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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.

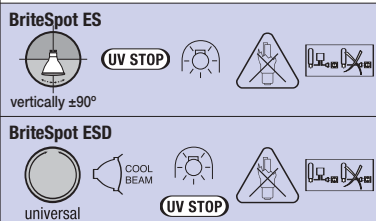
Its' extraordinary look is augmented by a number of distinctive visual features, the all-glass design allowing the sparkle of the spiral faceted reflector to shine through 8, 24 and 45 degree beam versions. The high-tech appearance of the inner is complemented by a patented anti-glare shield, which eliminates 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 ND – 4200K available colour temperatures with a colour rendering index Ra85.

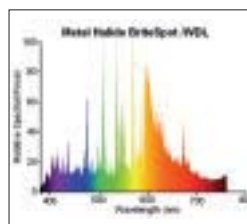
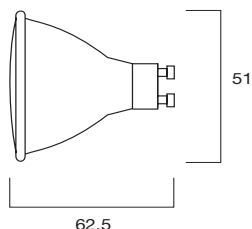
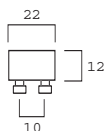
The easy to install GX10 twist and lock base is a feature on all of the BriteSpot reflector lamps along with safe end of life failure mode for use in open luminaires.

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.





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	251lx

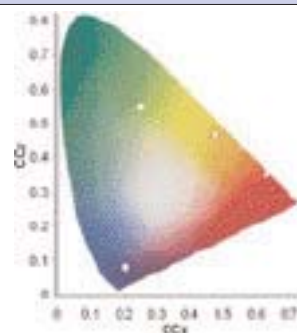
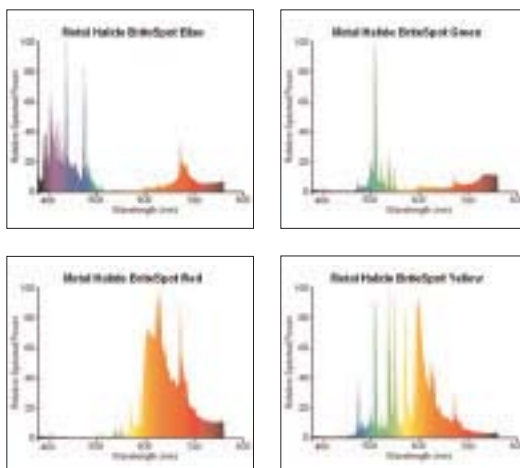
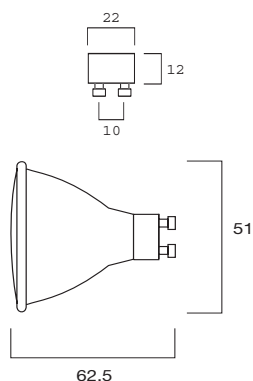
60°		20W	35W
1155mmØ	1m	1000lx	2000lx
2309mmØ	2m	250lx	500lx
3464mmØ	3m	111lx	222lx
4619mmØ	4m	63lx	125lx

- 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

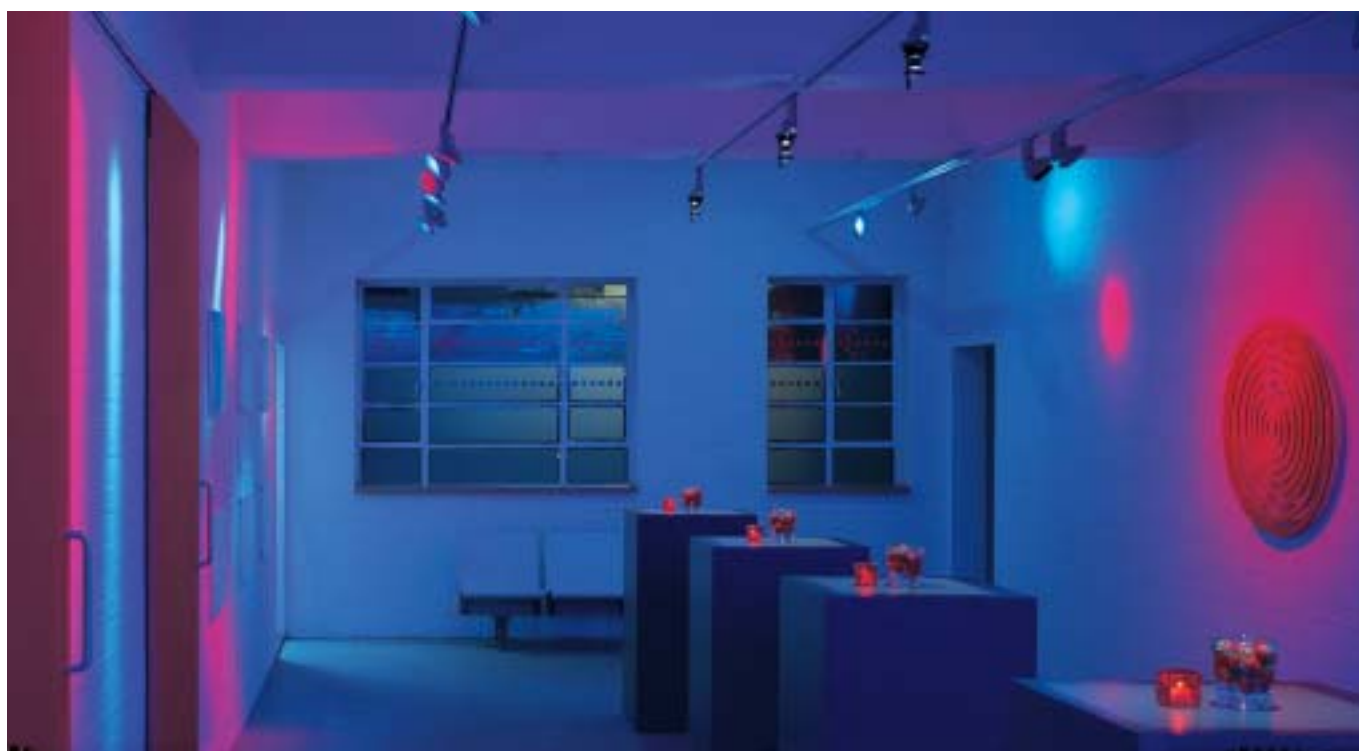


Code	Description	Watt	Volt	Current	Beam Angle	Cap	Colour Temp	CRI	Luminous Intensity	Packing Qty
BriteSpot ES50™										
0020278	BriteSpot ES50 20W 24°	22W	100V	0.22A	24°	GX10	3000K	85	3500 cd	15
0020276	BriteSpot ES50 20W 38°	22W	100V	0.22A	38°	GX10	3000K	85	2000 cd	15
0020277	BriteSpot ES50 20W 60°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



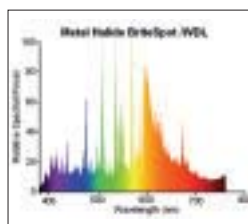
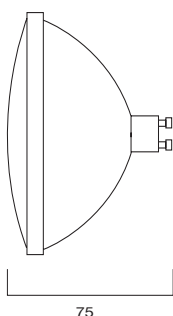
universal



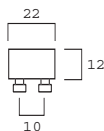
BriteSpot ESD



universal



GX10



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

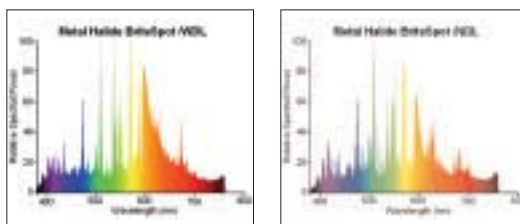
24°		35W	70W
425mmØ	1m	1000lx	2000lx
850mmØ	2m	250lx	500lx
1275mmØ	3m	111lx	222lx
1700mmØ	4m	62lx	125lx

