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SYLVANIA

Sylvania is one of the world's largest producers of light sources and manufactures a wide range of lamps: incandescent, halogen, low-energy, fluorescent 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.

SYLVANIA LIGHTING INTERNATIONAL

Sylvania is part of Sylvania Lighting International (SLI): the principal company behind many of the world's best known professional and consumer lighting brands – brands such as Sylvania*, Lumiance, Concord, Concord:marlin and Linolite:sylvania.

At SLI, our focus is dedicated to the lighting industry. SLI designs, manufactures and markets a diverse range of lamps and lighting fixtures for architectural, industrial, commercial, residential and outdoor applications. This specialisation, combined with our versatile range of products, technical expertise and services, means Sylvania Lighting International has the ability to deliver all your lighting requirements.

* Apart from Australia, Canada, Mexico, New Zealand, Puerto Rico and the USA.

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 – and are still undergoing significant improvements. Research shows that new shapes and colour tones will stimulate consumers to buy light bulbs which add atmosphere to every part of the home. Sylvania has completely revamped its extensive range of incandescent lamps to meet this demand.



TUNGSTEN HALOGEN LAMPS

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

Sylvania's mains voltage tungsten halogen lamps, including the innovative 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 award-winning Mini-Lynx 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 fifteen times longer (up 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



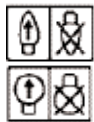
Universal burning position



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



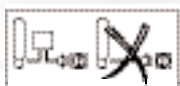
Protection against water contact



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

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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	–
Candle	B Shape	Candle B-Shape	B-Shape
Candle Twisted	BW Twisted	Candle BW-Shape	F-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	–	Linear T26/T37	–
Linear	Linestra	Linear T30	–

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

Research shows on-going improvements in lamp performance and the introduction of new shapes and colour tones stimulates user purchases. As a result, Sylvania's range of incandescent lamps undergo continual development and improvement leading to better lens and reflector designs, more efficient filaments, gas fillings and infrared reflective coatings.



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).

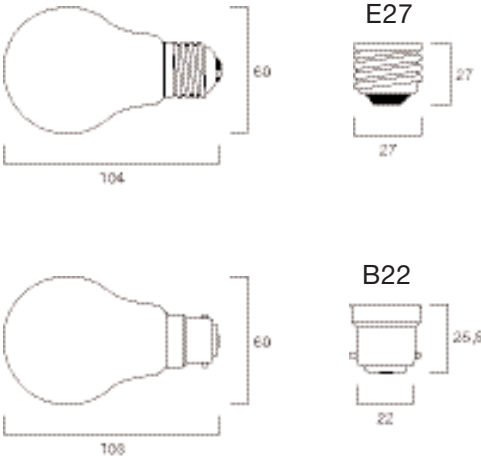
**BRILLIANT SATIN, CLEAR AND PASTEL SATIN**

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.

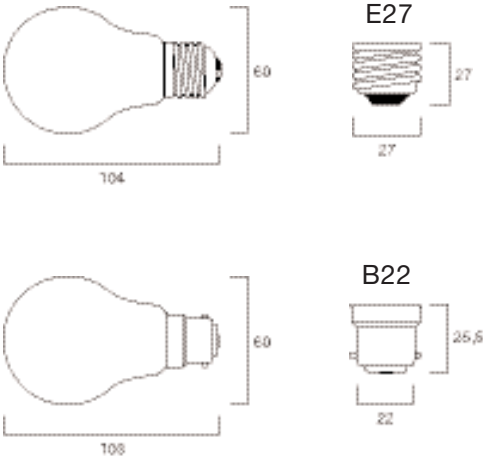
**CANDLE WINDSHAPE**

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

GLS Clear

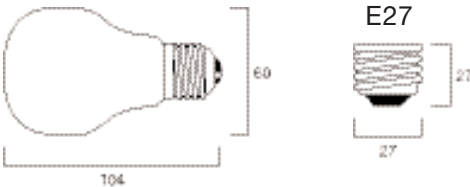
	
	• Standard pear shaped incandescent lamps with a crystal clear envelope • Clear sparkling light • Easy to operate • Excellent colour reproduction • Commercial and domestic lighting applications

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Clear							
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
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
0013220	75W 240V B22 Clear	75W	240V	B22	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

	 
• Standard pear shaped incandescent lamps with a satin finish envelope • Satin finish for a more even and superior quality light • Easy to operate • Excellent colour reproduction • Commercial and domestic lighting applications	

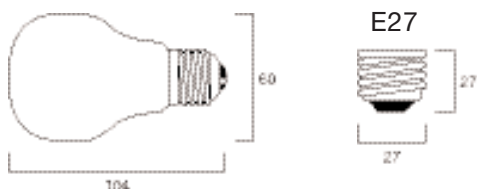
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Pearl							
0003025	15W 230V E27 Pearl	15W	230V	E27	Pearl	110 lm	100
0003031	15W 240V E27 Pearl	15W	240V	E27	Pearl	110 lm	100
0003041	15W 240V B22 Pearl	15W	240V	B22	Pearl	110 lm	100
GLS Brilliant Satin							
0012902	25W 230V 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

GLS-T Brilliant Satin & Clear

	
	• T shaped envelope • Modern appearance • More uniform and superior quality light • No hard shadows • Replaces conventional incandescent lamps where the lamp appearance is important • Recommended for use in luminaires where the lamp is completely visible or forms an integral part of the luminaire design



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS-T Brilliant Satin							
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
GLS-T Clear							
0013013	40W 230V E27 Clear	40W	230V	E27	Clear	445 lm	100
0013133	60W 230V E27 Clear	60W	230V	E27	Clear	725 lm	100

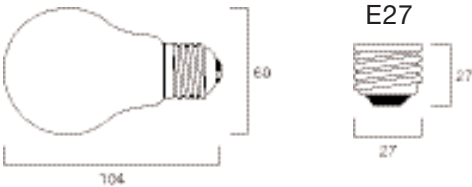


- T shaped envelope
- Modern appearance
- Choice of five colours: apricot (a hint of orange), azure (a hint of blue), cream, jade (hint of green) and rose (hint of pink)
- Commercial and domestic lighting applications
- For where a gentle hint of colour will add interest or atmosphere



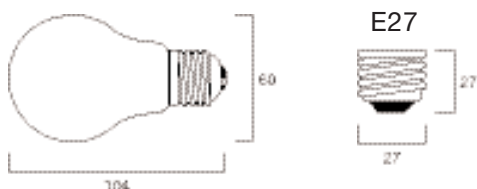
Code	Description	Watt Volt		Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS-T Pastel Satin							
0003171	40W 230V E27 Cream	40W	230V	E27	Cream	400 lm	100
0003319	60W 230V E27 Cream	60W	230V	E27	Cream	670 lm	100
0003320	60W 230V E27 Apricot	60W	230V	E27	Apricot	630 lm	100
0003321	60W 230V E27 Rose	60W	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 • 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
GLS Colour						
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

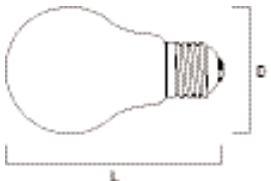


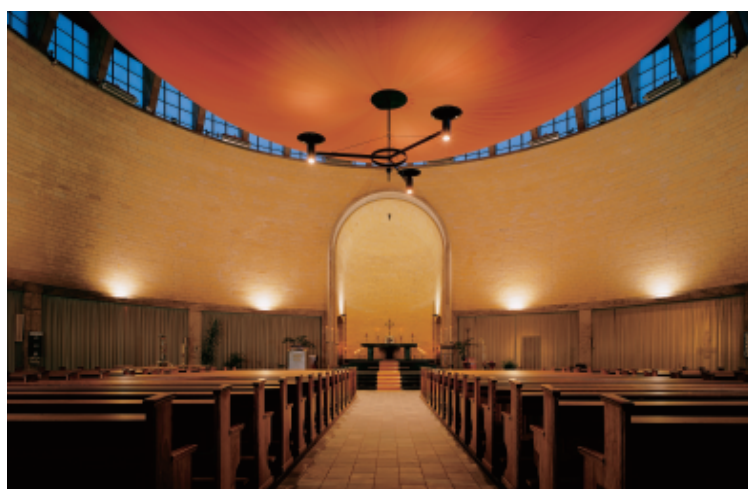
- Standard pear shaped lamps offering more than double the life of a standard GLS
- Pear shaped satin envelope
- Last up to 2.5 times longer than conventional GLS lamps
- Suitable for commercial and domestic lighting applications



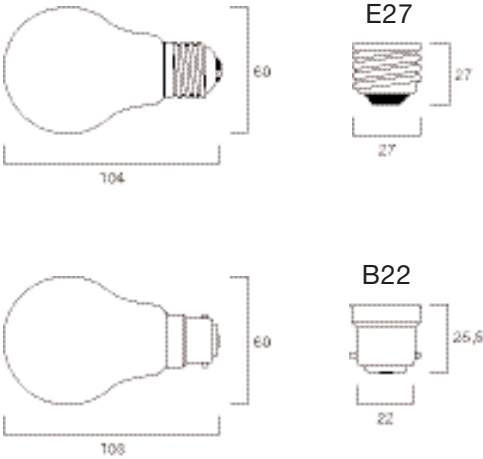
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Long Life							
0012943	25W 240V E27 Satin	25W	240V	E27	Satin	170 lm	100
0013043	40W 240V E27 Satin	40W	240V	E27	Satin	350 lm	100
0013143	60W 240V E27 Satin	60W	240V	E27	Satin	600 lm	100
0013243	75W 240V E27 Satin	75W	240V	E27	Satin	770 lm	100
0013343	100W 240V E27 Satin	100W	240V	E27	Satin	1090 lm	100

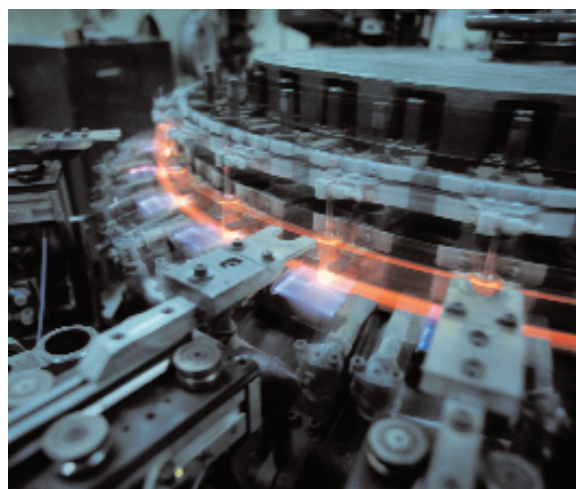
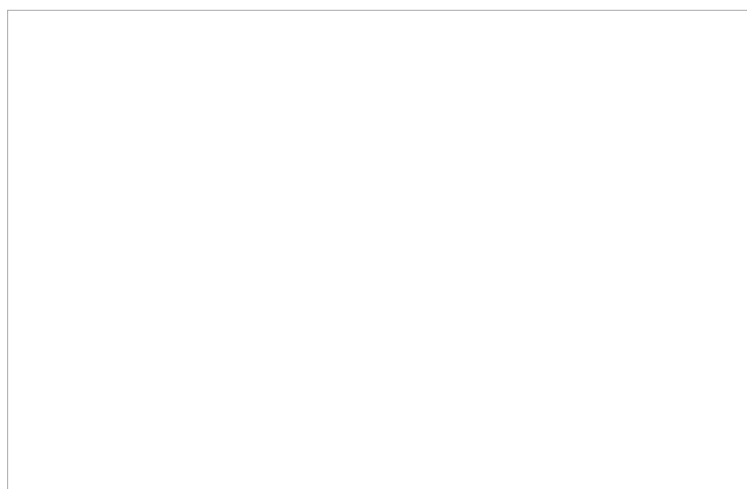
GLS High Wattage

	<table border="1"><tr><td>E27</td><td>150W</td><td>200W</td></tr><tr><td>L</td><td>129</td><td>129</td></tr><tr><td>D</td><td>68</td><td>68</td></tr><tr><td>E40</td><td>150W</td><td>200W 300W</td></tr><tr><td>L</td><td>192</td><td>192 192</td></tr><tr><td>D</td><td>88</td><td>88 88</td></tr></table> 	E27	150W	200W	L	129	129	D	68	68	E40	150W	200W 300W	L	192	192 192	D	88	88 88
E27	150W	200W																	
L	129	129																	
D	68	68																	
E40	150W	200W 300W																	
L	192	192 192																	
D	88	88 88																	
	• 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.																		



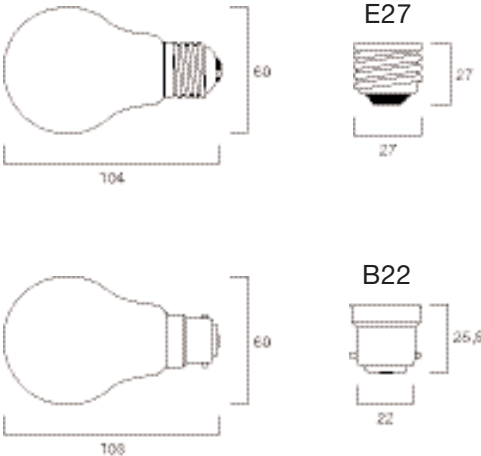
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS High Wattage Clear							
0004305	150W 230V E27 Clear	150W	230V	E27	Clear	2160 lm	100
0004345	200W 230V E27 Clear	200W	230V	E27	Clear	3090 lm	100
0010006	300W 230V E40 Clear	300W	230V	E40	Clear	4510 lm	10
0004349	200W 240V E27 Clear	200W	240V	E27	Clear	3080 lm	100
0004351	200W 240V B22 Clear	200W	240V	B22	Clear	3080 lm	100
GLS High Wattage Pearl							
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

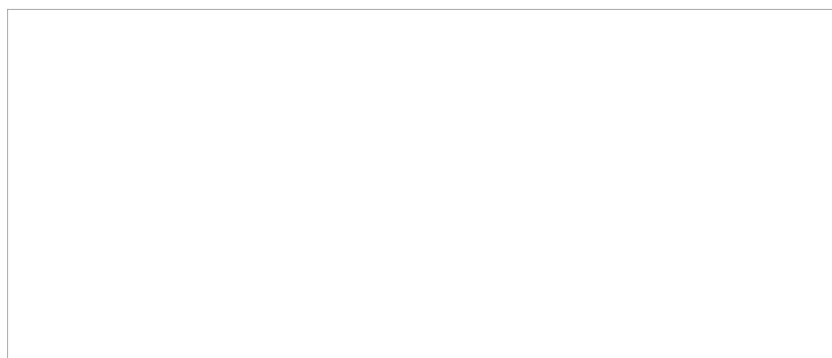
	 
● Pear shaped incandescent lamps for operating on low voltage circuits ● Pearl or clear envelope ● Suitable for operation on low voltage circuits (24-25V) ● Extended lifetime of 2500 hours for 25W and 40W versions ● 1000 hour lifetime for 60W and 100W versions ● Suitable for emergency lighting, machines,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



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Extra Low Voltage Clear							
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
GLS Extra Low Voltage Pearl							
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

GLS Rough Service

 	
	● Extra durable lamp resistant to vibrations ● Ideal for use in industrial and working environments like garages etc. ● Available in clear and pearl finish envelope ● Extended 1500 hour service life



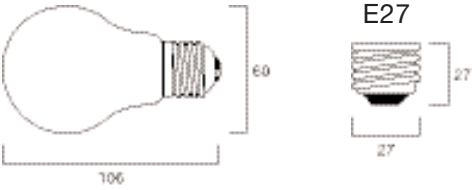
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Rough Service Clear							
0029360	40W 230V E27 Clear	40W	230V	E27	Clear	170 lm	100
0029361	40W 230V E27 Pearl	40W	230V	E27	Clear	170 lm	100
0029380	60W 230V E27 Clear	60W	230V	E27	Clear	560 lm	100
0029381	60W 230V E27 Pearl	60W	230V	E27	Clear	560 lm	100
0029383	60W 230V B22 Clear	60W	230V	B22	Clear	560 lm	100
0029390	75W 230V E27 Clear	75W	230V	E27	Clear	765 lm	100
0029403	100W 230V B22 Clear	100W	230V	B22	Clear	1130 lm	100
0029404	100W 240V E27 Clear	100W	240V	E27	Clear	1110 lm	100
0029406	100W 240V B22 Clear	100W	240V	B22	Clear	1110 lm	100
GLS Rough Service Pearl							
0029345	25W 230V E27 Pearl	25W	230V	E27	Pearl	170 lm	100
0029361	40W 230V E27 Pearl	40W	230V	E27	Pearl	285 lm	100
0029401	100W 230V E27 Pearl	100W	230V	E27	Pearl	1130 lm	100
0029364	40W 240V E27 Pearl	40W	240V	E27	Pearl	285 lm	100
0029365	40W 240V B22 Pearl	40W	240V	B22	Pearl	285 lm	100
0029405	100W 240V E27 Pearl	100W	240V	E27	Pearl	1110 lm	100

GLS Rustika Deluxe

1
INCANDESCENT

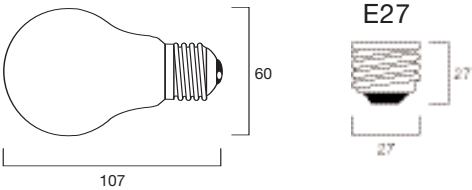
GLS

19

	
• Clear GLS lamp • Long decorative filament • Special light effects with a classic touch	

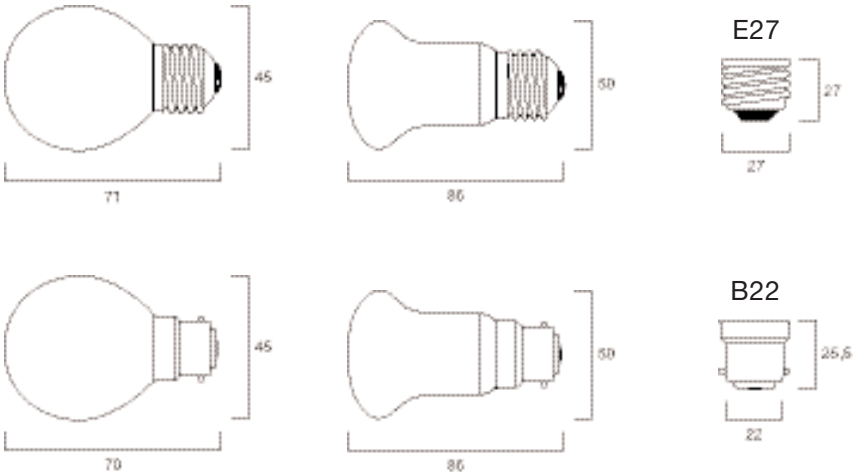
Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
GLS Rustika Deluxe						
0008567	60W E27 Rustika Deluxe	60W	230V	E27	Clear	10

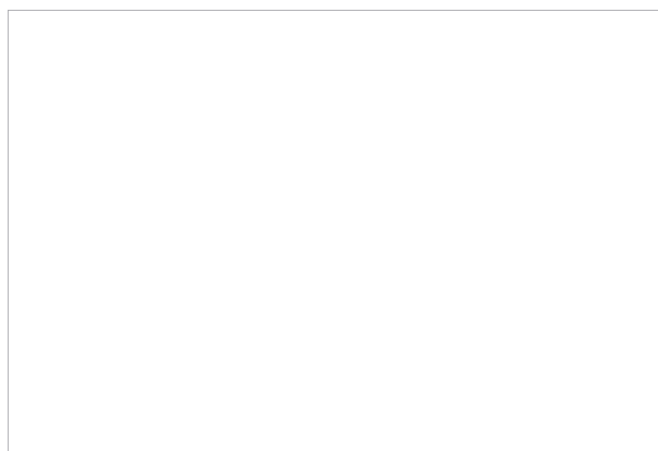
GLS Blacklight

	
• Blacklight finish • E27 base • Natural coloured glass will not fade or deteriorate over lamp life • Double life 2000 hour filament • Special effect lamp for parties, bars and clubs	

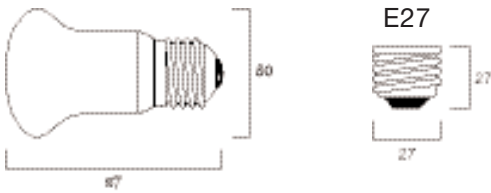
Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
GLS Blacklight						
0013148	60W E27 Blacklight	60W	230V	E27	Black	25

Traffic Signal

	
	● Special incandescent lamps with a reinforced filament to resist vibrations ● Round (45mm) or mushroom shaped (50mm) envelope ● The filament is held by extra supports to resist vibration ● For use in traffic lights and signs ● Average rated life: 8000 hours



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Traffic Signal Round Shaped							
0009868	25W 230V E27 Clear	25W	230V	E27	Clear	135 lm	100
0009869	25W 230V B22 Clear	25W	230V	B22	Clear	135 lm	100
0009891	40W 130V E27 Clear	40W	130V	E27	Clear	360 lm	100
0009893	40W 230V E27 Clear	40W	230V	E27	Clear	300 lm	100
0009894	40W 230V B22 Clear	40W	230V	B22	Clear	300 lm	100
Traffic Signal Mushroom Shaped							
0009716	55W 130V E27 Clear	55W	130V	E27	Clear	510 lm	100
0009718	55W 230V E27 Clear	55W	230V	E27	Clear	435 lm	100
0009719	55W 230V B22 Clear	55W	230V	B22	Clear	435 lm	100
0009746	70W 130V E27 Clear	70W	130V	E27	Clear	710 lm	100
0009748	70W 230V E27 Clear	70W	230V	E27	Clear	605 lm	100
0009749	70W 230V B22 Clear	70W	230V	B22	Clear	605 lm	100



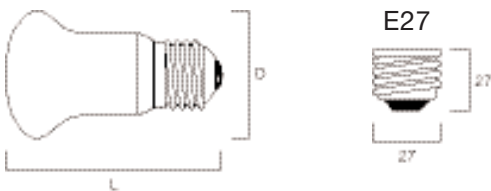
- Incandescent lamps that use 10% less energy compared to equivalent standard GLS lamps
- Mushroom shaped envelope
- Same light output and lamp life as equivalent standard GLS lamps
- Suitable for general commercial and domestic lighting applications



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Energy Saving							
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

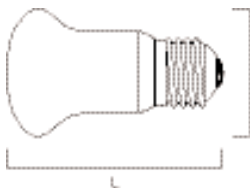


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Super Deluxe							
0005082	40W 230V E27	40W	230V	E27	Pearl	390 lm	100
0005083	60W 230V E27	60W	230V	E27	Pearl	670 lm	100
0005084	75W 230V E27	75W	230V	E27	Pearl	875 lm	100
0005085	100W 230V E27	100W	230V	E27	Pearl	1260 lm	100

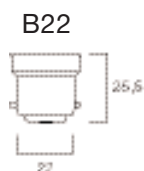
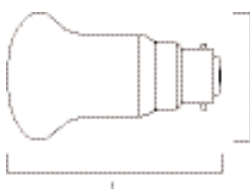
GLS Krypton



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

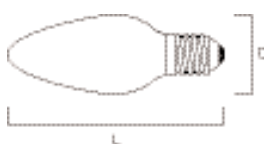


- Filled with krypton gas, offering 2000 hour service life
- Mushroom shaped envelope
- Krypton gas filled
- Opal finish envelope
- Suitable for commercial and domestic lighting e.g. offices, shops, hotels



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
GLS Krypton							
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
0004315	150W 230V E27 Opal	150W	230V	E27	Opal	2175 lm	100
0004317	150W 230V B22 Opal	150W	230V	B22	Opal	2175 lm	100

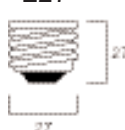
E14	15W	25W	40W	60W
L	97	97	97	97
D	35	35	35	35
E27	15W	25W	40W	60W
L	—	92	—	92
D	—	35	—	35



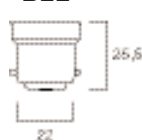
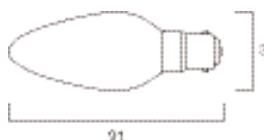
E14



E27



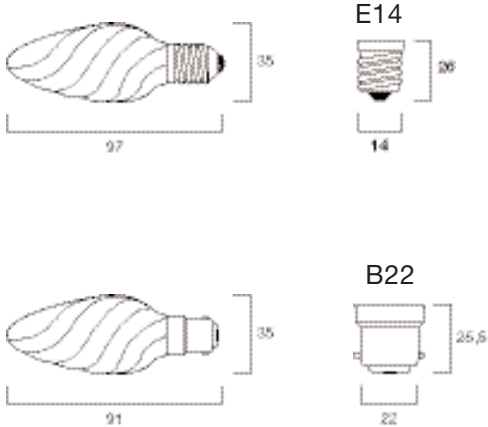
B22



- 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
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
0006414	40W 240V E27 Satin	40W	240V	E27	Satin	415 lm	100
0006415	60W 240V E27 Satin	60W	240V	E27	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
0006411	40W 240V E27 Clear	40W	240V	E27	Clear	415 lm	100
0006412	60W 240V E27 Clear	60W	240V	E27	Clear	700 lm	100

Candle Twisted

	
	• Candle shaped lamps with a twisted envelope • Decorative appearance • Clear or satin finish • To replace candle lamps in wall or ceiling luminaires • E14 and B22 cap • Commercial and domestic decorative lighting applications



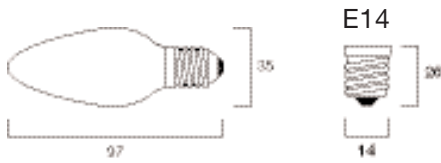
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Candle Twisted Satin							
0011404	25W 230V E14 Satin	25W	230V	E14	Satin	215 lm	100
0011412	40W 230V E14 Satin	40W	230V	E14	Satin	415 lm	100
0011432	60W 230V E14 Satin	60W	230V	E14	Satin	700 lm	100
0011436	60W 230V B22 Satin	60W	230V	B22	Satin	700 lm	100
Candle Twisted Clear							
0011400	25W 230V E14 Clear	25W	230V	E14	Clear	215 lm	100
0011410	40W 230V E14 Clear	40W	230V	E14	Clear	415 lm	100
0011426	40W 230V B22 Clear	40W	230V	B22	Clear	415 lm	100
0011430	60W 230V E14 Clear	60W	230V	E14	Clear	700 lm	100

Candle Pastel Satin

1
INCANDESCENT

CANDLE

25

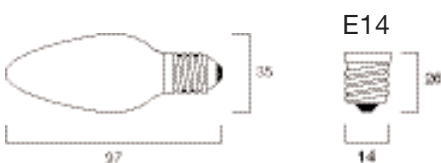


- Candle shaped envelope
- Available in 5 colours — Cream, Apricot (orange), Rose (pink), Azure (blue), and Jade (green)
- For use where a gentle touch of colour will add interest or atmosphere
- Commercial and domestic decorative lighting applications



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Candle Pastel Satin							
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

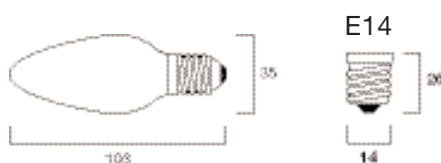


- Candle shaped envelope
- Krypton gas filling offering more light versus standard candle lamps
- White opal finish for a more even and superior soft light
- Commercial and domestic lighting applications



Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Candle Krypton							
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

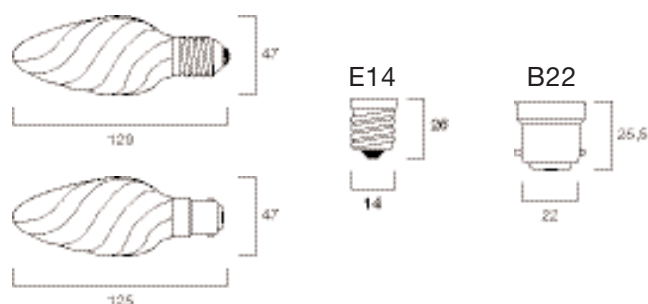
Candle Colour



- 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

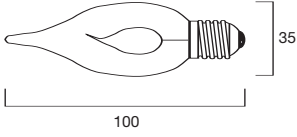
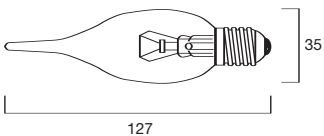
Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
Candle Colour						
0008965	40W E14 Blue	40W	230V	E14	Blue	100
0008966	40W E14 Red	40W	230V	E14	Red	100
0008967	40W E14 Green	40W	230V	E14	Green	100
0008968	40W E14 Yellow	40W	230V	E14	Yellow	100

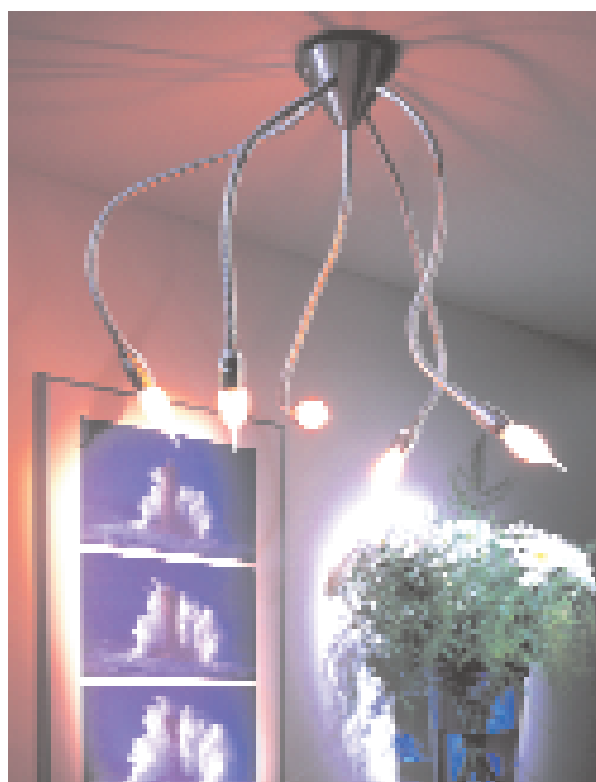
Candle Giant Twisted



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

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Candle Giant Twisted							
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

Flicker  Windshape  E14 	 
- Decorative lamps in pearl, gold or clear finish - Continuous flickering effect for the flicker candle - E14 cap - Domestic and commercial decorative lighting where the look of the lamp is important	

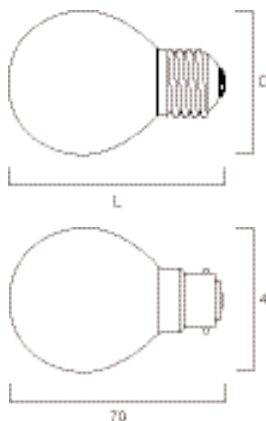


Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
Candle Windshape						
0007997	3W 230V E14 Flicker	3W	230V	E14	Clear	25
0006660	25W 230V E14 Gold	25W	230V	E14	Gold	50
0006527	25W 230V E14 Pearl	25W	230V	E14	Pearl	20
0006528	40W 230V E14 Pearl	40W	230V	E14	Pearl	20

Ball Brilliant Satin & Clear



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



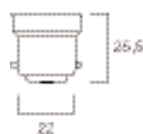
E14



E27



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
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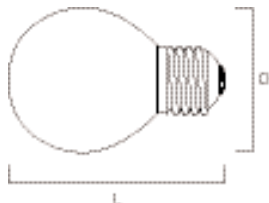
Ball Brilliant Satin

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

Ball Clear

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

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

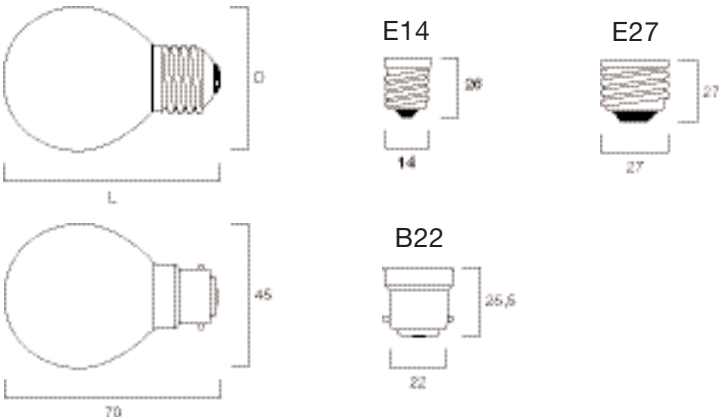


- Round lamp envelope
- Available in 5 colours — Cream, Apricot (orange), Rose (pink), Azure (blue), and Jade (green)
- E14 or E27 cap
- Where a gentle touch of colour will add interest or atmosphere
- Domestic and commercial decorative lighting



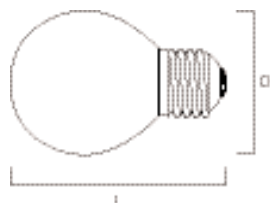
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Ball Pastel Satin							
0005452	40W 230V E14 Cream	40W	230V	E14	Cream	380 lm	100
0005453	40W 230V E14 Apricot	40W	230V	E14	Apricot	360 lm	100
0005454	40W 230V E14 Rose	40W	230V	E14	Rose	320 lm	100
0005455	40W 230V E14 Azure	40W	230V	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

	<table><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></table> <table><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																											
	● 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
Ball Krypton							
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

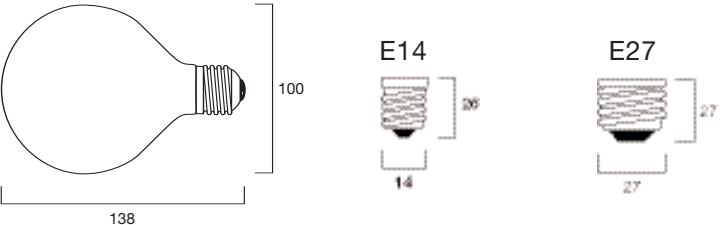
E14	15W	25W	40W	60W
L	73	73	73	73
D	45	45	45	45
E27	15W	25W	40W	60W
L	71	71	71	71
D	45	45	45	45



- Round lamp envelope
- Available in 4 colours — Blue, Red, Green and Yellow
- Weather resistant (vacuum)
- To create a festive atmosphere e.g. lighting of carnivals, fairs, festivals etc.

Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
Ball Colour						
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

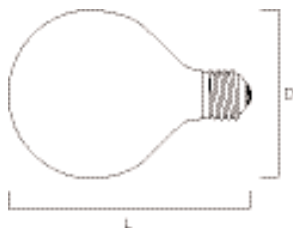
Globe Decor

	
	
	• 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
Globe Decor						
0018377	60W G100 Amber Ice Crystal	60W	230V	E27	Amber Ice Crystal	20
0018379	60W G100 Gold Frosted	60W	230V	E27	Gold Frosted	20
0018383	60W G100 Satin Frosted	60W	230V	E27	Satin Frosted	20

80fl	40W	60W	100W
L	117	117	117
D	80	80	80
95fl	40W	60W	100W
L	136	136	136
D	95	95	95
120fl	40W	60W	100W
L	-	165	165
D	-	120	120



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

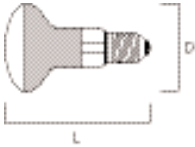


Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Globe Opal 80mmfl							
0018560	40W 230V E27 Opal	40W	230V	E27	Opal	300 lm	20
0018561	60W 230V E27 Opal	60W	230V	E27	Opal	670 lm	20
0018562	100W 230V E27 Opal	100W	230V	E27	Opal	1260 lm	20
Globe Opal 95mmfl							
0018570	40W 230V E27 Opal	40W	230V	E27	Opal	290 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
Globe Opal 120mmfl							
0018580	60W 230V E27 Opal	60W	230V	E27	Opal	580 lm	20
0018581	100W 230V E27 Opal	100W	230V	E27	Opal	1090 lm	20

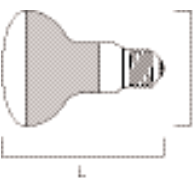
Reflector Standard



	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



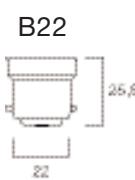
E14



E27



B22





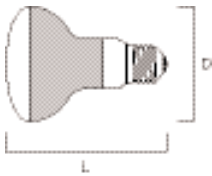
- Blown glass reflector lamps
- Pearl crown and integral aluminium reflector
- Available in 7 diameters
- Ideal for accent lighting in commercial and domestic applications
- Suitable for shop windows, displays, discos and clubs as well as in the home
- For use in track or surface mounted spotlights or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

Code	Description	Watt	Volt	Beam Angle	Cap	Crown Finish	Packing Qty
Reflector Standard R39 39mmfl							
0015918	30W 230V R39 Pearl	30W	230V	40°	E14	Pearl	100
0015908	30W 240V R39 Pearl	30W	240V	40°	E14	Pearl	100
Reflector Standard R50 50mmfl							
0015531	25W 230V R50 Pearl	25W	230V	35°	E14	Pearl	100
0015534	40W 230V R50 Pearl	40W	230V	35°	E14	Pearl	100
0015535	25W 240V R50 Pearl	25W	240V	35°	E14	Pearl	100
0015537	40W 240V R50 Pearl	40W	240V	35°	E14	Pearl	100
Reflector Standard R63 63mmfl							
0015568	40W 230V R63 Pearl	40W	230V	35°	E27	Pearl	100
0015569	60W 230V R63 Pearl	60W	230V	35°	E27	Pearl	100
0015550	40W 240V R63 Pearl	40W	240V	35°	E27	Pearl	100
0015560	60W 240V R63 Pearl	60W	240V	35°	E27	Pearl	100
0015563	60W 240V R63 Pearl	60W	240V	35°	B22	Pearl	100
Reflector Standard R80 80mmfl							
0015570	40W 240V R80 Pearl	40W	240V	80°	E27	Pearl	100
0015580	60W 240V R80 Pearl	60W	240V	80°	E27	Pearl	100
0015590	60W 240V R80 Pearl	60W	240V	80°	B22	Pearl	100
0015584	75W 240V R80 Pearl	75W	240V	80°	E27	Pearl	100
0015585	100W 240V R80 Pearl	100W	240V	80°	E27	Pearl	100
0015593	100W 240V R80 Pearl	100W	240V	80°	B22	Pearl	100
Reflector Standard R90 90mmfl							
0016185	60W 230V R90 Pearl	60W	230V	35°	E27	Pearl	100
0016196	100W 230V R90 Pearl	100W	230V	35°	E27	Pearl	20
0015620	100W 240V R90 Pearl	100W	240V	35°	E27	Pearl	20
Reflector Standard R95 95mmfl							
0015600	75W 240V R95 Pearl	75W	230V	35°	E27	Pearl	20
Reflector Standard R125 125mmfl							
0015630	150W 240V R125 Pearl	150W	240V	80°	E27	Pearl	20

Reflector Coloured

1
INCANDESCENT

	R63	R80
L	103	110
D	63	80



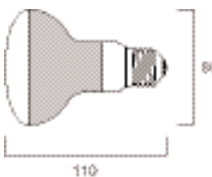
- Blown glass reflector lamps
- Coloured crown and integral aluminium reflector
- Choice of 4 colours — Blue, Green, Red and Yellow
- Available in 2 diameters: 63 and 80mm
- To create special lighting effects in bars, clubs and discos as well as shop windows

Code	Description	Watt	Volt	Cap	Crown Finish	Packing Qty
Reflector Coloured R63 63mmfl						
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
Reflector Coloured R80 80mmfl						
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

35

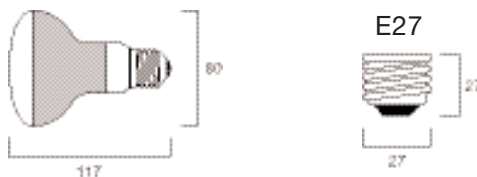
Reflector Neodymium



- Special neodymium glass which filters out yellow rays for a natural daylight effect
- Improved light quality enhancing colours
- E27 cap
- Particularly suitable for craft and hobby work
- In shops selling fabrics, jewels, food etc

Code	Description	Watt	Volt	Beam Angle	Cap	Crown Finish	Packing Qty
Reflector Neodymium R80							
0015587	100W 240V E27 50° Pearl	100W	240V	50°	E27	Pearl	100

Reflector Blacklight



- 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
Reflector Blacklight						
0016967	75W 230V R80 Blacklight	75W	230V	E27	Blacklight	20

Reflector Infrared



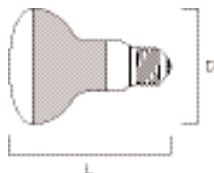
	R95	R125
L	130	181
D	95	125



- Blown glass reflector lamps
- Used to provide warmth
- Used for medical purposes

Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
Reflector Infrared						
0033004	100W 230V R95 Infrared	100W	230V	E27	Infrared	15
0033002	150W 230V R125 Infrared	150W	230V	E27	Infrared	10

	R80	R95
L	110	133
D	80	95

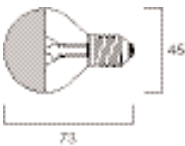
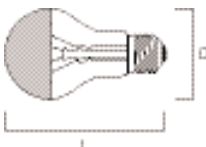
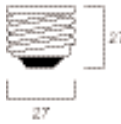


- Blown glass reflector lamps
- Special coating to support photosynthesis
- To light plants in case of weak daylight (winter gardens)

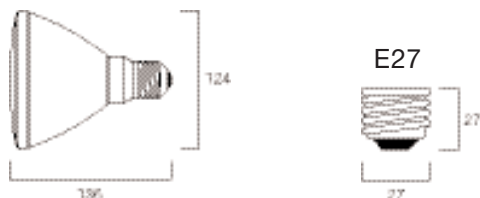


Code	Description	Watt	Volt	Cap	Lamp Finish	Packing Qty
Reflector GroLux R80 80flmm						
0015633	60W R80 GroLux	60W	230V	E27	GroLux	10
0015632	75W R80 GroLux	75W	230V	E27	GroLux	10
Reflector GroLux R95 95flmm						
0015631	75W R95 GroLux	75W	230V	E27	GroLux	10

Crown Silvered & Gold

	 E27 <table data-bbox="569 425 841 492"><tr><th></th><th>40W</th><th>60W</th><th>75W</th><th>100W</th></tr><tr><td>L</td><td>104</td><td>104</td><td>104</td><td>128</td></tr><tr><td>D</td><td>60</td><td>60</td><td>60</td><td>68</td></tr></table>  E14  E27		40W	60W	75W	100W	L	104	104	104	128	D	60	60	60	68
	40W	60W	75W	100W												
L	104	104	104	128												
D	60	60	60	68												
	● GLS or round shaped incandescent lamps ● Silvered or gold crown and clear finish envelope ● Delivers an extremely well controlled beam with practically zero glare ● E14 or E27 cap ● Commercial display lighting and domestic decorative lighting applications ● For use in parabolic reflector spotlights															

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Crown Silvered							
0017743	25W 240V E14 Clear	25W	240V	E14	Clear	185 lm	100
0017744	40W 240V E14 Clear	40W	240V	E14	Clear	360 lm	100
0017739	40W 240V E27 Clear	40W	240V	E27	Clear	360 lm	100
0017740	60W 240V E27 Clear	60W	240V	E27	Clear	620 lm	100
0017741	75W 240V E27 Clear	75W	240V	E27	Clear	800 lm	100
0017742	100W 240V E27 Clear	100W	240V	E27	Clear	1170 lm	100
Crown Gold							
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

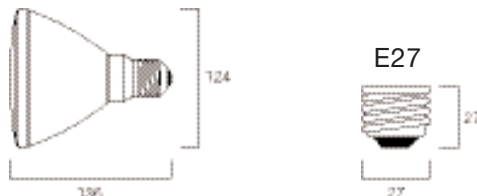


- Incandescent PAR lamps made from heat-resistant borosilicate glass
- Weather-resistant (not PAR38 Cool Beam)
- Cool Beam version with integral dichroic reflector
- Suitable for exterior lighting (not PAR38 Cool Beam)

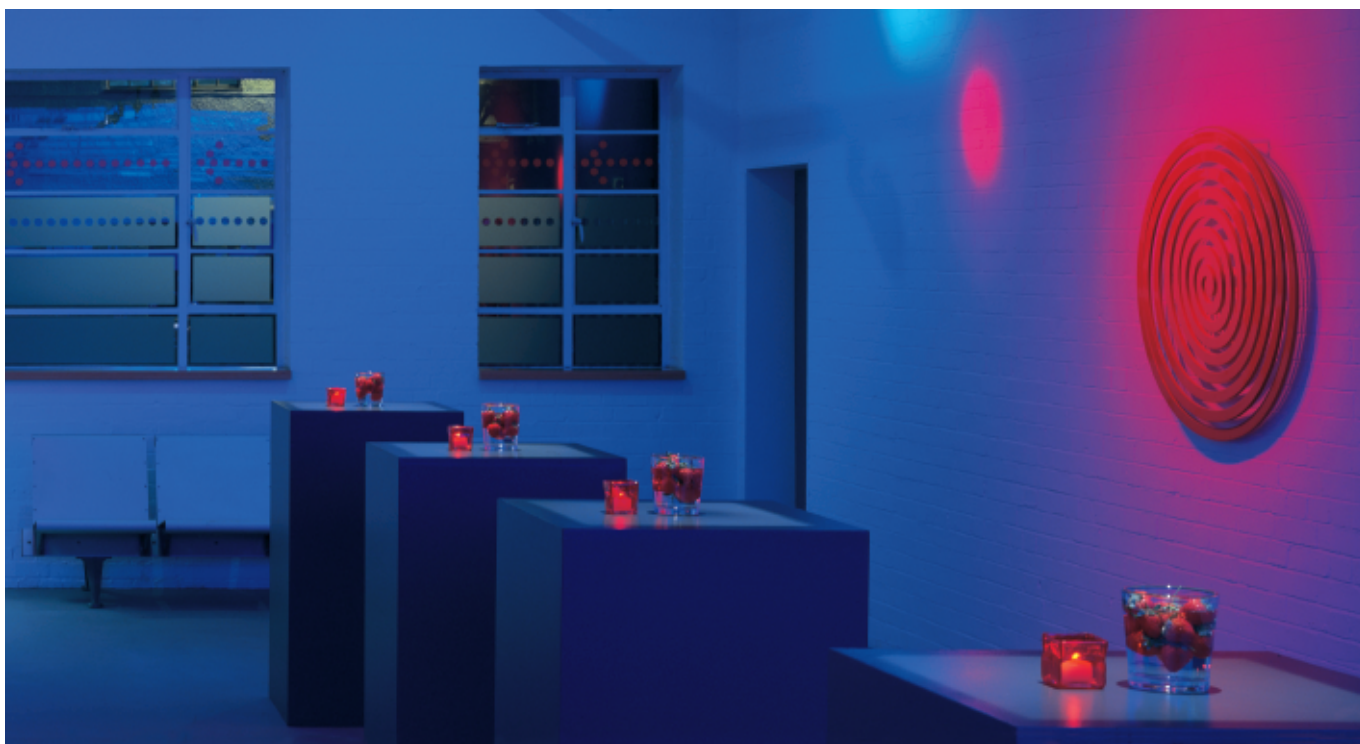


Code	Description	Watt	Volt	Beam Angle	Cap	Lamp Finish	Packing Qty
PAR38							
0019691	60W/FL/30° PAR38 Clear	60W	230-240V	30°	E27	Clear	10
0019710	80W/SP/12° PAR38 Clear	80W	230-240V	12°	E27	Clear	10
0019711	80W/FL/30° PAR38 Clear	80W	230-240V	30°	E27	Clear	10
0019720	120W/SP/12° PAR38 Clear	120W	230-240V	12°	E27	Clear	10
0019721	120W/FL/30° PAR38 Clear	120W	230-240V	30°	E27	Clear	10
PAR38 Cool Beam							
0020055	120W/FL/30° PAR38 Clear	120W	220-230V	30°	E27	Clear	15

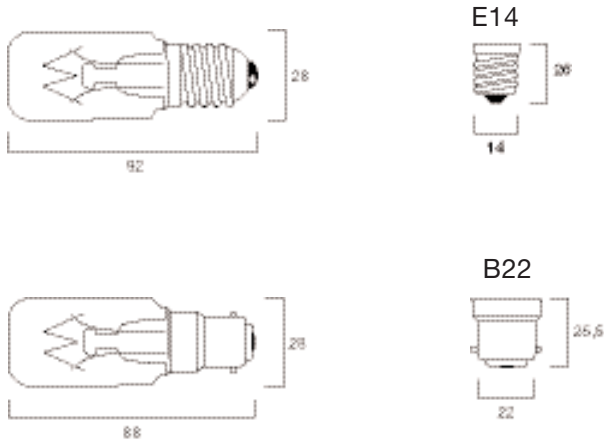
PAR38 Coloured



- Incandescent PAR lamps made from heat-resistant borosilicate glass
- Choice of 4 colours — Blue, Green, Red and Yellow
- E27 cap
- To create special effects in bars, clubs and discos as well as shop windows

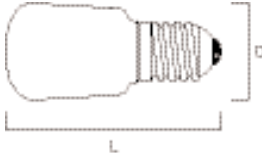


Code	Description	Watt	Volt	Beam Angle	Cap	Lamp Finish	Packing Qty
PAR38 Coloured							
0019650	80W/FL/30° PAR38 Blue	80W	230-240V	30°	E27	Blue	15
0019651	80W/FL/30° PAR38 Green	80W	230-240V	30°	E27	Green	15
0019652	80W/FL/30° PAR38 Red	80W	230-240V	30°	E27	Red	15
0019653	80W/FL/30° PAR38 Yellow	80W	230-240V	30°	E27	Yellow	15

	 
• Clear or opal finish • Krypton gas filling offering more light versus standard clear lamps • E14 or B22 cap • Domestic and commercial lighting in homes, offices, shops and hotels • For use in small, compact luminaires • Suitable for integration into furniture	

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Tubular Clear							
0007352	25W 230V E14 Clear	25W	230V	E14	Clear	230 lm	100
0007342	25W 230V B22 Clear	25W	230V	B22	Clear	230 lm	100
0007360	40W 230V E14 Clear	40W	230V	E14	Clear	415 lm	100
0007362	40W 230V B22 Clear	40W	230V	B22	Clear	415 lm	100
0007370	60W 230V E14 Clear	60W	230V	E14	Clear	680 lm	100
0007372	60W 230V B22 Clear	60W	230V	B22	Clear	680 lm	100
Tubular Krypton Opal							
0007344	25W 230V E14 Krypton Opal	25W	230V	E14	Opal	210 lm	100
0007364	40W 230V E14 Krypton Opal	40W	230V	E14	Opal	400 lm	100
0007366	40W 230V B22 Krypton Opal	40W	230V	B22	Opal	400 lm	100
0007374	60W 230V E14 Krypton Opal	60W	230V	E14	Opal	660 lm	100
0007376	60W 230V B22 Krypton Opal	60W	230V	B22	Opal	660 lm	100

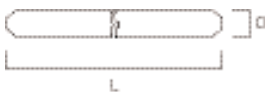
Pygmy/Pygmy Oven/Pygmy Refrigerator/Pygmy TV Blue

 Pygmy Oven  Pygmy TV	<table><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>15W</td><td></td></tr><tr><td>L</td><td></td><td>48</td></tr><tr><td>D</td><td></td><td>18</td></tr><tr><td>Pygmy TV</td><td>15W</td><td></td></tr><tr><td>L</td><td>58</td><td></td></tr><tr><td>D</td><td>25</td><td></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		48	D		18	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		48																																			
D		18																																			
Pygmy TV	15W																																				
L	58																																				
D	25																																				
																																					
	● Small compact incandescent lamps for special applications ● Clear, pearl or blue finish ● Oven lamp high temperature resistant ● TV Blue lamp ideal for use next to TV sets ● E14 cap																																				

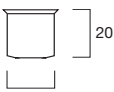
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Pygmy							
0008021	15W 230V E14 Clear	15W	230V	E14	Clear	105 lm	100
0008023	25W 230V E14 Clear	25W	230V	E14	Clear	230 lm	100
0008100	15W 240V E14 Clear	15W	240V	E14	Clear	100 lm	100
0008120	25W 240V E14 Clear	25W	240V	E14	Clear	225 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
Pygmy Oven							
0036603	15W 230V E14 22mmØ Oven	15W	230V	E14	Clear	85 lm	100
0008072	15W 240V E14 22mmØ Oven	15W	240V	E14	Clear	80 lm	100
0008076	15W 240V E14 28mmØ Oven	15W	240V	E14	Clear	100 lm	100
Pygmy Refrigerator							
0007339	15W 230V E14 Clear	15W	230V	E14	Clear	85 lm	100
Pygmy TV Blue							
0007949	15W 230V E14 TV Blue	15W	230V	E14	Blue	20 lm	50

S15s	30W	60W
L	221	284
D	25	25

S19	40W	60W	75W
L	310	310	310
D	38	38	38











- Double-ended linear incandescent lamps
- Clear or opal finish
- Available in two lengths — 221mm and 284mm
- S15s and S19 cap
- Bathroom, bedroom and kitchen luminaires. Cupboard lighting and over mirrors

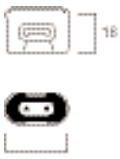
Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Striplights							
9007550	30W 240-250V S15s Clear	30W	240-250V	S15s	Clear	270 lm	50
9007597	60W 240-250V S15s Clear	60W	240-250V	S15s	Clear	500 lm	25
9007551	30W 240-250V S15s Opal	30W	240-250V	S15s	Opal	250 lm	50
9007596	60W 240-250V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

Linear Architectural

S14d	35W	60W	120W
L	221	284	—
D	25	25	—

S14s	35W	60W	120W
L	300	500	999
D	26	26	26











- Double-ended linear incandescent lamps
- Opal finish
- Available in three lengths — 300mm, 500mm and 999mm
- S15s and S19 cap
- Bathroom, bedroom and kitchen luminaires. Cupboard lighting and over mirrors

Code	Description	Watt	Volt	Cap	Lamp Finish	Luminous Flux	Packing Qty
Linear Architectural							
0007433	35W 220-235V S14d Opal	35W	220-235V	S14d	Opal	270 lm	25
0007435	35W 220-235V S14s Opal	35W	220-235V	S14s	Opal	270 lm	25
0007448	60W 220-235V S14d Opal	60W	220-235V	S14d	Opal	530 lm	25
0007450	60W 220-235V S14s Opal	60W	220-235V	S14s	Opal	420 lm	25
0007463	120W 220-235V S14s Opal	120W	220-235V	S14s	Opal	840 lm	16



LOW VOLTAGE HALOGEN LAMPS

Low Pressure Capsule	48
Dichroic 35/Dichroic 50	49
Superia 35/Superia 50	50
Coolfit 50	51
SA111	52

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MANUFACTURER'S LAMP CROSS REFERENCE

Sylvania	Osram	Philips	GE
Low Pressure Capsule	HALOSTAR	CAPSULEline PRO	QUARTZ HALOGEN
Dichroic 35/50	DECOSTAR	HALOTONE	STANDARD MR16/MR11
Superia 35/50	DECOSTAR TITAN	BRILLIANTline PRO	PRECISE MR16/MR11
Coolfit 50	DECOSTAR 51 IRC	HALOTONE	–
SA111	HALOSPOT 111	ALUline PRO 111	–
Hi-Pin	HALOPIN	–	–
Hi-Spot Superia ES50 / ESD50	HALOPAR 16	TWISTLINE PRO	MR16 TAL
Hi-Spot Home ES50	HALOPAR 16	TWISTLINE	MR16 TAL
Hi-Spot Superia ES63 / ESD63	–	–	–
Hi-Spot Superia ES111 AG / ESD111 AG	–	–	HALOGEN PAR 36
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	–	–	–
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 PRO T32	–
DLX-BTT	HALOLUX BT	HalogenA PRO BTT46	HALOGEN A-Line
Linear Double Ended	HALOLINE	HALOTONE	QUARTZLINE

LOW VOLTAGE HALOGEN LAMPS



CAPSULES

The smallest low voltage lamps.



DICHROIC

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



SUPERIA/DICHROIC

The preferred choice of many specifiers and end users.



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



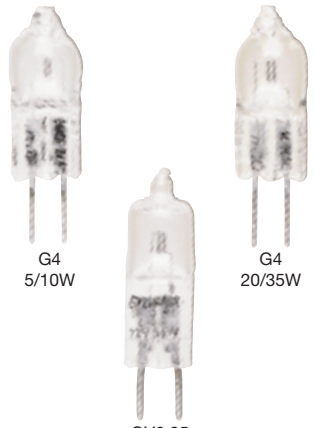
HI-SPOT SUPERIA ES50

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.

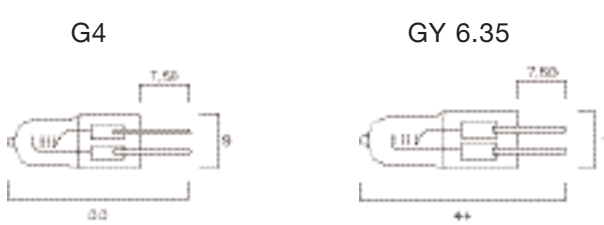
Low Pressure Capsule



G4
5/10W

G4
20/35W

GY6.35



G4

GY 6.35



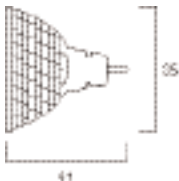


- Compact size for optimum luminaire design
- Dimmable using a suitable dimmer for operation with a transformer
- Constant light output throughout lamp life
- Suitable for use in open luminaires following new Luminaire Standard EN 60598
- Interior display, shop windows, restaurants and discotheque lighting
- Precision task lighting

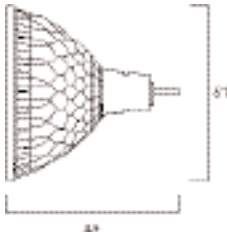


Code	Description	Watt	Volt	Cap	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
Low Pressure Capsule								
0022165	12V/5W LP	5W	12V	G4	2800K	40 lm	2000 hrs	50
0022241	12V/10W LP	10W	12V	G4	2800K	100 lm	2000 hrs	50
0022242	12V/20W LP	20W	12V	G4	2800K	250 lm	2000 hrs	50
0022246	12V/35W LP	35W	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

GZ4/GU4



GX/GU5.3



Dichroic 35

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

Dichroic 50

10°		20W	35W	50W
175mmØ	1m	3600lx	5000lx	8000lx
350mmØ	2m	900lx	1250lx	2000lx
525mmØ	3m	400lx	556lx	889lx
700mmØ	4m	225lx	313lx	500lx

38°		20W	35W	50W
689mmØ	1m	660lx	1200lx	1950lx
1377mmØ	2m	165lx	300lx	488lx
2066mmØ	3m	73lx	133lx	217lx
2755mmØ	4m	41lx	75lx	122lx

60°		50W
1155mmØ	1m	900lx
2309mmØ	2m	225lx
3464mmØ	3m	100lx
4619mmØ	4m	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

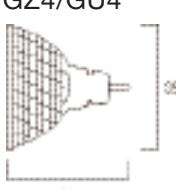


Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
Dichroic 35									
0022336	FTB 12V/20W	20W	12V	10°	GU4	2900K	3600 cd	1500 hrs	10
0022339	FTE 12V/35W	35W	12V	10°	GU4	2900K	5700 cd	1500 hrs	10
Dichroic 50									
0022580	ESX 20W/12V 10°	20W	12V	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
0022582	EXT 50W/12V 10°	50W	12V	10°	GU5.3	3050K	8000 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

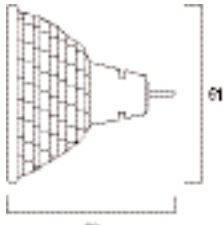
Superia 35/Superia 50



GZ4/GU4



GX/GU5.3



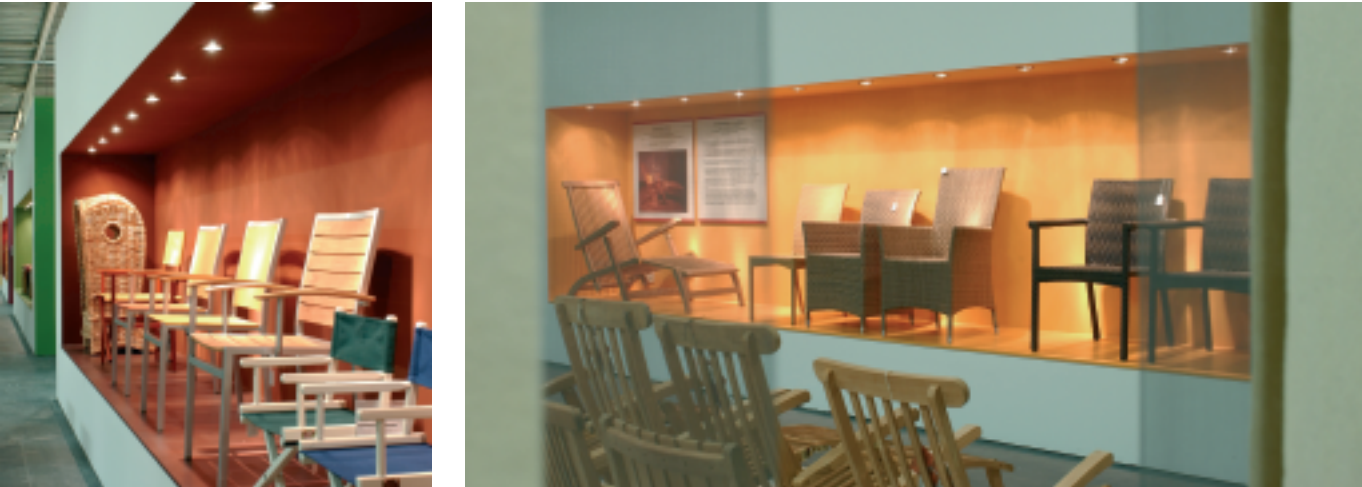
Superia 35

Beam Angle	1m	2m	3m	4m	20W	35W
38°	689mmØ	1377mmØ	2066mmØ	2755mmØ	700lx	1350lx
					175lx	338lx
					78lx	180lx
					44lx	84lx

Superia 50

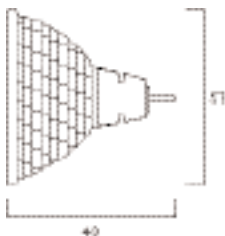
Beam Angle	1m	2m	3m	4m	20W	35W	50W
10°	175mmØ	350mmØ	525mmØ	700mmØ	4000lx	7700lx	11500lx
					1000lx	1925lx	2850lx
					444lx	855lx	1278lx
					250lx	481lx	719lx
24°	425mmØ	850mmØ	1275mmØ	1700mmØ	3600lx	900lx	400lx
					225lx		
38°	689mmØ	1377mmØ	2066mmØ	2755mmØ	790lx	1450lx	2250lx
					198lx	363lx	563lx
					88lx	161lx	250lx
					49lx	91lx	141lx
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
- Professional lighting of objects and displays sensitive to heat



Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
Superia 35									
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
Superia 50									
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
689mmØ	1m			660lx	1200lx	1950lx
1377mmØ	2m			165lx	300lx	488lx
2066mmØ	3m			73lx	133lx	217lx
2755mmØ	4m			41lx	75lx	122lx

60°				50W	
1155mmØ	1m			900lx	
2309mmØ	2m			225lx	
3464mmØ	3m			100lx	
4619mmØ	4m			56lx	



EVS 10W



- 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 50mmØ dichroic low voltage lamp
- Suitable for use in open ceilings



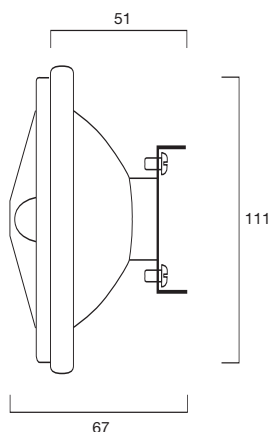
Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
Coolfit 50									
0022516	20W/12V 38°	20W	12V	38°	GU5.3	3000K	660 cd	5000 hrs	10
0022517	35W/12V 38°	35W	12V	38°	GU5.3	3000K	1200 cd	5000 hrs	10
0022519	50W/12V 38°	50W	12V	38°	GU5.3	3000K	1950 cd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

SA111

NEW



12V 510W



8°		50W	75W	100W
140mmØ	1m	2300lx	3000lx	4800lx
280mmØ	2m	575lx	750lx	1200lx
420mmØ	3m	256lx	333lx	533lx
559mmØ	4m	143lx	187lx	300lx

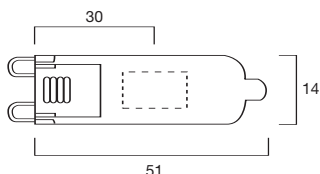
24°		50W	75W	100W
425mmØ	1m	400lx	530lx	850lx
850mmØ	2m	100lx	132lx	212lx
1275mmØ	3m	44lx	58lx	94lx
1700mmØ	4m	25lx	33lx	53lx

45°		50W	75W	100W
828mmØ	1m	1200lx	1700lx	2800lx
1657mmØ	2m	300lx	425lx	700lx
2485mmØ	3m	133lx	189lx	311lx
3314mmØ	4m	75lx	106lx	175lx

- 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
SA111									
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

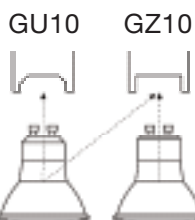
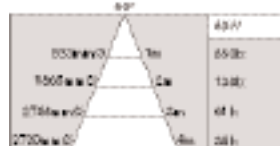
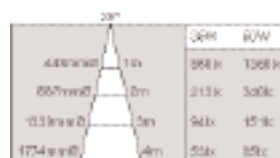
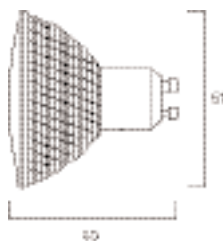


- Sylvania's smallest mains voltage halogen lamp
- Integral safety fuse
- Approved for use in open luminaires
- Available in both clear and frosted finish
- Easy installation with G9 plug-in base
- Patented filament support method delivers total safety on failure at end of life

Code	Description	Watt	Volt	Cap	Lamp Finish	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
Hi-Pin									
0022801	Hi-Pin 25W/230V Clear	25W	230V	G9	Clear	2800K	240 lm	2000 hrs	20
0022797	Hi-Pin 25W/230V Frosted	25W	230V	G9	Frosted	2800K	210 lm	2000 hrs	20
0022803	Hi-Pin 40W/230V Clear	40W	230V	G9	Clear	2800K	440 lm	2000 hrs	20
0022783	Hi-Pin 40W/230V Frosted	40W	230V	G9	Frosted	2800K	420 lm	2000 hrs	20
0022805	Hi-Pin 60W/230V Clear	60W	230V	G9	Clear	2800K	740 lm	2000 hrs	20
0022785	Hi-Pin 60W/230V Frosted	60W	230V	G9	Frosted	2800K	720 lm	2000 hrs	20
0022807	Hi-Pin 75W/230V Clear	75W	230V	G9	Clear	2800K	1000 lm	2000 hrs	20
0022799	Hi-Pin 75W/230V Frosted	75W	230V	G9	Frosted	2800K	950 lm	2000 hrs	20
0022802	Hi-Pin 25W/240V Clear	25W	240V	G9	Clear	2800K	240 lm	2000 hrs	20
0022798	Hi-Pin 25W/240V Frosted	25W	240V	G9	Frosted	2800K	210 lm	2000 hrs	20
0022804	Hi-Pin 40W/240V Clear	40W	240V	G9	Clear	2800K	440 lm	2000 hrs	20
0022784	Hi-Pin 40W/240V Frosted	40W	240V	G9	Frosted	2800K	420 lm	2000 hrs	20
0022806	Hi-Pin 60W/240V Clear	60W	240V	G9	Clear	2800K	740 lm	2000 hrs	20
0022786	Hi-Pin 60W/240V Frosted	60W	240V	G9	Frosted	2800K	720 lm	2000 hrs	20
0022808	Hi-Pin 75W/240V Clear	75W	240V	G9	Clear	2800K	1000 lm	2000 hrs	20
0022800	Hi-Pin 75W/240V Frosted	75W	240V	G9	Frosted	2800K	950 lm	2000 hrs	20

Hi-Spot® Superia ES50/ESD50

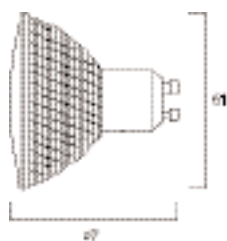
NEW



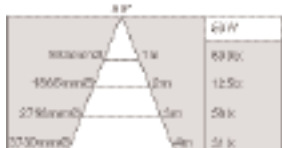
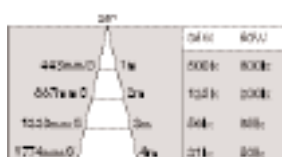
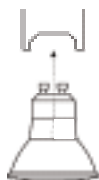
- Unique long life filament – **4000 hours life**
- Xenon gas filling for increased light output
- Unique, patented, computer designed spiral faceted aluminised reflector
- For accent or decorative lighting in retail, commercial and domestic applications
- Ceramic base, brass contacts for a robust fitting
- 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
Hi-Spot Superia ES50									
0022900	Hi-Spot ES 50 35W/FL25°	35W	230V	25°	GU10	2700K	850 cd	4000 hrs	15
0022902	Hi-Spot ES 50 50W/FL25°	50W	230V	25°	GU10	2750K	1360 cd	4000 hrs	15
0022906	Hi-Spot ES 50 50W/WFL50°	50W	230V	50°	GU10	2750K	550 cd	4000 hrs	15
0022901	Hi-Spot ES 50 35W/FL25°	35W	240V	25°	GU10	2700K	850 cd	4000 hrs	15
0022903	Hi-Spot ES 50 50W/FL25°	50W	240V	25°	GU10	2750K	1360 cd	4000 hrs	15
0022907	Hi-Spot ES 50 50W/WFL50°	50W	240V	50°	GU10	2750K	550 cd	4000 hrs	15
Hi-Spot Superia ESD50 Dichroic									
0022904	Hi-Spot ESD 50 50W/FL25°	50W	230V	25°	GZ10	2800K	1360 cd	4000 hrs	15
0022908	Hi-Spot ESD 50 50W/WFL50°	50W	230V	50°	GZ10	2800K	550 cd	4000 hrs	15
0022905	Hi-Spot ESD 50 50W/FL25°	50W	240V	25°	GZ10	2800K	1360 cd	4000 hrs	15
0022909	Hi-Spot ESD 50 50W/WFL50°	50W	240V	50°	GZ10	2800K	550 cd	4000 hrs	15



GU10



Hi-Spot



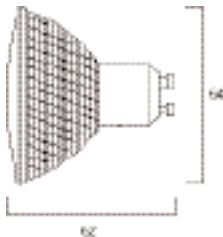
- Unique, patented, computer designed spiral faceted aluminised reflector
- Clear front lens for crisp sparkling light
- Ceramic base
- For use in mains voltage GU10 downlights, spotlights and luminaires



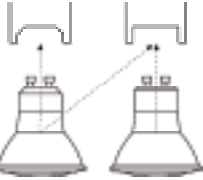
Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
Hi-Spot Home ES50									
0021254	Hi-Spot ES50 230-240V 35W 25°	35W	230-240V	25°	GU10	2700K	500 cd	2500 hrs	15
0021256	Hi-Spot ES50 230-240V 50W 25°	50W	230-240V	25°	GU10	2700K	800 cd	2500 hrs	15
0021261	Hi-Spot ES50 230-240V 50W 50°	50W	230-240V	50°	GU10	2700K	500 cd	2500 hrs	15

Hi-Spot® ES63/ESD63





GU10 GZ10



25° Beam Angle

Wattage	1m	2m	3m	4m
445lm @ 25°	150lx	38lx	17lx	10lx
667lm @ 25°	225lx	57lx	26lx	15lx
1031lm @ 25°	338lx	86lx	39lx	23lx
1274lm @ 25°	415lx	104lx	47lx	29lx

50° Beam Angle

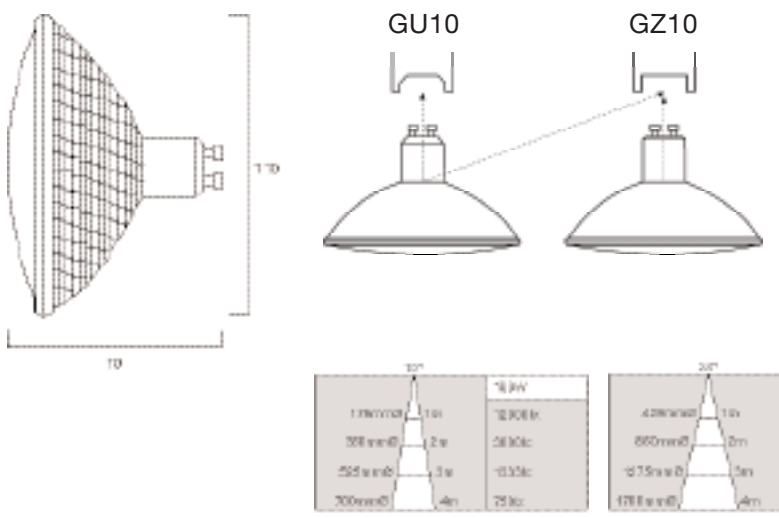
Wattage	1m	2m	3m	4m
445lm @ 50°	75lx	19lx	9lx	5lx
667lm @ 50°	112lx	29lx	13lx	8lx
1031lm @ 50°	167lx	42lx	19lx	12lx
1274lm @ 50°	208lx	52lx	23lx	15lx



- 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
Hi-Spot ES63									
0022266	Hi-Spot ES 63 50W/FL25°	50W	230V	25°	GU10	2750K	1500 cd	2500 hrs	15
0022271	Hi-Spot ES 63 75W/FL25°	75W	230V	25°	GU10	2800K	2500 cd	2500 hrs	15
0022261	Hi-Spot ES 63 75W/WFL50°	75W	230V	50°	GU10	2800K	1000 cd	2500 hrs	15
0022268	Hi-Spot ES 63 50W/FL25°	50W	240V	25°	GU10	2750K	1500 cd	2500 hrs	15
0022274	Hi-Spot ES 63 75W/FL25°	75W	240V	25°	GU10	2800K	2500 cd	2500 hrs	15
0022264	Hi-Spot ES 63 75W/WFL50°	75W	240V	50°	GU10	2800K	1000 cd	2500 hrs	15
Hi-Spot ESD63 Dichroic									
0022281	Hi-Spot ESD 63 75W/FL25°	75W	230V	25°	GZ10	2850K	2500 cd	2500 hrs	15
0022291	Hi-Spot ESD 63 75W/WFL50°	75W	230V	50°	GZ10	2850K	1000 cd	2500 hrs	15
0022284	Hi-Spot ESD 63 75W/FL25°	75W	240V	25°	GZ10	2850K	2500 cd	2500 hrs	15



Beam Angle	Wattage	Beam Spread (m)	Beam Spread (ft)	Beam Spread (in)
10°	75W	1.1m	3.6ft	45in
24°	75W	2.6m	8.5ft	108in
36°	75W	3.9m	12.8ft	161in
48°	75W	5.2m	17.1ft	214in

Beam Angle	Wattage	Beam Spread (m)	Beam Spread (ft)	Beam Spread (in)
10°	100W	1.1m	3.6ft	45in
24°	100W	2.6m	8.5ft	108in
36°	100W	3.9m	12.8ft	161in
48°	100W	5.2m	17.1ft	214in








GZ10 ONLY

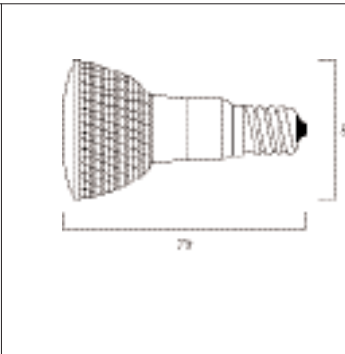
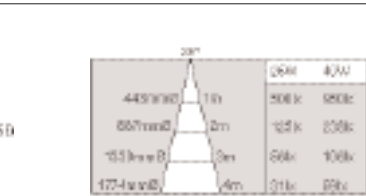
- Mains voltage alternative to Sylvania SA111 aluminium reflector lamp
- Integral anti-glare shield
- Halogen light without the need for a transformer
- Installing and changing lamps made easier with the 'turn and lock' GU10 and GZ10 caps
- Wattages and beam angles – ES111 AG 75W/24° and ESD111 AG 100W/10°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



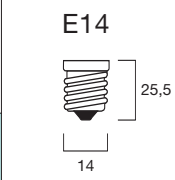
Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
Hi-Spot ES111									
0022224	75W Flood 230V 24°	75W	230V	24°	GU10	2800K	3500 cd	2000 hrs	15
0022225	75W Flood 240V 24°	75W	240V	24°	GU10	2800K	3500 cd	2000 hrs	15
Hi-Spot ESD111 Dichroic									
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



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
Hi-Spot 50									
0021103	Hi-Spot 50 25W/FL25°	25W	230V	25°	E14	2700K	500 cd	1500 hrs	15
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

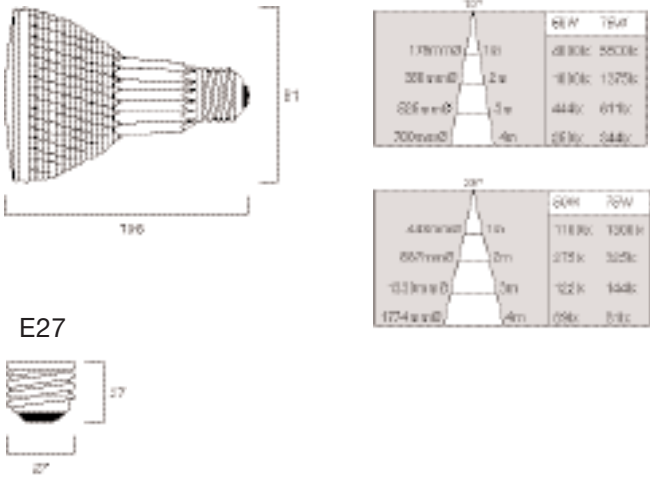
E27

- 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
Hi-Spot 63									
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

