.33	G6.35	2300	1200	BD+/-90°	1	50
0022211	L2514 200W 6.6A J1/39	200	6.6	G6.35	4700	1200	BD+/-90°	1	50
0021492	L2519 200W 8.33A J1/65	200	8.33	G6.35	4700	1200	BD+/-90°	1	50
0021757	L2500 30W 6.6A EXL	30	6.6	GZ9.5	400	1000	BD+/-90°	2	50
0021686	L2501 45W 6.6A EXM	45	6.6	GZ9.5	960	1000	BD+/-90°	2	50
0024529	L2502 150W 6.6A EWR/1	150	6.6	GZ9.5	3600	1000	BD+/-90°	2	50
0021683	L2503 175W 6.6A	175	6.6	GZ9.5	4700	1000	BD+/-90°	2	50
0021696	L2504 200W 6.6A EZL	200	6.6	GZ9.5	5000	1000	BD+/-90°	2	50
0024531	L2505 115W 6.6A EVV	115	6.6	GZ9.5	2700	1000	BD+/-90°	2	50
0024530	L2502 150W 6.6A EWR/2	150	6.6	GZ9.5	4400	1000	BD+/-90°	2	50

Code	Cable Length	M.O.L	D
0021484	100	45.6	50.6
0021483	100	45.6	50.6
0021494	110	45.6	50.6
7024522	122	45.6	50.6
7221518	135	45.6	50.6
0021496	110	45.6	50.6
0021497	100	45.6	50.6
0021489	100	45.6	50.6
0021487	110	45.6	50.6
0021488	100	45.6	50.6
7024526	122	50.0	50.6
0021498	110	50.0	50.6
0021499	100	50.0	50.6



L2372



**FEATURES**

- Current controlled (6,0A, 6,6A) lamps
- Temperature resistant hard coated reflector
- Optimum adjustment in the reflector
- High luminaire efficiency
- Constant colour temperature (3000K) over life
- Long life (1500hrs)
- Infra red radiation output allowing operation in toughest winter conditions
- Cable connections reduce the risk of pinch seal overheating and molybdenum foil oxidation

**APPLICATIONS**

- Runway lights
- Taxiway lights
- Approach lights
- Threshold lights
- Runway edge lights
- Visual approach slope indicator systems
- Taxiway guidance signs

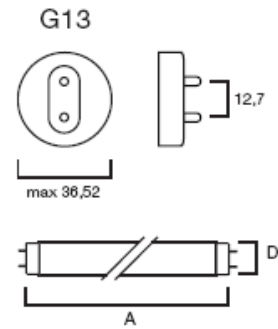
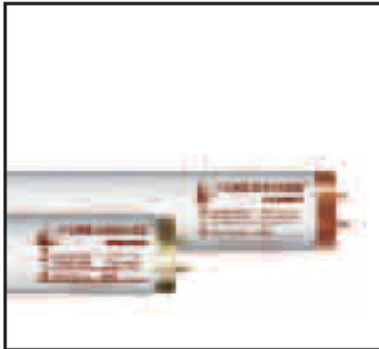
**DIRECTIONS FOR USE**

- Bulb should never be touched with bare fingers



Code	Item description	Watt W	Current A	Con-nector	Con-nector type	Average Life (h)	Peak intensity (cd)	Beam Angle 50% (°)	Fig. #	Packing quantity
0021484	L2372 36W 6A MR16	36	6.0	2	Male	1500	24000	5	1	10
0021483	L2373 30W 6.6A MR16	30	6.6	2	Male	1500	19000	6	1	10
0021494	L2378 36W 6.6A MR16	36	6.6	1	Female	1500	19000	6	2	10
7024522	L2352 45W 6.6A MR 16	45	6.6	3	Bullet	1500	22000	7	2	10
7221518	L2354 48W 6.6A MR16	48	6.6	1+2	Fem/Male	1000	30000	6	1	10
0021496	L2358 48W 6.6A MR16	48	6.6	1	Female	1500	22000	7	1	10
0021497	L2359 48W 6.6A MR16	48	6.6	2	Male	1500	22000	7	1	10
0021489	L2371 48W 6.6A MR16	48	6.6	1	Female	1500	11000	13	1	10
0021487	L2374 60W 6.6A MR16	60	6.6	1	Female	1500	26000	7.5	1	10
0021488	L2375 60W 6.6A MR16	60	6.6	1	Female	1500	11000	15	1	10
7024526	L2362 105W 6.6A MR16	105	6.6	3	Bullet	1000	33000	10	3	10
0021498	L2368 105W 6.6A MR16	105	6.6	1	Female	1000	33000	10	3	10
0021499	L2369 105W 6.6A MR16	105	6.6	2	Male	1000	33000	10	3	10