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	40000 cd	15
0020201	BriteSpot ES111 35W 24°	39W	100V	0.53A	24°	GX10	3000K	90	10000 cd	15
0020202	BriteSpot ES111 35W 45°	39W	100V	0.53A	45°	GX10	3000K	90	3500 cd	15
BriteSpot ESD111™ Dichroic										
0020207	BriteSpot ESD111 70W 24°	75W	100V	0.98A	24°	GX10	3000K	90	20000 cd	15
0020208	BriteSpot ESD111 70W 45°	75W	100V	0.98A	45°	GX10	3000K	90	7000 cd	15



	70W	150W
L	117.6	135.4
D	22	25



RX7s
22.4 [] □ 17.49

RX7s-24
24 [] □ 7.4



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

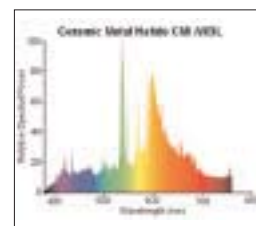
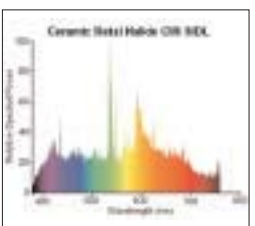


Code	Description	Watt	Volt	Current	Cap	Colour Temp	CRI	Luminous Flux	Packing Qty
BriteSpot DE™									
0021210	BriteSpot DE 70W/WDL	75W	95V	0.98A	RX7s	3000K	85	6000 lm	10
0021211	BriteSpot DE 70W/NDL	75W	95V	0.98A	RX7s	4200K	85	6000 lm	10
0021212	BriteSpot DE 150W/WDL	150W	95V	1.80A	RX7s-24	3000K	85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

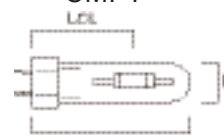
CMI-T / CMI-TD / CMI-TC



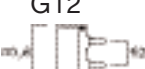
CMI-T		35W	70W	150W
L	90	90	100	
LCL	56	56	56	
D	20	20	20	

CMI-T



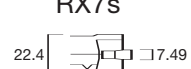
G12



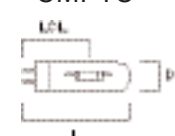
CMI-TD



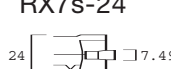
RX7s



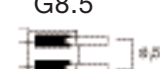
CMI-TC



RX7s-24



G8.5



CMI-T / CMI-TC

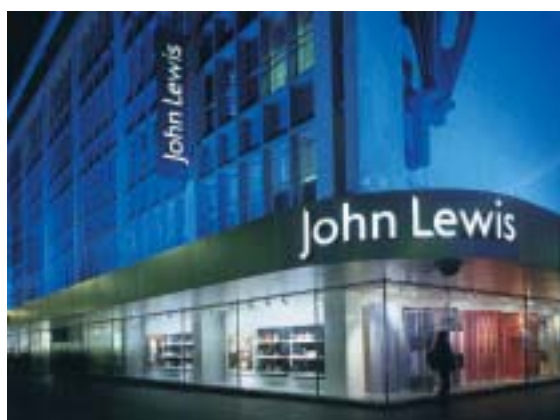
universal

UV STOP

CMI-TD

horizontally add

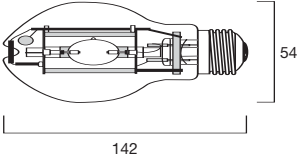
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life
- Very high luminous efficiency in a compact lamp format
- Good to excellent colour rendering properties
- UV-stop quartz reduces colour fading of merchandise
- For use only in luminaires equipped with a protective cover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



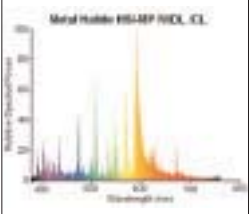
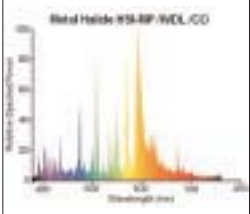
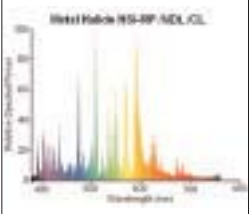
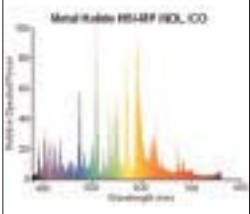
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
CMI-T									
0020300	CMI-T 35W/WDL	39W	95V	0.53A	G12	Clear	3000K	3400 lm	10
0020301	CMI-T 70W/WDL	72W	95V	0.98A	G12	Clear	3000K	6200 lm	10
0020305	CMI-T 70W/NDL	72W	95V	0.98A	G12	Clear	4200K	6000 lm	10
0020302	CMI-T 150W/WDL	146W	95V	1.82A	G12	Clear	3000K	13500 lm	10
0020306	CMI-T 150W/NDL	146W	95V	1.82A	G12	Clear	4200K	13000 lm	10
CMI-TD									
0020307	CMI-TD 70W/WDL	72W	95V	0.98A	RX7s	Clear	3000K	6200 lm	10
0020308	CMI-TD 70W/NDL	72W	95V	0.98A	RX7s	Clear	4200K	6200 lm	10
0020309	CMI-TD 150W/WDL	146W	95V	1.82A	RX7s-24	Clear	3000K	13500 lm	10
0020310	CMI-TD 150W/NDL	146W	95V	1.82A	RX7s-24	Clear	4200K	12500 lm	10
CMI-TC									
0020303	CMI-TC 35W/WDL	39W	90V	0.53A	G8.5	Clear	3000K	3400 lm	12
0020304	CMI-TC 70W/WDL	72W	90V	0.98A	G8.5	Clear	3000K	6200 lm	12



E27



HSI-MP



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

 universal
  UV STOP
 





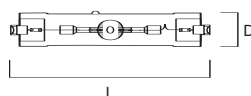
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-MP MetalArc									
0020810	HSI-MP 70W CL/WDL	75W	95V	1.00A	E27	Clear	3000K	5500 lm	12
0020811	HSI-MP 70W CO/WDL	75W	95V	1.00A	E27	Coated	2900K	5200 lm	12
0020812	HSI-MP 70W CL/NDL	75W	95V	1.00A	E27	Clear	4000K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

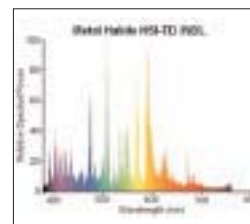
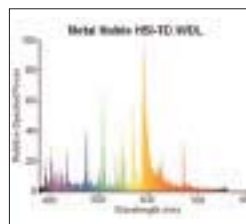
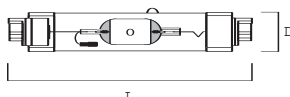


HSI-TD	70W	150W	250W
L	117.6	135.4	161.6
D	22	25	27.5

RX7s



FC2



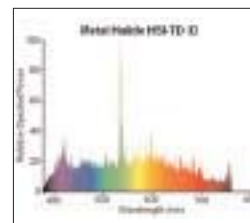
RX7s



RX7s-24



FC2



horizontally $\pm 45^\circ$

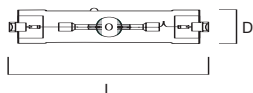
- Double ended quartz metal halide lamps with a compact tubular clear outer envelope
- Choice of three different colour temperatures: Warm, Neutral White and Daylight
- UV-stop outer jacket for reduced risks of fading
- High efficiency, compact arc tube
- Suitable for general interior lighting in uplights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