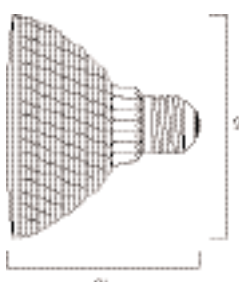





- Halogen light without the need for a transformer
- Unique, patented, computer designed spiral faceted aluminised reflector
- Can be dimmed using standard dimmer switches
- For use in mains voltage ES/E27 cap downlights, spotlights and luminaires
- For accent or decorative lighting in retail, commercial 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
Hi-Spot 80									
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



E27



Beam Angle	Watt	Volt	Temp	Temp	Temp
10°	75W	230V	2900K	2900K	2900K
30°	75W	230V	2900K	2900K	2900K
10°	100W	230V	2900K	2900K	2900K
30°	100W	230V	2900K	2900K	2900K

Beam Angle	Watt	Volt	Temp	Temp	Temp
10°	75W	240V	2900K	2900K	2900K
30°	75W	240V	2900K	2900K	2900K
10°	100W	240V	2900K	2900K	2900K
30°	100W	240V	2900K	2900K	2900K

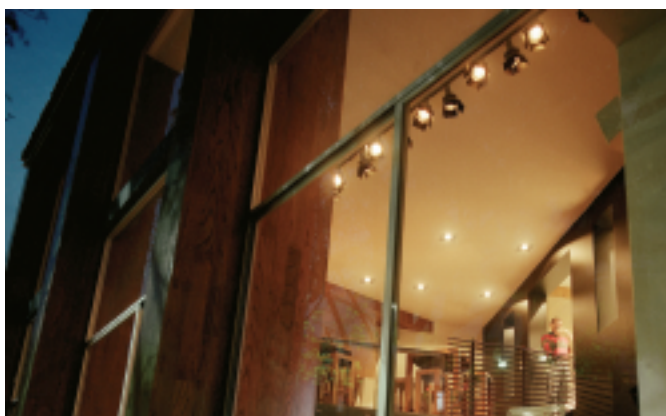
- Halogen light without the need for a transformer
- Unique, patented, computer designed spiral faceted aluminised reflector
- Can be dimmed using standard dimmer switches
- For use in mains voltage ES/E27 cap downlights, spotlights and luminaires
- Use dichroic lamps for lighting food, textiles and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





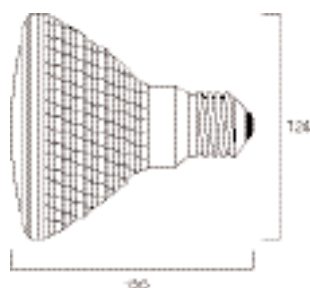



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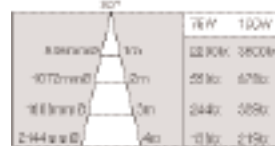
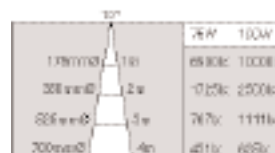


Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty
Hi-Spot 95									
0021230	Hi-Spot 95 75W/SP10°	75W	230V	10°	E27	2900K	6900 cd	3000 hrs	15
0021231	Hi-Spot 95 75W/FL30°	75W	230V	30°	E27	2900K	2200 cd	3000 hrs	15
0021234	Hi-Spot 95 100W/SP10°	100W	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	6900 cd	3000 hrs	15
0021237	Hi-Spot 95 100W/FL30°	100W	240V	30°	E27	2900K	2200 cd	3000 hrs	15
Hi-Spot 95 Dichroic									
0021290	Hi-Spot 95 75W/SP10° DIC	75W	230V	10°	E27	2900K	7500 cd	3000 hrs	15
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
0021292	Hi-Spot 95 75W/SP10° DIC	75W	240V	10°	E27	2900K	7500 cd	3000 hrs	15

Hi-Spot® 120



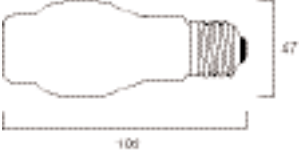
E27



- 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
Hi-Spot 120									
0021140	Hi-Spot 120 75W/SP10°	75W	230V	10°	E27	2900K	6900 cd	3000 hrs	15
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	3500 cd	3000 hrs	15
0021147	Hi-Spot 120 100W/FL30°	100W	240V	30°	E27	2900K	3500 cd	3000 hrs	15

DLX-T  DLX-BTT  E27 	 
• Retrofit for standard incandescent lamps • Gives more light and consumes 20% less energy compared to an equivalent incandescent lamp • Top quality halogen light maintained throughout life of lamp • Double the life compared to GLS incandescent lamps • No handling precautions needed • Universal burning position	



Code	Description	Watt	Volt	Cap	Lamp Finish	Colour Temp	Luminous Flux	Average Rated Life	Packing Qty
DLX-T									
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
DLX-BTT									
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



R7s	Double Ended 78
L	78
D	10
R7s	Double Ended 118
L	118
D	8
R7s	Double Ended 189
L	189
D	12
R7s	Double Ended 254
L	254
D	12
R7s	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
Double Ended 78								
0022780	DE 230V 60W	60W	230V	R7s	2800K	840 lm	2000 hrs	12
0021400	DE 230V 100W	100W	230V	R7s	2900K	1600 lm	2000 hrs	12
0021401	DE 230V 150W	150W	230V	R7s	2900K	2600 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	1600 lm	2000 hrs	12
0021403	DE 240V 150W	150W	240V	R7s	2900K	2600 lm	2000 hrs	12
Double Ended 118								
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	9500 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
Double Ended 189								
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
Double Ended 254								
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
Double Ended 331								
0021629	DE 230V 2000W	2000W	230V	R7s	3000K	44000 lm	2000 hrs	50

CABLE CROSS 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 lamp 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 mm²

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 (mm²) 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

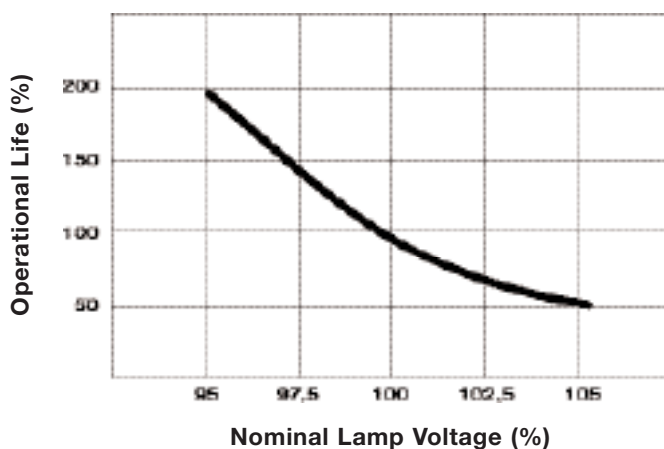
Cable Cross Sections (mm²) for 12V lamps (max. 3.5% Voltage Drop)

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.

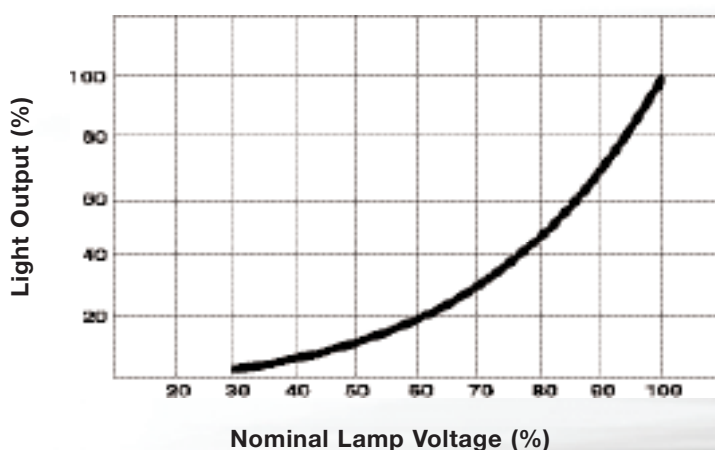


$$LD_2 = LD_1 \left(\frac{U_1}{U_2} \right)^{13}$$

- LD_1 = Lamp life at nominal supply voltage
- LD_2 = Lamp life at varying supply voltage
- U_1 = Nominal lamp voltage
- U_2 = 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_1 = Light output at nominal lamp voltage
- ϕ_2 = Light output at varying supply voltage
- U_1 = Nominal lamp voltage
- U_2 = Deviation from nominal lamp voltage

MICRO-LYNX

Micro-Lynx LED	70
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LED MODULES

LED Bar Modules	71
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LED Round Modules	72
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LED Array	73
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LED Strip Modules 1	74
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LED Strip Modules 4	75
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LED RODS

LED Light Rod	76
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LED Light Cable	77
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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.

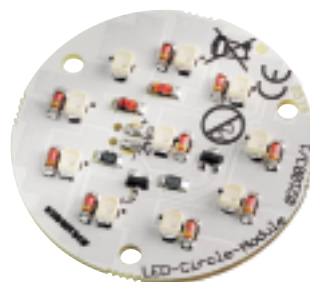
The evolution of this light source is still ongoing, even our well known and established Micro-Lynx F compact fluorescent lamp has been adapted and evolved to become the **Micro-Lynx LED**.



MICRO-LYNX LED



LED BAR MODULES

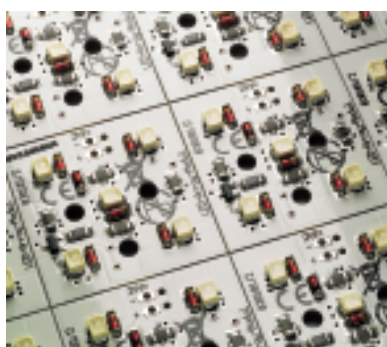


LED ROUND MODULES

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



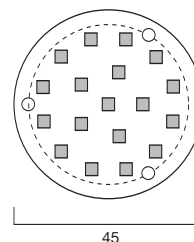
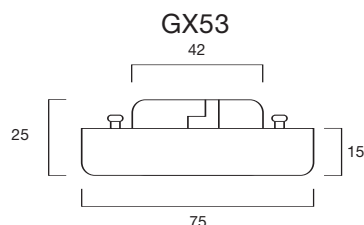
LED STRIP MODULES



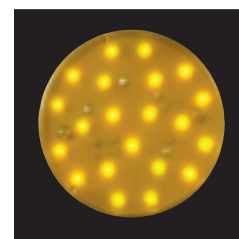
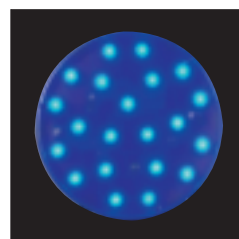
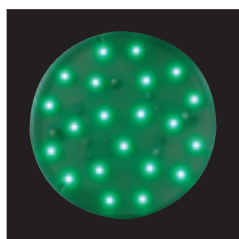
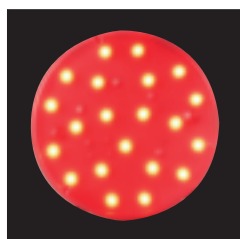
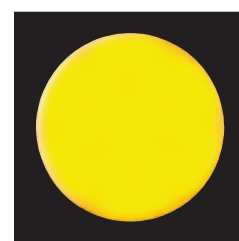
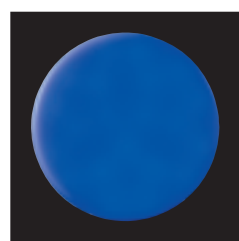
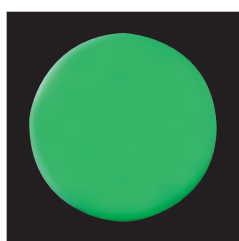
**LED LIGHT ROD &
LED LIGHT CABLE**

Micro-Lynx LED

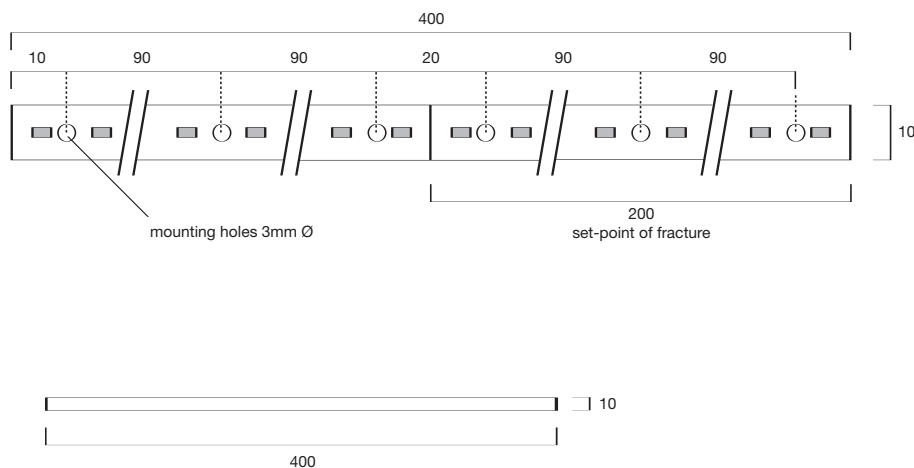
NEW



- 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
Micro-Lynx LED Satin								
0025060	Micro-Lynx LED White Satin	1.5W	230V	GX53	White	Satin	15 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	15 lm	10
0025063	Micro-Lynx LED Blue Satin	1.5W	230V	GX53	Blue	Satin	3 lm	10
0025064	Micro-Lynx LED Yellow Satin	1.5W	230V	GX53	Yellow	Satin	14 lm	10
Micro-Lynx LED Clear								
0025065	Micro-Lynx LED White Clear	1.5W	230V	GX53	White	Clear	25 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	25 lm	10
0025068	Micro-Lynx LED Blue Clear	1.5W	230V	GX53	Blue	Clear	4 lm	10
0025069	Micro-Lynx LED Yellow Clear	1.5W	230V	GX53	Yellow	Clear	25 lm	10



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

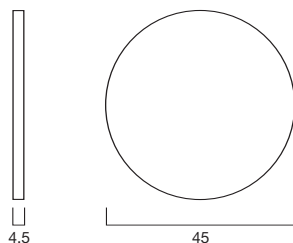
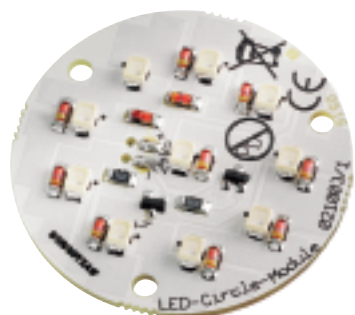


Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Intensity per LED	Packing Qty
LED Bar Modules							
0025070	LED Bar Module 36	24V	160 mA	110°	White	720 mcd	1
0025071	LED Bar Module 36	24V	160 mA	120°	Green	640 mcd	1
0025072	LED Bar Module 36	24V	80 mA	120°	Red	400 mcd	1
0025073	LED Bar Module 36	24V	160 mA	110°	Blue	210 mcd	1
0025074	LED Bar Module 36	24V	80 mA	120°	Yellow	300 mcd	1
0025075	LED Bar Module 36	24V	80 mA	120°	Amber	250 mcd	1

Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
LED Power Supplies							
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 mA	85-264VAC/50-60Hz	170 x 96 x 38.0	1

LED Round Modules

NEW

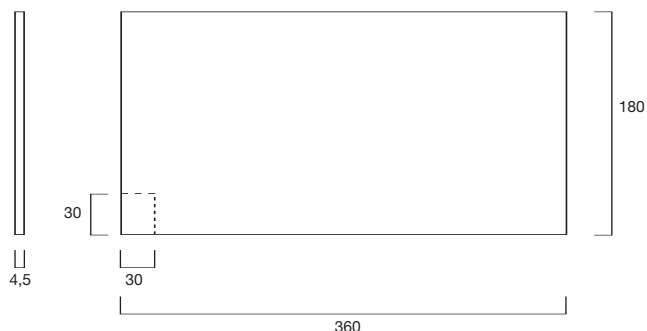


- Extremely thin profile <4,5mm
- Each module consists of 12 LEDs
- Available in 6 vibrant colours
- 24 Volt DC operation
- Not suitable for dimming

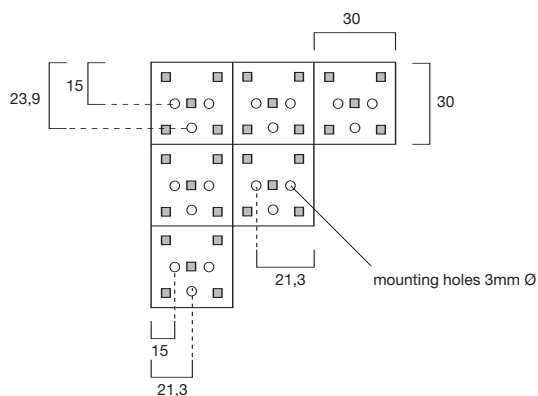
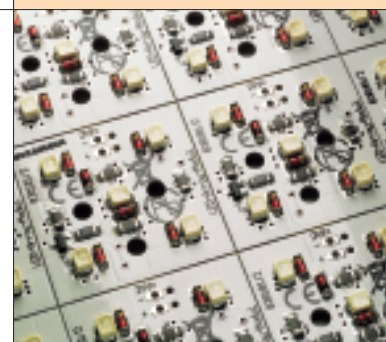


Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Intensity per LED	Packing Qty
LED Round Modules							
0025076	LED Round Module 18/10	24V	40 mA	110°	White	720 mcd	1
0025077	LED Round Module 18/10	24V	40 mA	120°	Green	640 mcd	1
0025078	LED Round Module 18/10	24V	40 mA	120°	Red	400 mcd	1
0025079	LED Round Module 18/10	24V	40 mA	110°	Blue	210 mcd	1
0025080	LED Round Module 18/10	24V	40 mA	120°	Yellow	300 mcd	1
0025081	LED Round Module 18/10	24V	40 mA	120°	Amber	250 mcd	1

Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
LED Power Supplies							
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 mA	85-264VAC/50-60Hz	170 x 96 x 38.0	1



- Extremely thin profile <4,5mm
- LED Array consists of 648 LEDs
- 6 x 12 interconnected modules divisible into any possible shape
- Available in 6 vibrant colours
- 24 Volt DC operation
- Not suitable for dimming

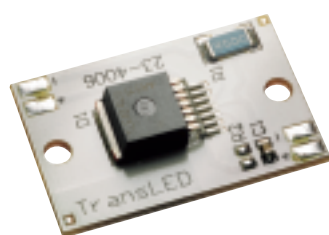
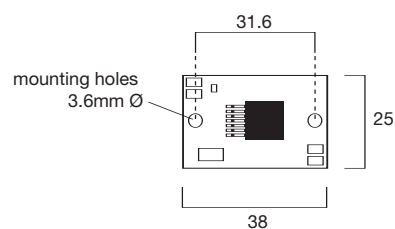
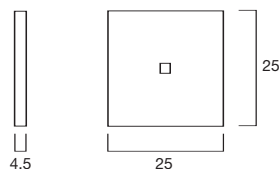
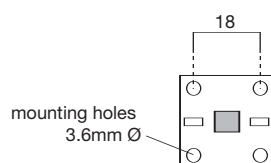


Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Intensity per LED	Packing Qty
LED Array							
0025082	LED Array 6 x 12 5/9	24V	1440 mA	110°	White	720 mcd	1
0025083	LED Array 6 x 12 5/9	24V	1440 mA	120°	Green	640 mcd	1
0025084	LED Array 6 x 12 5/9	24V	1440 mA	120°	Red	400 mcd	1
0025085	LED Array 6 x 12 5/9	24V	1440 mA	110°	Blue	210 mcd	1
0025086	LED Array 6 x 12 5/9	24V	1440 mA	120°	Yellow	300 mcd	1
0025087	LED Array 6 x 12 5/9	24V	1440 mA	120°	Amber	250 mcd	1

Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
LED Power Supplies							
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 mA	85-264VAC/50-60Hz	170 x 96 x 38.0	1

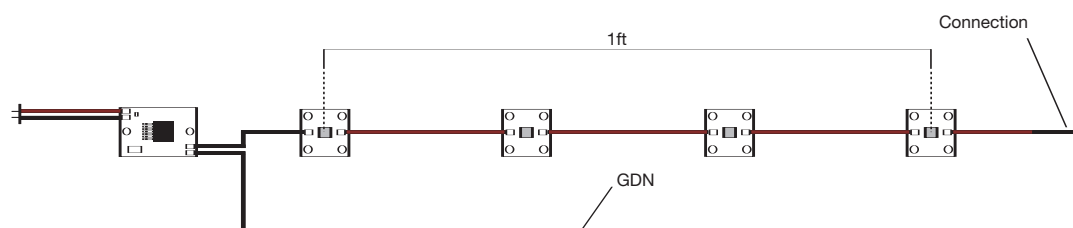
LED Strip Modules 1

NEW



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
- 12 Volt DC operation
- Not suitable for dimming

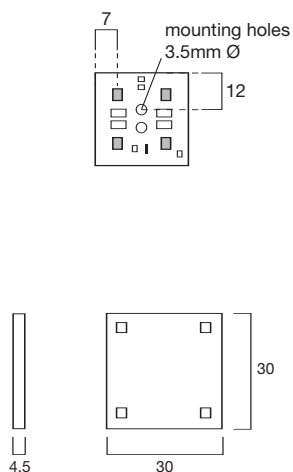


Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Intensity per LED	Packing Qty
LED Strip Modules 1							
0025088	LED Strip Modules 1	24V	350 mA	120°	Red	230 mcd	60/4,92m
0025089	LED Strip Modules 1	24V	350 mA	120°	Orange	230 mcd	60/4,92m
0025090	LED Strip Modules 1	24V	350 mA	120°	Yellow	230 mcd	60/4,92m
0025091	LED Strip Modules 1	24V	350 mA	120°	Green	310 mcd	60/4,92m
0025092	LED Strip Modules 1	24V	350 mA	120°	Cyan	310 mcd	60/4,92m
0025093	LED Strip Modules 1	24V	350 mA	120°	Blue	100 mcd	60/4,92m
0025094	LED Strip Modules 1	24V	350 mA	120°	White	360 mcd	60/4,92m

LED Strip DC/DC Driver

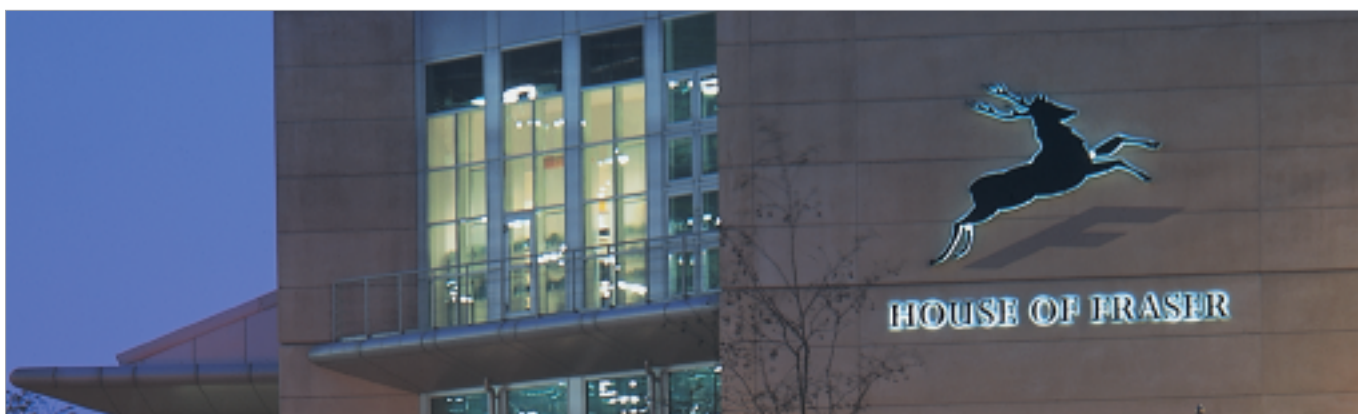
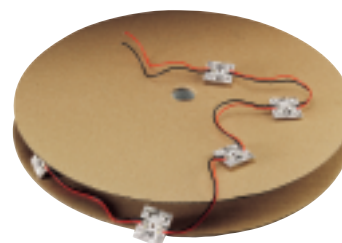
0025095	LED Strip DC/DC Driver	24V	–	–	–	–	50
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Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
LED Power Supplies							
0025114	LED Module Power Supply	5W	24VDC	200 mA	85-264VAC/47-440Hz	47 x 45 x 30.5	1
0025120	LED Module Power 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 mA	85-264VAC/50-60Hz	170 x 96 x 38.0	1



universal

- Four high brightness LEDs per PCB
- Supplied on a 4,92m reel with 45 modules total
- No separate driver required
- Available in 7 vibrant colours
- 24 Volt DC operation
- Not suitable for dimming



Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Intensity per LED	Packing Qty
LED Strip Modules 4							
0025096	LED Strip Modules 4	12V	80 mA	120°	Red	50 mcd	45/4,92m
0025097	LED Strip Modules 4	12V	80 mA	120°	Orange	75 mcd	45/4,92m
0025098	LED Strip Modules 4	12V	80 mA	120°	Yellow	75 mcd	45/4,92m
0025099	LED Strip Modules 4	12V	80 mA	120°	Green	60 mcd	45/4,92m
0025100	LED Strip Modules 4	12V	80 mA	120°	Cyan	60 mcd	45/4,92m
0025101	LED Strip Modules 4	12V	80 mA	120°	Blue	15 mcd	45/4,92m
0025102	LED Strip Modules 4	12V	80 mA	120°	White	15 mcd	45/4,92m

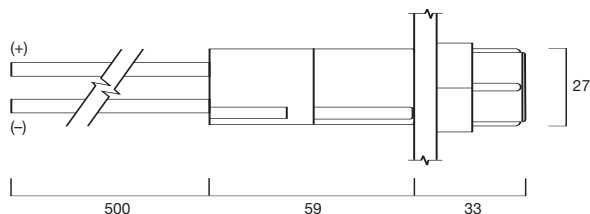
Code	Description	Watt	Volt	Current	Input VAC	L x W x H	Packing Qty
LED Power Supplies							
0025117	LED Strip 4 Power Supply	10W	12VDC	833 mA	85-264VAC/47-440Hz	64 x 45 x 30.5	1
0025118	LED Strip 4 Power Supply	60W	12VDC	6.0 mA	85-264VAC/50-60Hz	170 x 96 x 38.0	1

LED Light Rod

NEW



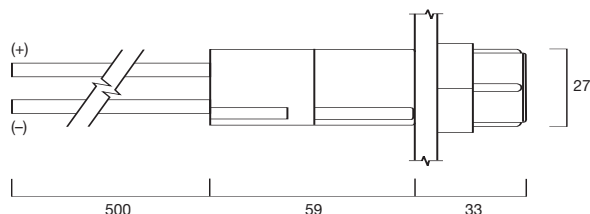
universal



- Equipped with high-power LED
- Temperature range -40°C to +80°C
- Formable in all directions under heat into almost every desired shape
- Extremely even illumination over the total length at 60° viewing angle
- Co-extruded reflector on a PMMA core
- Available in 5 vibrant colours



Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
LED Light Rod							
0025103	LED Light Rod	5.75V	0.87 A	40°	Red	93 lm	1
0025104	LED Light Rod	6.00V	0.83 A	40°	Amber	93 lm	1
0025105	LED Light Rod	10.5V	0.48 A	40°	Green	87 lm	1
0025106	LED Light Rod	10.5V	0.48 A	40°	Blue	25 lm	1
0025107	LED Light Rod	11.0V	0.45 A	40°	White	122 lm	1
LED Power Supply							
0025119	LED Light Cable Power Supply						1



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



Code	Description	Volt	Current	Viewing Angle	LED Colour	Luminous Flux	Packing Qty
LED Light Cable							
0025109	LED Light Cable	5.75V	0.87 A	360°	Red	93 lm	1
0025110	LED Light Cable	6.00V	0.83 A	360°	Amber	93 lm	1
0025111	LED Light Cable	10.5V	0.48 A	360°	Green	87 lm	1
0025112	LED Light Cable	10.5V	0.48 A	360°	Blue	25 lm	1
0025113	LED Light Cable	11.0V	0.45 A	360°	White	122 lm	1
LED Power Supply							
0025119	LED Light Cable Power Supply						1



MICRO-LYNX LAMPS

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MINI-LYNX LAMPS

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Mini-Lynx Economy	86
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Mini-Lynx Ambience	89

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MANUFACTURER'S LAMP CROSS REFERENCE

Sylvania	Osram	Philips	GE
Micro-Lynx F	–	–	–
Mini-Lynx Long Life Double	DULUX EL	PL E-C PRO	–
Mini-Lynx Long Life Triple	DULUX EL	PL E-T PRO	Self-Ballasted Triple Biax
Mini-Lynx Economy	DULUX EL ECONOMY	–	–
Mini-Lynx Automatic	DULUX EL SENSOR	–	–
Mini-Lynx Candle	DULUX EL CLASSIC	–	Self-Ballasted Candle Shape
Mini-Lynx Ambience	DULUX EL CLASSIC	AMBIANCE PRO A-shape	Self-Ballasted A-Line Shape
Lynx-S	DULUX S	PL-S 2 Pins	2-Pin Biax
Lynx-SE	DULUX S/E	PL-S 4 Pins	–
Lynx-D	DULUX D	PL-C 2 Pins	2-Pin Double Biax
Lynx-DE	DULUX D/E	PL-C 4 Pins	4-Pin Double Biax
Lynx-T	DULUX T	PL-T 2 Pins	–
Lynx-TE	DULUX T/E	PL-T 4 Pins	4-Pin Triple Biax
Lynx-L	DULUX L	PL-L 4 Pins	4-Pin High Lumen Biax
Lynx-LE	DULUX L	PL-L 4 Pins	4-Pin High Lumen Biax
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**, 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



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 the time has come to introduce the next generation of Micro-Lynx F lamps. The new Micro-Lynx F has improved luminous efficacy and is also available in a Homelight Deluxe (2700K) variant.



LYNX-S



LYNX-T



LYNX-D

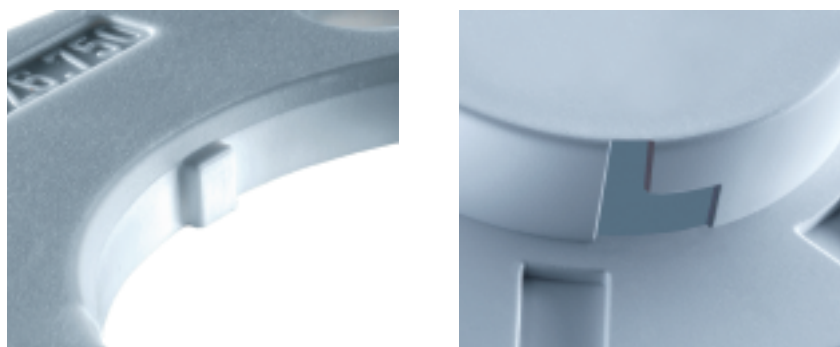
Micro-Lynx F Second Generation

NEW

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

The NEW second generation unit now has improved luminous efficacy operating at 6W whilst maintaining the 220 lumen output.

In addition to the original Warm White Deluxe (3000K) and Cool White Deluxe (4000K) colour temperatures, Micro-Lynx F is now also available in Homelight Deluxe (2700K) with colour rendering – Ra85/Class 1B. Three additional colour versions red, green and blue complete the range. Average rated life: 6000 hours.



Integrated twist and lock safety key

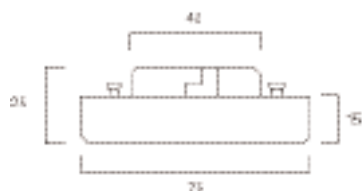
To improve locating the lamp within the lampholder, the original GX53 (IEC 60061) 'twist-and-lock' base has also been subject to improvement, incorporating a safety key feature ensuring the lamp always engages correctly.

The interchangeable universal burning Micro-Lynx F units have a built in control gear operating on mains supply input voltage 230-240V saving space and installation time.

The development of Micro-Lynx F has been taken a stage further with its' evolution into the Micro-Lynx LED – 21 state of the art LEDs and integrated electronic converter.

Refer to LED section Page 70.

GX53



- Ultra compact size – 75mm wide x 25mm depth
- Colour rendering – Ra85/Class 1B
- Integrated twist and lock safety key
- Integral electronic ballast
- Also available in Red, Green and Blue
- Average rated life: 6000 hours

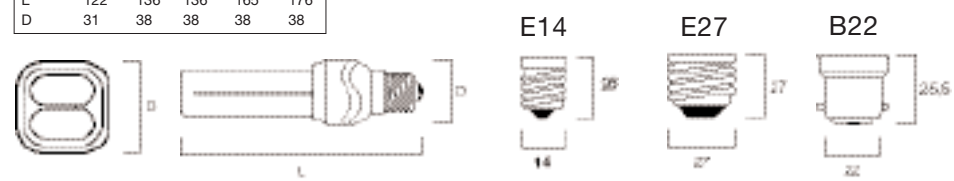


Code	Description	Watt	Cap	Colour	Colour Temp	Luminous Flux	Packing Qty
Micro-Lynx F Homelight Deluxe (827)							
0025214	Micro-Lynx F	6W	GX53	White	2700K	220 lm	20
Micro-Lynx F Warm White Deluxe (830)							
0025218	Micro-Lynx F	6W	GX53	White	3000K	220 lm	20
Micro-Lynx F Cool White Deluxe (840)							
0025219	Micro-Lynx F	6W	GX53	White	4000K	220 lm	20
Micro-Lynx F Colours							
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 Long Life Double



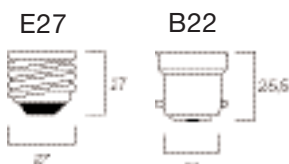
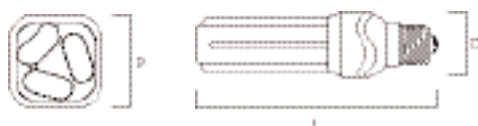
E14		5W	7W	11W	15W	20W
L	129	129	129	-	-	-
D	31	38	38	-	-	-
E27		5W	7W	11W	15W	20W
L	124	138	138	167	178	
D	31	38	38	38	38	
B22		5W	7W	11W	15W	20W
L	122	136	136	165	176	
D	31	38	38	38	38	



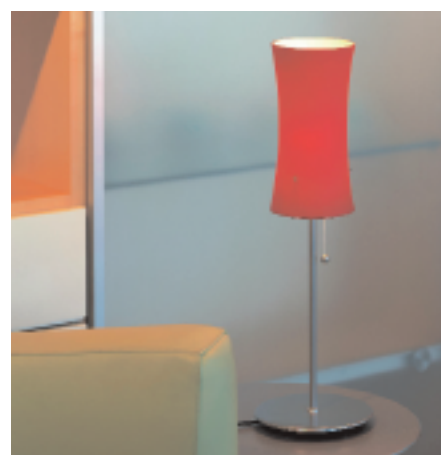
- Direct retrofit for most GLS lamps
- Integral electronic ballast
- High lumen output
- Available with E14, E27 or B22 cap
- Suitable for exterior security lighting in covered luminaires
- Average rated life: 15000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Mini-Lynx Long Life Double Homelight Deluxe (827)						
0027740	5W/E14	5W	E14	2700K	250 lm	10
0027744	5W/E27	5W	E27	2700K	250 lm	10
0027746	5W/B22	5W	B22	2700K	250 lm	10
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
0027742	11W/E14	11W	E14	2700K	600 lm	10
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
Mini-Lynx Long Life Double Daylight Deluxe (860)						
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
0025931	11W/B22	11W	B22	6000K	600 lm	20
0025506	15W/E27	15W	E27	6000K	900 lm	20
0025932	15W/B22	15W	B22	6000K	900 lm	20
0025507	20W/E27	20W	E27	6000K	1250 lm	20
0025933	20W/B22	20W	B22	6000K	1250 lm	20

E27	15W	20W	23W
L	137	155	166
D	50	50	50
B22	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

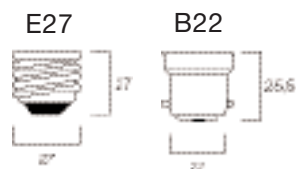
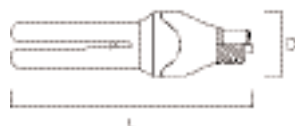


Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Mini-Lynx Long Life Triple Homelight Deluxe (827)						
0027600	15W/E27	15W	E27	2700K	900 lm	10
0027606	15W/B22	15W	B22	2700K	900 lm	10
0027601	20W/E27	20W	E27	2700K	1250 lm	10
0027607	20W/B22	20W	B22	2700K	1250 lm	10
0027602	23W/E27	23W	E27	2700K	1500 lm	10
0027608	23W/B22	23W	B22	2700K	1500 lm	10
Mini-Lynx Long Life Double Daylight Deluxe (860)						
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



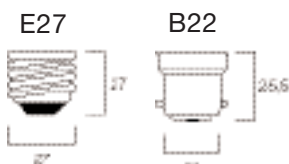
E27	9W	11W	15W	18W
L	138	138	167	178
D	38	38	38	38
B22	9W	11W	15W	18W
L	136	136	165	176
D	38	38	38	38



- Cost effective range of energy saving lamps
- Integral electronic ballast
- High lumen output
- Small dimensions
- Direct retrofit for GLS lamps
- Average rated life: 8000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Mini-Lynx Economy Homelight Deluxe (827)						
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
Mini-Lynx Economy Cool White Deluxe (840)						
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
Mini-Lynx Economy Daylight Deluxe (860)						
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

E27	11W	15W
L	138	167
D	38	38
B22	11W	15W
L	136	165
D	38	38



- With its light sensitive, integral photocell, Mini-Lynx Automatic comes on automatically at dusk and goes off again at dawn
- High lumen output
- Compact dimensions
- For professional and domestic use
- Suitable for exterior lighting in covered luminaires
- Average rated life: 12000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Mini-Lynx Automatic Homelight Deluxe (827)						
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 Candle



E14	3W	5W	7W
L	112	112	125
D	42	42	44



E27

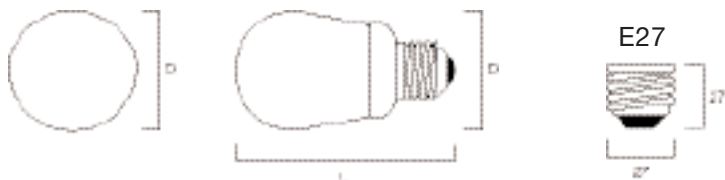


- Lasts up to 6 times longer, using up to 80% less energy than incandescent candle lamps
- An energy saving lamp that looks like an incandescent lamp
- Integral electronic ballast
- Soft glow natural light
- Direct replacement for incandescent candle lamps
- Average rated life: 6000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Mini-Lynx Candle Homelight Deluxe (827)						
0025500	3W/E14	3W	E14	2700K	60 lm	10
0025501	5W/E14	5W	E14	2700K	125 lm	10
0026466	7W/E14	7W	E14	2700K	200 lm	10