## Suntanning Fluorescent Lamps

**FEATURES**

- Provides the necessary UV-radiation for direct and long term pigmentation.
- All R-types are fitted with an internal reflector.
- Long Life

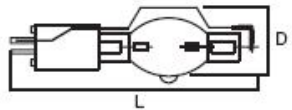
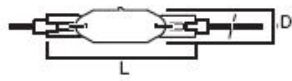
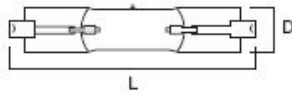
**APPLICATIONS**

- For powerful and soft tanning.
- Domestic recreational tanning.
- Domestic cosmetic tanning.
- Skin preparation before holidays.
- Wellness centers.

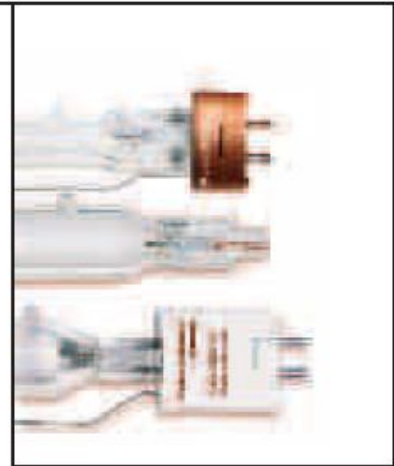
**DIRECTIONS FOR USE**

- Always consider the type of equipment and your individual skin type when using Sylvania tanning tubes.