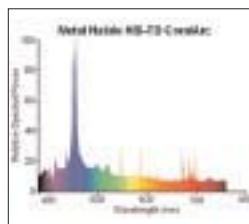
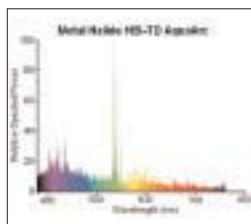
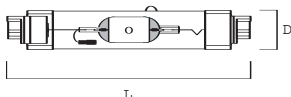
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-TD MetalArc									
0021030	HSI-TD 70W/WDL	75W	95V	0.98A	RX7s	Clear	3000K	5500 lm	10
0021031	HSI-TD 70W/NDL	75W	95V	0.98A	RX7s	Clear	4200K	5800 lm	10
0021045	HSI-TD 70W/D	75W	108V	0.98A	RX7s	Clear	5600K	5400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



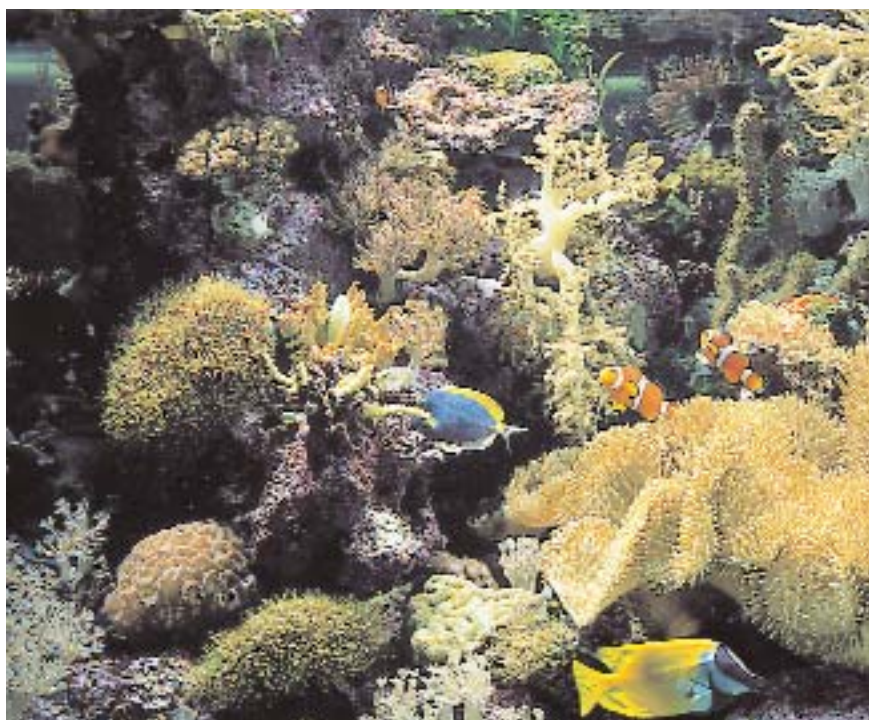
RX7s-24



FC2

horizontally $\pm 45^\circ$ 

- 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

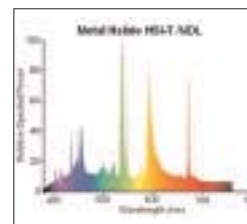
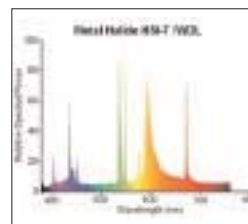
HSI-T MetalArc



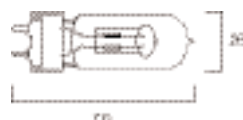
UV STOP



universal



HSI-T



G12



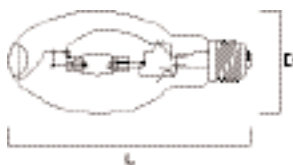
- Single ended quartz metal halide lamps with a compact tubular clear outer envelope
- Small point light source allows compact luminaire designs
- Ideal for spotlighting where high intensities are required
- UV-stop outer jacket for reduced risks of fading
- Suitable for interior accent and display lighting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



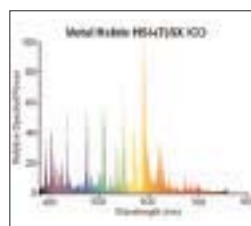
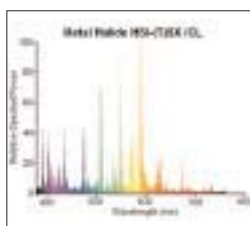
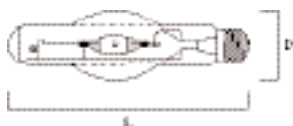
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-T MetalArc									
0020335	HSI-T 70W/WDL	75W	95V	0.95A	G12	Clear	3000K	5200 lm	12
0020340	HSI-T 70W/NDL	75W	95V	0.95A	G12	Clear	4200K	5200 lm	12
0020336	HSI-T 150W/WDL	146W	95V	1.82A	G12	Clear	3000K	12000 lm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

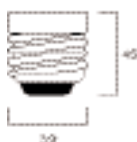
HSI-SX



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

UV STOP

vertically ±15°

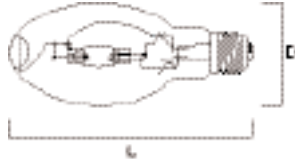
HSI-HX/I

UV STOP

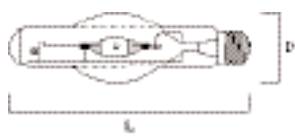
vertically ±15°

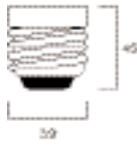
HSI-HX	250W	400W
L	227	290
D	90	120
HSI-HX	250W	400W
L	260	270
D	48	63

HSI-HX

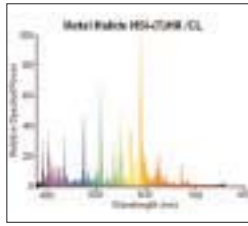
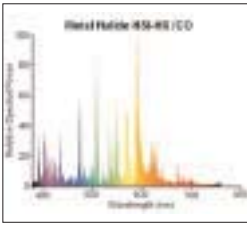


HSI-THX





E40



HSI-THX

UV STOP

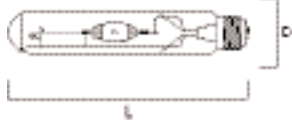
horizontally ±30°

- 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

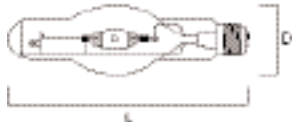
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-HX Elliptical									
0020357	HSI-HX 250W/CL	245W	130V	2.1A	E40	Clear	4500K	23000 lm	12
0020355	HSI-HX 250W/CO	245W	130V	2.1A	E40	Coated	3800K	21000 lm	12
0020356	HSI-HX 250W/CO/I	245W	130V	2.1A	E40	Coated	3800K	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	250W	400W
L	225	285
D	48	63

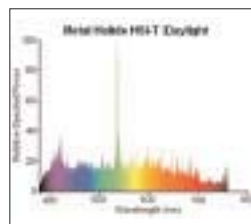
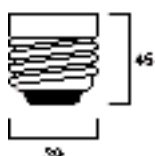
HSI-T Daylight 250W