E27	7W	11W	15W	20W
L	116	127	145	151
D	60	60	72	75



- Lasts up to 6 times longer, using 80% less energy than incandescent GLS lamp
- An energy saving lamp that looks like an incandescent GLS lamp
- Integral electronic ballast
- Soft glow natural light
- Direct replacement for incandescent lamps
- Average rated life: 6000 hours

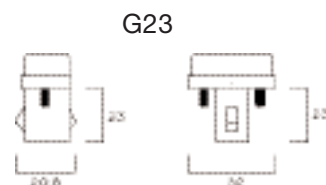


Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Mini-Lynx Ambience Homelight Deluxe (827)						
0024961	7W/E27	7W	E27	2700K	360 lm	10
0024962	11W/E27	11W	E27	2700K	550 lm	10
0024963	15W/E27	15W	E27	2700K	820 lm	10
0024964	20W/E27	20W	E27	2700K	1100 lm	10

Lynx-S



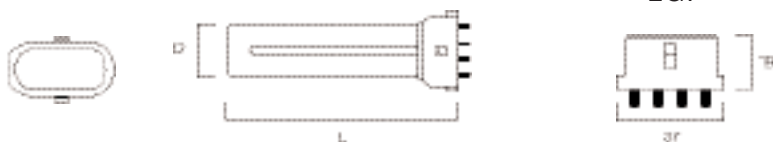
G23	5W	7W	9W	11W
L	105	134	165	233
D	28	28	28	28



- 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: 10000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-S Homelight Deluxe (827)						
0025206	5W/827	5W	G23	2700K	250 lm	50
0025200	7W/827	7W	G23	2700K	420 lm	50
0025201	9W/827	9W	G23	2700K	600 lm	50
0025202	11W/827	11W	G23	2700K	900 lm	50
Lynx-S Warm White Deluxe (830)						
0025449	5W/830	5W	G23	3000K	250 lm	50
0025450	7W/830	7W	G23	3000K	420 lm	50
0025451	9W/830	9W	G23	3000K	600 lm	50
0025452	11W/830	11W	G23	3000K	900 lm	50
Lynx-S Cool White Deluxe (840)						
0025600	5W/840	5W	G23	4000K	250 lm	50
0025601	7W/840	7W	G23	4000K	420 lm	50
0025602	9W/840	9W	G23	4000K	600 lm	50
0025603	11W/840	11W	G23	4000K	900 lm	50
Lynx-S Daylight Deluxe (860)						
0025604	7W/860	7W	G23	6000K	420 lm	50
0025605	9W/860	9W	G23	6000K	600 lm	50
0025606	11W/860	11W	G23	6000K	900 lm	50

2G7	5W	7W	9W	11W
L	85	115	145	215
D	28	28	28	28



- U shaped tubes and a 4 pin base without starter or capacitor
- Excellent colour rendering – Ra85/Class 1B
- To be operated on electronic ballast only
- Suitable for emergency lighting
- Average rated life: 10000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-SE Homelight Deluxe (827)						
0025623	5W/827	5W	2G7	2700K	250 lm	50
0025624	7W/827	7W	2G7	2700K	420 lm	50
0025201	9W/827	9W	2G7	2700K	600 lm	50
0025202	11W/827	11W	2G7	2700K	900 lm	50
Lynx-SE Warm White Deluxe (830)						
0025449	5W/830	5W	2G7	3000K	250 lm	50
0025450	7W/830	7W	2G7	3000K	420 lm	50
0025451	9W/830	9W	2G7	3000K	600 lm	50
0025452	11W/830	11W	2G7	3000K	900 lm	50
Lynx-SE Cool White Deluxe (840)						
0025614	5W/840	5W	2G7	4000K	250 lm	50
0025627	7W/840	7W	2G7	4000K	420 lm	50
0025628	9W/840	9W	2G7	4000K	600 lm	50
0025629	11W/840	11W	2G7	4000K	900 lm	50
Lynx-SE Daylight Deluxe (860)						
0025604	7W/860	7W	2G7	6000K	420 lm	50
0025605	9W/860	9W	2G7	6000K	600 lm	50
0025606	11W/860	11W	2G7	6000K	900 lm	50

Lynx-D

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G24d	10W	13W	18W	26W												
L	87	115	129	147												
D	35	35	35	35												
	● Two U shaped tubes and a 2 pin base which incorporates the starter and capacitor ● Excellent colour rendering – Ra85/Class 1B ● For use with magnetic ballast ● Uses considerably less power and last up to 10 times longer than incandescent lamps ● Average rated life: 10000 hours															

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-D Homelight Deluxe (827)						
0025210	10W/827	10W	G24d-1	2700K	600 lm	50
0025211	13W/827	13W	G24d-1	2700K	900 lm	50
0025150	18W/827	18W	G24d-2	2700K	1200 lm	50
0025154	26W/827	26W	G24d-3	2700K	1800 lm	50
Lynx-D Warm White Deluxe (830)						
0025395	10W/830	10W	G24d-1	3000K	600 lm	50
0025396	13W/830	13W	G24d-1	3000K	900 lm	50
0025151	18W/830	18W	G24d-2	3000K	1200 lm	50
0025155	26W/830	26W	G24d-3	3000K	1800 lm	50
Lynx-D White Deluxe (835)						
0028304	10W/835	10W	G24d-1	3500K	600 lm	50
0028305	13W/835	13W	G24d-1	3500K	900 lm	50
0028306	18W/835	18W	G24d-2	3500K	1200 lm	50
0028307	26W/835	26W	G24d-3	3500K	1800 lm	50
Lynx-D Cool White Deluxe (840)						
0025382	10W/840	10W	G24d-1	4000K	600 lm	50
0025383	13W/840	13W	G24d-1	4000K	900 lm	50
0025152	18W/840	18W	G24d-2	4000K	1200 lm	50
0025156	26W/840	26W	G24d-3	4000K	1800 lm	50
Lynx-D Daylight Deluxe (860)						
0025455	10W/860	10W	G24d-1	6000K	600 lm	50
0025456	13W/860	13W	G24d-1	6000K	900 lm	50
0025153	18W/860	18W	G24d-2	6000K	1200 lm	50
0025157	26W/860	26W	G24d-3	6000K	1800 lm	50

G24d	10W	13W	18W	26W
L	87	115	129	147
D	35	35	35	35



G24q



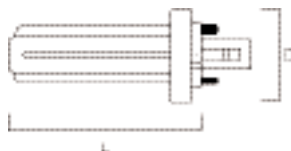
- Two U shaped tubes and a 4 pin base without starter or capacitor
- Excellent colour rendering – Ra85/Class 1B
- To be operated on electronic ballast only
- Suitable for emergency lighting
- Average rated life: 10000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-DE Homelight Deluxe (827)						
0025916	10W/827	10W	G24q-1	2700K	600 lm	10
0025159	10W/827	10W	G24q-1	2700K	600 lm	50
0025917	13W/827	13W	G24q-1	2700K	900 lm	10
0025160	13W/827	13W	G24q-1	2700K	900 lm	50
0025918	18W/827	18W	G24q-2	2700K	1200 lm	10
0025140	18W/827	18W	G24q-2	2700K	1200 lm	50
0025919	26W/827	26W	G24q-3	2700K	1800 lm	10
0025143	26W/827	26W	G24q-3	2700K	1800 lm	50
Lynx-DE Warm White Deluxe (830)						
0025920	10W/830	10W	G24q-1	3000K	600 lm	10
0028022	10W/830	10W	G24q-1	3000K	600 lm	50
0025921	13W/830	13W	G24q-1	3000K	900 lm	10
0028023	13W/830	13W	G24q-1	3000K	900 lm	50
0025922	18W/830	18W	G24q-2	3000K	1200 lm	10
0028024	18W/830	18W	G24q-2	3000K	1200 lm	50
0025923	26W/830	26W	G24q-3	3000K	1800 lm	10
0028025	26W/830	26W	G24q-3	3000K	1800 lm	50
Lynx-DE White Deluxe (835)						
0028018	10W/835	10W	G24q-1	3500K	600 lm	50
0028019	13W/835	13W	G24q-1	3500K	900 lm	50
0028020	18W/835	18W	G24q-2	3500K	1200 lm	50
0028021	26W/835	26W	G24q-3	3500K	1800 lm	50
Lynx-DE Cool White Deluxe (840)						
0025924	10W/840	10W	G24q-1	4000K	600 lm	10
0025161	10W/840	10W	G24q-1	4000K	600 lm	50
0025925	13W/840	13W	G24q-1	4000K	900 lm	10
0025162	13W/840	13W	G24q-1	4000K	900 lm	50
0025926	18W/840	18W	G24q-2	4000K	1200 lm	10
0025141	18W/840	18W	G24q-2	4000K	1200 lm	50
0025927	26W/840	26W	G24q-3	4000K	1800 lm	10
0025144	26W/840	26W	G24q-3	4000K	1800 lm	50
Lynx-DE Daylight Deluxe (860)						
0025163	10W/860	10W	G24q-1	6000K	600 lm	50
0025164	13W/860	13W	G24q-1	6000K	900 lm	50
0025142	18W/860	18W	G24q-2	6000K	1200 lm	50
0025145	26W/860	26W	G24q-3	6000K	1800 lm	50

Lynx-T



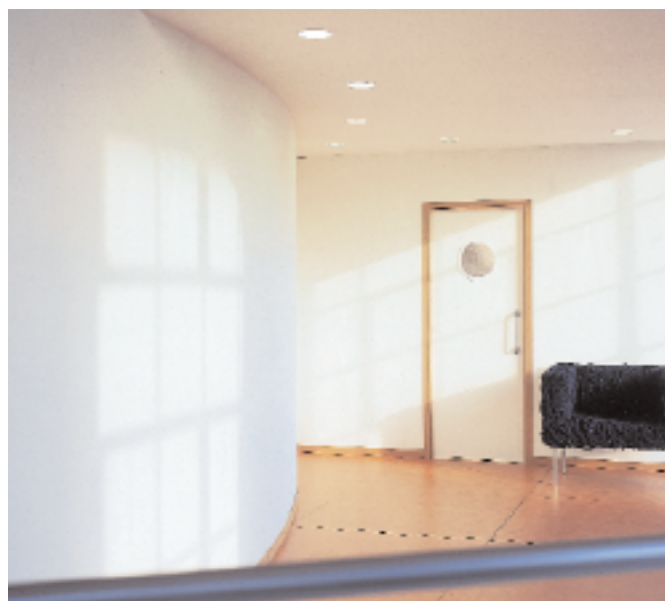
GX24d	18W	26W
L	97	112
D	49	49



GX24d

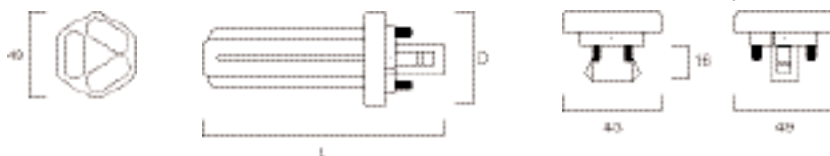


- Multi-limbed compact fluorescent lamps
- Excellent colour rendering – Ra85/Class 1B
- For use with magnetic ballast
- Average rated life: 10000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-T Homelight Deluxe (827)						
0027800	18W/827	18W	GX24d-2	2700K	1200 lm	10
0027810	26W/827	26W	G24d-3	2700K	1800 lm	10
Lynx-T Warm White Deluxe (830)						
0027801	18W/830	18W	GX24d-2	3000K	1200 lm	10
0027811	26W/830	26W	GX24d-3	3000K	1800 lm	10
Lynx-T Cool White Deluxe (840)						
0027802	18W/840	18W	GX24d-2	4000K	1200 lm	10
0027812	26W/840	26W	GX24d-3	4000K	1800 lm	10

GX24q	18W	26W	32W	42W
L	97	112	128	149
D	49	49	49	49



- Particularly suitable for use in the new generation of ultra compact fluorescent downlights and luminaires
- Amalgam technology ensures consistent colour and high output throughout life
- Excellent colour rendering – Ra85/Class 1B
- To be operated on electronic ballasts only
- Suitable for emergency lighting
- Average rated life: 10000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-TE Homelight Deluxe (827)						
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
Lynx-TE Warm White Deluxe (830)						
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
Lynx-TE Cool White Deluxe (840)						
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

Lynx-L



2G11	18W	24W	36W
L	225	320	415
D	38	38	38

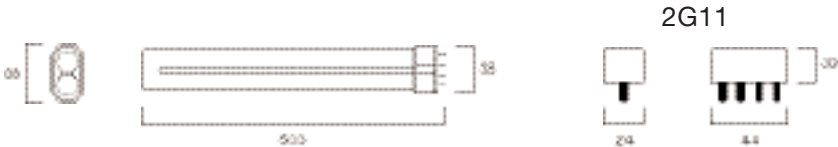


2G11



- Excellent colour rendering – Ra85/Class 1B
- 4-pin 2G11 cap without starter or capacitor
- Suitable for use in modular ceiling luminaires – 300 x 300mm or 600 x 600mm
- To be used with magnetic ballast with remote starter and capacitor or on electronic ballast
- Dimmable with suitable ballast
- Average rated life: 10,000 hours

Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-L Homelight Deluxe (827)						
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
Lynx-L Warm White Deluxe (830)						
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
Lynx-L White Deluxe (835)						
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
Lynx-L Cool White Deluxe (840)						
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
Lynx-L Daylight Deluxe (860)						
0025685	18W/860	18W	2G11	6000K	1200 lm	10
0025686	24W/860	24W	2G11	6000K	1800 lm	10
0025687	36W/860	36W	2G11	6000K	2900 lm	10

 2G11	 
• Excellent colour rendering – Ra85/Class 1B • 4-pin 2G11 cap without starter or capacitor • Suitable for use in modular ceiling luminaires – 300 x 300mm or 600 x 600mm • To be used with electronic ballast only • Dimmable with suitable ballast • Average rated life: 10000 hours	

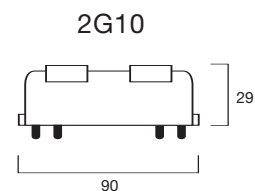
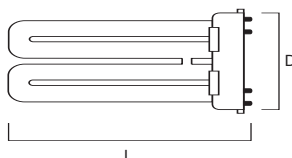


Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-LE Homelight Deluxe (827)						
0025460	40W/827	40W	2G11	2700K	3500 lm	10
0025463	55W/827	55W	2G11	2700K	4800 lm	10
Lynx-LE Warm White Deluxe (830)						
0025461	40W/830	40W	2G11	3000K	3500 lm	10
0025464	55W/830	55W	2G11	3000K	4800 lm	10
Lynx-LE White Deluxe (835)						
0027914	40W/835	40W	2G11	3500K	3500 lm	10
0027916	55W/835	55W	2G11	3500K	4800 lm	10
Lynx-LE Cool White Deluxe (840)						
0025462	40W/840	40W	2G11	4000K	3500 lm	10
0025465	55W/840	55W	2G11	4000K	4800 lm	10
Lynx-LE Daylight Deluxe (860)						
0025688	40W/860	40W	2G11	6000K	3500 lm	10
0025689	55W/860	55W	2G11	6000K	4800 lm	10

Lynx-F



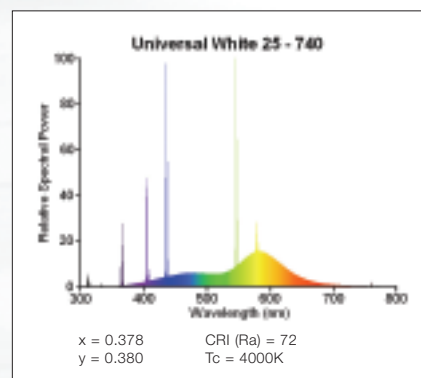
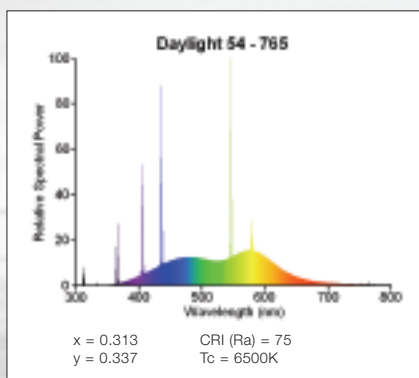
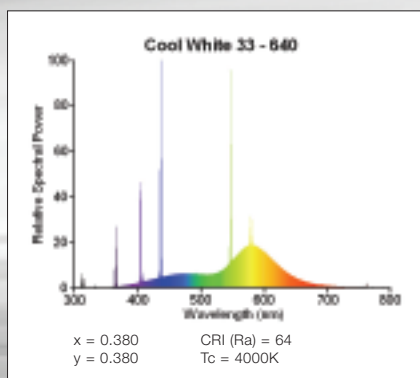
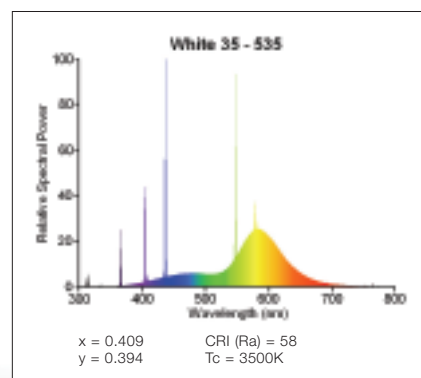
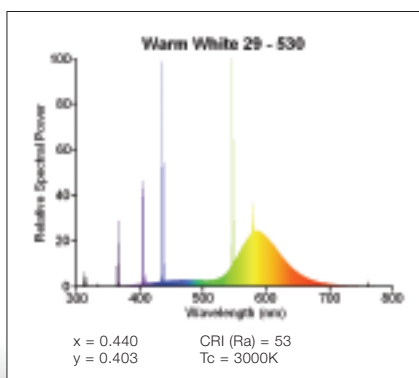
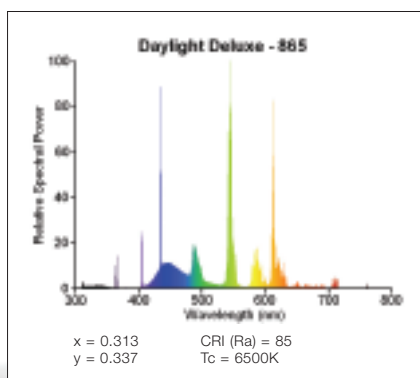
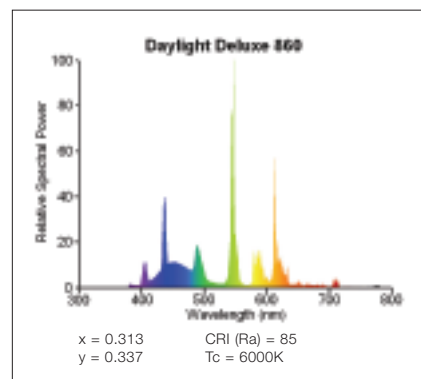
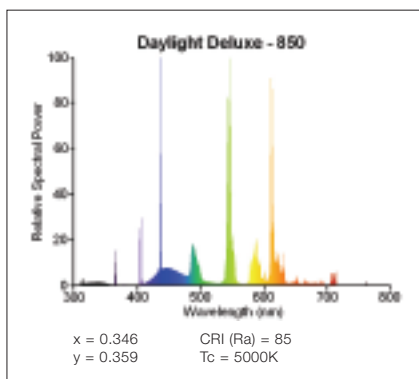
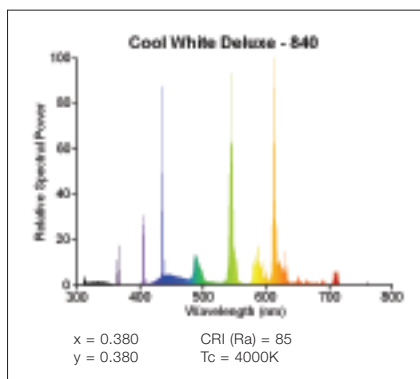
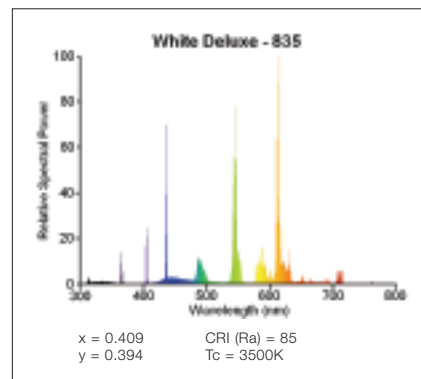
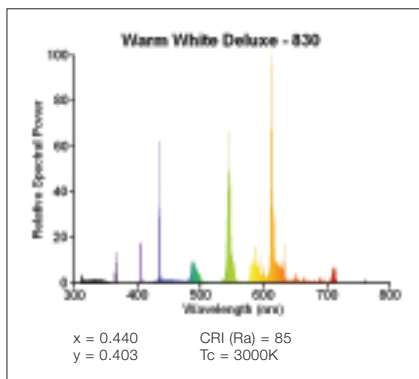
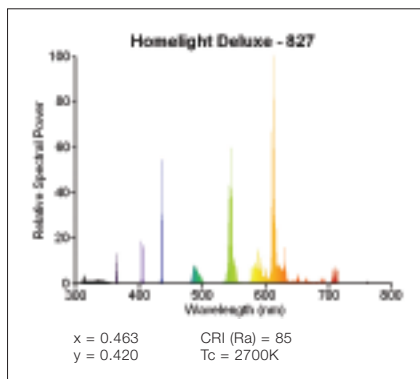
2G10	18W	24W	36W
L	122	165	217
D	79	79	79



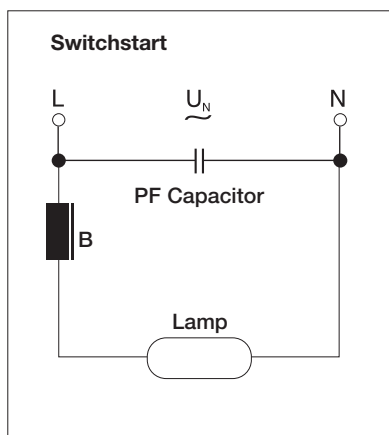
- Multi-limbed compact fluorescent lamps
- Half the length of corresponding L types, yet higher light output
- Very good colour rendering – Ra85/Class 1B
- Ideal for small, flat luminaires for wall and ceiling mounting
- To be used with conventional, magnetic or electronic ballast
- Average rated life: 10000 hours



Code	Description	Watt	Cap	Colour Temp	Luminous Flux	Packing Qty
Lynx-F Homelight Deluxe (827)						
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
Lynx-F Warm White Deluxe (830)						
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
Lynx-F Cool White Deluxe (840)						
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

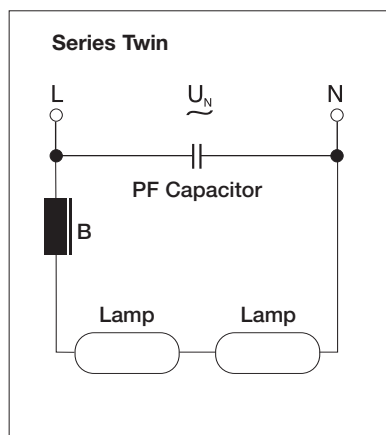


Circuit Diagrams



SWITCHSTART

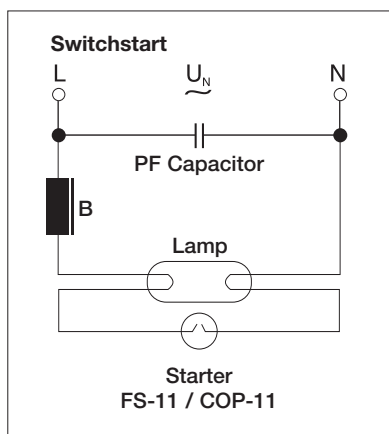
with conventional ballast
 Lynx-S 5W, 7W, 9W, 11W
 Lynx-D 10W, 13W, 18W, 26W
 Lynx-T 18W, 26W



SERIES TWIN

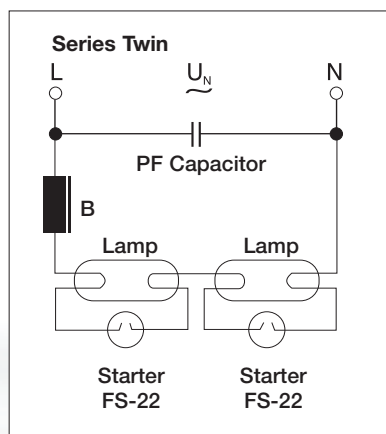
with conventional ballast
 Lynx-S 5W, 7W, 9W

L = External conductor L_1, L_2, L_3
 N = Median conductor MP
 U_n = Power supply 230V
 B = Ballast



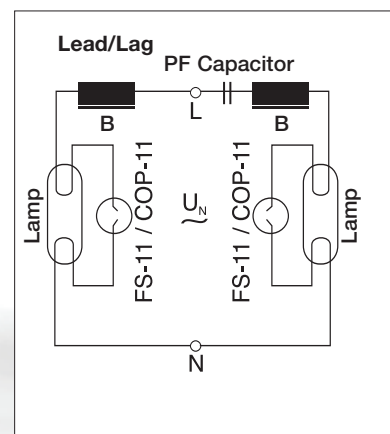
SWITCHSTART

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

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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
Biolux
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-D U
TL-RS
TL-M RS
–
TL-E Standard
–
TL-D Shoplight

GE

T5 Starcoat HE
T5 Starcoat HO
T5 Miniature Standard
T5 Miniature Polylux
T8 Standard
T8 Polylux
–
T8 Cov-R-Guard Polylux
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 20000 hours allows longer replacement intervals which has a positive impact to your maintenance cost.

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

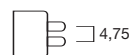
T5 FHE Luxline Plus



G5

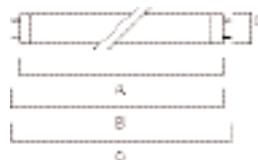


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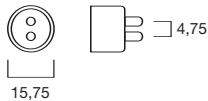
	A max	B min	B max	C max	D nom
14W	549	553.7	556.1	563.2	16
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16



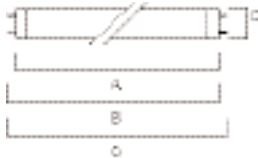
- T5 FHE Luxline Plus triphosphor lamp ideal solution for new, slim, aesthetic luminaires
- High lumen efficacy of up to 104 lm/W.
- Energy savings of up to 25% compared to a T8 tube
- For electronic ballast operation only (see Luxlinetronic ballast pages 135-137)
- Optimum luminous flux at an ambient temperature of approx 35°C
- Almost constant lumen maintenance throughout the entire lamp life due to Luxline Plus triphosphor technology

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux nominal at 25°	Luminous Flux max at 34-38°	Packing Qty
T5 FHE Luxline Plus Warm White De Luxe (830)											
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
T5 FHE Luxline Plus White De Luxe (835)											
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
T5 FHE Luxline Plus Cool White De Luxe (840)											
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
T5 FHE Luxline Plus Daylight De Luxe (865)											
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

G5



	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

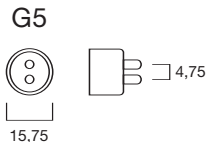


- The T5 FHO Luxline Plus triphosphor lamp is the ideal solution for indirect and direct lighting, i.e. industrial lighting systems with high ceilings
- For applications where a high luminous flux is required (up to 7000 lm per lamp)
- High colour rendering (Ra85/Class 1B)
- For electronic ballast operation only (see Luxlinetronic ballast pages 135-137)
- Optimum luminous flux at an ambient temperature of approx 35°C

Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux nominal at 25°	Luminous Flux max at 34-38°	Packing Qty
T5 FHO Luxline Plus Warm White De Luxe (830)											
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
T5 FHO Luxline Plus White De Luxe (835)											
0002791	FHO 24W/835	24W	77V	0.295A	549mm	1B	G5	3500K	1700 lm	2000 lm	25
0002792	FHO 39W/835	39W	118V	0.325A	849mm	1B	G5	3500K	3220 lm	3500 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
T5 FHO Luxline Plus Cool White De Luxe (840)											
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
T5 FHO Luxline Plus Daylight De Luxe (865)											
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



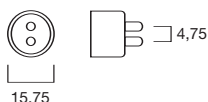



	A max	B min	B max	C max	D nom
4W	135.9	140.6	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
13W	516.9	521.6	524.0	531.1	16

- 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
T5 Standard Warm White (29-530)										
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
T5 Standard Cool White (33-640)										
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
T5 Standard White (35-535)										
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
T5 Standard Daylight (54-765)										
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
T5 Luxline Plus Cool White De Luxe (840)										
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

G5



	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



- 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 (glow to arc)
- 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
T5 Emergency Warm White (29-530)										
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
T5 Emergency Cool White (33-640)										
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
T5 Emergency White (35-535)										
0001903	F6W/35-535	6W	48V	0.040A	212mm	3	G5	3500K	–	200
0001904	F8W/35-535	8W	71V	0.040A	288mm	3	G5	3500K	–	200
T5 Emergency Daylight (54-765)										
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
T5 Emergency Cool White De Luxe (840) Luxline Plus										
0001909	F6W/840	6W	48V	0.040A	212mm	1B	G5	4000K	–	200
0001907	F8W/840	8W	71V	0.040A	288mm	1B	G5	4000K	–	200

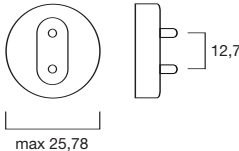
* Lamp Current: Not suitable for asymmetrical lamp current with d.c. component

** Luminous Flux: Depends on individual ballast

T8 Standard



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
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
T8 Standard Universal White (25-740)										
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
T8 Standard Warm White (29-530)										
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
T8 Standard Cool White (33-640)										
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
T8 Standard White (35-535)										
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
T8 Standard Daylight (54-765)										
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

G13

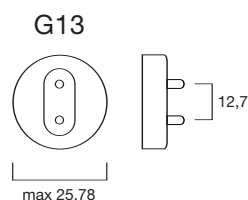
max 25,78

	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

- 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
T8 Special Length Universal White (25-740)										
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
T8 Special Length Warm White (29-530)										
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
T8 Special Length Cool White (33-640)										
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
T8 Special Length White (35-535)										
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
T8 Special Length Daylight (54-765)										
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

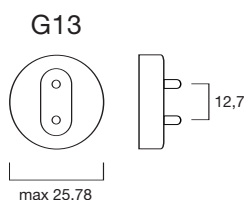


	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26



- 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 Watt	Lamp Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 LuxLine Plus Homelight De Luxe (827)										
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
T8 LuxLine Plus Warm White De Luxe (830)										
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
T8 LuxLine Plus White De Luxe (835)										
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
T8 LuxLine Plus Cool White De Luxe (840)										
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
T8 LuxLine Plus Daylight De Luxe (850/865)										
0002960	F18W/850	18W	57V	0.370A	590mm	1B	G13	5000K	1300 lm	25
0001502	F18W/865	18W	57V	0.370A	590mm	1B	G13	6500K	1300 lm	25
0002961	F36W/850	36W	103V	0.430A	1200mm	1B	G13	5000K	3250 lm	25
0001512	F36W/865	36W	103V	0.430A	1200mm	1B	G13	6500K	3250 lm	25
0002962	F58W/850	58W	110V	0.670A	1500mm	1B	G13	5000K	5000 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



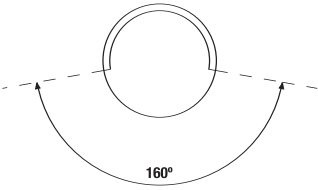
Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Luxline Plus Special Length Homelight De Luxe (827)										
0001850	F15W/827	15W	55V	0.310A	438mm	1B	G13	2700K	950 lm	25
0001680	F30W/827	30W	96V	0.365A	895mm	1B	G13	2700K	2400 lm	25
T8 Luxline Plus Special Length Warm White De Luxe (830)										
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
T8 Luxline Plus Special Length Cool White De Luxe (840)										
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
T8 Luxline Plus Special Length Daylight De Luxe (865)										
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

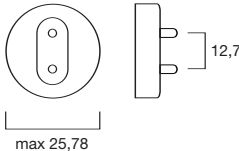




Reflector



G13



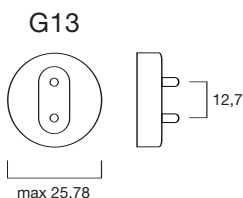
	A max	B min	B max	C max	D nom
58W	1500.0	1504.7	1507.1	1514.2	26



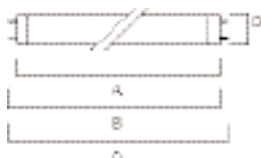
- T8 fluorescent lamp with a 200° internal reflector
- Directional control of light
- Approximately 75% of light is directed through a beam angle of 160°
- For optimising existing luminaires with no reflector
- High colour rendering due to Luxline Plus triphosphor (Class 1B)



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



	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

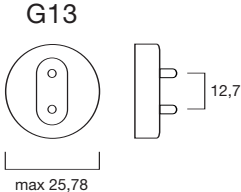


Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
T8 LuxLine Plus Shatter-Resistant										
0001517	F36W/840 Shatter-Resistant	36W	103V	0.430A	Cool White Deluxe	1B	G13	4000K	3180 lm	25
0001528	F58W/840 Shatter-Resistant	58W	110V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

T8 Activa




	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

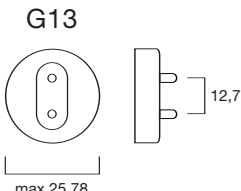
- Full-spectrum high colour rendering T8 fluorescent lamp
- Colour rendering: Ra98/Class 1A
- Colour temperature of 6500K (daylight characteristic)
- For all applications where natural colour rendering is required
- Supports the treatment of Seasonal Affective Disorder (Winter Depression)

Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
T8 Activa										
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

T8 Gourmet

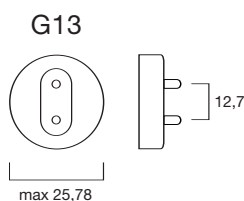



	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26

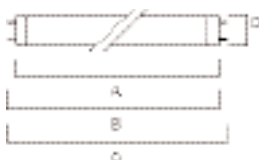



- Special T8 fluorescent lamps to display meat products
- The perfect lighting for butcher shops, restaurants and supermarkets
- Excellent colour rendering Class 1B
- Colour temperature 3700K
- Direct retrofit for all T8 Standard and T8 Luxline Plus lamps

Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
T8 Gourmet										
0001810	F18W/175	18W	57V	0.370A	Gourmet	1B	G13	3700K	650 lm	25
0001971	F30W/175	30W	96V	0.365A	Gourmet	1B	G13	3700K	1100 lm	25
0001811	F36W/175	36W	103V	0.430A	Gourmet	1B	G13	3700K	1500 lm	25
0001812	F58W/175	58W	110V	0.670A	Gourmet	1B	G13	3700K	2400 lm	25
0002540	F70W/175	70W	128V	0.700A	Gourmet	1B	G13	3700K	2800 lm	25



	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

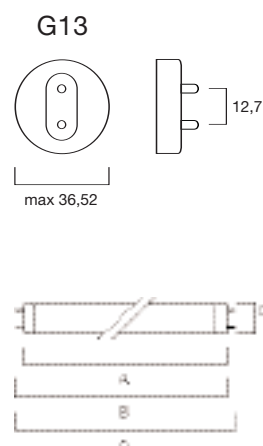


Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Octron	Daylight (54-765)									
0002336	F032W/65K 54-765	32W	135V	0.265A	1200mm	2A	G13	6500K	2100 lm	25
T8 Octron	Warm White De Luxe (830)									
0001700	F032W/31K 830	32W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

T12 Standard



	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



- 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

Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 Standard Universal White (25-740)										
0001562	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
T12 Standard Warm White (29-530)										
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
T12 Standard Cool White (33-640)										
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

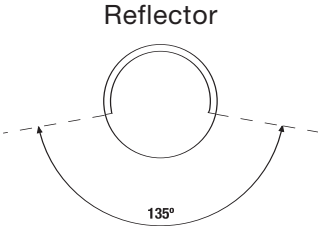


Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 Standard White (35-535)										
0001562	F20W/35-535 RS	20W	57V	0.370A	590mm	3	G13	3500K	1200 lm	25
0001563	F40W/35-535 RS	40W	103V	0.430A	1200mm	3	G13	3500K	3000 lm	25
0000444	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
T12 Standard Daylight (54-765)										
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

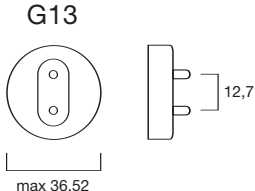
T12 Reflector



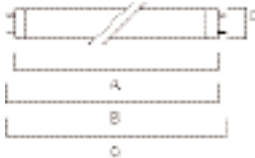

Reflector



G13



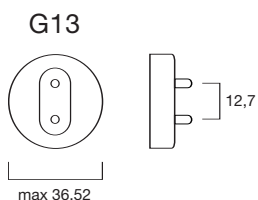
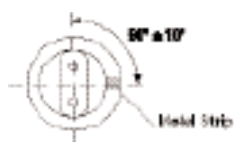
	A max	B min	B max	C max	D nom
65W	1500.0	1504.7	1507.1	1514.2	38



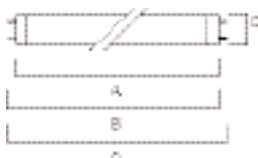
- T12 fluorescent lamp with integral 225° reflector
- Approximately 75% of the available light is directed through a beam angle of 135°
- Directional control of light
- For optimising existing luminaires without reflector
- Suitable mainly for industrial applications



Code	Description	Watt	Volt	Current	Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 Reflector Cool White (33-640)										
0001542	FR65W/33-640-RS	65W	110V	0.670A	Cool White	2B	G13	4000K	4800 lm	25



	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

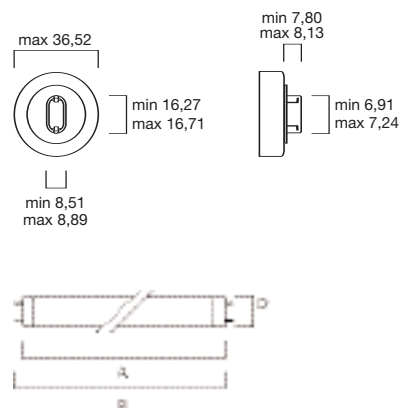


Code	Description	Watt	Volt	Current	Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 IRS Warm White (29-530)										
0000424	F20W/29-530-IRS	20W	57V	0.370A	590mm	3	G13	3000K	1200 lm	25
0000431	F40W/29-530-IRS	40W	103V	0.430A	1200mm	3	G13	3000K	3000 lm	25
T12 IRS Cool White (33-640)										
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 IRS Daylight (54-765)										
0000421	F20W/54-765-IRS	20W	57V	0.370A	590mm	2A	G13	6500K	1050 lm	25
0000428	F40W/54-765-IRS	40W	103V	0.430A	1200mm	2A	G13	6500K	2500 lm	25