Code	Description	Wattage (W)	Life time*** (hrs.)	Length A (cm)	Typical irradiance* (mW/cm <sup>2</sup> )	UV-B percentage (%)	UV-A flux (W)	Sun erythema factor (fse)	Tanning time Skin type 3** (min.)
<b>G13 Bi-Pin</b>									
<b>Open and closed Glass without reflector</b>									
0001160	PureBronze PBC 80W 0,7	80	600	150	17	0,8	21	0,05	24
0001161	PureBronze PBC 80W 1,3	80	600	150	17	1,2	21	0,07	20
0001162	PureBronze PBO 80W 2,0	80	600	150	17	2,0	20	0,11	12
0001180	PureBronze PBC 100W 0,7	100	600	176	17	0,8	27	0,05	24
0001181	PureBronze PBC 100W 1,3	100	600	176	17	1,2	27	0,07	20
0001182	PureBronze PBO 100W 2,0	100	600	176	17	2,0	26	0,11	12
0001189	PureBronze PBO 160W 1,0	160	600	176	21	1,0	31	0,09	16
0001190	PureBronze PBO 160W 1,3	160	600	176	21	1,5	30	0,11	12
0001191	PureBronze PBO 160W 2,0	160	600	176	21	2,3	30	0,16	10
<b>Closed Glass with reflector</b>									
0001163	PureBronze PBC 80W 0,7 R	80	600	150	18	0,7	20	0,07	24
0001169	PureBronze PBC 100W 0,7 R	100	600	176	18	0,7	27	0,07	24
0001170	PureBronze PBC 100W 1,0 R	100	600	176	18	1,0	27	0,08	21
0001171	PureBronze PBC 100W 1,6 R	100	600	176	18	1,6	26	0,12	15
0001172	PureBronze PBC 100W 2,3 R	100	600	176	18	2,3	25	0,17	11
0001214	PureBronze PBC 160W 1,0 R	160	600	176	21	1,0	33	0,10	17
0001215	PureBronze PBC 160W 1,6 R	160	600	176	21	1,6	31	0,14	13
0001216	PureBronze PBC 160W 2,3 R	160	600	176	21	2,3	30	0,21	10
<b>Open Glass with reflector</b>									
0001166	PureBronze PBO 80W 1,0 R	80	600	150	19	1,0	23	0,11	18
0001200	PureBronze PBO 100W 0,7 R	100	600	176	20	0,7	30	0,08	20
0001201	PureBronze PBO 100W 1,0 R	100	600	176	20	1,0	30	0,11	18
0001202	PureBronze PBO 100W 1,3 R	100	600	176	19	1,3	30	0,13	15
0001279	PureBronze PBO 100W R NormMax	100	600	176	18	0,7	27	0,07	24
0001280	PureBronze PBO 100W R NormMax+	100	600	176	18	1,0	27	0,08	21
0001263	PureBronze PBO 100W R A-Max	100	1200	176	21	0,97	33	0,15	11
0001210	PureBronze PBO 140W 1,0 R	140	600	150	23	1,0	30	0,21	11
0001235	PureBronze PBO 140W R NormMax+	140	600	150	23	0,95	30	0,16	14
0001281	PureBronze PBO 160W R NormMax	160	600	176	21	0,80	35	0,13	17
0001234	PureBronze PBO 160W R NormMax+	160	600	176	23	0,95	37	0,16	14
0001218	PureBronze PBO 160W 1,0 R	160	600	176	23	1,0	37	0,20	12
<b>PurePower 200W 2,0m LongMount</b>									
0001282	PurePower PPB 200W R NormMax Xtra LL 2M	180 - 200	1000	200	25	0,25	49	0,07	27
0001274	PurePower PPB 200W R NormMax LL 2M	180 - 200	1000	200	28	0,35	51	0,08	23
0001276	PurePower PPB 200W R A-Max LL 2M	180 - 200	1000	200	28	0,63	51	0,11	17



	250	400	500	1000	2000
<b>Single Ended</b>					
L	71	103	107	129	
D	14	14	17	25	
<b>Single Ended Long Life</b>					
L	103	107	129		
D	14	17	25		
<b>C (Cable)</b>					
L	116	114	139	174	
D	14	17	25,5	27	
<b>S (R7s) Base</b>					
L	106	106			
D	14	17			
<b>S (R7s) Long Life</b>					
L	106				
D	14				



### FEATURES

- Provides the necessary UV-radiation for direct and long term pigmentation.
- Short irradiation and exposure times.
- Ozone free (except PBF types)
- High radiation intensity in special spectral ranges.
- Built according to DIN-EN-ISO 9001

### APPLICATIONS

- Domestic cosmetic facial tanning.
- Professional facial, half body and full body units.
- Short intense tanning sessions.

### DIRECTIONS FOR USE

- Only use in tanning devices with appropriate filter.
- Burning position : horizontal + 10° DE-Types, Universal SE Types
- Do not touch the quartz envelope with bare fingers.
- Pinch temperature : max 350 °C
- Bulb temperature : min 750 °C max 950 °C