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

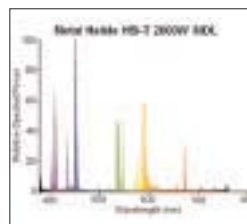


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-T Daylight									
0020530	HSI-T 250W/D	250W	98V	3.0A	E40	Clear	5300K	20000 lm	12
0020531	HSI-T 400W/D	400W	122V	4.4A	E40	Clear	6100K	32000 lm	12

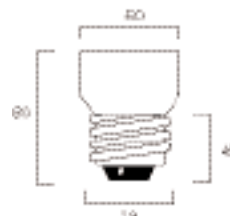
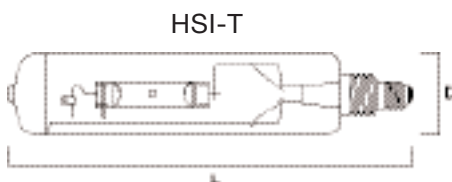
HSI-T



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



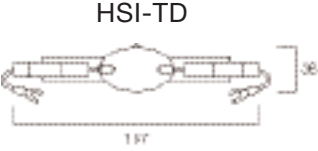
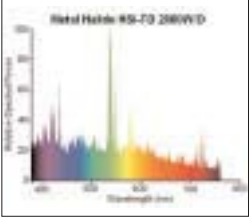
E40



- 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



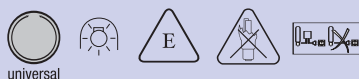
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-T									
0020597	HSI-T 1000W	965W	130V	8.25A	E40	Clear	4000K	81000 lm	4
0020533	HSI-T 2000W-S/380V	2000W	235V	9.00A	E40	Clear	4000K	200000 lm	4
0020540	HSI-T 2000W-S/I/380V	2000W	235V	9.00A	E40	Clear	4000K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



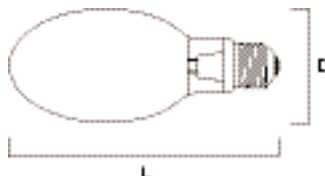
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSI-TD									
0020339	HSI-TD 2000W/D	1950W	205V	11.30A	Cable	Clear	5600K	200000 lm	10

SHP-S / SHP-TS Super

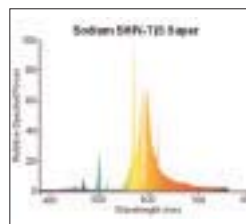
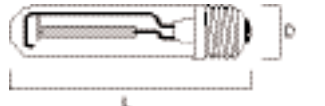


SHP-S	35W	50W	70W	100W	150W	250W	400W
L	165	165	165	186	227	227	292
D	72	72	72	78	91	91	122
SHP-TS	50W	70W	100W	150W	250W	400W	600W
L	156	156	211	211	260	292	292
D	39	39	48	48	48	48	48

SHP-S



SHP-TS



E40

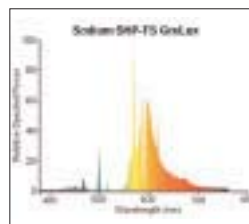
E27



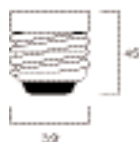
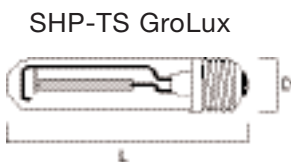
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate starting reliability throughout lamp life
- Exclusive 'frameless' construction delivers superior system efficiency and improves lumen maintenance over life
- Exceptional reliability, offering 4 years service with 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



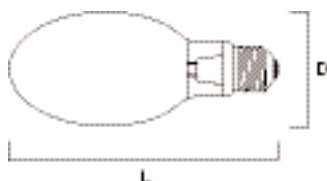
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Photosynthetic (PhytoLm)	PAR (μ mol)	Packing Qty
SHP-TS GroLux Tubular										
0020807	SHP-TS 400W GroLux	425W	120V	4.00A	E40	Clear	2050K	128000	713	12
0020808	SHP-TS 600W GroLux	615W	125V	5.50A	E40	Clear	2050K	200000	1100	12
0020809	SHP-TS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

SHP-S / SHP-TS Mercury Free

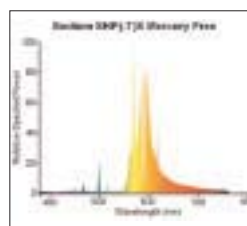
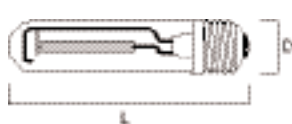


SHP-S	70W	100W	150W	250W	400W
L	165	186	227	227	292
D	72	78	91	91	122
SHP-TS	70W	100W	150W	250W	400W
L	156	211	211	260	292
D	39	48	48	48	48

SHP-S

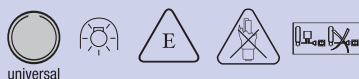


SHP-TS



E40

E27

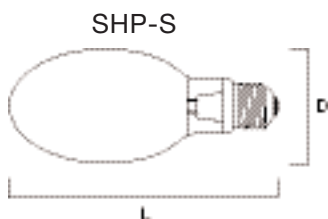
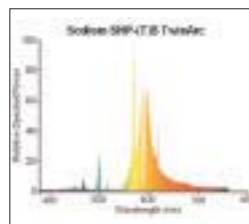


- Range of environmentally friendly high pressure sodium lamps containing no mercury
- Fast run-up characteristics in comparison to high pressure sodium lamps with mercury
- Performance characteristics in line with other high pressure sodium lamps
- For applications where environmental and disposal considerations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



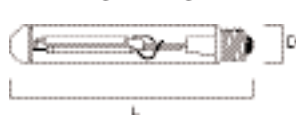
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP-S Mercury Free Ellipsoidal									
0020991	SHP-S 70W Mercury Free	70W	90V	0.98A	E27	Coated	2200K	5000 lm	40
0020993	SHP-S 100W Mercury Free	100W	100V	1.20A	E40	Coated	2200K	8000 lm	40
0020995	SHP-S 150W Mercury 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



E40

SHP-TS



E27

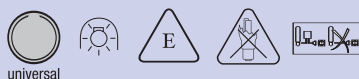


- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- Doubled lamp life and reduced occurrence of early failures
- Patented new construction featuring the Sylvania Wound Ignition Antenna for the ultimate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



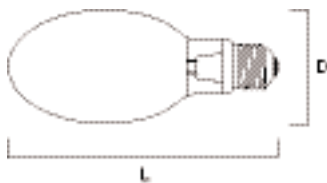
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP-S TwinArc Elliptical									
0020720	SHP-S 35W TwinArc	35W	90V	0.49A	E27	Coated	2050K	1800 lm	40
0020717	SHP-S 50W TwinArc	50W	85V	0.76A	E27	Coated	2050K	3600 lm	40
0020719	SHP-S 70W TwinArc	70W	90V	0.98A	E27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

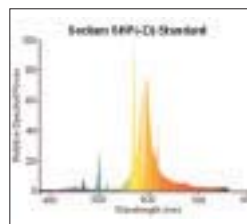
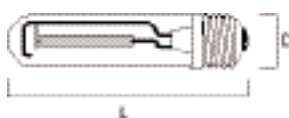


SHP	50W	70W	100W	150W	250W	400W	
L	165	165	178	227	227	292	
D	72	72	78	91	91	122	
SHP-T	50W	70W	100W	150W	250W	400W	1000W
L	156	156	-	211	260	292	400
D	39	39	-	48	48	48	68