T12 High Output / Very High Output



R17d

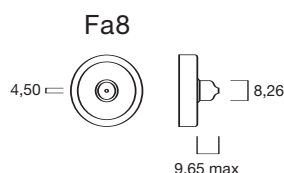


	A nom	B min	B max	C max	D nom
60W	1219	1168	-	-	38
85W	1829	1776	-	-	38
110W	2438	2385	-	-	38

- High lumen output lamps



Code	Description	Nominal Watt	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 High Output Cool White								
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
T12 High Output Daylight								
0000261	F72T12/D/HO	85W	1776mm	2A	R17d	6500K	5550 lm	15
T12 Very High Output Cool White								
9000204	F48T12/CW/VHO	115W	1168mm	2B	R17d	4200K	6600 lm	30
0000269	F72T12/CW/VHO	160W	1776mm	2B	R17d	4200K	10600 lm	15
0000307	F96T12/CW/VHO	215W	2385mm	2B	R17d	4200K	14000 lm	15



	A nom	B min	B max	C max	D nom
52/64W	1626	1575	–	–	26
38/55W	1829	1776	–	–	26
51/75W	2438	2385	–	–	26

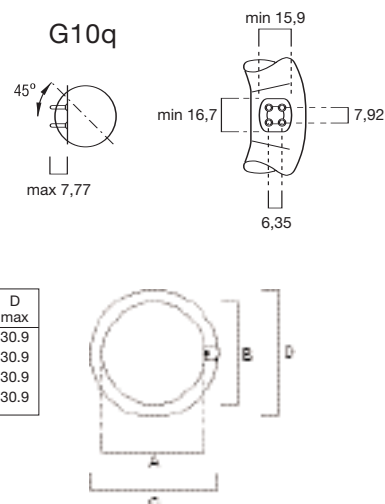


- Wide range of single pin fluorescent lamps
- Operate without the use of a starter
- General lighting in industrial areas and for special applications i.e. refrigerated food displays



Code	Description	Nominal Watt	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Slimline Cool White								
9000011	F72T8/CW	38W	1776mm	2B	Fa8	4200K	3050 lm	24
0000282	F96T8/CW	51W	2385mm	2B	Fa8	4200K	4000 lm	24
T8 Slimline Daylight								
0000246	F72T8/D	38W	1776mm	2A	Fa8	6500K	2600 lm	24
0000280	F96T8/D	51W	2385mm	2A	Fa8	6500K	3550 lm	24
T12 Slimline Cool White								
9000242	F64T12/CW	52W	1575mm	2B	Fa8	4200K	3900 lm	30
0000255	F72T12/CW	55W	1776mm	2B	Fa8	4200K	4500 lm	15
0000291	F96T12/CW	75W	2385mm	2B	Fa8	4200K	6300 lm	15
T12 Slimline Daylight								
9000240	F64T12/D	52W	1575mm	2A	Fa8	6500K	3300 lm	30

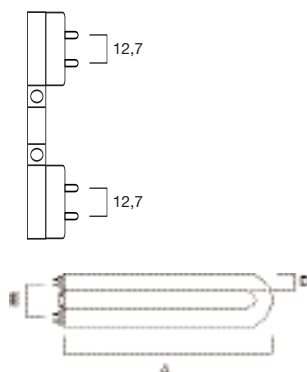
Circline



- 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

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

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

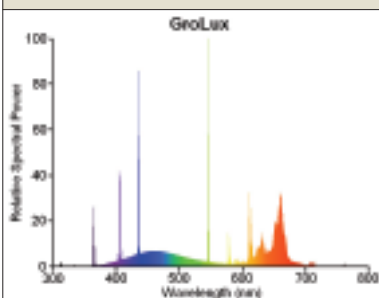


- T8 U-shaped fluorescent lamps in standard colours
- Suitable for rectangular shaped luminaires
- For commercial and domestic lighting



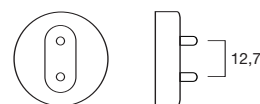
Code	Description	Nominal Lamp Watt	Volt	Current	Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 U-Shaped Universal White (25-740)										
0000510	FU18W/25-740	18W	60V	0.370A	310mm	2A	2G13	4000K	1000 lm	24
0000511	FU36W/25-740	36W	103V	0.430A	607mm	2A	2G13	4000K	2400 lm	12
0000512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

Grolux



	A max	B min	B max	C max	D nom
8W	288.3	293.0	295.4	302.5	16
FHO24W	549.0	553.7	556.1	563.2	16
FHO39W	849.0	853.7	856.1	863.2	16
FHO54W	1149.0	1153.7	1156.1	1163.2	16
14W	361.2	365.8	368.3	375.4	26
15W	437.4	442.1	444.5	451.6	26
18W	589.8	594.5	596.9	604.0	26
25W/30"	742.2	746.9	749.3	756.4	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
38W	1047.0	1051.7	1054.1	1061.2	26
58W	1500.0	1504.7	1507.1	1514.2	26

G13



T8 max 25,78

T12 max 36,52



- Wide range of fluorescent lamps for plant growth in areas with insufficient daylight
- Promotes the process of photosynthesis in plants
- The high level of red and blue radiations helps to promote healthy plant growth
- Strengthens the colours of aquatic plants and fish in aquariums
- Recommended for use in greenhouses, indoor garden and florists
- For lighting of fresh water aquariums

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Cap	Packing Qty
Grolux T5								
0000026	F8W/GRO	8W	56V	0.145A	288mm	Grolux	G5	25
0002740	FH024W/GRO	24W	77V	0.295A	549mm	Grolux	G5	25
0002743	FH039W/GRO	39W	118V	0.325A	849mm	Grolux	G5	25
0002746	FH054W/GRO	54W	120V	0.455A	1149mm	Grolux	G5	25
Grolux T8								
0000043	F14W/GRO	14W	38V	0.395A	361mm	Grolux	G13	25
0000069	F15W/GRO	15W	55V	0.310A	437mm	Grolux	G13	25
0001523	F18W/GRO	18W	57V	0.370A	590mm	Grolux	G13	25
0001679	F25W/30"/GRO	25W	84V	0.360A	742mm	Grolux	G13	25
0000150	F30W/GRO	30W	96V	0.365A	895mm	Grolux	G13	25
0001524	F36W/GRO	36W	103V	0.430A	1199mm	Grolux	G13	25
0002213	F38W/GRO	38W	104V	0.430A	1047mm	Grolux	G13	25
0001525	F58W/GRO	58W	110V	0.670A	1500mm	Grolux	G13	25

**Grolux T8 Retail Packs with Display Euro Hook**

0000707	F14W/GRO	14W	38V	0.395A	361mm	Grolux	G13	10
0000708	F15W/GRO	15W	55V	0.310A	437mm	Grolux	G13	10
0000709	F18W/GRO	18W	57V	0.370A	590mm	Grolux	G13	10
0000710	F25W/30"/GRO	25W	84V	0.360A	742mm	Grolux	G13	10
0000711	F30W/GRO	30W	96V	0.365A	895mm	Grolux	G13	10
0000712	F36W/GRO	36W	103V	0.430A	1199mm	Grolux	G13	10
0000713	F38W/GRO	38W	104V	0.430A	1047mm	Grolux	G13	10
0000714	F58W/GRO	58W	110V	0.670A	1500mm	Grolux	G13	10

G13



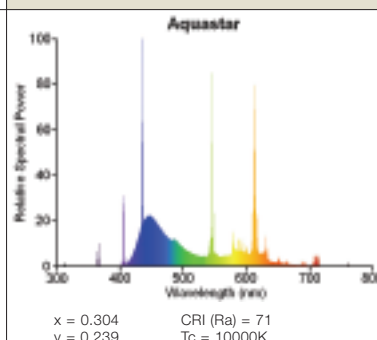
T8 max 25,78
T12 max 36,52



	A max	B min	B max	C max	D nom
FHO24W	549.0	553.7	556.1	563.2	16
FHO39W	849.0	853.7	856.1	863.2	16
FHO54W	1149.0	1153.7	1156.1	1163.2	16
14W	361.2	365.8	368.3	375.4	26
15W	437.4	442.1	444.5	451.6	26
18W	589.8	594.5	596.9	604.0	26
25W/30"	742.2	746.9	749.3	756.4	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
38W	1047.0	1051.7	1054.1	1061.2	26
58W	1500.0	1504.7	1507.1	1514.2	26



- Range of fluorescent lamps for growth of coral and aquatic plants in fresh and marine aquariums
- Colour temperature: 10000K (simulating the tropical light spectrum)
- Promotes the growth of plants through natural red and blue sections of the light spectrum
- Excellent lighting performance
- A combination with other lamp types is not required
- For all biological organisms in fresh and marine water aquariums



Code	Description	Watt	Nominal Lamp Volt	Current	Capt to Cap Lamp Length	Lamp Colour	Cap	Colour Temp	Luminous Flux	Packing Qty
Aquastar T5										
0002741	FHO24W/174 Aquastar	24W	77V	0.295A	549mm	Aquastar	G5	10000K	1120 lm	25
0002744	FHO39W/174 Aquastar	39W	118V	0.325A	849mm	Aquastar	G5	10000K	1960 lm	25
0002747	FHO54W/174 Aquastar	54W	120V	0.455A	1149mm	Aquastar	G5	10000K	2800 lm	25
Aquastar T8										
0002212	F14W/174 Aquastar	14W	38V	0.395A	361mm	Aquastar	G13	10000K	525 lm	25
0002224	F15W/174 Aquastar	15W	55V	0.310A	437mm	Aquastar	G13	10000K	650 lm	25
0002221	F18W/174 Aquastar	18W	57V	0.370A	590mm	Aquastar	G13	10000K	900 lm	25
0002226	F25W/30"/174 Aquastar	25W	84V	0.360A	742mm	Aquastar	G13	10000K	1500 lm	25
0002225	F30W/174 Aquastar	30W	96V	0.365A	895mm	Aquastar	G13	10000K	1700 lm	25
0002222	F36W/174 Aquastar	36W	103V	0.430A	1199mm	Aquastar	G13	10000K	2200 lm	25
0002185	F38W/174 Aquastar	38W	104V	0.430A	1047mm	Aquastar	G13	10000K	2100 lm	25
0002223	F58W/174 Aquastar	58W	110V	0.670A	1500mm	Aquastar	G13	10000K	3550 lm	25



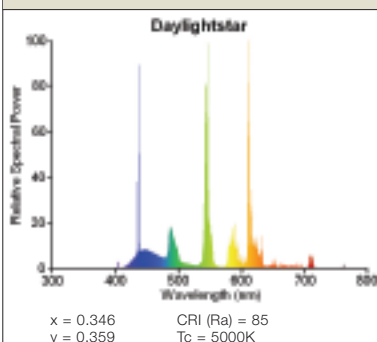
Aquastar T8 Retail Packs with Display Euro Hook

0000643	F15W/174 Aquastar	15W	55V	0.310A	437mm	Aquastar	G13	10000K	650 lm	10
0000644	F18W/174 Aquastar	18W	57V	0.370A	590mm	Aquastar	G13	10000K	900 lm	10
0000645	F25W/30"/174 Aquastar	25W	84V	0.360A	742mm	Aquastar	G13	10000K	1500 lm	10
0000646	F30W/174 Aquastar	30W	96V	0.365A	895mm	Aquastar	G13	10000K	1700 lm	10
0000647	F36W/174 Aquastar	36W	103V	0.430A	1199mm	Aquastar	G13	10000K	2200 lm	10
0000648	F38W/174 Aquastar	38W	104V	0.430A	1047mm	Aquastar	G13	10000K	2100 lm	10
0000649	F58W/174 Aquastar	58W	110V	0.670A	1500mm	Aquastar	G13	10000K	3550 lm	10

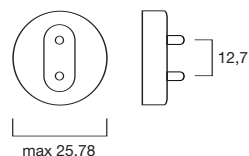
Daylightstar



uv STOP



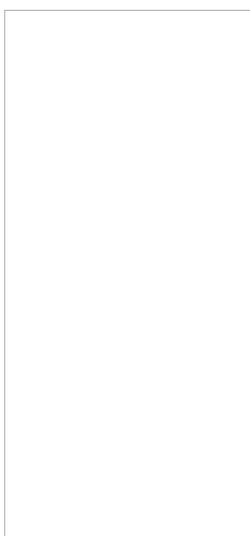
G13



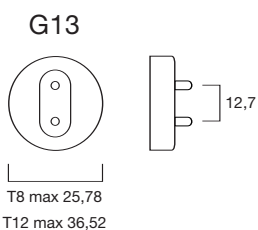
	A max	B min	B max	C max	D nom
15W	437.4	442.1	444.5	451.6	26
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26



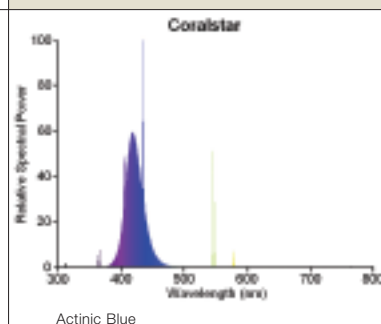
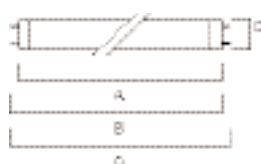
- T8 fluorescent lamps for fresh water aquariums to see fish and plants in their natural colours
- 5000K triphosphor lamp with a daylight character
- High colour rendition
- Reduces algae growth through a special UV Stop sleeve
- In combination with Grolux it produces a well balanced and optimal life in the aquarium



Code	Description	Watt	Nominal Lamp Volt	Current	Capt to Cap Lamp Length	Lamp Colour	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Daylightstar Fresh Water Lamp Retail Packs with Display Euro Hook										
0000715	F15W/5000K	15W	55V	0.310A	437mm	Daylightstar	G13	5000K	900 lm	10
0000716	F18W/5000K	18W	57V	0.370A	590mm	Daylightstar	G13	5000K	1300 lm	10
0000717	F30W/5000K	30W	96V	0.365A	895mm	Daylightstar	G13	5000K	2300 lm	10
0000718	F36W/5000K	36W	103V	0.430A	1199mm	Daylightstar	G13	5000K	3250 lm	10



T5	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
54W	1149	1153.7	1156.1	1163.2	16
T8	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



- Range of fluorescent lamps which reproduces light conditions found in a depth of 6-10m at a coral reef through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See corals in their true colours
- For marine water aquariums

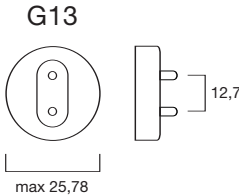


Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Cap	Packing Qty
T5 Coralstar	Marine Water Lamp							
0002742	FHO24W/Coralstar	24W	77V	0.295A	549mm	Actinic Blue	G5	25
0002745	FHO39W/Coralstar	39W	118V	0.325A	849mm	Actinic Blue	G5	25
0002748	FHO54W/Coralstar	54W	120V	0.455A	1149mm	Actinic Blue	G5	25

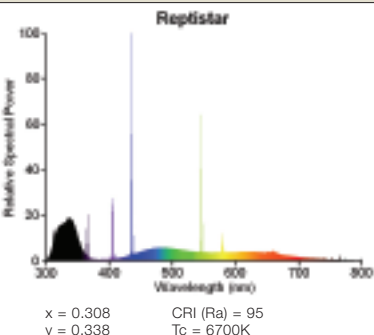


T8 Coralstar	Marine Water Lamp	Retail Packs with Display Hook						
0000719	F18W/Coralstar	18W	57V	0.370A	590mm	Actinic Blue	G13	10
0000725	F30W/Coralstar	30W	96V	0.365A	895mm	Actinic Blue	G13	10
0000726	F36W/Coralstar	36W	103V	0.430A	1199mm	Actinic Blue	G13	10

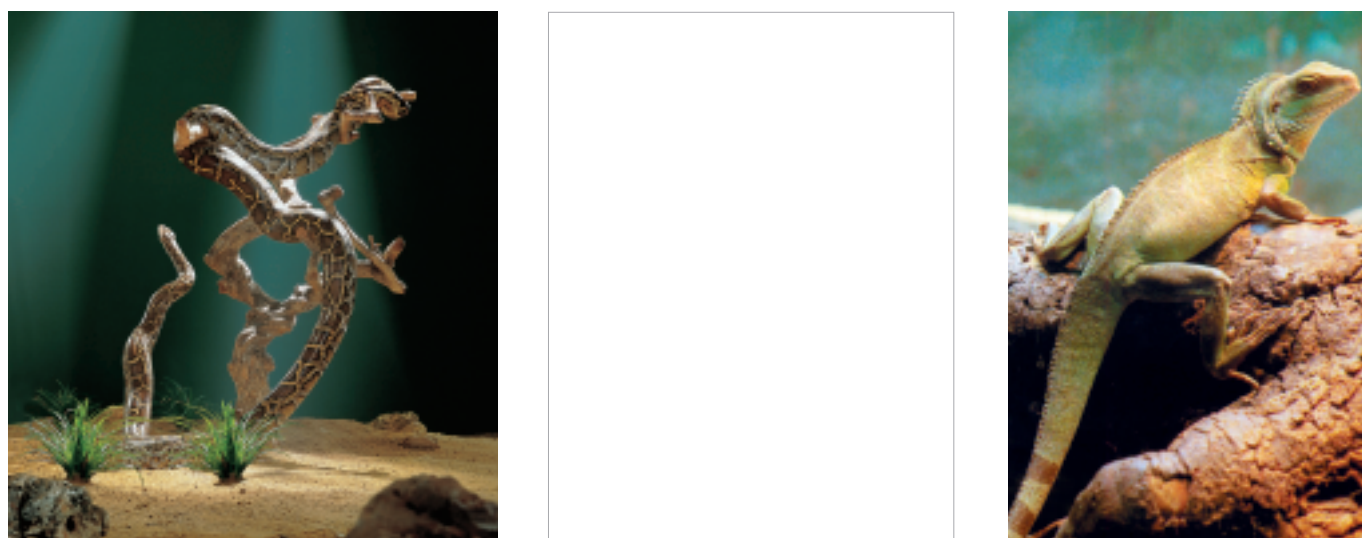
Reptistar

	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
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26

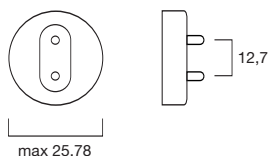



- Promotes vitamin D3 production for good health, growth and general well-being of reptiles in terrariums through a high content of UV-B (up to 5%)
- Full spectrum (6700K) fluorescent lamps which improve the natural appearance of reptiles in terrariums
- Show reptiles in their true colours
- For artificial lighting of reptiles in terrariums

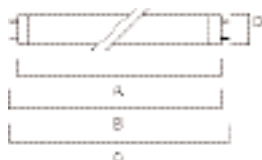


Code	Description	Nominal Lamp			Cap to Cap	Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packin Qty
		Watt	Volt	Current	Lamp Length						
T8 Reptistar	Retail Packs with Display Euro Hook										
0000731	F15W/Reptistar	15W	55V	0.310A	437mm	Reptistar	1A	G13	6700K	300 lm	10
0000732	F18W/Reptistar	18W	57V	0.370A	590mm	Reptistar	1A	G13	6700K	450 lm	10
0000733	F30W/Reptistar	30W	96V	0.365A	895mm	Reptistar	1A	G13	6700K	700 lm	10
0000734	F36W/Reptistar	36W	103V	0.430A	1199mm	Reptistar	1A	G13	6700K	1000 lm	10

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



- Range of T8 fluorescent lamps with a coloured 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

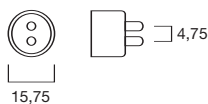


Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Luminous Flux	Cap	Packing Qty
T8 Coloured 590mm Length									
0002560	F18W/T8/R	18W	57V	0.370A	590mm	Red	550 lm	G13	25
0002564	F36W/T8/R	36W	103V	0.430A	1200mm	Red	1250 lm	G13	25
0002561	F18W/T8/Y	18W	57V	0.370A	590mm	Yellow	660 lm	G13	25
0002565	F36W/T8/Y	36W	103V	0.430A	1200mm	Yellow	1580 lm	G13	25
0002562	F18W/T8/G	18W	57V	0.370A	590mm	Green	1300 lm	G13	25
0002566	F36W/T8/G	36W	103V	0.430A	1200mm	Green	3040 lm	G13	25
0002563	F18W/T8/B	18W	57V	0.370A	590mm	Blue	300 lm	G13	25
0002567	F36W/T8/B	36W	103V	0.430A	1200mm	Blue	700 lm	G13	25

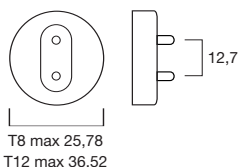
Blacklight (BL350)



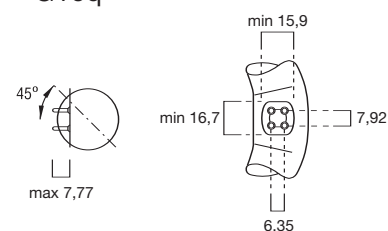
G5



G13



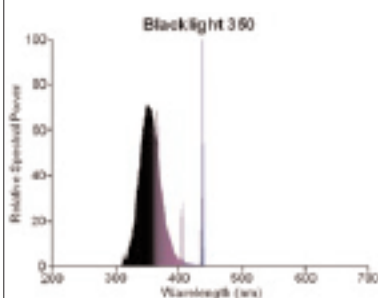
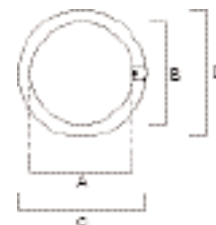
G10q



	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
11W	212.1	216.8	219.2	226.3	16
15WT5	288.3	293.0	295.4	302.5	26
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
40W	1199.4	1204.1	1206.5	1213.6	26



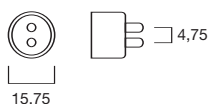
	A min	A max	B min	B max	C or D min	C or D max	D min	D max
22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9
32W	239.7	246.1	236.5	246.1	292.1	304.8	26.2	30.9
40W	341.3	347.7	338.1	347.7	393.7	406.4	26.2	30.9
60W	341.3	347.7	338.1	347.7	393.7	406.4	26.2	30.9



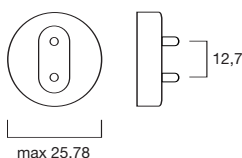
- A range of UVA fluorescent lamps in various lengths and diameters
- Lamps emit UV-radiation between 315nm and 400nm (at peak of 352nm)
- Same shape, structural and electrical characteristics and control circuits as for regular T5, T8, T12 and Circline lamps
- For attracting flies and mosquitoes
- Photosensitisation and photochemical reactions

Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Cap	Packing Qty
T5 Blacklight 350								
9000007	F4WT5/BL350	4W	29V	0.170A	136mm	Blacklight	G5	50
0000017	F6WT5/BL350	6W	42V	0.160A	212mm	Blacklight	G5	25
0000023	F8WT5/BL350	8W	56V	0.145A	288mm	Blacklight	G5	25
0000384	F11WT5/BL350	11W	34V	0.350A	212mm	Blacklight	G5	25
0000045	F15WT5/BL350	15W	44V	0.310A	288mm	Blacklight	G5	200
T8 Blacklight 350								
0000076	F15WT8/BL350	15W	55V	0.310A	437mm	Blacklight	G13	25
T12 Blacklight 350								
0000359	F20WT12/BL350	20W	57V	0.370A	590mm	Blacklight	G13	25
0001635	F40WT12/2ft/BL350	40W	47V	0.880A	590mm	Blacklight	G13	25
0000185	F40WT12/BL350	40W	103V	0.430A	1199mm	Blacklight	G13	25
Circular Blacklight 350								
0000489	FC22W/BL350	22W	62V	0.400A	216mm Ø	Blacklight	G10q	12

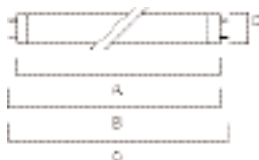
G5



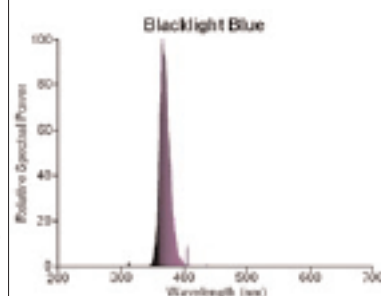
G13



	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
15W	437.4	442.1	444.5	451.6	26
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

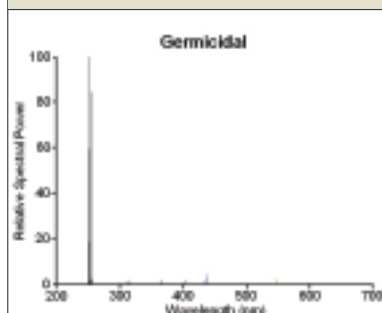


- Lamps emit long-wave UVA for photochemical and fluorescent effect
- Special deep blue filter glass absorbs all visible radiations and transmits long-wave UVA
- Shape, size and electrical characteristics same as regular T5 and T8 fluorescent lamps
- Used for test, inspection, examination and investigation in many fields (bank notes, papers, leaks and cracks on surfaces, geological investigations of stones)
- Illumination in theatres and nightclubs, advertisements and sign boards

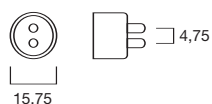


Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Cap	Packing Qty
T5 Blacklight Blue								
0000008	F4WT5/BLB	4W	29V	0.170A	136mm	Blacklight Blue	G5	50
0000018	F6WT5/BLB	6W	42V	0.160A	212mm	Blacklight Blue	G5	50
0000024	F8WT5/BLB	8W	56V	0.145A	288mm	Blacklight Blue	G5	50
T8 Blacklight Blue								
0000077	F15WT8/BLB	15W	55V	0.310A	437mm	Blacklight Blue	G13	24
0000698	F18WT8/BLB	18W	57V	0.370A	590mm	Blacklight Blue	G13	12
0000158	F30WT8/BLB	30W	96V	0.365A	895mm	Blacklight Blue	G13	10
0000699	F36WT8/BLB	36W	103V	0.430A	1199mm	Blacklight Blue	G13	12

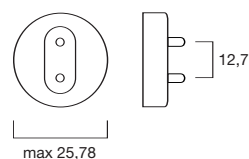
Germicidal



G5



G13



	A max	B min	B max	C max	D nom
8W	288.3	292.8	295.4	302.5	16
15W	437.3	442.0	444.4	451.5	26
30W	894.3	899.0	901.4	908.5	26



- UV-C lamps which have been designed to kill bacteria and other micro-organisms
- Germicidal lamps efficiently emit a large amount of UV-C at 253,7nm
- Germicidal lamps have the same structure and electrical characteristics as regular T5 and T8 fluorescent lamps
- Primarily used for pharmaceutical, food and beverage industries
- Applicable in hospitals, laboratories, pharmaceutical, food and beverage industries

DIRECTIONS FOR USE:

Germicidal lamps emit UV-C radiation and must not be used for general lighting purposes. The radiation from these lamps is very harmful to eyes and skin. Protect always 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.

Code	Description	Watt	Nominal Lamp Volt	Current	Lamp Lamp Length	Lamp Colour	Cap	Packing Qty
Germicidal								
0000501	G8T5	8W	56V	0.170A	288mm	Germicidal	G5	24
0000502	G15T8	15W	55V	0.300A	437mm	Germicidal	G13	24
0000503	G30T8	30W	99V	0.355A	895mm	Germicidal	G13	24



- 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
FS Standard Starters						
0024454	FS-11	4, 6, 8, 13W	220-240V	T5	Single	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	
0024456	FS-11	As Above	220-240V	As Above	Single	1000
						Industrial Pack
0024455	FS-22	4, 6, 8W	120V	T5	Single	1000
		4, 6, 8W	230V	T5	Twin	
		14, 15, 18W	120V	T8	Single	
		14, 15, 18W	230V	T8	Twin	
		20W	120V	T5	Single	
		20W	230V	T5	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	
0024457	FS-22	As Above	As Above	As Above	As Above	1000
						Industrial Pack

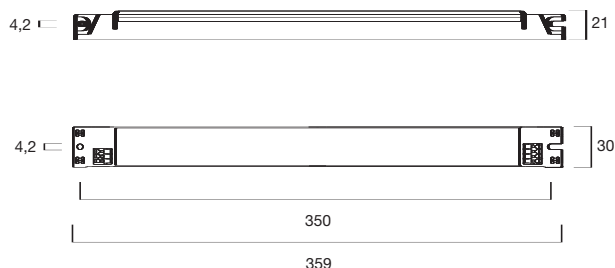
COP Safety Starters



- Quick-start without increasing the starting current
- Immediate switch off in case of flickering or defective lamp (end of life)
- Prevents overheating of the ballast
- Extended life compared to standard starters
- Reduced maintenance cost due to longer life time

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

A01



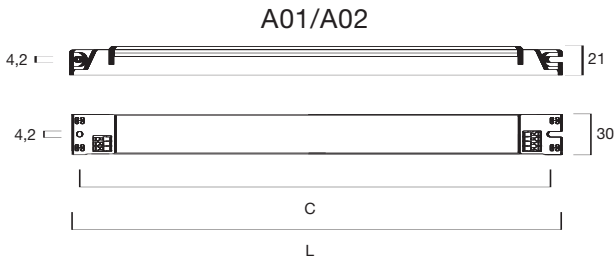
- Ultra flat T5 electronic built-in ballast
- Defined lamp warm start (preheat of electrodes) allows for more than 20000 starts
- Protected against excessive mains voltage and incorrect polarity
- Automatic shutdown of defective lamps during starting operation
- Automatic re-start after lamp change
- The ideal combination with Sylvania T5 FHE/FHO lamps offers a great potential for miniaturisation and reduced costs of ownership



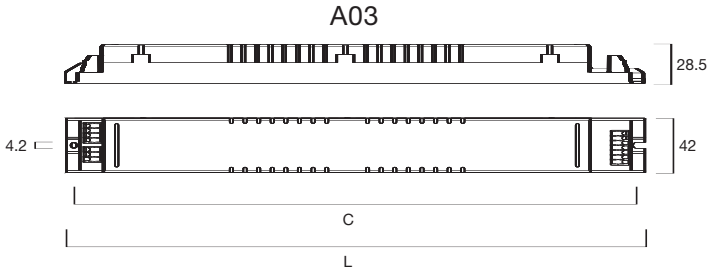
Code	Description	Rated Lamp Type	Line Voltage +/- 10%	Line Frequency	System Power	Casing	Packing Qty
Single Lamp Ballasts							
0041406	EB 1 x 14, 21, 28, 35W HE	1 x FHE14W	220-240V	0/50 - 60Hz	17.0W	A01	15
		1 x FHE21W	220-240V	0/50 - 60Hz	24.0W	A01	15
		1 x FHE28W	220-240V	0/50 - 60Hz	32.0W	A01	15
		1 x FHE35W	220-240V	0/50 - 60Hz	39.5W	A01	15
0041407	EB 1 x 24, 39W HO	1 x FHO24W	220-240V	0/50 - 60Hz	27.0W	A01	15
		1 x FHO39W	220-240V	0/50 - 60Hz	43.0W	A01	15
0041408	EB 1 x 49W HO	1 x FHO49W	220-240V	0/50 - 60Hz	55.0W	A01	15
0041409	EB 1 x 54W HO	1 x FHO54W	220-240V	0/50 - 60Hz	59.5W	A01	15
0041410	EB 1 x 80W HO	1 x FHO80W	220-240V	0/50 - 60Hz	88.0W	A01	15



A01/A02



A03



	C	L
A01	350	359
A02	412	425
A03	415	425





- Ultra flat T5 electronic built-in ballast
- Defined lamp warm start (preheat of electrodes) allows for more than 20000 starts
- Protected against excessive mains voltage and incorrect polarity
- Automatic shutdown of defective lamps during starting operation
- Automatic re-start after lamp change
- The ideal combination with Sylvania T5 FHE/FHO lamps offers a great potential for miniaturisation and reduced costs of ownership

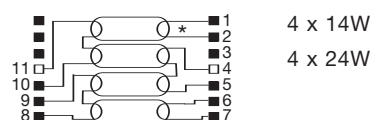
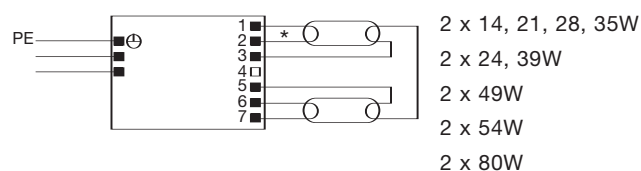
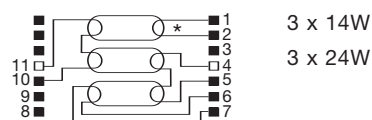
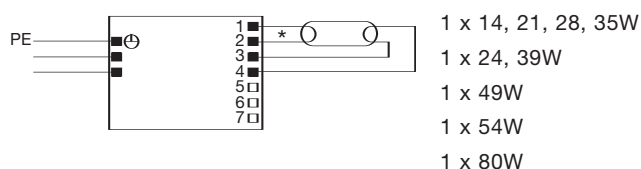


Code	Description	Rated Lamp Type	Line Voltage +/- 10%	Line Frequency	System Power	Casing	Packing Qty
Twin Lamp Ballasts							
0041411	EB 2 x 14, 21, 28, 35W HE	2 x FHE14W	220-240V	0/50 - 60Hz	34.0W	A01	15
		2 x FHE21W	220-240V	0/50 - 60Hz	48.0W	A01	15
		2 x FHE28W	220-240V	0/50 - 60Hz	64.0W	A01	15
		2 x FHE35W	220-240V	0/50 - 60Hz	78.0W	A01	15
0041412	EB 2 x 24, 39W HO	2 x FHO24W	220-240V	0/50 - 60Hz	54.0W	A01	15
		2 x FHO39W	220-240V	0/50 - 60Hz	87.0W	A01	15
0041413	EB 2 x 49W HO	2 x FHO49W	220-240V	0/50 - 60Hz	107W	A01	15
0041414	EB 2 x 54W HO	2 x FHO54W	220-240V	0/50 - 60Hz	109W	A01	15
0041415	EB 2 x 80W HO	2 x FHO80W	220-240V	0/50 - 60Hz	174W	A02	15
Triple and Quad Lamp Ballasts							
0041416	EB 3/4 x 14W HO	3 x FHO14W	220-240V	0/50 - 60Hz	51.0W	A03	15
		4 x FHO14W	220-240V	0/50 - 60Hz	65.0W	A03	15
0041417	EB 3/4 x 24W HO	3 x FHO24W	220-240V	0/50 - 60Hz	76.0W	A03	15
		4 x FHO24W	220-240V	0/50 - 60Hz	96.5W	A03	15

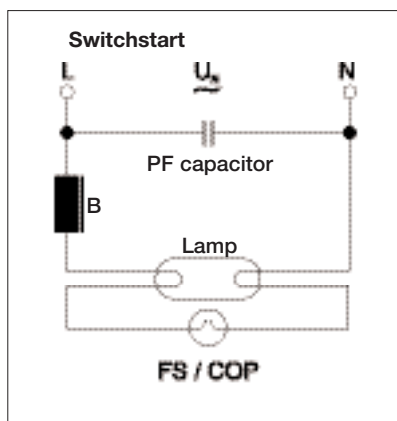


- Metal casing ballast for single and twin lamp operation and plastic casing (heat-resisting polycarbonate) ballast for 3 and 4 lamp ballast
- For ambient temperature from -15°C to $+55^{\circ}\text{C}$
- Casing temperature (t_c) of maximum 70°C (single and twin lamp ballast) and 80°C (3 and 4 lamp ballast)
- Power factor $>0,98$
- Leak current $<0,5\text{mA}$
- Energy efficiency index EEI A2 (single and twin lamp ballast) and A3 (3 and 4 lamp ballast)
- Suitable for manual (push-in terminal) and automatic (IDC-terminal) wiring
- Suitable for use in emergency lighting installations in accordance with DIN VDE 0108
- Approval marks   
- Safety requirements acc. to EN 61347
- Safety at direct current operation acc. to EN 60924
- Performance requirements acc. to EN 60929
- RFI suppression acc. to EN 55015
- Mains harmonics acc. to EN 61000-3-2
- EMC immunity to interference acc. to EN 61547

CIRCUIT DIAGRAMS

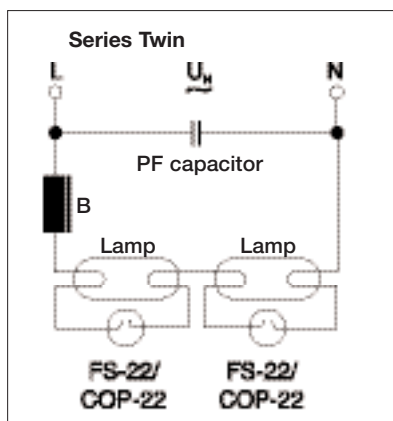


Circuit Diagrams



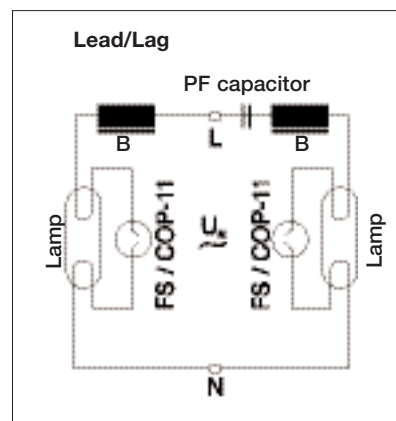
SWITCHSTART

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°C to +50°C. Use FS-11 or COP-11 starters.



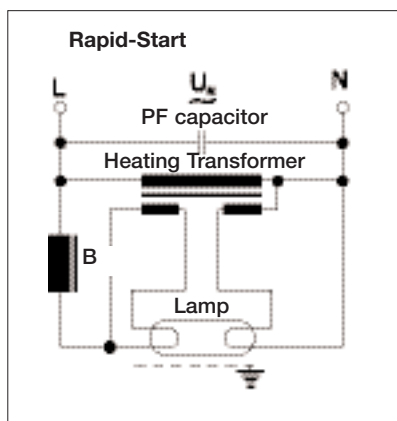
SERIES TWIN

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.



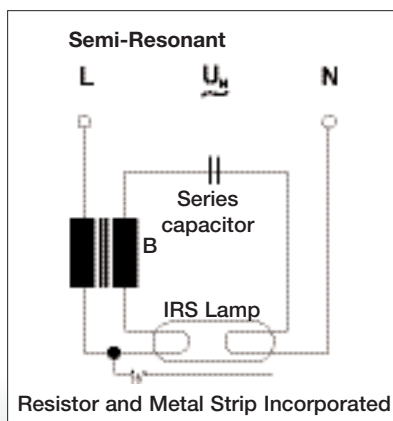
LEAD/LAG

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

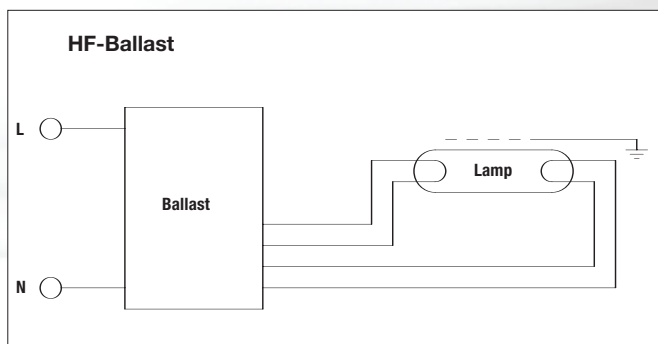
A circuit giving flicker-free instant starting and increased lamp life. The lamp is operated in series with a standard ballast. The electrode pre-heating voltage is provided by a separate transformer. Reliable starting from -10°C to +40°C.