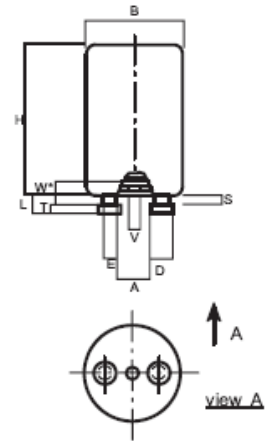
Code	Description	Wattage (W)	Base/Cap	Life time* (hrs.)	Maximum diameter (mm)	Maximum length (mm)
0024250	PureBronze PBF 250W SE	250	GY9,5	600	14,0	71
0024200	PureBronze PBO 400W S	250 - 500	R7s	600	14,0	106,0
0024201	PureBronze PBO 400W SL	250 - 500	R7s Long	600	14,0	117,9
0024202	PureBronze PBO 400W C	250 - 500	Cable	600	14,0	116,0
0024203	PureBronze PBO 400W SE	250 - 500	GY9,5	600	14,0	103,0
0024220	PureBronze PBO 1000W C 230V	1000	Cable	600	25,5	139,0
0024221	PureBronze PBO 1000W C 400V	1000	Cable	600	25,5	139,0
0024222	PureBronze PBO 1000W SE	700 - 1000	GQ9,5	600	25,0	129,0
0024230	PureBronze PBO 2000W C 400V	2000	Cable	600	27,0	174,0

\* Life to 70 % UV-A maintenance

## Suntanning Starters



Dimension	Min.	Max.
A	12,5	12,9
B	-	21,5
D	4,7	5,0
E	2,8	3,2
H	33,0	36,0
L	-	4,3
S	1,7	-
T	1,9	2,2
V	2,7	-
W*	4,2	-



universal



## FEATURES

- Will perfectly start the PureBronze fluorescent lamps.
- The high performance types (PBS 160) work with a broad range of lamp wattages.
- Long Life (at least 20.000 starts)
- No delay or flickering. This avoids unnecessary blackening around the electrodes and lengthens the lamp's economic life.
- Resistant to ultra-violet light.
- ENEC, VDE and UL approved.

## APPLICATIONS

- Sunbeds

## DIRECTION FOR USE

- Single electrical circuit.
- Designed for use on 220-240V
- Minimum ambient temperature : 0° min
- Maximum temperature in any part of the starter : 100 °C max
- Sylvania recommends to change the starters when changing lamps and not later than the second lamp change.

Ordering code	Description	Wattage (W)	Voltage (V)	No. of starts	Electrical Circuit	Packaging unit
0024475	PureBronze PBS-25	4 - 65	220 - 240	20000	Single	10
0024476	PureBronze PBS-100	80 - 100	220 - 240	20000	Single	10
0024477	PureBronze PBS-160	80 - 160	220 - 240	20000	Single	10

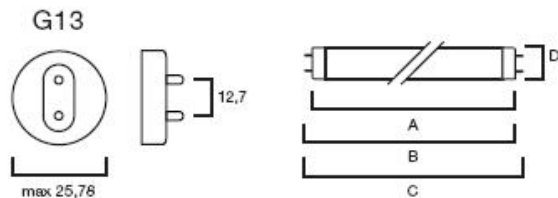
Sunlamp – CAUTION – ultraviolet (UV) and infrared (IR) radiation. Please follow the instructions. Ultraviolet and infrared radiation from solarium tubes carry a number of health risks and may lead to disorders such as cancer, premature aging of the skin, burns, eye damage, cataracts, deficiency of the immune system, allergic reactions and damage to the vascular system. Pregnant women and persons taking prescription or over the counter medications should consult their physician before using a tanning bed in a solarium. The simultaneous use of medications such as tranquilizers, antibiotics, diuretic, hypotensive, antineoplastic or contraceptive substances may lead to sunburn occurring more quickly because such substances raise the skin's sensitivity to light. The same applies for cosmetics. UV radiation may accelerate the aging process of your skin and increase the risk of skin cancer, such as squamous or basal cell carcinoma. Your risk of contracting skin cancer rises with the frequency of exposure to UV radiation. People who do not tan in sunlight will generally not go brown in a solarium and are therefore more at risk from the negative effects of tanning lamps. If you do not tan in sunlight, you should avoid tanning lamps. UV exposure in childhood is suspected of favoring melanoma formation in adulthood. Consequently, children should only be allowed to use solarium under medical supervision.

ALWAYS WEAR SUITABLE EYE PROTECTION WHEN TANNING (UV PROTECTIVE GOGGLES)! FAILURE TO WEAR EFFECTIVE EYE PROTECTION MAY LEAD TO SEVERE BURNS OR PERMANENT VISUAL DAMAGE!