SHP



SHP-T



E40

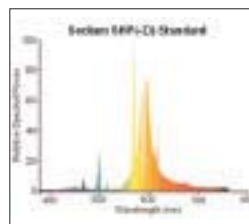
E27



- 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



UV STOP



- 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

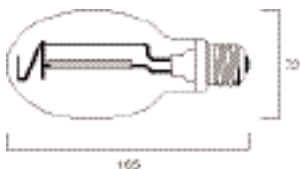


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP-TD Standard									
0020711	SHP-TD 70W	70W	90V	0.98A	RX7s	Clear	1900K	6800 lm	10
0020711	SHP-TD 150W	150W	100V	1.80A	RX7s-24	Clear	1900K	15000 lm	10

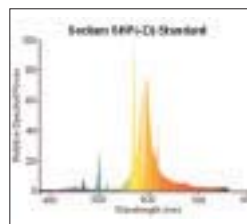
SHP Self-Starting



SHP



E27



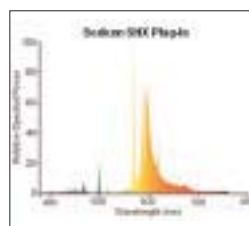
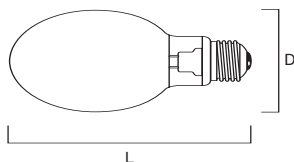
- Range of high pressure sodium lamps with internal ignitor
- Cost reduction opportunities since no ignitor or external wiring is required
- Enables luminaire size to be reduced since no ignitor is required
- Available in clear or coated ellipsoidal bulbs
- Popular choice for parks, gardens, pedestrian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



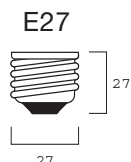
Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHP Self-Starting Ellipsical									
0020550	SHP 50W/CO-I	50W	85V	0.76A	E27	Coated	2050K	3300 lm	40
0020551	SHP 70W/CO-I	70W	90V	0.98A	E27	Coated	2050K	5800 lm	40
0020553	SHP 70W/CL-I	70W	90V	0.98A	E27	Clear	2050K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

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

SHX



E40



universal



- 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

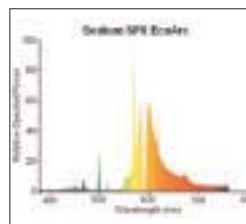


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SHX Plug-In Elliptical									
0020560	SHX 110W	110W	115V	1.22A	E27	Coated	2000K	8000 lm	40
0020488	SHX 210W	210W	117V	2.25A	E40	Coated	2000K	18000 lm	12
0020490	SHX 350W	350W	117V	3.60A	E40	Coated	2000K	34500 lm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

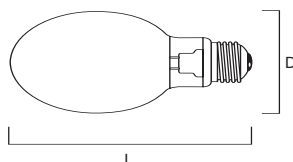
SPX EcoArc



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

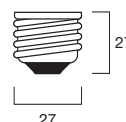


SPX



E40

E27



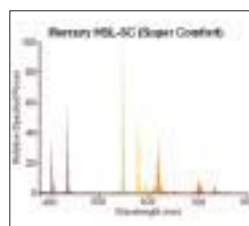
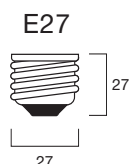
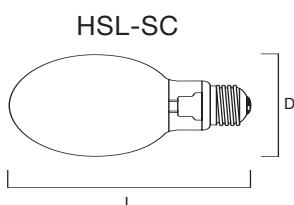
universal

- 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

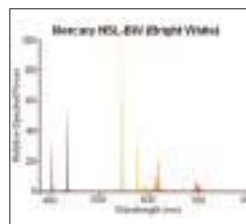


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSL-SC Super Comfort Elliptical									
0020895	HSL-SC 50W	50W	95V	0.61A	E27	Coated	3400K	2000 lm	24
0020890	HSL-SC 80W	80W	115V	0.80A	E27	Coated	3400K	4000 lm	40
0020891	HSL-SC 125W	125W	125V	1.15A	E27	Coated	3400K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

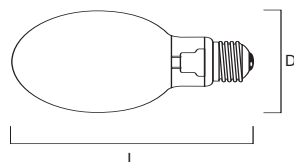
HSL-BW Bright White Standard



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

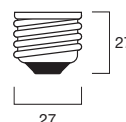


HSL-BW



E40

E27

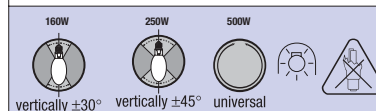
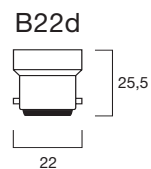
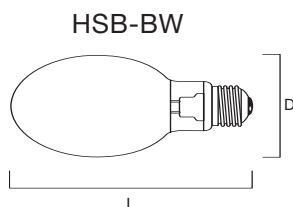
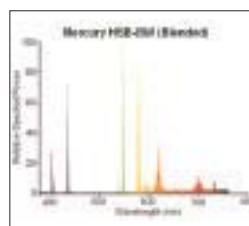


- Range of standard high pressure mercury lamps with Yttrium Vanadate phosphor
- Neutral white colour temperature of 4000K
- Low cost white lighting solution operating on simple mercury choke circuit
- Excellent reliability throughout the long 29,000 hours average rated life
- High efficacy up to 60 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	-	-



- 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

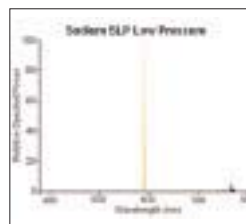


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
HSB-BW Bright White Blended Elliptical 230V									
0020414	HSB-BW 160W 230V	160W	230V	0.80A	E27	Coated	3500K	3100 lm	40
0020415	HSB-BW 250W 230V	250W	230V	1.20A	E40	Coated	3500K	5600 lm	12
0020449	HSB-BW 250W 230V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