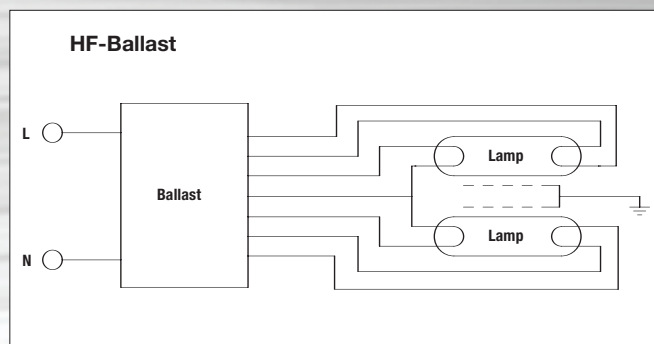
SEMI-RESONANT

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 = external conductor L₁, L₂, L₃
- N = median conductor MP
- U_N = power supply 230V
- B = ballast
- PF = power factor capacitor
- K_z = start-up capacitor

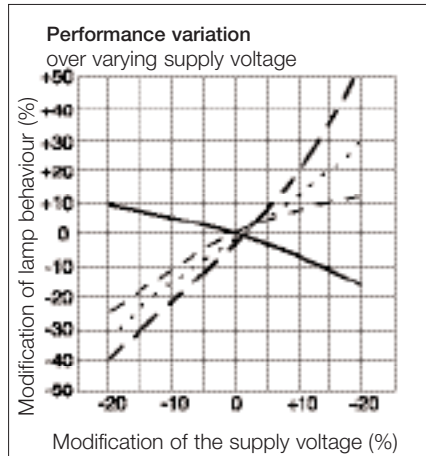


SINGLE LAMP OPERATION

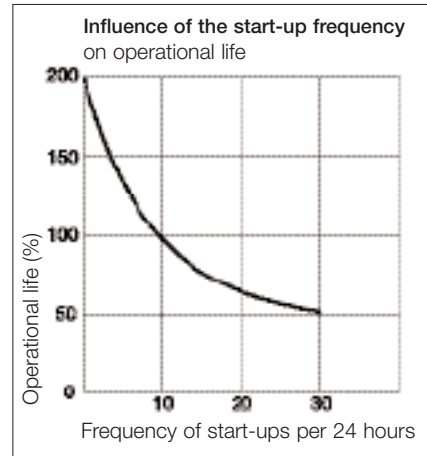


TWIN LAMP OPERATION

OPERATIONAL CHARACTERISTICS

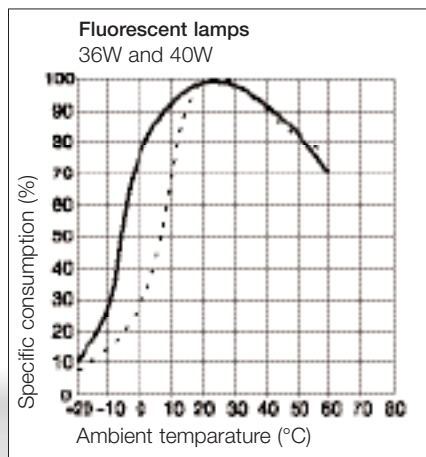


I — = lamp current
 P - - - = lamp conductor
 U . . . = lamp voltage

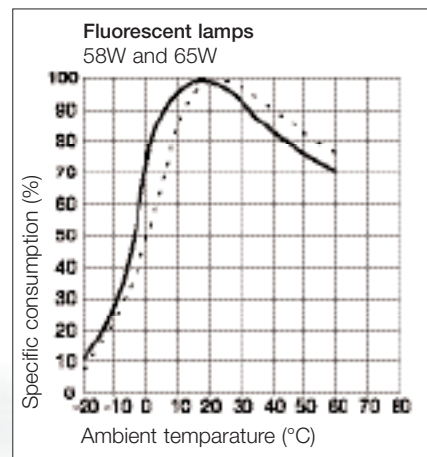


Φ — = light output
 U — = lamp voltage

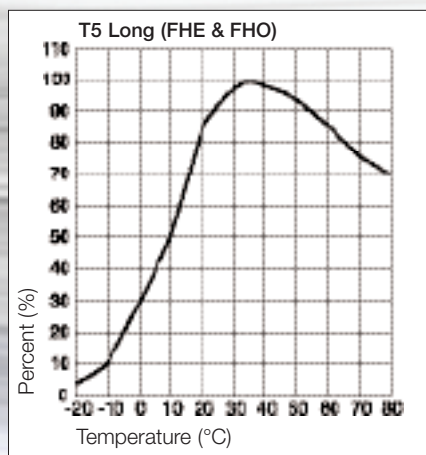
RELATIONSHIP BETWEEN AMBIENT TEMPERATURE AND LIGHT OUTPUT



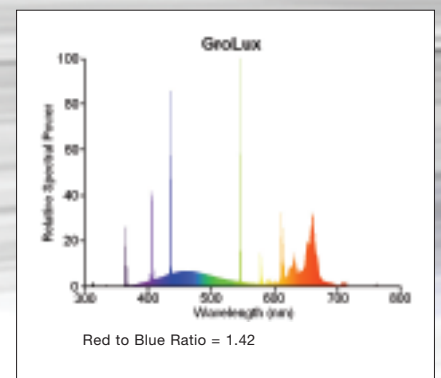
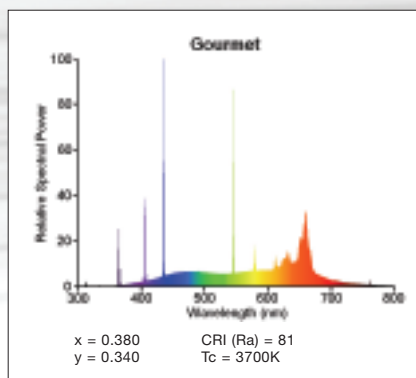
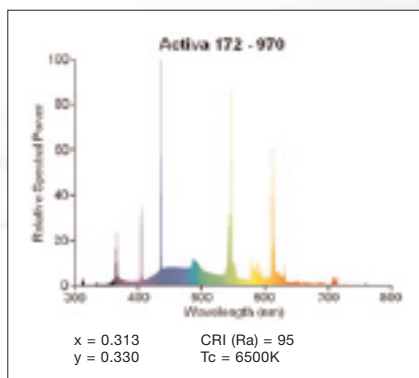
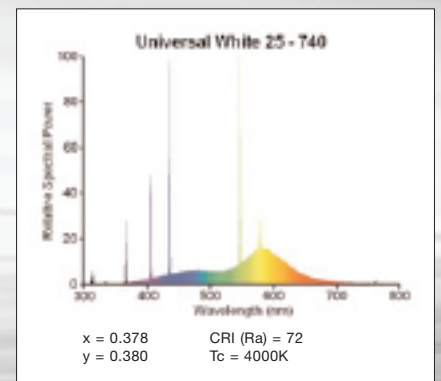
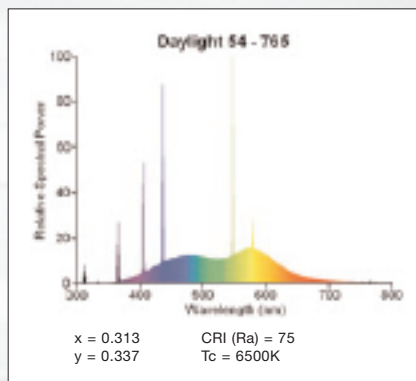
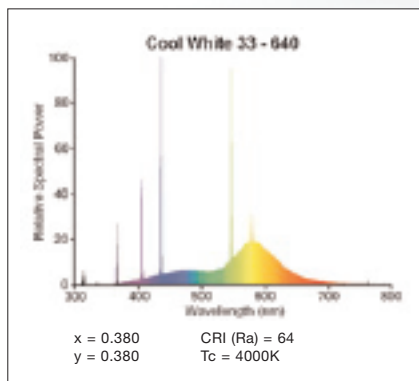
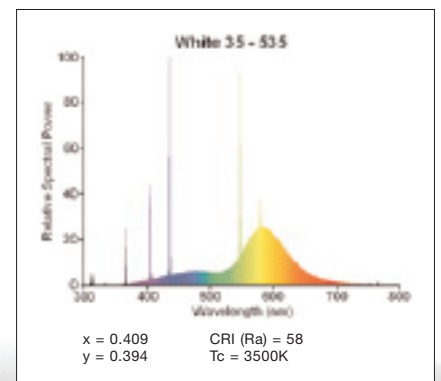
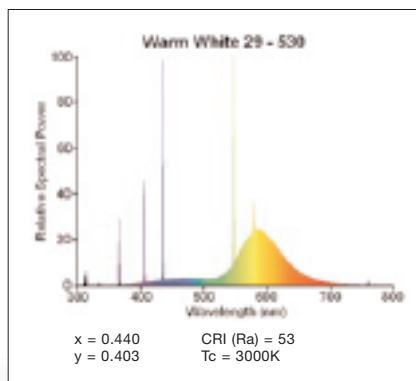
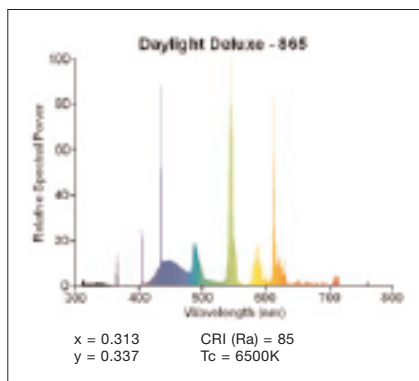
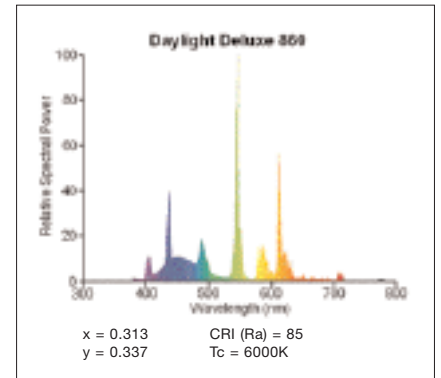
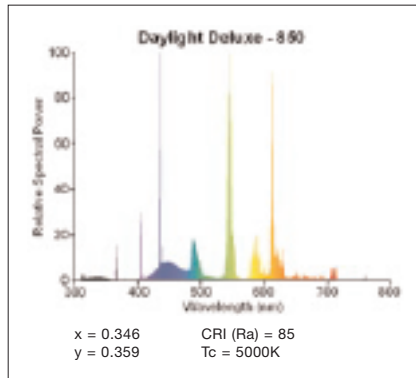
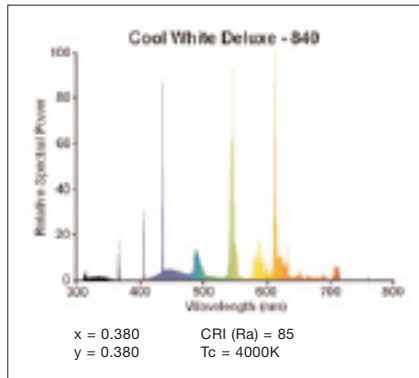
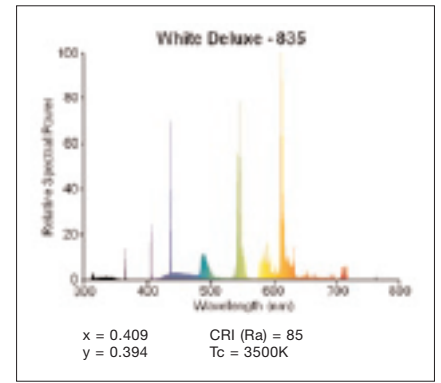
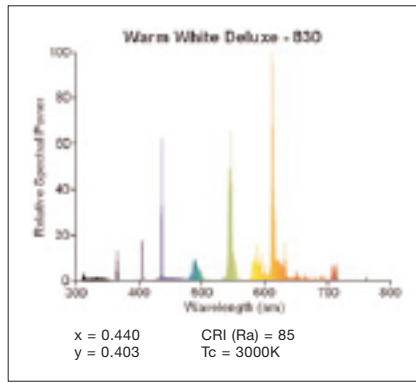
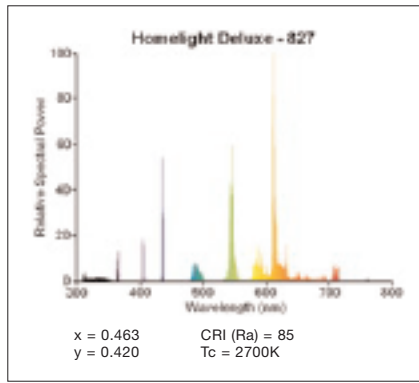
- - - F36W
 — F40W

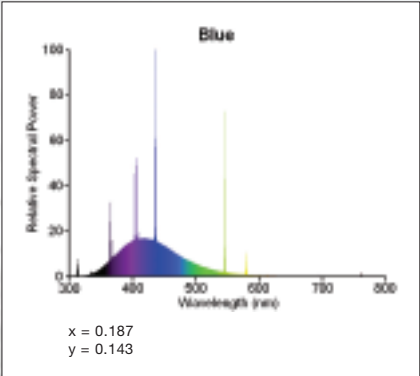
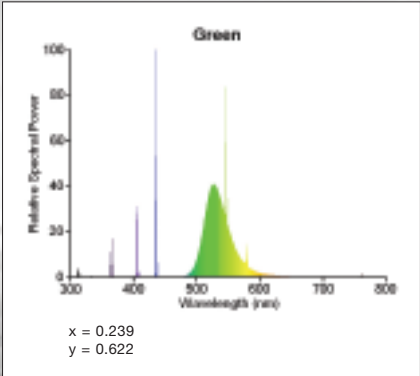
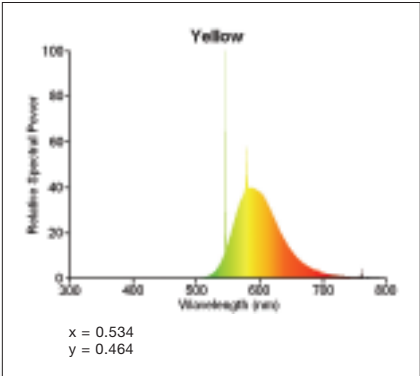
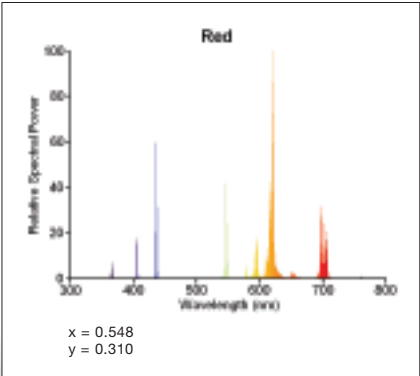
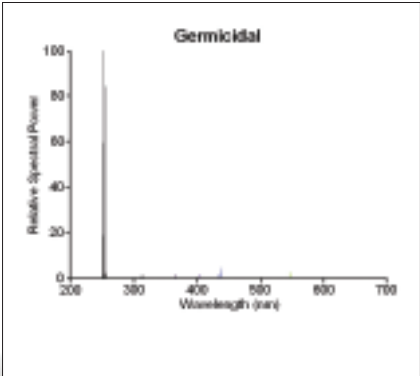
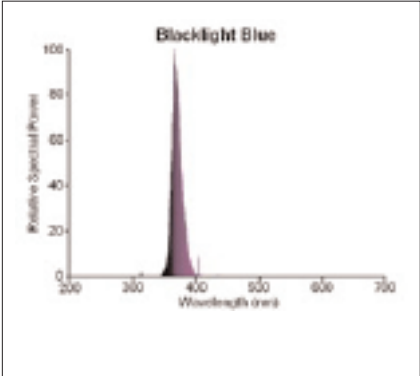
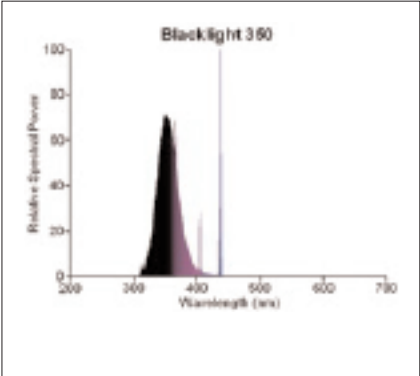
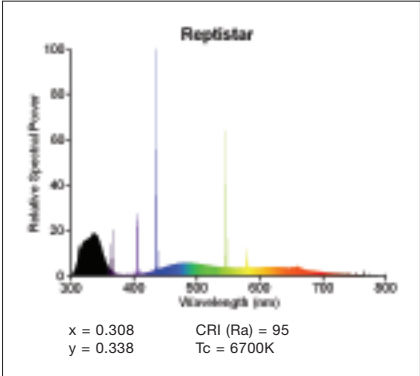
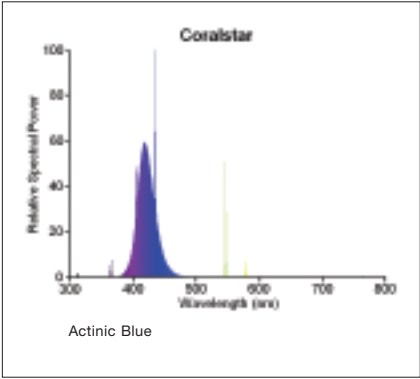
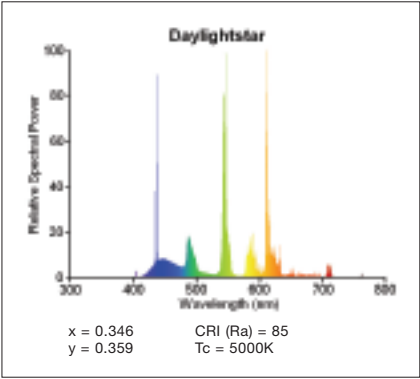
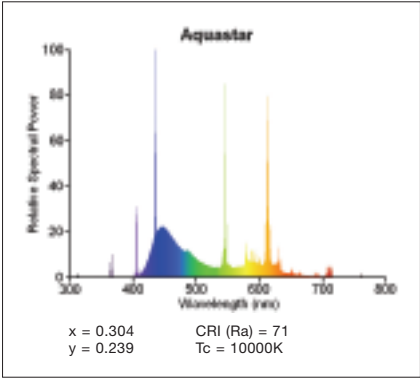


- - - F58W
 — F65W



Spectral Power Distribution





Applications and Lamp Colours

	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
Department stores/Shops											
Grocery shops				○		○	▼				
Meat Counter				○			○				▼
Bakers/Patisseries				○		○	▼				
Boutiques				▼			▼				
Shoe Shops				▼			▼				
Furniture Stores						○	▼				
Books Shops/Record Stores				○			▼				
Chemists & cosmetic shops	○						▼	▼			
Florists	▼	○		○			▼		▼		
Pet shops/Aquaria/Terrariums	▼	○		○					▼	▼	
Hotels/Conference Centres											
Lobbies and Corridors				○		○	▼				
Dining Rooms							▼	▼			
Bedrooms							○	▼			
Conference Areas				○			▼				
Schools											
Sports Areas			○	▼			○				
Classrooms				○			▼				
Corridors			▼	○		○	▼				
Restaurants							▼	▼			
Hospitals											
Wards				▼			▼				
General	▼			○			○				
Offices	○			▼			▼				
Industrial											
Workshops			○	▼	○	○	○				
Warehouses			▼	○	○	○	○				
Textiles and Printing	▼	○		▼			○				
Plastics and Chemicals			○	▼			▼				
Automobile industry	▼	○		▼			○				
Laboratories	▼			▼			▼				
Quality Inspection Depts	▼			○			○				
Domestic											
Living Room							○	▼			
Kitchens, Bathrooms							○	▼			
Plants, Fish Tanks	○			○			○		▼		

COOL

INTERMEDIATE

WARM

SPECIAL

▼ = Recommended

○ = Alternative

LOW WATTAGE METAL HALIDE

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LOW PRESSURE SODIUM

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MANUFACTURER'S LAMP CROSS REFERENCE

Sylvania	Osram	Philips	GE
BriteSpot	—	—	—
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	—	ARC/T/H
HSI-HX	HQI-E/N/SI	HPI Plus	—
HSI-THX	HQI-T/N/SI	HPI-T	—
HSI-T Daylight	HQI-T/D	—	—
HSI-T High Wattage	HQI-T/N/SN	HPI-T	—
HSI-TD High Wattage	HQI-TS/D/S	—	—
SHP Super	NAV Super	SON PLUS	Lucalox HO
SHP-TS GroLux	—	—	—
SHP Mercury Free	—	SON Hg FREE	—
SHP TwinArc	—	—	—
SHP Standard	NAV Standard	SON	Lucalox
SHP Self-Starting	NAV/I Standard	—	—
SHX Plug-In	NAV Plug-In	SON-H	Lucolux 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 both 20W and 35W with a choice of 24, 38 and 60 degree beams.



The NEW 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 6000 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 NDL – 4200K available colour temperatures with a colour rendering index Ra85.

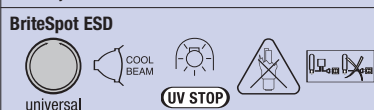
The easy to install GX10 twist and lock base is a feature on all of the BriteSpot reflector lamps along with safe end of life failure mode for use in open luminaires.

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.

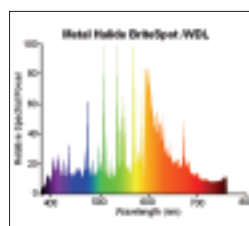
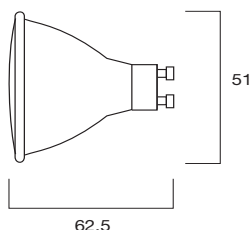
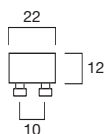


BriteSpot ES50™ / ESD50™

NEW



GX10



24°		20W	35W
425mmØ	1m	3500lx	7000lx
850mmØ	2m	875lx	1750lx
1275mmØ	3m	389lx	778lx
1700mmØ	4m	219lx	438lx

38°		20W	35W
689mmØ	1m	2000lx	4000lx
1377mmØ	2m	500lx	1000lx
2066mmØ	3m	222lx	445lx
2755mmØ	4m	125lx	250lx

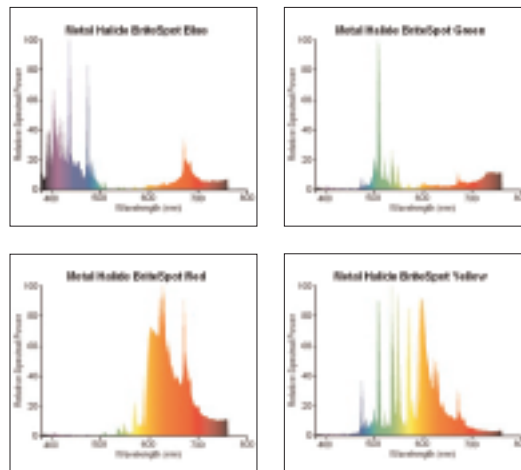
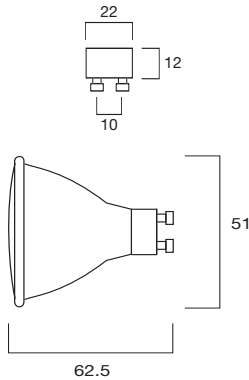
60°		20W	35W
1155mmØ	1m	1000lx	2000lx
2309mmØ	2m	250lx	500lx
3464mmØ	3m	111lx	222lx
4619mmØ	4m	63lx	125lx

- Most compact metal halide reflector lamp available, with stable light colour both initially and throughout life
- Crisp, powerful white light with outstanding colour rendering index of Ra90
- Three times more light compared to low voltage halogen lamps and reduced maintenance costs as a result of the long 6000 hour life
- Easy to install thanks to the robust new GX10 twist-lock cap
- Extreme fast run-up (within 1 minute) with special design for safe failure at end of life
- Wide range of interior applications in retail, restaurants, hotels, galleries even residential

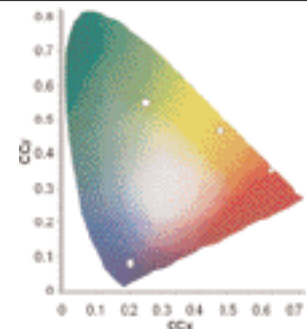


Code	Description	Watt	Volt	Current	Beam Angle	Cap	Colour Temp	CRI	Luminous Intensity	Packing Qty
BriteSpot ES50™										
0020278	BriteSpot ES50 20W 24°	22W	100V	0.22A	24°	GX10	3000K	85	3500 cd	15
0020276	BriteSpot ES50 20W 38°	22W	100V	0.22A	38°	GX10	3000K	85	2000 cd	15
0020277	BriteSpot ES50 20W 60°	22W	100V	0.22A	60°	GX10	3000K	85	1000 cd	15
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
BriteSpot ESD50™ Dichroic										
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

GX10



- 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
- 6000 hours average rated life
- Narrow spot beam delivers extra punch for accent and display lighting
- Ideal for special effects, accenting architectural features, or attracting attention in retail and commercial environments



Code	Description	Watt	Volt	Current	Beam Angle	Cap	Colour Point CCx	CCy	Packing Qty
BriteSpot ESD50™ Coloured									
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



BriteSpot ES



UV STOP

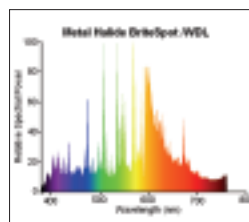
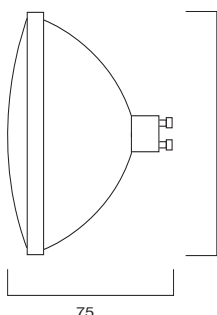


universal

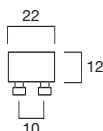
BriteSpot ESD



universal



GX10



8°		35W
140mmØ	1m	4000lx
280mmØ	2m	1000lx
420mmØ	3m	444lx
560mmØ	4m	250lx

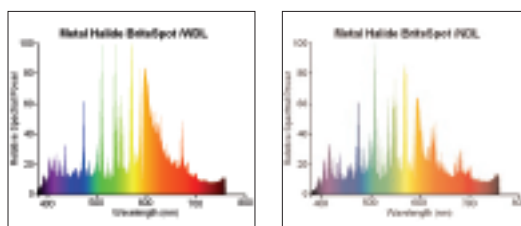
24°		35W	70W
425mmØ	1m	1000lx	2000lx
850mmØ	2m	250lx	500lx
1275mmØ	3m	111lx	222lx
1700mmØ	4m	62lx	125lx

45°		35W	70W
828mmØ	1m	350lx	700lx
1657mmØ	2m	87lx	175lx
2485mmØ	3m	38lx	77lx
3314mmØ	4m	21lx	43lx

- 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
- 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
BriteSpot ES111™										
0020200	BriteSpot ES111 35W 8°	39W	100V	0.53A	8°	GX10	3000K	90	4000 cd	15
0020201	BriteSpot ES111 35W 24°	39W	100V	0.53A	24°	GX10	3000K	90	1000 cd	15
0020202	BriteSpot ES111 35W 45°	39W	100V	0.53A	45°	GX10	3000K	90	350 cd	15
BriteSpot ESD111™ Dichroic										
0020207	BriteSpot ESD111 70W 24°	75W	100V	0.98A	24°	GX10	3000K	90	2000 cd	15
0020208	BriteSpot ESD111 70W 45°	75W	100V	0.98A	45°	GX10	3000K	90	700 cd	15



	70W	150W
L	117.6	135.4
D	22	25



RX7s
22.4 [] 17.49

RX7s-24
24 [] 17.49



UV STOP



- 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
BriteSpot DE™									
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



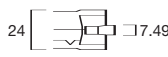


CMI-T

CMI-TD

CMI-TC



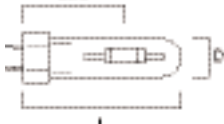
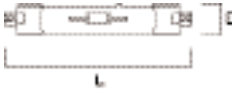
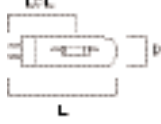


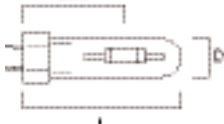
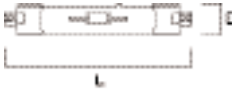
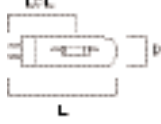

G12

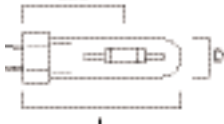
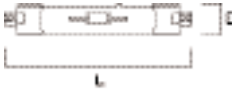
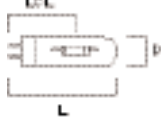
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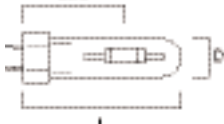
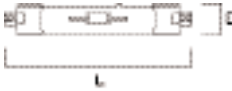
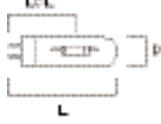
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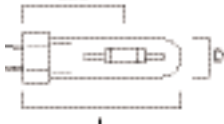
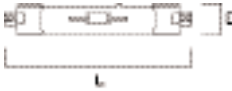
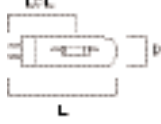
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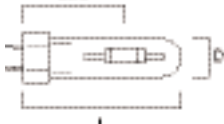
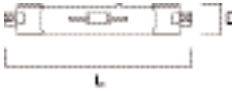
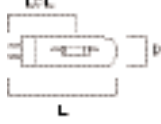




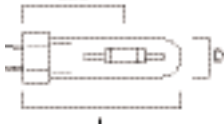
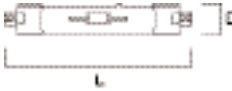
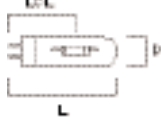




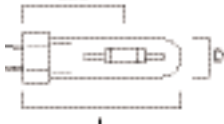
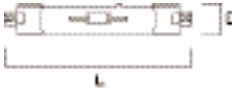
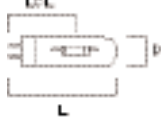




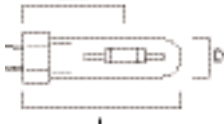
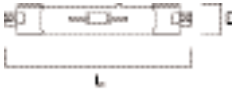
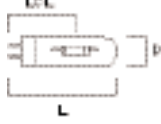




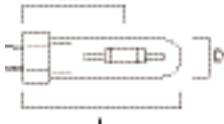
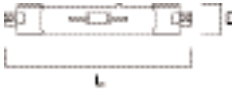
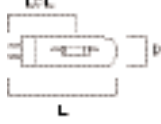




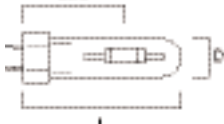
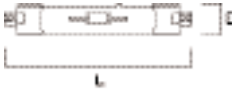
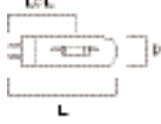




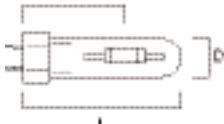
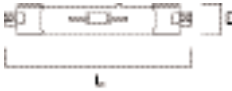
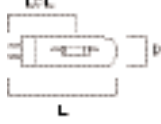




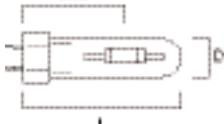
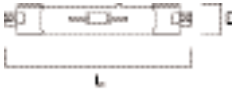
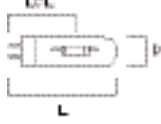




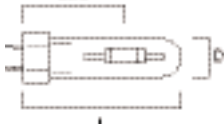
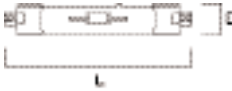
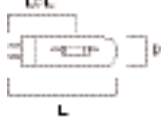




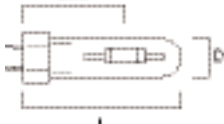
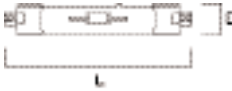
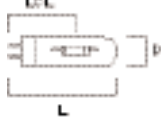




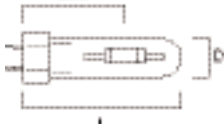
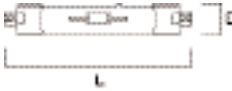
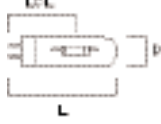




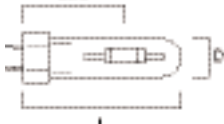
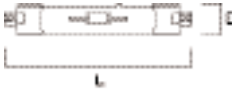
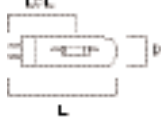




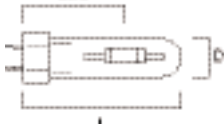
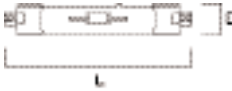
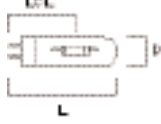




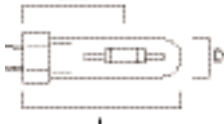
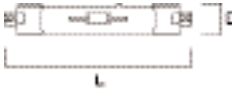
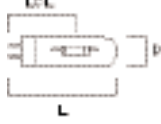




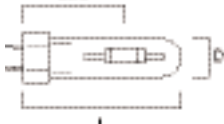
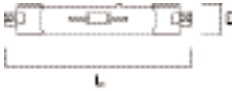
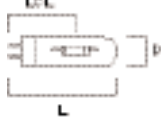




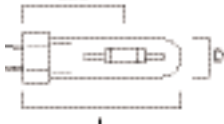
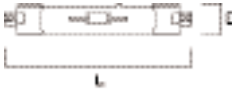
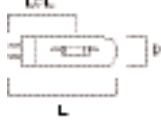




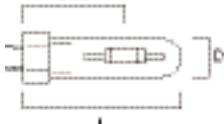
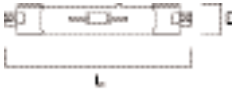
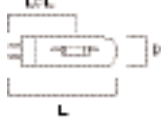




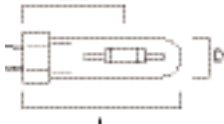
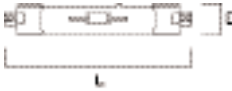
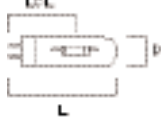




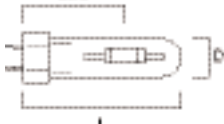
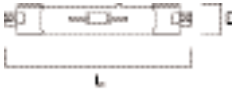
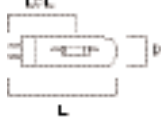




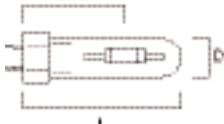
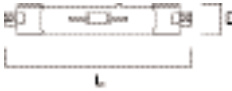
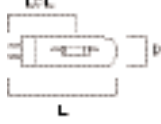




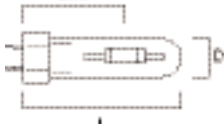
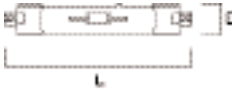
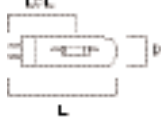




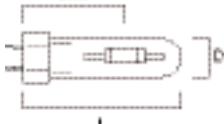
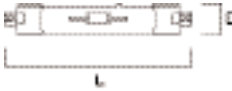
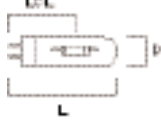




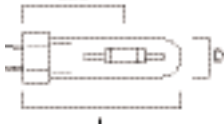
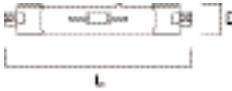
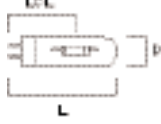




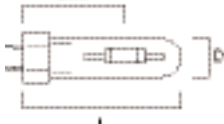
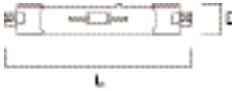
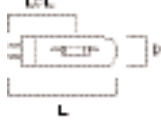




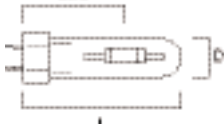
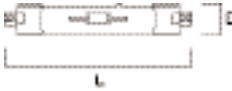
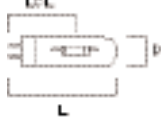




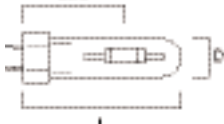
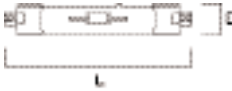
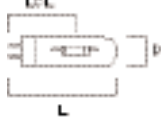




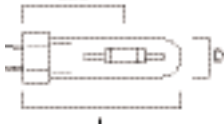
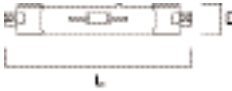
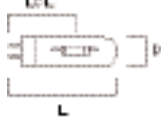




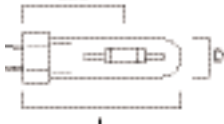
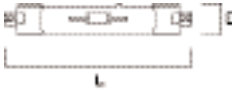
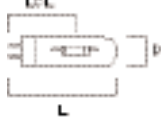




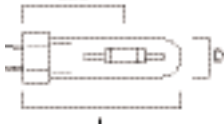
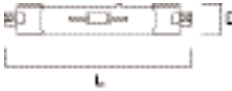
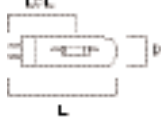




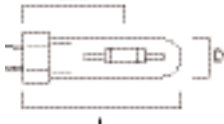
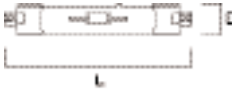
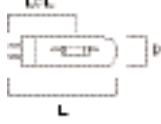




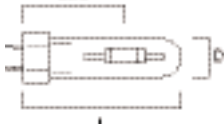
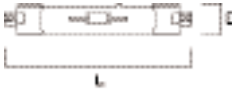
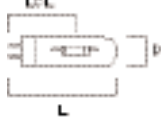




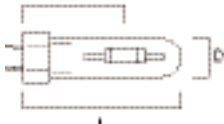
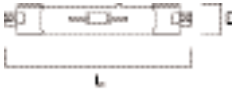
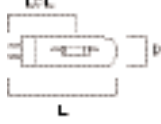




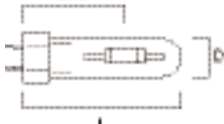
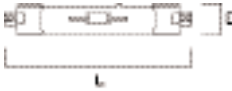
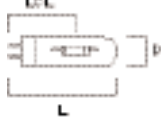




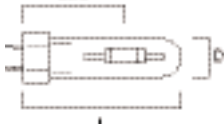
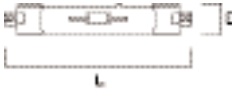
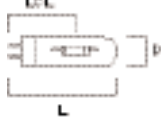




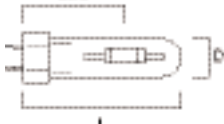
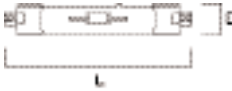
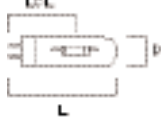