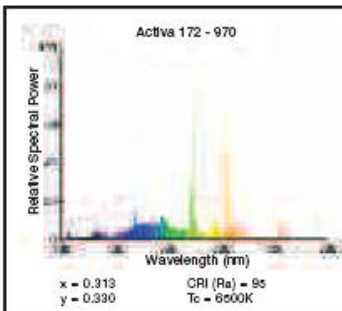
Use tanning lamps EXCLUSIVELY with a timer switch in line with the equipment and lamp manufacturers' instructions and according to your skin type. Take all the necessary safety precautions before installing the lamp and replacing the tubes, and follow the manufacturers' instructions concerning the tanning equipment and lighting device.

DISCLAIMER: Havells Sylvania shall not be liable for damage resulting from improper use of the product or failure to observe statutory and local authority regulations relating to the use of the product by customers or end users. All of the data listed here result from laboratory measurements conducted under standardized conditions. Information on the reduction of UVA radiation and the guaranteed service life of the equipment is based on the 5-hour value and refers to operating conditions defined by Havells Sylvania. Havells Sylvania reserves the right to alter these technical data without prior notice.

	A max	B min	B max	C max	D nom
15W	437.4	442.1	444.5	451.6	26
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26



- Full-spectrum high colour rendering T8 fluorescent lamp
- Colour rendering: Ra98/Class 1A
- Colour temperature of 6500K (daylight characteristic)
- For all applications where natural colour rendering is required
- Supports the treatment of Seasonal Affective Disorder (Winter Depression) SAD

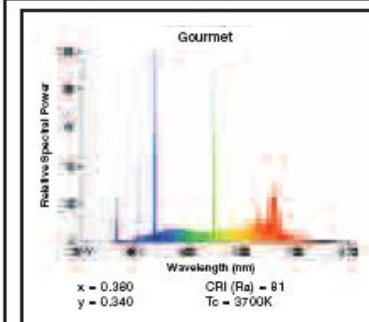
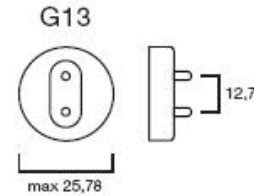
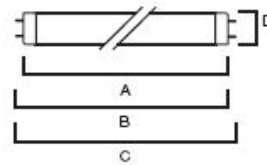


Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
0002672	F15W/172 Activa	15W	55V	0.310A	Activa	1A	G13	6500K	700 lm	25
0002218	F18W/172 Activa	18W	57V	0.370A	Activa	1A	G13	6500K	1000 lm	25
0002219	F36W/172 Activa	36W	103V	0.430A	Activa	1A	G13	6500K	2300 lm	25
0002220	F58W/172 Activa	58W	110V	0.670A	Activa	1A	G13	6500K	3700 lm	25
0002188	F70W/172 Activa	70W	128V	0.700A	Activa	1A	G13	6500K	4600 lm	25

## Gourmet 175



	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26



- Special T8 fluorescent lamps to display meat products
- The perfect lighting for butcher shops, restaurants and supermarkets
- Excellent colour rendering Class 1B
- Colour temperature 3700K
- Direct retrofit for all T8 Standard and T8 Luxline Plus lamps



Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
0001810	F18W/175 Gourmet	18W	57V	0.370A	Gourmet	1B	G13	3700K	650 lm	25
0001971	F30W/175 Gourmet	30W	96V	0.365A	Gourmet	1B	G13	3700K	1100 lm	25
0001811	F36W/175 Gourmet	36W	103V	0.430A	Gourmet	1B	G13	3700K	1500 lm	25
0001812	F58W/175 Gourmet	58W	110V	0.670A	Gourmet	1B	G13	3700K	2400 lm	25
0002540	F70W/175 Gourmet	70W	128V	0.700A	Gourmet	1B	G13	3700K	2800 lm	25