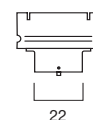
SLP



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



BY22d



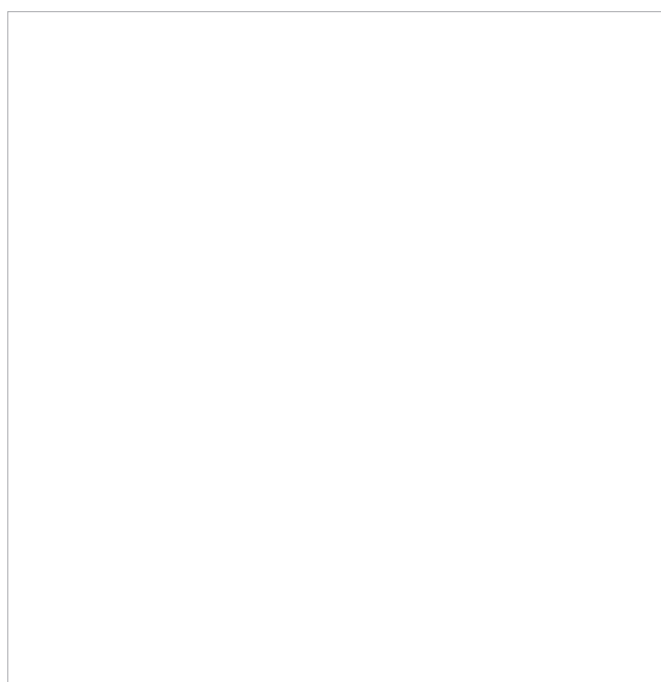
SLP 18 / 35 / 55W



SLP 90 / 135 / 180W

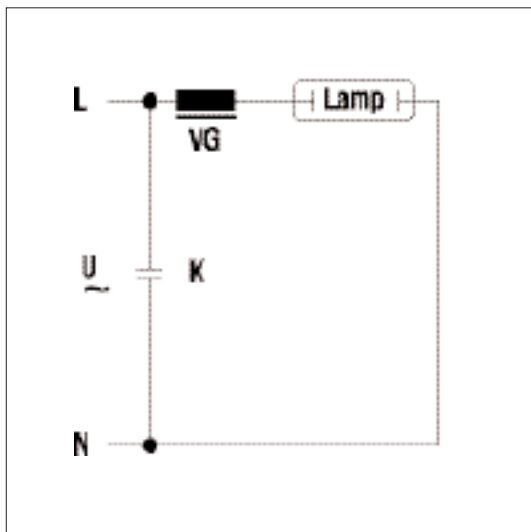


- Range of monochromatic low pressure sodium discharge lamps
- Highest efficacy available – up to 183 lm/W
- Monochromatic warm yellow light
- Radiates light in the most effective part of the visible spectrum
- Road lighting with maximum light levels with minimum energy costs
- Pedestrian crossing lighting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

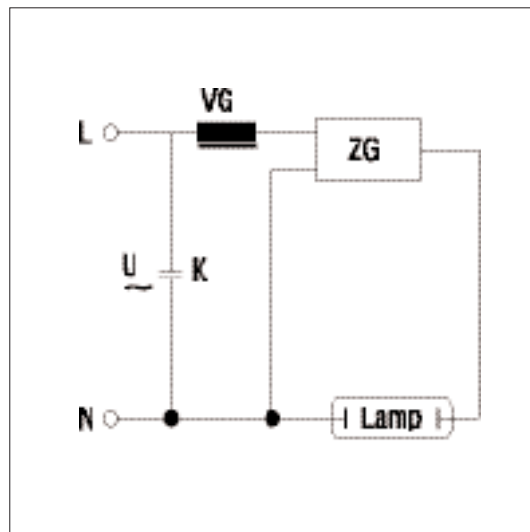


Code	Description	Watt	Volt	Current	Cap	Lamp Finish	Colour Temp	Luminous Flux	Packing Qty
SLP Tubular									
0020528	SLP 18W	18W	57V	0.35A	BY22d	Clear	1800K	1800 lm	20
0020495	SLP 35W	35W	70V	0.60A	BY22d	Clear	1800K	4500 lm	12
0020496	SLP 55W	55W	109V	0.59A	BY22d	Clear	1800K	7400 lm	9
0020497	SLP 90W	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

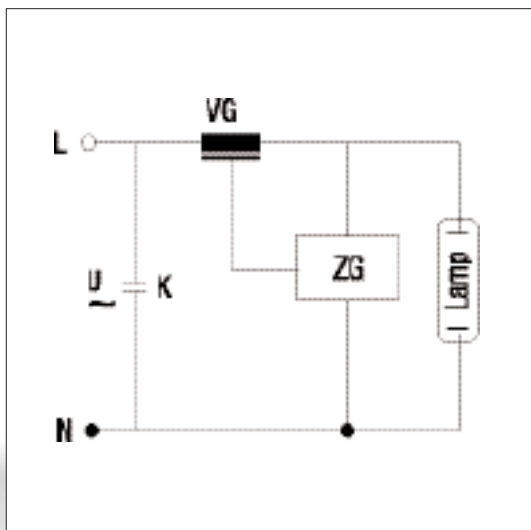
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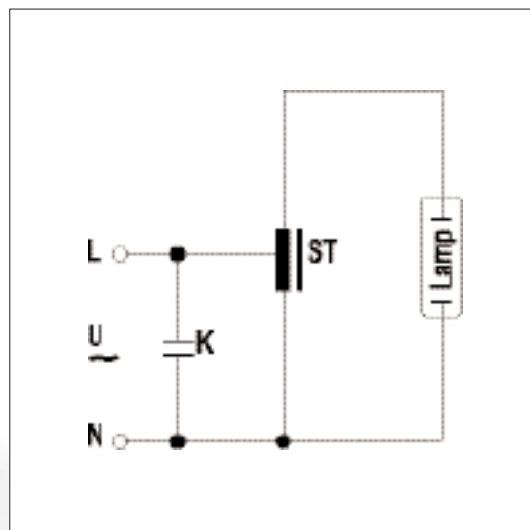
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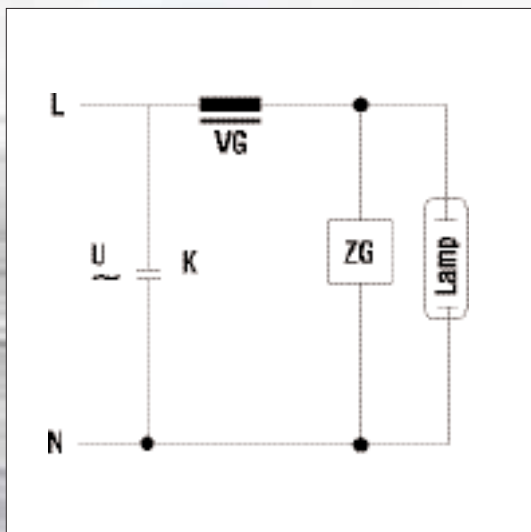
No 3



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

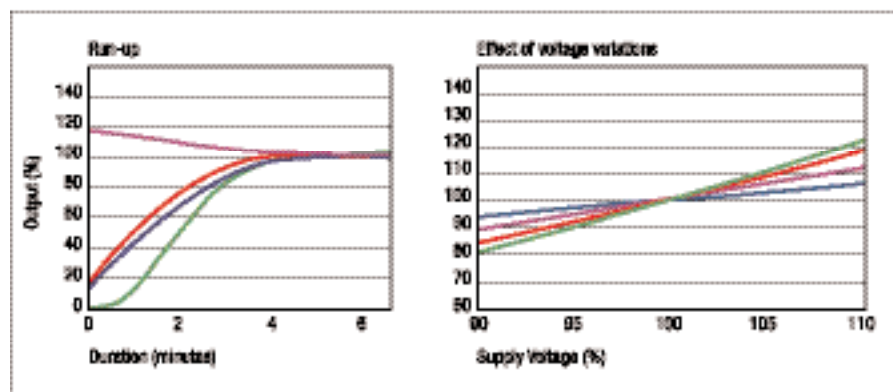
Item Description	Power Consumption inc. ballast	Parallel Capacitor (microF)	CRI Class	Circuit No
HSI-TD 70W/WDL	90W	12	1B	2
HSI-TD 70W/NDL	90W	12	1B	2
HSI-TD 70W/D	90W	12	1B	2
HSI-TD 150W/WDL	170W	20	1B	2
HSI-TD 150W/NDL	170W	20	1B	2
HSI-TD 150W/D	170W	20	1B	2
HSI-TD 250W/WDL	275W	32	1B	2
HSI-TD 250W/NDL	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