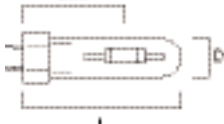
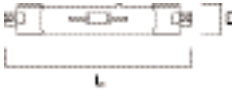
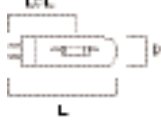




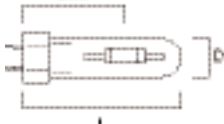
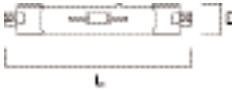
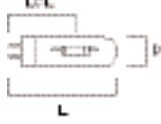




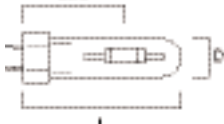
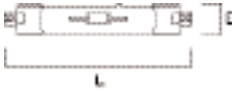
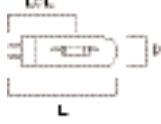




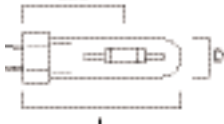
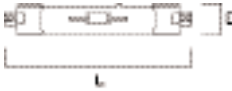
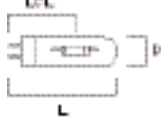




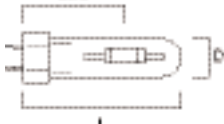
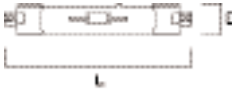
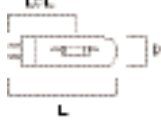




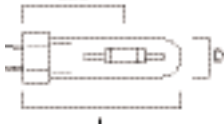
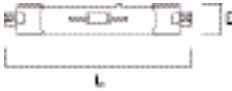
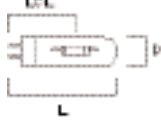




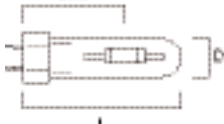
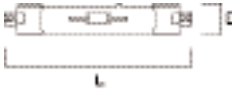
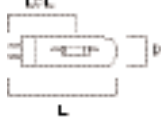




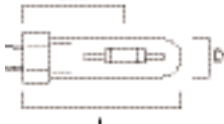
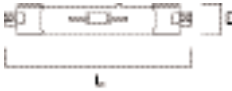
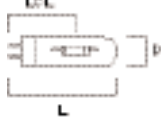




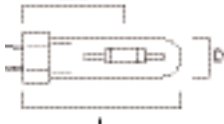
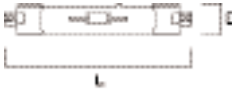
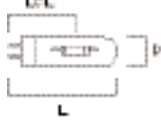




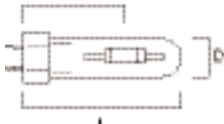
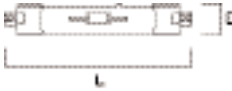
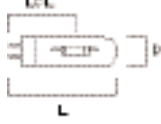




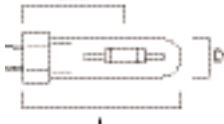
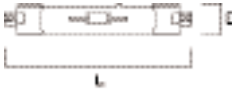
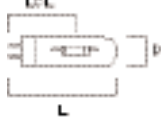




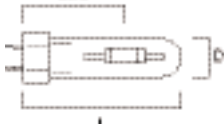
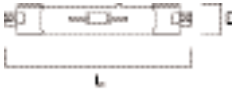
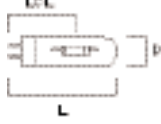




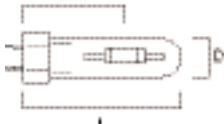
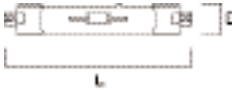
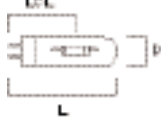




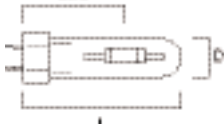
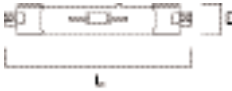
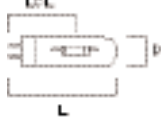




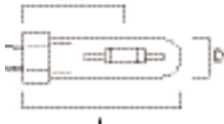
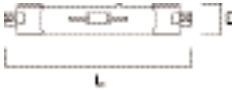
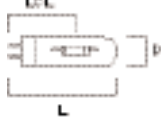




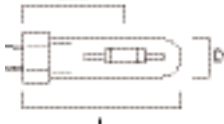
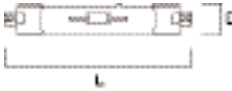
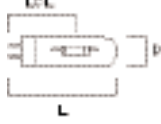




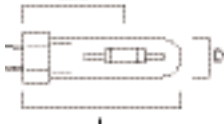
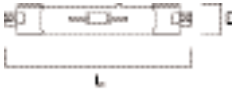
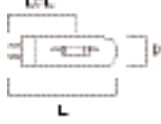




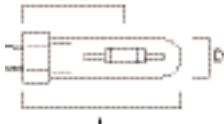
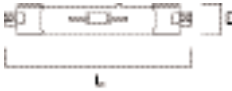
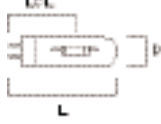




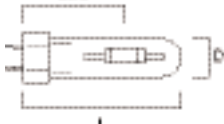
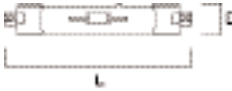
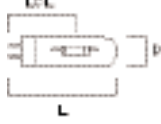




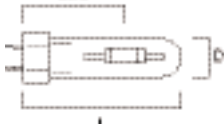
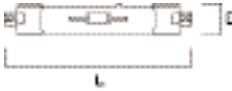
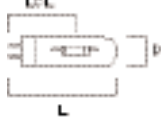




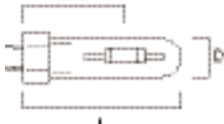
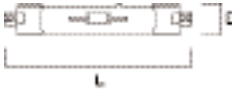
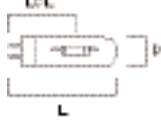




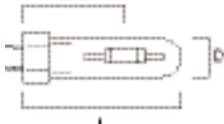
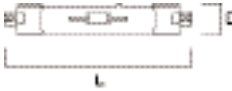
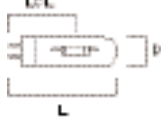




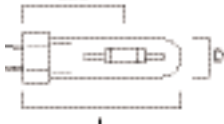
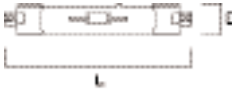
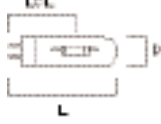




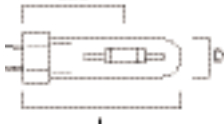
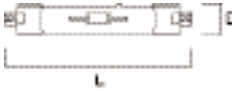
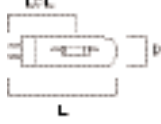




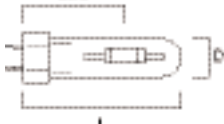
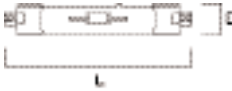
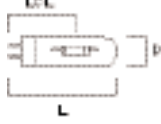




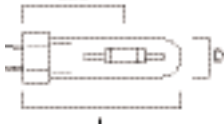
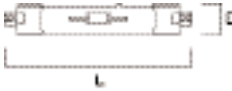
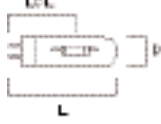




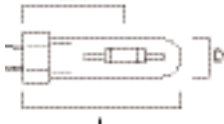
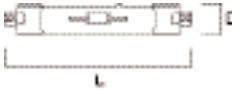
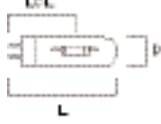




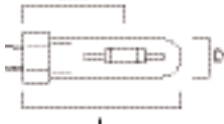
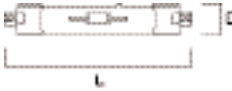
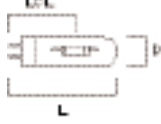




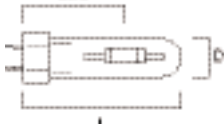
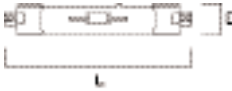
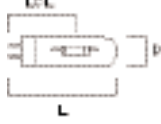




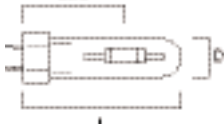
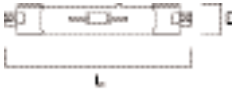
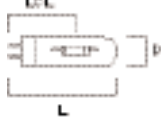




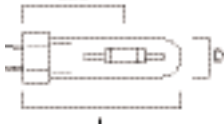
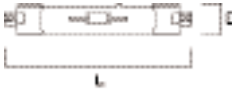
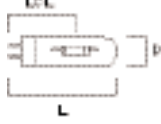




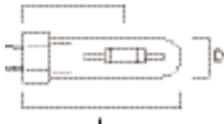
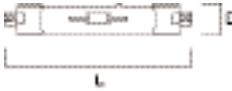
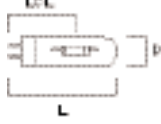




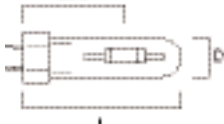
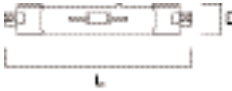
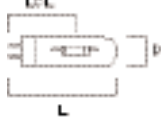




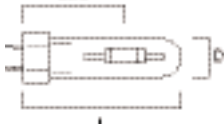
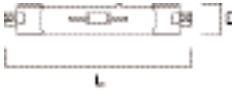
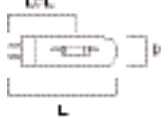




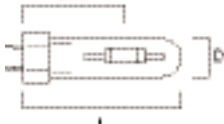
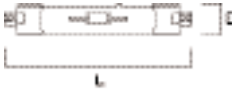
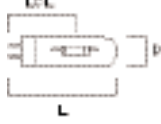




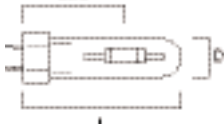
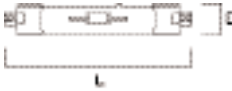
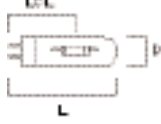




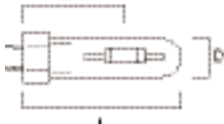
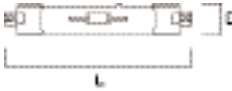
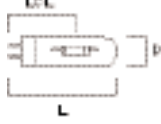




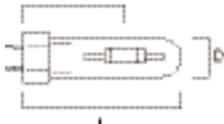
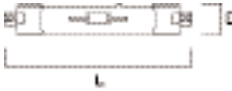
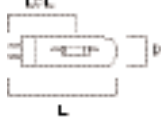




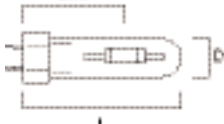
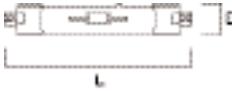
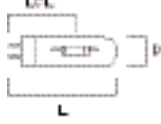




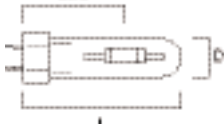
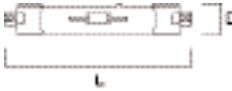
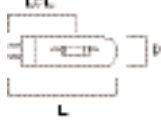




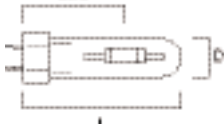
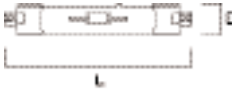
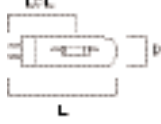




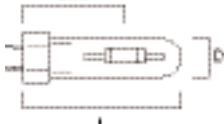
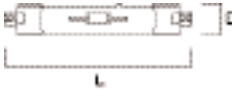
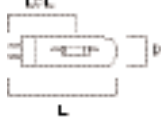




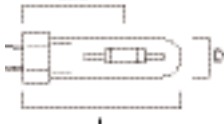
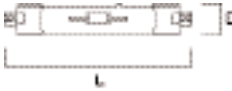
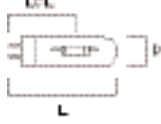




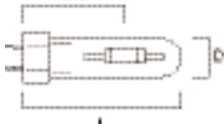
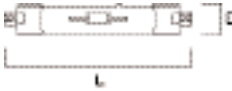
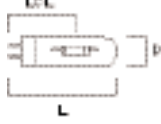




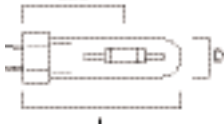
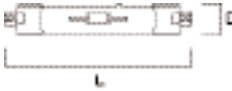
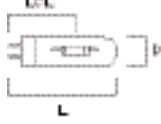




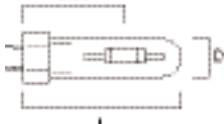
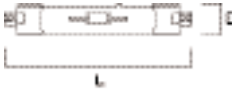
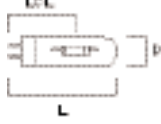




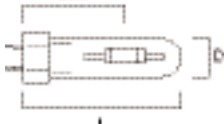
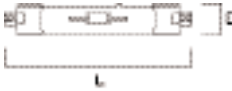
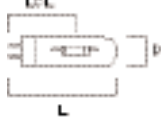




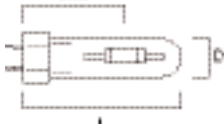
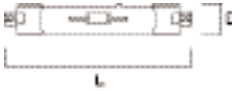
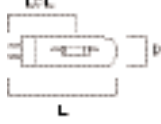




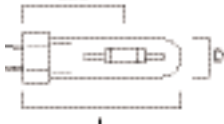
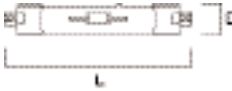
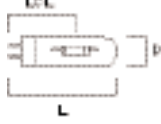




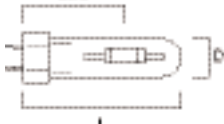
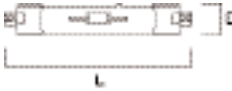
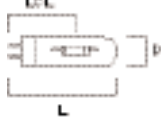




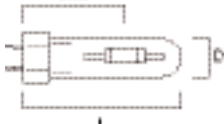
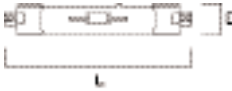
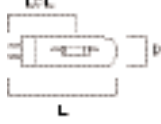




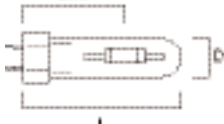
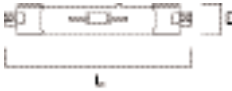
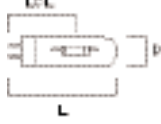




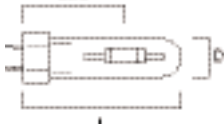
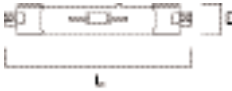
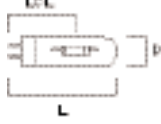




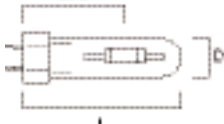
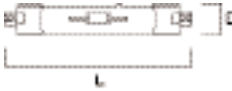
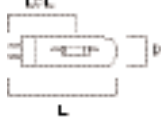




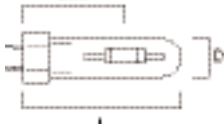
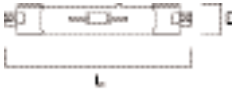
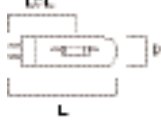




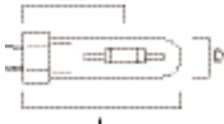
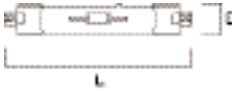
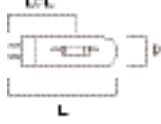




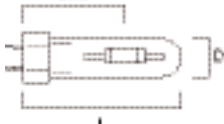
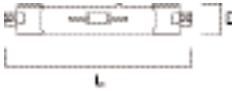
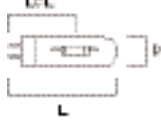




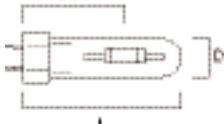
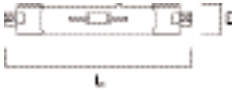




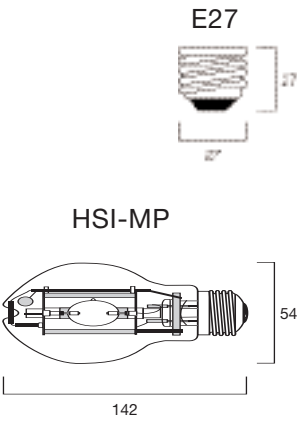




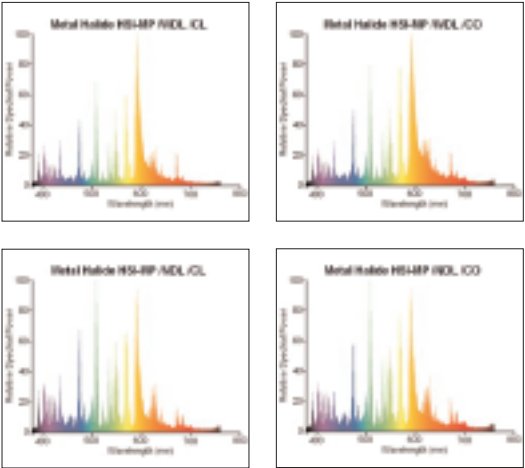


E27

HSI-MP

142

54












universal

- 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

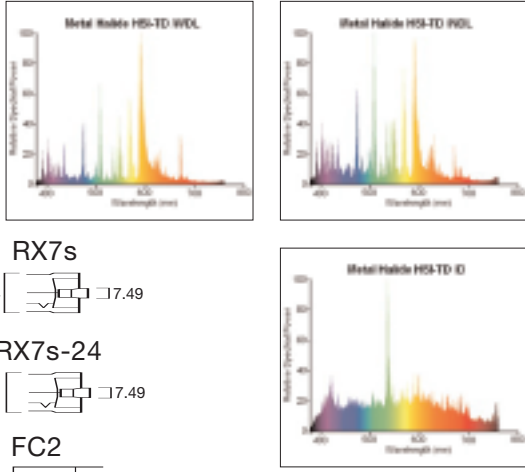


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-MP MetalArc									
0020810	HSI-MP 70W CL/WDL	75W	95V	1.00A	E27	Clear	3000K	5500 lm	12
0020811	HSI-MP 70W CO/WDL	75W	95V	1.00A	E27	Coated	2900K	5200 lm	12
0020812	HSI-MP 70W CL/NDL	75W	95V	1.00A	E27	Clear	4000K	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

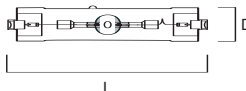
HSI-TD MetalArc



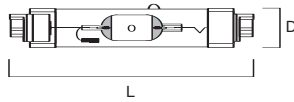
HSI-TD	70W	150W	250W
L	117.6	135.4	161.6
D	22	25	27.5



RX7s



FC2



RX7s



RX7s-24



FC2





horizontally ±45°

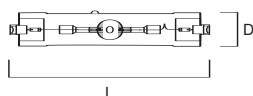
- Double ended quartz metal halide lamps with a compact tubular clear outer envelope
- Choice of three different colour temperatures: Warm, Neutral White and Daylight
- UV-stop outer jacket for reduced risks of fading
- High efficiency, compact arc tube
- Suitable for general interior lighting in uplights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



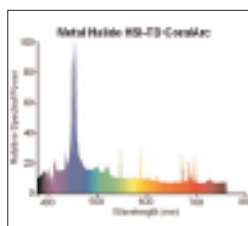
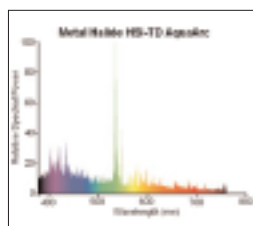
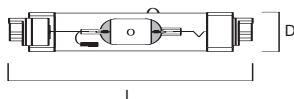
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-TD MetalArc									
0021030	HSI-TD 70W/WDL	75W	95V	0.98A	RX7s	Clear	3000K	5500 lm	10
0021031	HSI-TD 70W/NDL	75W	95V	0.98A	RX7s	Clear	4200K	5800 lm	10
0021045	HSI-TD 70W/D	75W	108V	0.98A	RX7s	Clear	5600K	5400 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

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

RX7s



FC2



RX7s-24



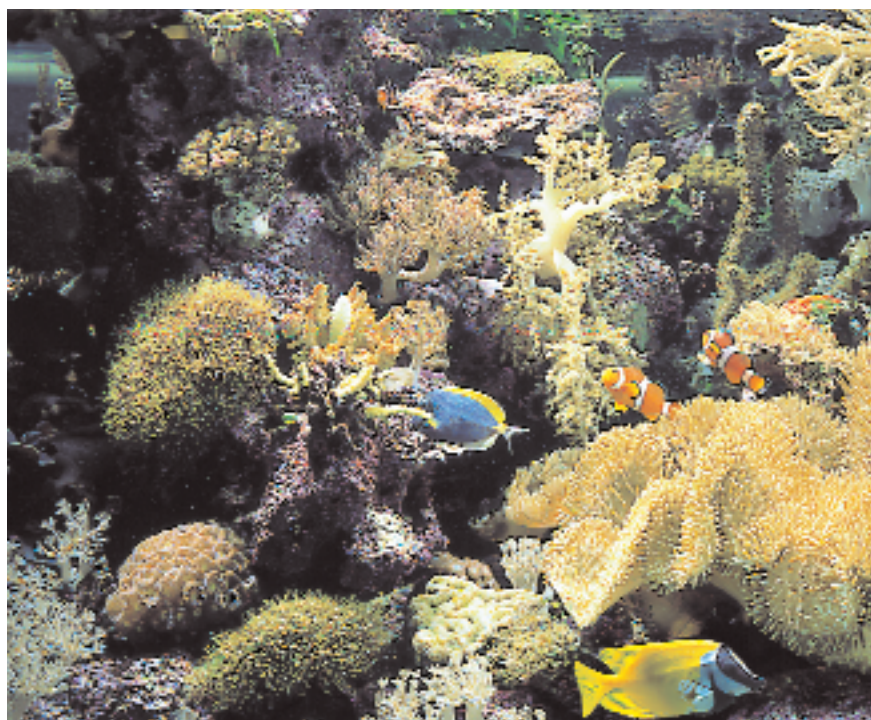
FC2



horizontally ±45°

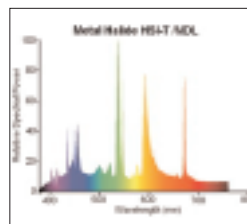
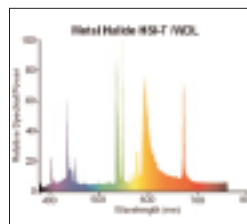


- Double ended quartz metal halide lamps for aquarium illumination
- AquaArc (blue) and CoralArc (deep blue) spectra specially tailored for maximum health and beauty of both fresh and sea water aquaria
- UV-transmitting outer jacket delivers full spectrum output
- Extremely good colour stability over life with high colour rendition
- AquaArc ensures a lifelike appearance of fish, corals and plants in fresh and salt water
- CoralArc provides a specific spectrum necessary to achieve the blue chlorophyll absorption for zooxanthellae symbioses to develop

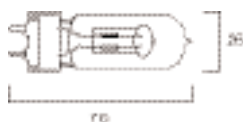


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Point CCx	CCy	Luminous Flux	Packing Qty
HSI-TD AquaArc										
0021049	HSI-TD 150W AquaArc	150W	100V	1.80A	RX7s-24	Clear	0.277	0.311	9000 lm	10
0021050	HSI-TD 250W AquaArc	250W	100V	3.00A	FC2	Clear	0.275	0.323	14000 lm	10
HSI-TD CoralArc										
0021028	HSI-TD 150W CoralArc	150W	100V	1.80A	RX7s-24	Clear	0.261	0.257	5400 lm	10
0021029	HSI-TD 250W CoralArc	250W	100V	3.00A	FC2	Clear	0.257	0.243	8000 lm	10

HSI-T MetalArc



HSI-T



G12



UV STOP



universal

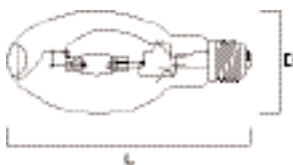
- Single ended quartz metal halide lamps with a compact tubular clear outer envelope
- Small point light source allows compact luminaire designs
- Ideal for spotlighting where high intensities are required
- UV-stop outer jacket for reduced risks of fading
- Suitable for interior accent and display lighting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



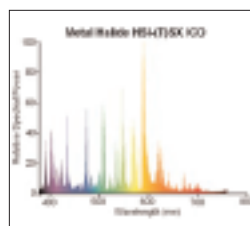
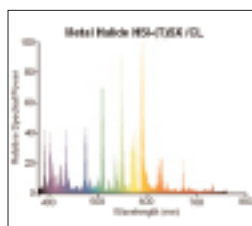
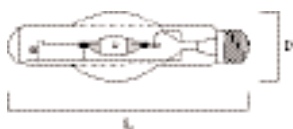
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-T MetalArc									
0020335	HSI-T 70W/WDL	75W	95V	0.95A	G12	Clear	3000K	5200 lm	12
0020340	HSI-T 70W/NDL	75W	95V	0.95A	G12	Clear	4200K	5200 lm	12
0020336	HSI-T 150W/WDL	146W	95V	1.82A	G12	Clear	3000K	12000 lm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

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

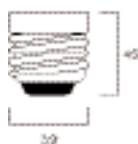
HSI-SX



HSI-TSX



E40



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
HSI-SX BriteLux Elliptical									
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
HSI-TSX BriteLux Tubular									
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

HSI-HX / HSI-THX



HSI-HX



vertically ±15°

HSI-HX/I



vertically ±15°



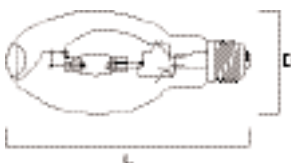
HSI-THX



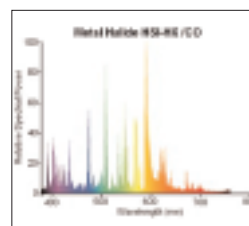
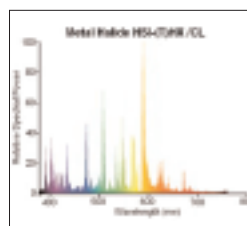
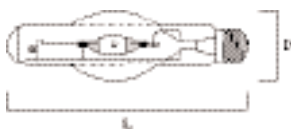
horizontally ±30°

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

HSI-HX



HSI-THX



E40



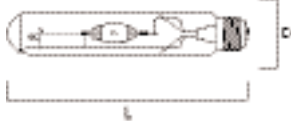
- HX family of metal halide lamps for use with a mercury ballast with soft ignitor
- 'I' internal ignitor versions available, for simpler circuits with no ignitor
- 'I' versions can be used as a direct replacement for mercury discharge lamps
- High lumen package with good colour rendering properties
- 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
HSI-HX Elliptical									
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
0020356	HSI-HX 250W/CO/I	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
HSI-THX Tubular									
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

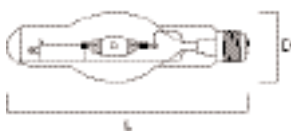
HSI-T Daylight

HSI-T Daylight	250W	400W
L	225	285
D	48	63

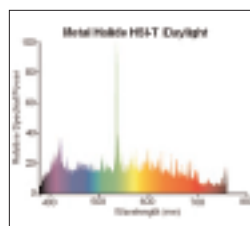
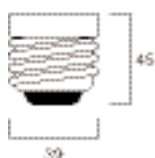
HSI-T Daylight 250W



HSI-T Daylight 400W



E40



UV STOP



- 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

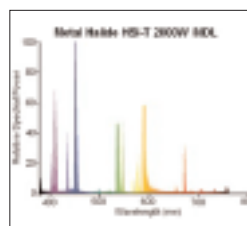


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-T Daylight									
0020530	HSI-T 250W/D	250W	98V	3.0A	E40	Clear	5300K	20000 lm	12
0020531	HSI-T 400W/D	400W	122V	4.4A	E40	Clear	6100K	32000 lm	12

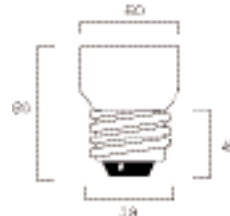
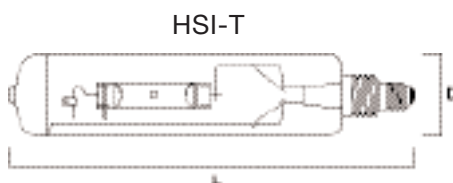
HSI-T



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



E40



HSI-T



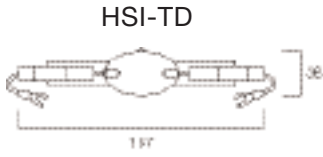
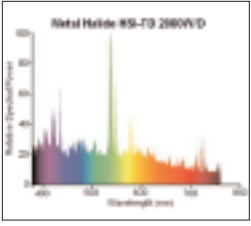
HSI-T/I



- 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



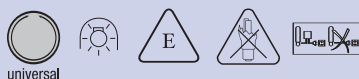
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-T									
0020597	HSI-T 1000W	965W	130V	8.25A	E40	Clear	4000K	81000 lm	4
0020533	HSI-T 2000W-S/380V	2000W	235V	9.00A	E40	Clear	4000K	200000 lm	4
0020540	HSI-T 2000W-S/I/380V	2000W	235V	9.00A	E40	Clear	4000K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

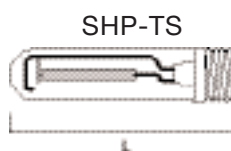
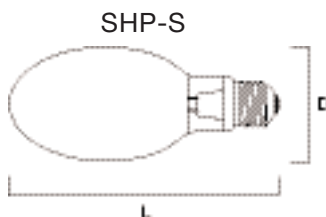
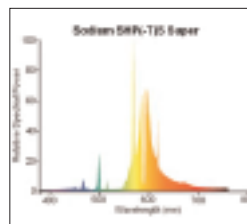


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-TD									
0020339	HSI-TD 2000W/D	1950W	205V	11.30A	Cable	Clear	5600K	200000 lm	10

SHP-S / SHP-TS Super



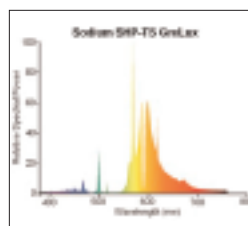
SHP-S	35W	50W	70W	100W	150W	250W	400W
L	165	165	165	186	227	227	292
D	72	72	72	78	91	91	122
SHP-TS	50W	70W	100W	150W	250W	400W	600W
L	156	156	211	211	260	292	292
D	39	39	48	48	48	48	48



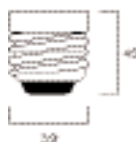
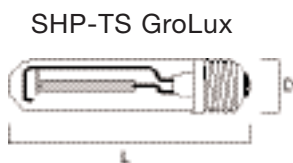
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- Exclusive 'frameless' construction delivers superior system efficiency and improves lumen maintenance over life
- Exceptional reliability, offering 4 years service with 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
SHP-S Super Elliptical									
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
SHP-TS Super Tubular									
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	10000 lm	12
0020685	SHP-TS 150W	150W	100V	1.80A	E40	Clear	2050K	17000 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	5.90A	E40	Clear	2050K	90000 lm	12

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



E40



- 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



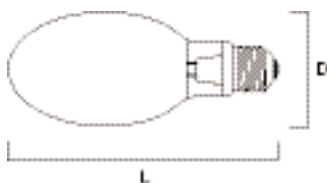
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Photosynthetic (PhytoLm)	PAR (μ mol)	Packing Qty
SHP-TS GroLux Tubular										
0020807	SHP-TS 400W GroLux	425W	120V	4.00A	E40	Clear	2050K	128000	713	12
0020808	SHP-TS 600W GroLux	615W	125V	5.50A	E40	Clear	2050K	200000	1100	12
0020809	SHP-TS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

SHP-S / SHP-TS Mercury Free

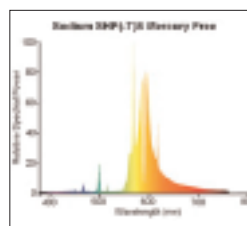
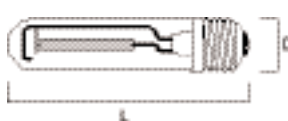


SHP-S	70W	100W	150W	250W	400W
L	165	186	227	227	292
D	72	78	91	91	122
SHP-TS	70W	100W	150W	250W	400W
L	156	211	211	260	292
D	39	48	48	48	48

SHP-S

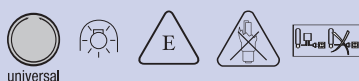


SHP-TS



E40

E27

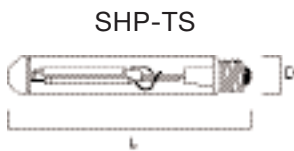
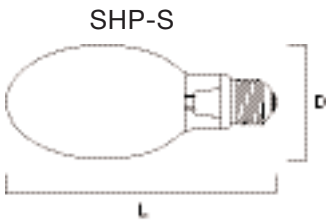
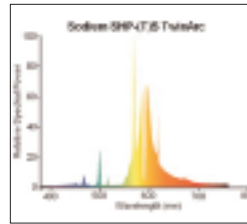


- Range of environmentally friendly high pressure sodium lamps containing no mercury
- Fast run-up characteristics in comparison to high pressure sodium lamps with mercury
- Performance characteristics in line with other high pressure sodium lamps
- For applications where environmental and disposal considerations are important
- Complete range of clear tubular and coated ellipsoidal lamps
- For streets, parks, tunnels and industrial lighting in general



Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP-S Mercury Free Ellipsoidal									
0020991	SHP-S 70W Mercury Free	70W	90V	0.98A	E27	Coated	2200K	5000 lm	40
0020993	SHP-S 100W Mercury Free	100W	100V	1.20A	E40	Coated	2200K	8000 lm	40
0020995	SHP-S 150W Mercury Free	153W	100V	1.80A	E40	Coated	2200K	15000 lm	12
0020997	SHP-S 250W Mercury Free	258W	100V	2.90A	E40	Coated	2200K	27500 lm	12
0020999	SHP-S 400W Mercury Free	408W	100V	4.50A	E40	Coated	2200K	50500 lm	12
SHP-TS Mercury Free Tubular									
0020990	SHP-TS 70W Mercury Free	70W	90V	0.98A	E27	Clear	2200K	5300 lm	40
0020992	SHP-TS 100W Mercury Free	100W	100V	1.20A	E40	Clear	2200K	9000 lm	12
0020994	SHP-TS 150W Mercury Free	153W	100V	1.80A	E40	Clear	2200K	16000 lm	12
0020996	SHP-TS 250W Mercury Free	258W	100V	2.90A	E40	Clear	2200K	29000 lm	12
0020998	SHP-TS 400W Mercury Free	408W	100V	4.50A	E40	Clear	2200K	53000 lm	12

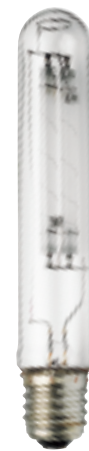
SHP-S	35W	50W	70W	100W	150W	250W	400W
L	165	165	165	186	227	227	292
D	72	72	72	78	91	91	122
SHP-TS	50W	70W	100W	150W	250W	400W	1000W
L	156	156	211	211	260	292	400
D	39	39	48	48	48	48	68



E27



E40

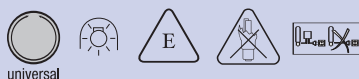


- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- Doubled lamp life and reduced occurrence of early failures
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate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



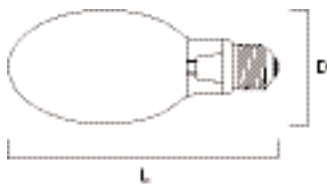
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP-S TwinArc Elliptical									
0020720	SHP-S 35W TwinArc	35W	90V	0.49A	E27	Coated	2050K	1800 lm	40
0020717	SHP-S 50W TwinArc	50W	85V	0.76A	E27	Coated	2050K	3600 lm	40
0020719	SHP-S 70W TwinArc	70W	90V	0.98A	E27	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
SHP-TS TwinArc Tubular									
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 / SHP-T Standard

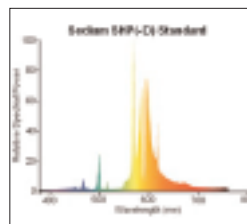
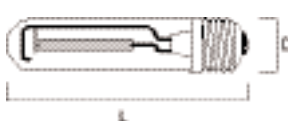


SHP	50W	70W	100W	150W	250W	400W	
L	165	165	178	227	227	292	
D	72	72	78	91	91	122	
SHP-T	50W	70W	100W	150W	250W	400W	1000W
L	156	156	-	211	260	292	400
D	39	39	-	48	48	48	68

SHP



SHP-T



E40

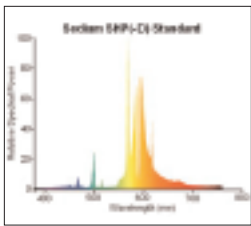
E27



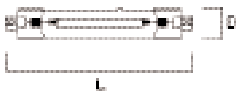
- Exclusive 'frameless' construction for improved reliability with fewer early failures
- Large wattage range with either clear tubular or coated ellipsoidal outer bulb
- Pleasant golden white light gives a warm colour appearance
- High luminous efficacy of up to 130 lm/W
- Major application in road 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
SHP Standard Elliptical									
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
SHP-T Standard Tubular									
0020554	SHP-T 50W	50W	85V	0.76A	E27	Clear	2050K	3500 lm	40
0020555	SHP-T 70W	70W	90V	0.98A	E27	Clear	2050K	6000 lm	40
0020563	SHP-T 150W	150W	100V	1.80A	E40	Clear	2050K	14500 lm	12
0020479	SHP-T 250W	250W	100V	3.00A	E40	Clear	2050K	28000 lm	12
0020481	SHP-T 400W	392W	100V	4.60A	E40	Clear	2050K	48000 lm	12
0020484	SHP-T 1000W	960W	100V	10.6A	E40	Clear	2050K	130000 lm	4

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



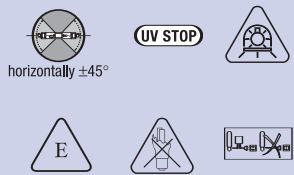
SHP-TD



RX7s



RX7s-24



horizontally $\pm 45^\circ$

- 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

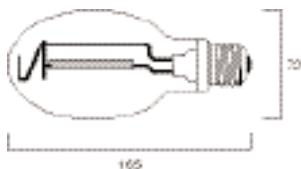


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP-TD Standard									
0020711	SHP-TD 70W	70W	90V	0.98A	RX7s	Clear	1900K	6800 lm	10
0020711	SHP-TD 150W	150W	100V	1.80A	RX7s-24	Clear	1900K	15000 lm	10

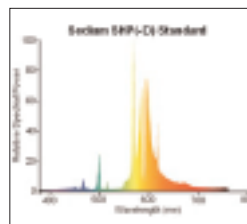
SHP Self-Starting



SHP



E27



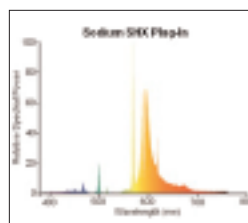
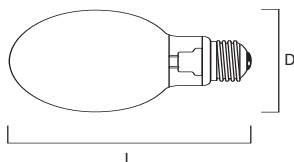
- Range of high pressure sodium lamps with internal ignitor
- Cost reduction opportunities since no ignitor or external wiring is required
- Enables luminaire size to be reduced since no ignitor is required
- Available in clear or coated ellipsoidal bulbs
- Popular choice for parks, gardens, pedestrian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