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

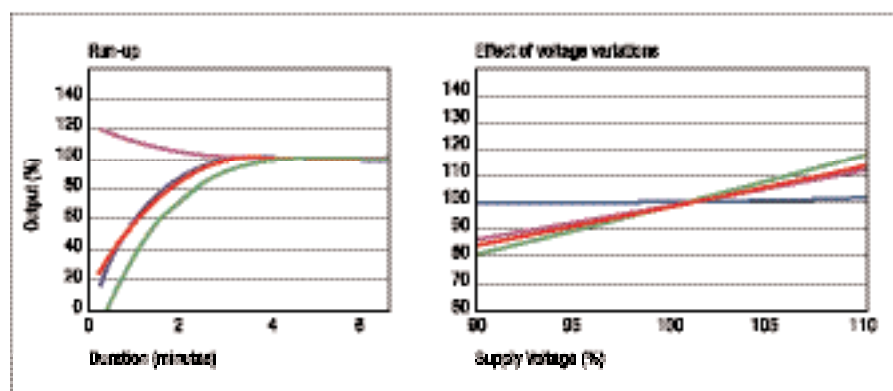
Ceramic Metal Halide



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

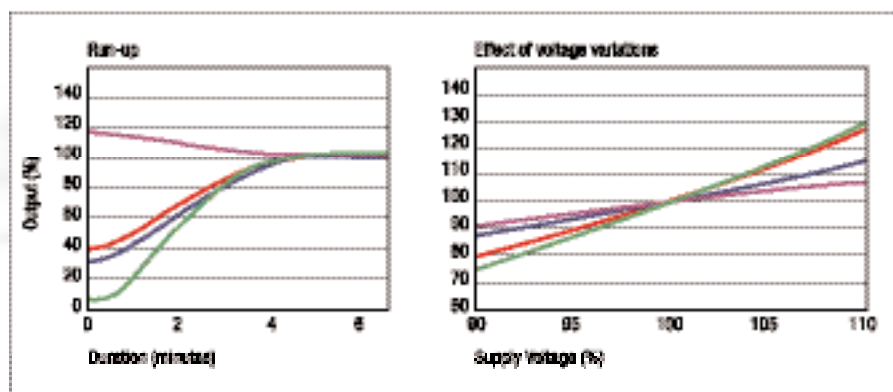
■ Lamp Voltage
 ■ Lamp Current
 ■ Lamp Power
 ■ Luminous Flux

Quartz Metal Halide



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

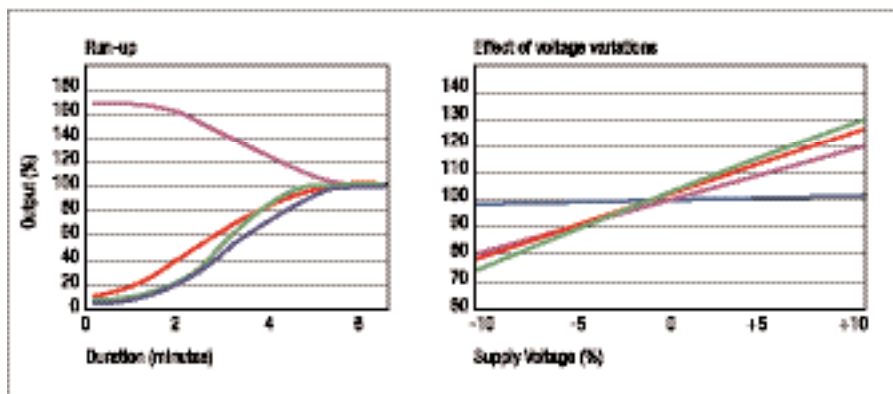
High Pressure Sodium



Re-start time when hot
 Aviators, S&T: immediate re-start
 Standards, Super & AP: up to 1 minute

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

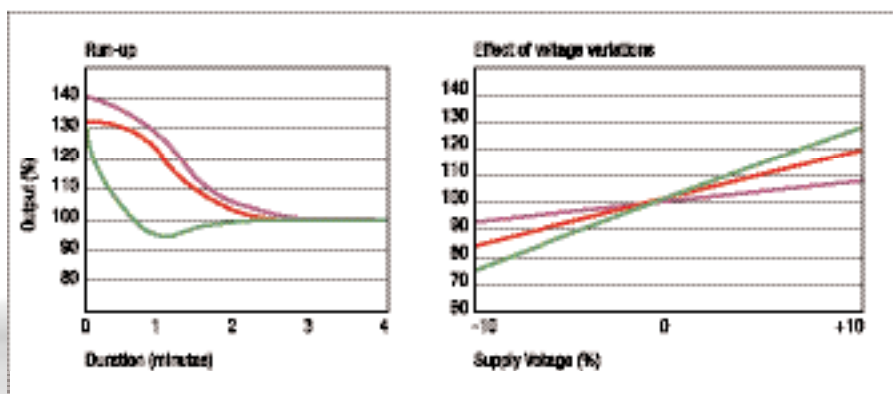
High Pressure Mercury



Re-start time when hot
5 to 10 minutes

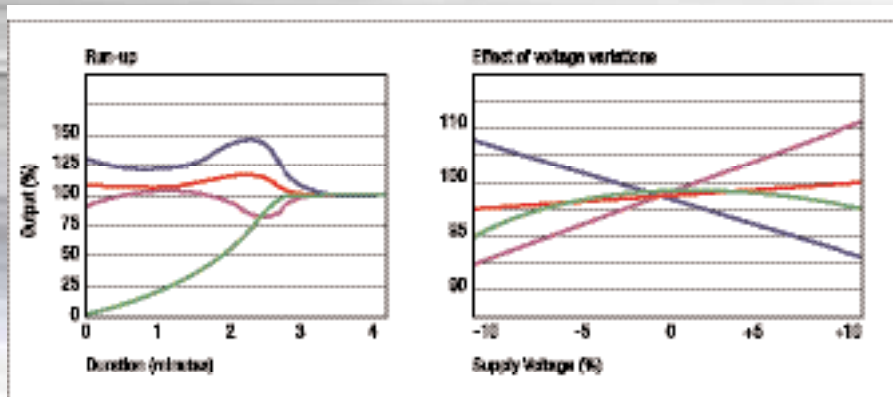
■ Lamp Voltage
■ Lamp Current
■ Lamp Power
■ Luminous Flux