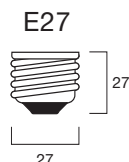
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP Self-Starting Ellipsical									
0020550	SHP 50W/CO-I	50W	85V	0.76A	E27	Coated	2050K	3300 lm	40
0020551	SHP 70W/CO-I	70W	90V	0.98A	E27	Coated	2050K	5800 lm	40
0020553	SHP 70W/CL-I	70W	90V	0.98A	E27	Clear	2050K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

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

SHX



E40



- Range of high pressure sodium lamps for direct retrofit of mercury lamps
- Equipped with integral 'probe' starter and special neon-argon filled arc tube to allow starting without any ignitor
- 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

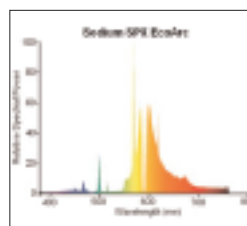


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHX Plug-In Elliptical									
0020560	SHX 110W	110W	115V	1.22A	E27	Coated	2000K	8000 lm	40
0020488	SHX 210W	210W	117V	2.25A	E40	Coated	2000K	18000 lm	12
0020490	SHX 350W	350W	117V	3.60A	E40	Coated	2000K	34500 lm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

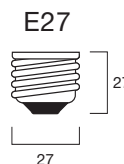
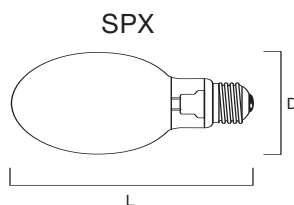
SPX EcoArc



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



E40

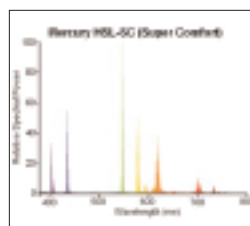


- Range of high pressure sodium lamps for direct retrofit of mercury lamps
- High xenon pressure delivers improved light output over standard retrofit types
- Internal electronic ignitor provides reliable ignition of the xenon-filled arc tube
- Provides instant energy savings up to 16% over existing mercury installations
- Increased light output up to 40% 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

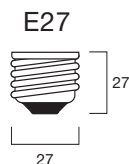
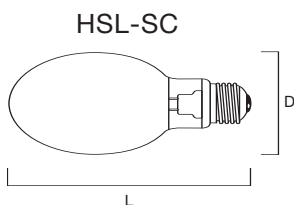


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SPX EcoArc Elliptical									
0020800	SPX EcoArc 69/108W	69W	100V	0.82A	E27	Coated	1800K	4300 lm	40
0020800	SPX EcoArc 69/108W	108W	120V	1.20A	E27	Coated	1900K	8800 lm	40
0020801	SPX EcoArc 190W	205W	150V	1.70A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

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



E40



universal



- 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

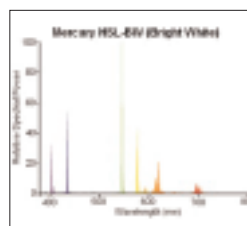


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSL-SC Super Comfort Elliptical									
0020895	HSL-SC 50W	50W	95V	0.61A	E27	Coated	3400K	2000 lm	24
0020890	HSL-SC 80W	80W	115V	0.80A	E27	Coated	3400K	4000 lm	40
0020891	HSL-SC 125W	125W	125V	1.15A	E27	Coated	3400K	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

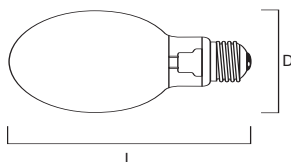
HSL-BW Bright White Standard



HSL-SC	50W	80W	125W	250W	400W	700W	1000W
L	130	166	178	228	292	357	411
D	56	71	76	91	122	152	167

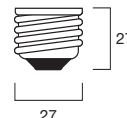


HSL-BW



E40

E27



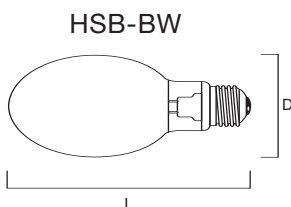
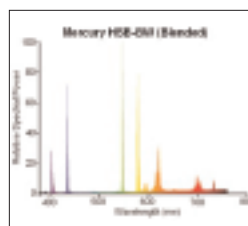
universal

- 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

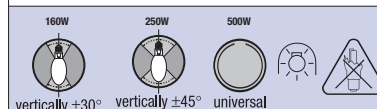
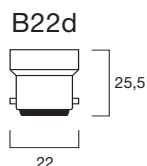
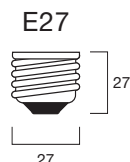


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSL-BW Bright White Standard Elliptical									
0020405	HSL-BW 50W	50W	95V	0.61A	E27	Coated	4000K	1800 lm	24
0020406	HSL-BW 80W	80W	115V	0.80A	E27	Coated	4000K	3800 lm	40
0020407	HSL-BW 125W	125W	125V	1.15A	E27	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 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	-	-



E40



- 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

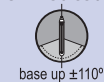


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSB-BW Bright White Blended Elliptical 230V									
0020414	HSB-BW 160W 230V	160W	230V	0.80A	E27	Coated	3500K	3100 lm	40
0020415	HSB-BW 250W 230V	250W	230V	1.20A	E40	Coated	3500K	5600 lm	12
0020449	HSB-BW 250W 230V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

SLP



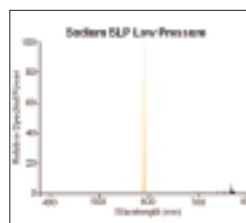
SLP 18 / 35 / 55W



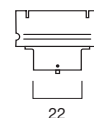
SLP 90 / 135 / 180W



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



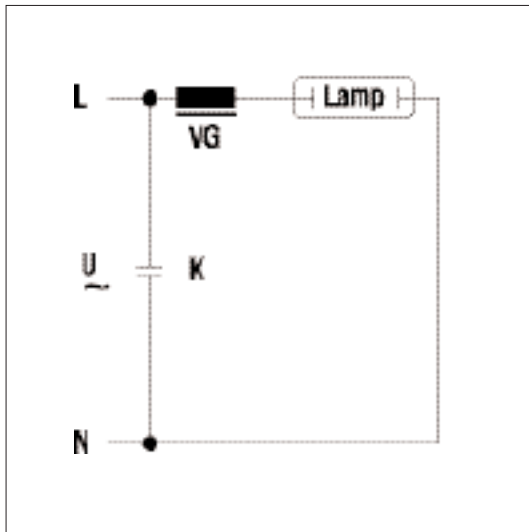
BY22d



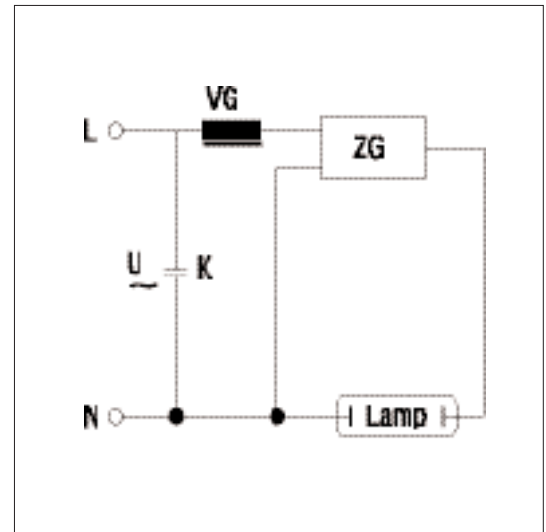
- Range of monochromatic low pressure sodium discharge lamps
- Highest efficacy available – up to 183 lm/W
- Monochromatic warm yellow light
- Radiates light in the most effective part of the visible spectrum
- Road lighting with maximum light levels with minimum energy costs
- Pedestrian crossing lighting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

Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SLP Tubular									
0020528	SLP 18W	18W	57V	0.35A	BY22d	Clear	1800K	1800 lm	20
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	9
0020497	SLP 90W	90W	112V	0.94A	BY22d	Clear	1800K	13000 lm	9
0020498	SLP 135W	135W	164V	0.95A	BY22d	Clear	1800K	21500 lm	9
0020499	SLP 180W	180W	240V	0.91A	BY22d	Clear	1800K	33000 lm	9

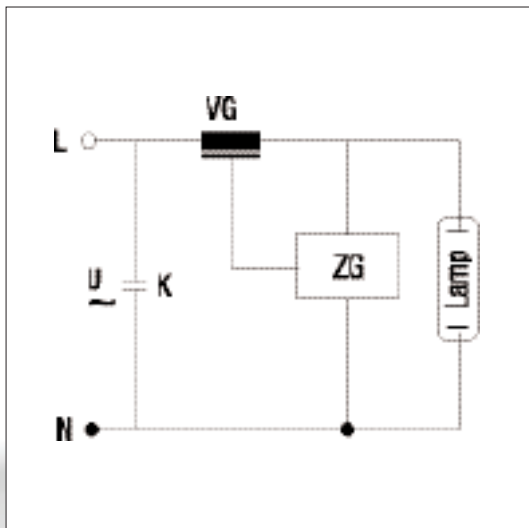
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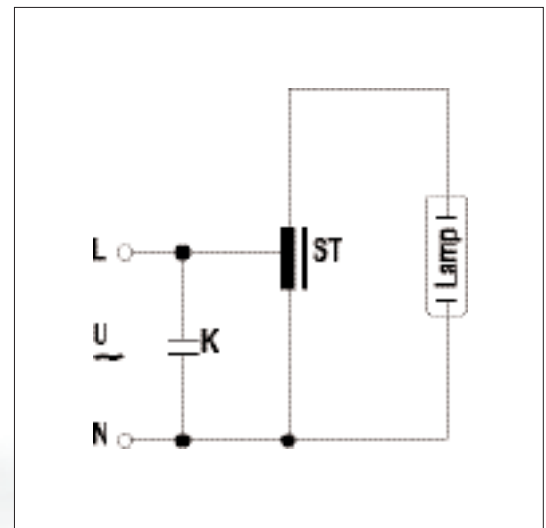
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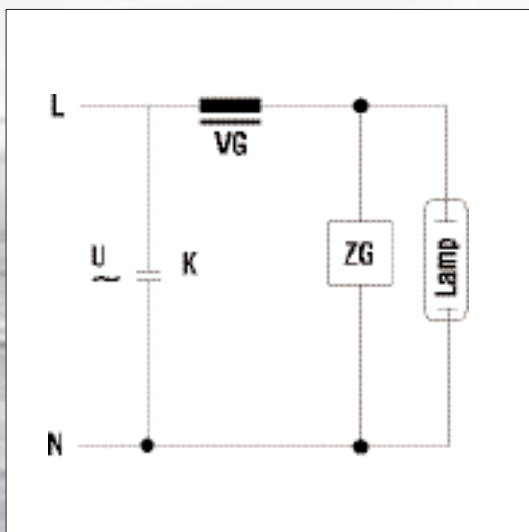
No 3



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 20W 24°	24W	N/A	1B	Electronic
BriteSpot ES50 20W 38°	24W	N/A	1B	Electronic
BriteSpot ES50 20W 60°	24W	N/A	1B	Electronic
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	1A	Electronic
BriteSpot ESD50 35W/Green	42W	N/A	1A	Electronic
BriteSpot ESD50 35W/Red	42W	N/A	1A	Electronic
BriteSpot ESD50 35W/Yellow	42W	N/A	1A	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	2/5
HSI-SX 250W/CL/P BriteLux	290W	40	2B	2/5
HSI-SX 250W/CO BriteLux	290W	40	2A	2/5
HSI-SX 250W/CO/P BriteLux	290W	40	2A	2/5
HSI-SX 400W/CL/P BriteLux	465W	45	2B	2/5
HSI-SX 400W/CO/P BriteLux	465W	45	2A	2/5
HSI-TSX 250W BriteLux	290W	40	2B	2/5
HSI-TSX 400W BriteLux	465W	45	2B	2/5
HSI-HX 250W/CL	265W	18	2B	5
HSI-HX 250W/CO	265W	18	2A	5
HSI-HX 250W/CO/I	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	3
HSI-T 2000W-S/380V	2022W	35	2B	3
HSI-T 2000W-S/I/380V	2022W	35	2B	1
HSI-TD 2000W/D	2030W	60	1A	2

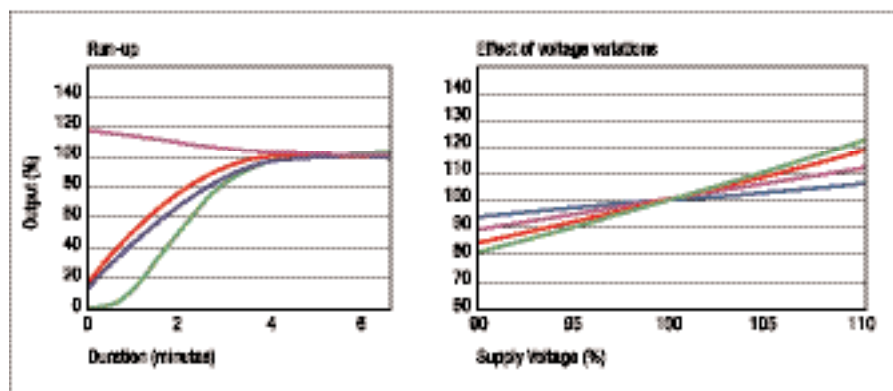
Electrical and Photometric Data

Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
SHP-S 35W	42W	6	4	2/5
SHP-S 50W	60W	8	4	2/5
SHP-S 70W	82W	10	4	2/5
SHP-S 100W	115W	12	4	2/5
SHP-S 150W	170W	20	4	2/5
SHP-S 250W	285W	40	4	2/5
SHP-S 400W	450W	45	4	2/5
SHP-TS 50W	60W	8	4	2/5
SHP-TS 70W	82W	10	4	2/5
SHP-TS 100W	115W	12	4	2/5
SHP-TS 150W	170W	20	4	2/5
SHP-TS 250W	285W	40	4	2/5
SHP-TS 400W	440W	45	4	2/5
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-S 70W Mercury Free	82W	10	4	2/5
SHP-S 100W Mercury Free	115W	12	4	2/5
SHP-S 150W Mercury Free	173W	20	4	2/5
SHP-S 250W Mercury Free	288W	40	4	2/5
SHP-S 400W Mercury Free	448W	45	4	2/5
SHP-TS 70W Mercury Free	82W	10	4	2/5
SHP-TS 100W Mercury Free	115W	12	4	2/5
SHP-TS 150W Mercury Free	173W	20	4	2/5
SHP-TS 250W Mercury Free	288W	40	4	2/5
SHP-TS 400W Mercury Free	448W	45	4	2/5
SHP-S 35W TwinArc	42W	6	4	2/5
SHP-S 50W TwinArc	60W	8	4	2/5
SHP-S 70W TwinArc	82W	10	4	2/5
SHP-S 100W TwinArc	115W	12	4	2/5
SHP-S 150W TwinArc	170W	20	4	2/5
SHP-S 250W TwinArc	285W	40	4	2/5
SHP-S 400W TwinArc	450W	45	4	2/5
SHP-TS 50W TwinArc	60W	8	4	2/5
SHP-TS 70W TwinArc	82W	10	4	2/5
SHP-TS 100W TwinArc	115W	12	4	2/5
SHP-TS 150W TwinArc	170W	20	4	2/5
SHP-TS 250W TwinArc	285W	40	4	2/5
SHP-TS 400W TwinArc	440W	45	4	2/5
SHP-T 1000W SBY	1020W	100	4	2/5
SHP 50W	60W	8	4	2/5
SHP 70W	82W	10	4	2/5
SHP 100W	115W	12	4	2/5
SHP 150W	170W	20	4	2/5
SHP 250W	280W	40	4	2/5
SHP 400W	440W	45	4	2/5

Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
SHP-T 50W	60W	8	4	2/5
SHP-T 70W	82W	10	4	2/5
SHP-T 150W	170W	20	4	2/5
SHP-T 250W	280W	40	4	2/5
SHP-T 400W	432W	45	4	2/5
SHP-T 1000W	1020W	100	4	2/5
SHP-TD 70W	82W	10	4	2/5
SHP-TD 150W	82W	10	4	2/5
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

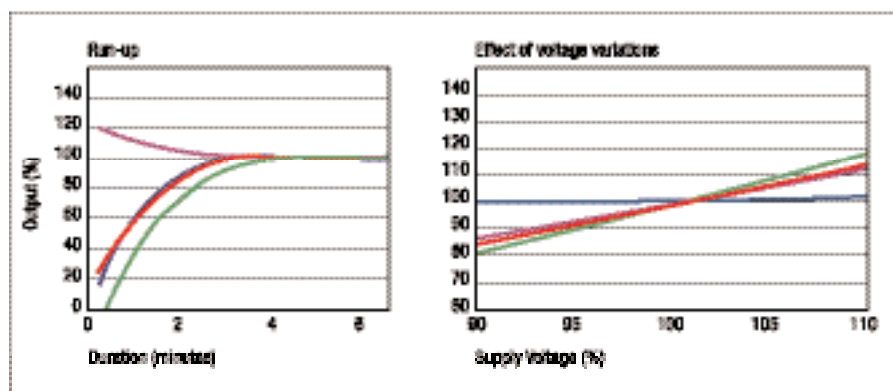
Ceramic Metal Halide



Re-start time when hot
 TD versions: immediate with appropriate
 start up system
 X, TC versions: up to 10 minutes

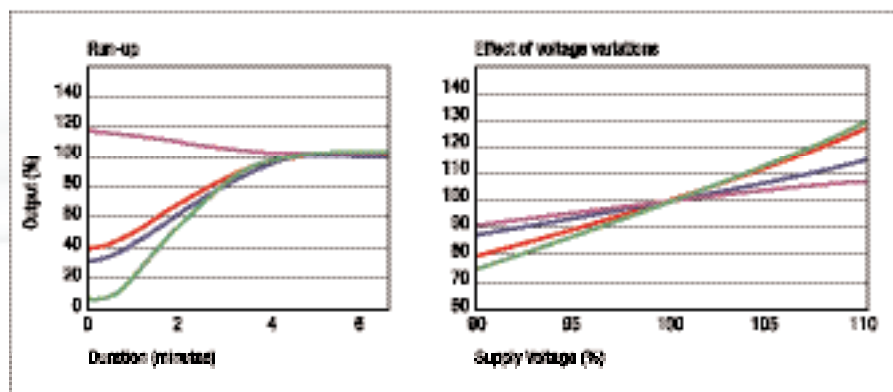
■ Lamp Voltage
 ■ Lamp Current
 ■ Lamp Power
 ■ Luminous Flux

Quartz Metal Halide



Re-start time when hot
 TD versions: immediate with appropriate
 start up system
 Other versions: up to 10 minutes

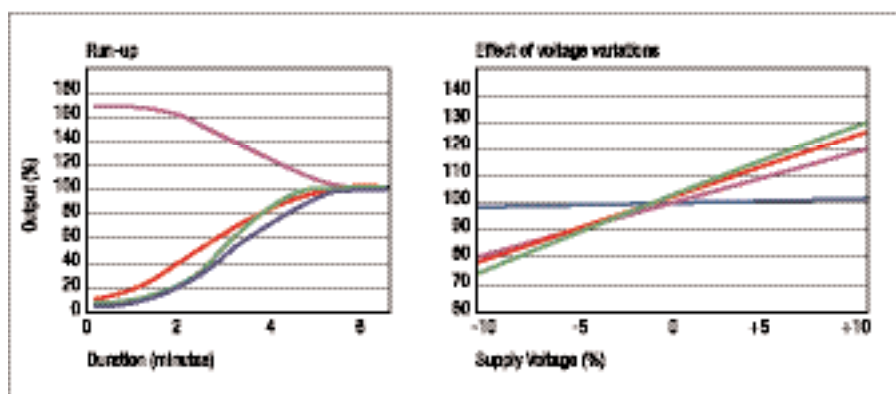
High Pressure Sodium



Re-start time when hot
 Aviacs, G&T: immediate re-start
 Standard, Super & AP: up to 1 minute

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

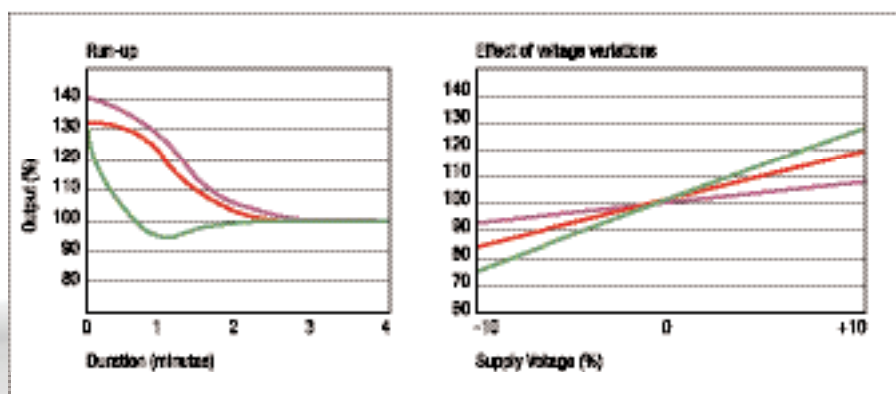
High Pressure Mercury



Re-start time when hot
5 to 10 minutes

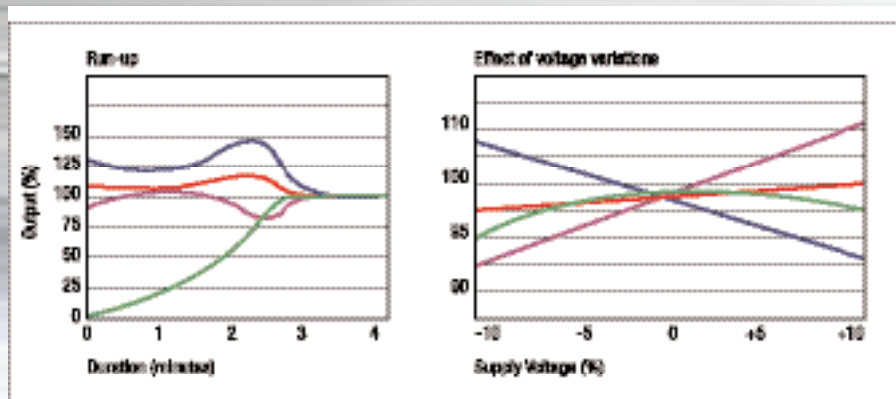
■ Lamp Voltage
■ Lamp Current
■ Lamp Power
■ Luminous Flux

Blended High Pressure Mercury



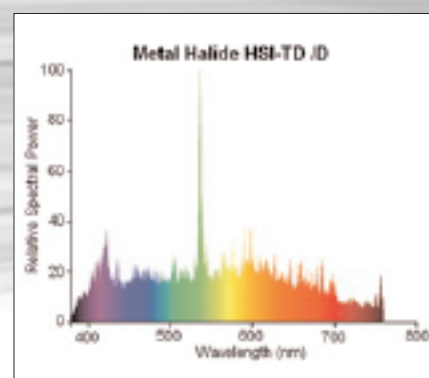
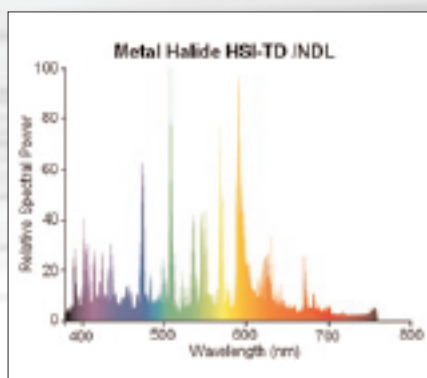
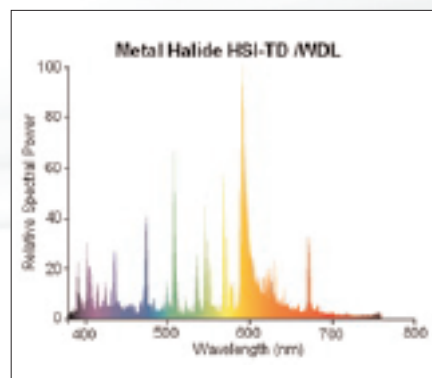
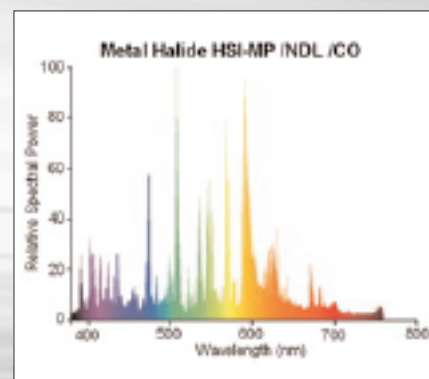
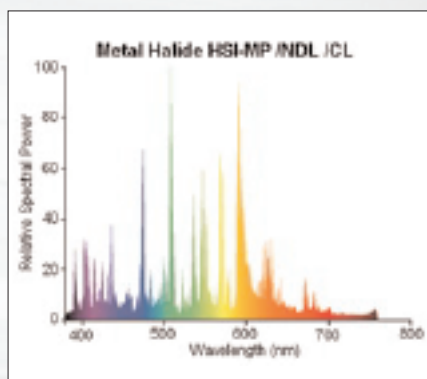
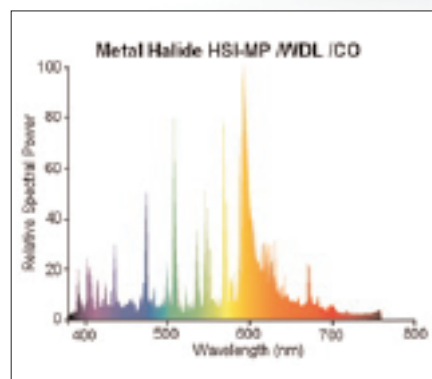
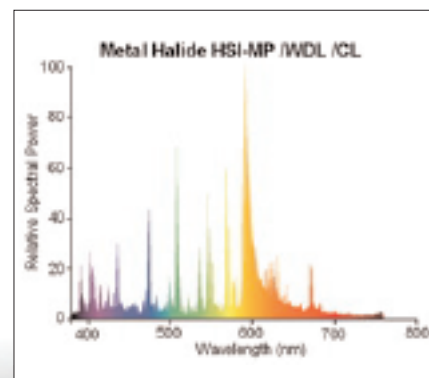
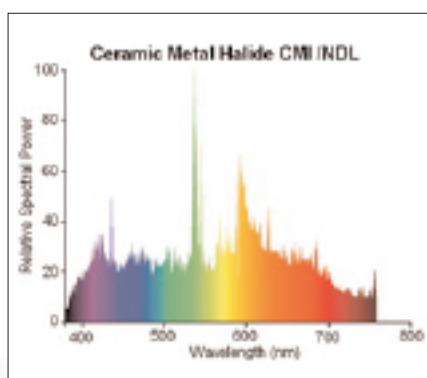
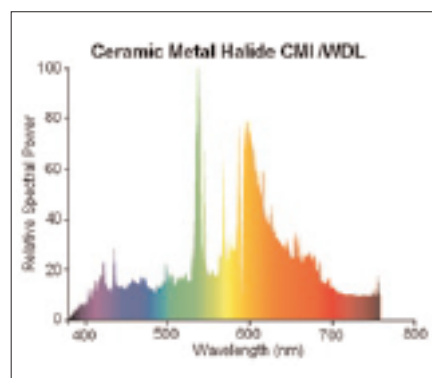
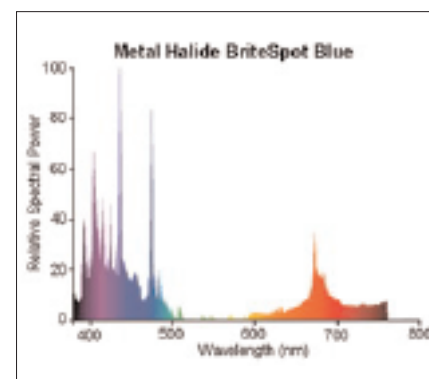
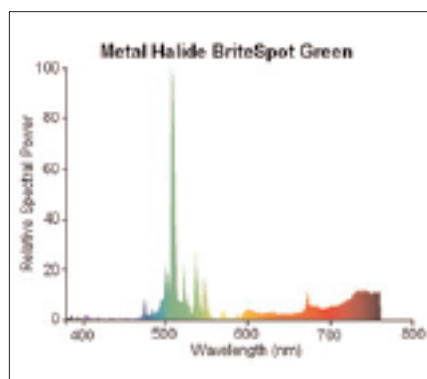
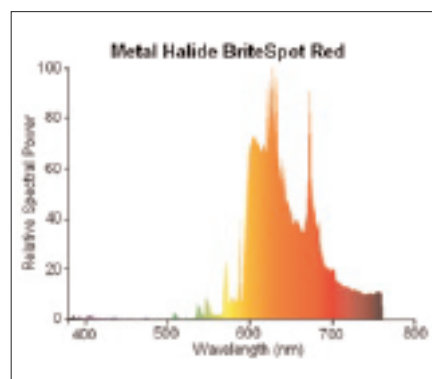
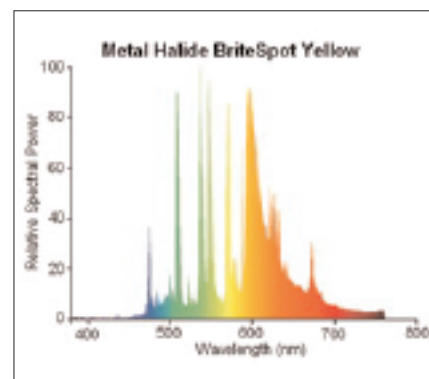
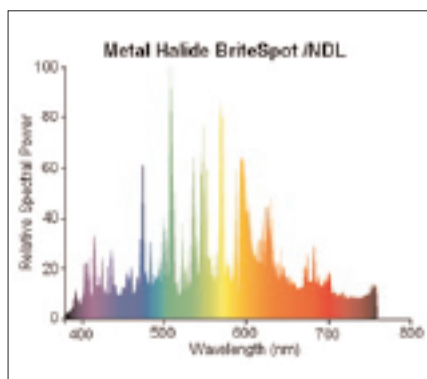
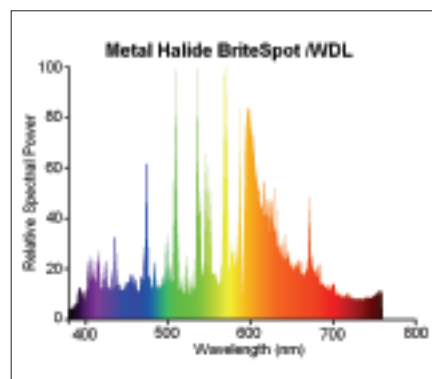
Re-start time when hot
5 to 10 minutes

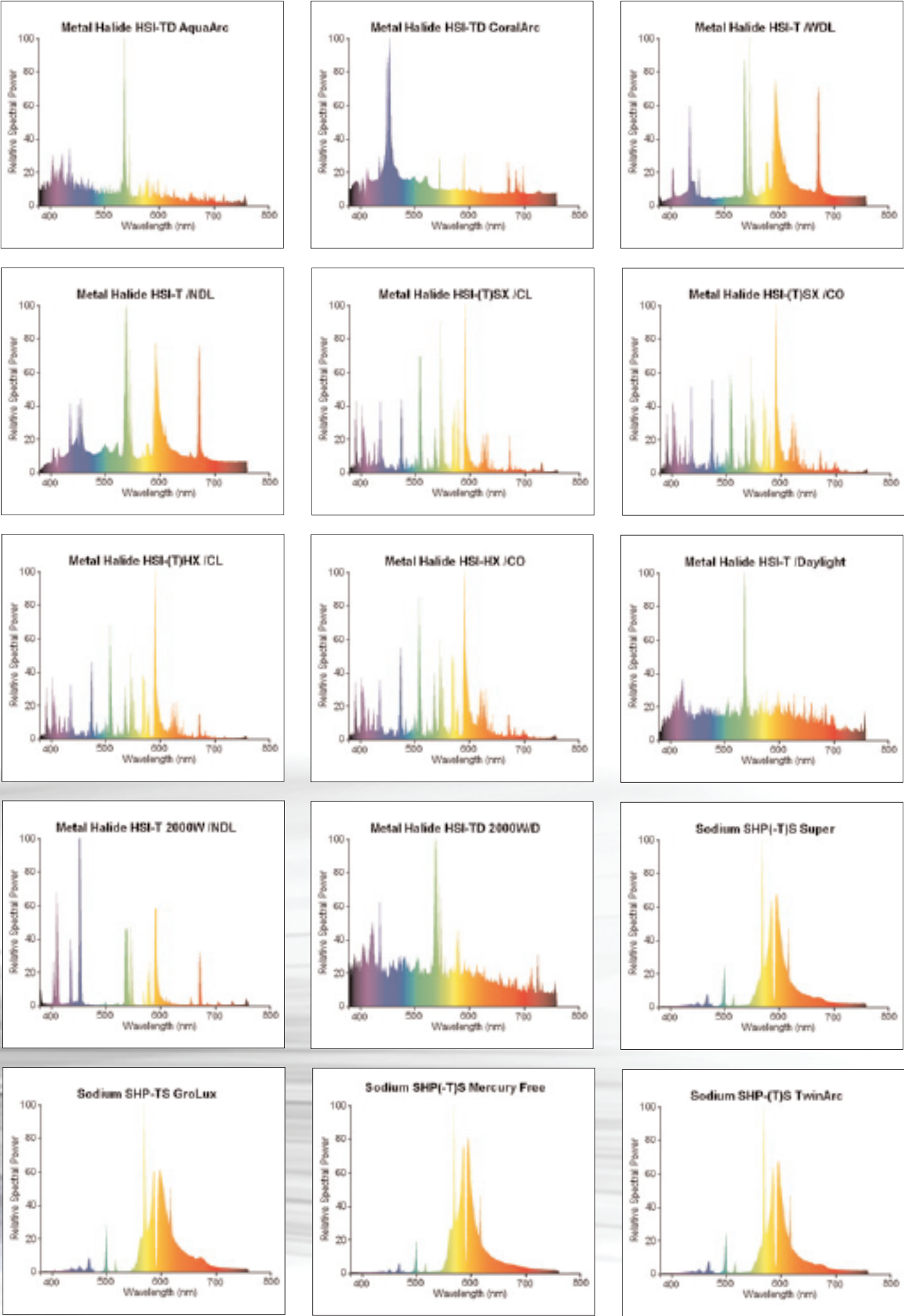
Low Pressure Sodium



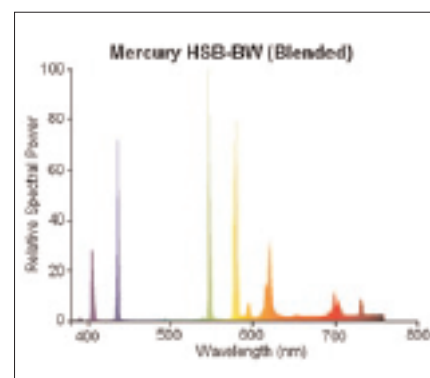
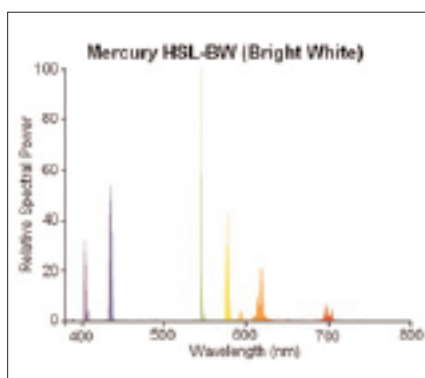
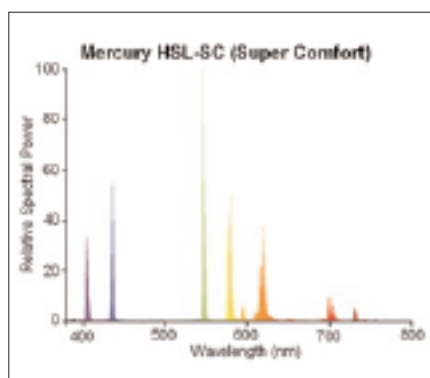
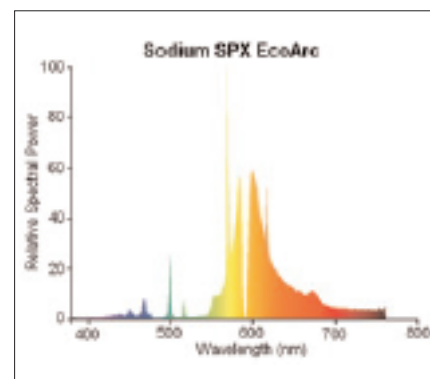
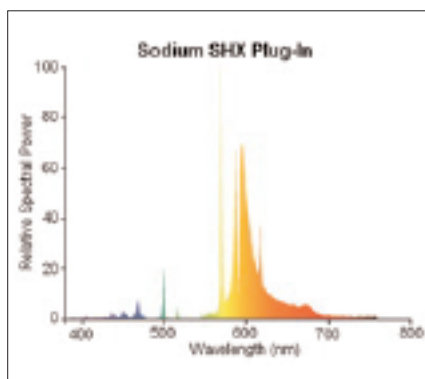
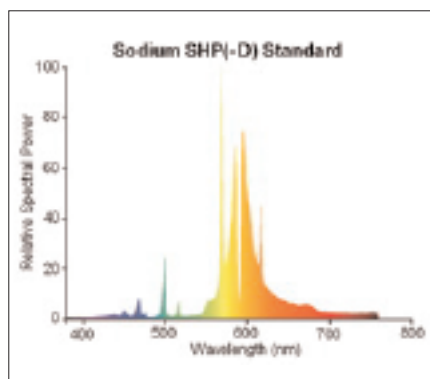
Re-start time when hot
up to 6 minutes depending on
interruption time.

Spectral Power Distribution





Spectral Power Distribution



INCANDESCENT**GLS Lamps**

GLS Clear	10
GLS Satin	11
GLS-T Brilliant Satin & Clear	12
GLS-T Pastel Satin	13
GLS Colour	14
GLS Long Life	15
GLS High Wattage	16
GLS Extra Low Wattage	17
GLS Rough Service	18
GLS Rustika Deluxe	19
GLS Blacklight	19
Traffic Signal	20
GLS Energy Saving	21
GLS Super Deluxe	21
GLS Krypton	22

Candle Lamps

Candle Brilliant Satin & Clear	23
Candle Twisted	24
Candle Pastel Satin	25
Candle Krypton	25
Candle Colour	26
Candle Giant Twisted	26
Candle Windshape	27

Ball Lamps

Ball Brilliant Satin & Clear	28
Ball Pastel Satin	29
Ball Krypton	30
Ball Colour	31
Globe Lamps	
Globe Decor	32
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