Blended High Pressure Mercury



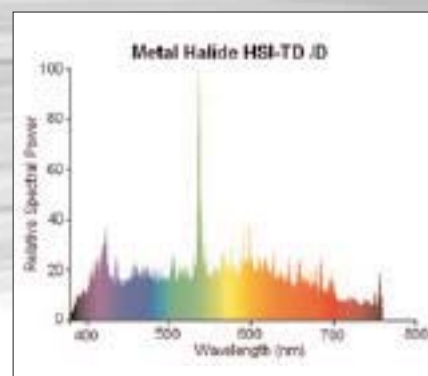
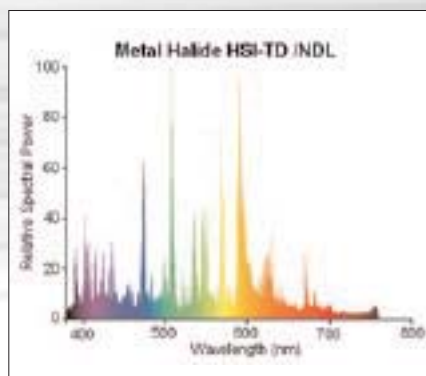
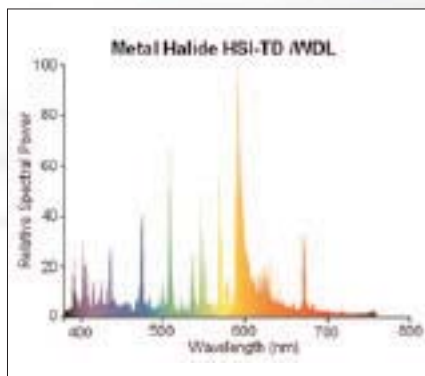
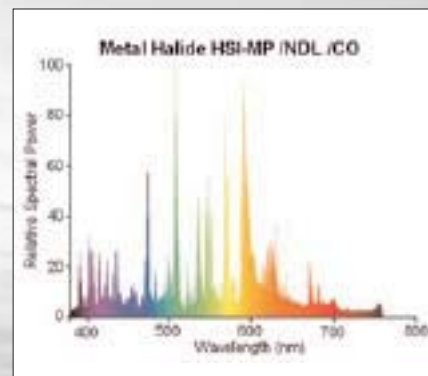
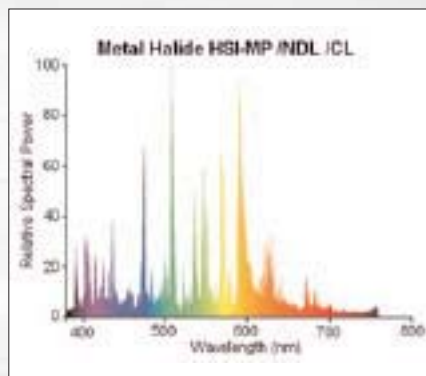
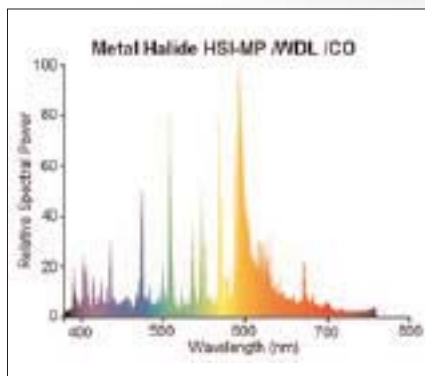
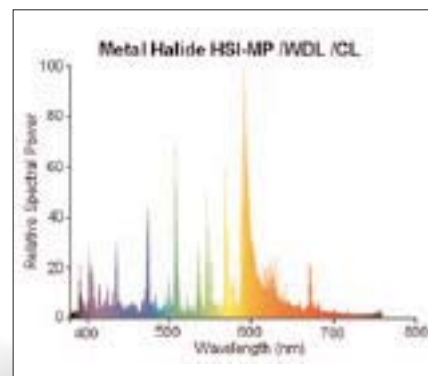
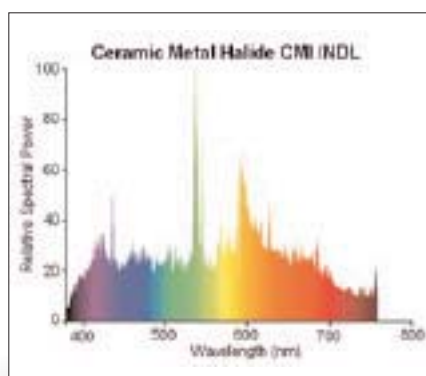
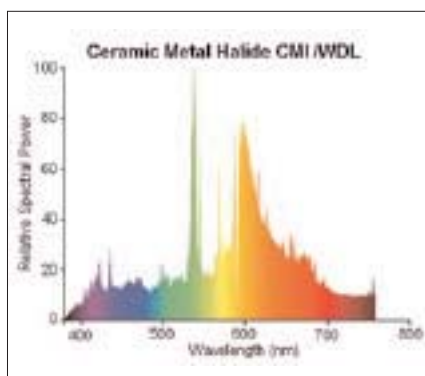
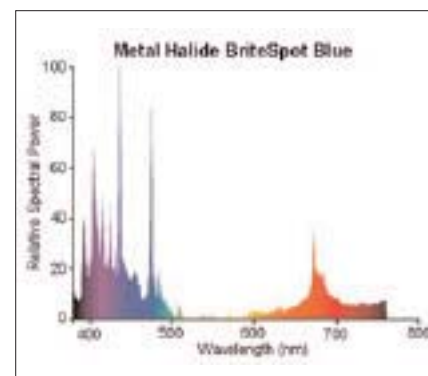
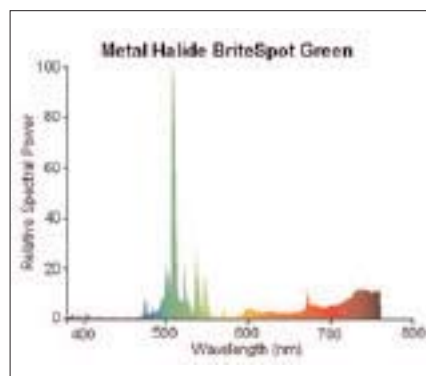
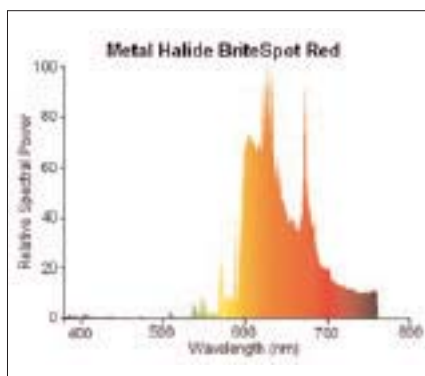
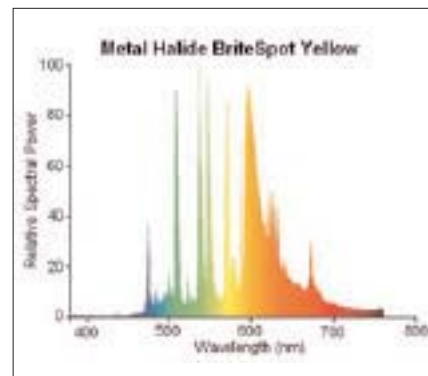
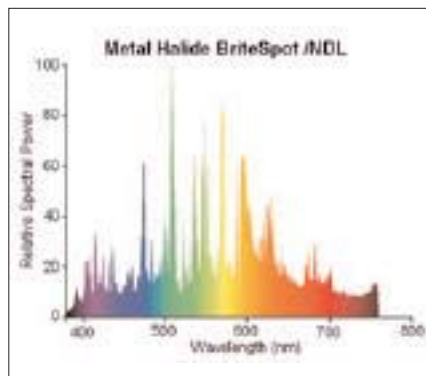
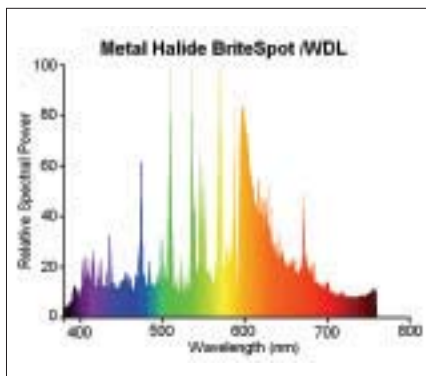
Re-start time when hot
5 to 10 minutes

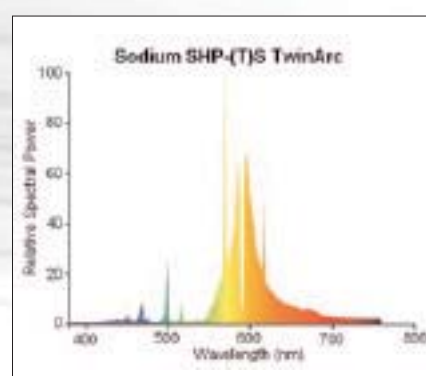
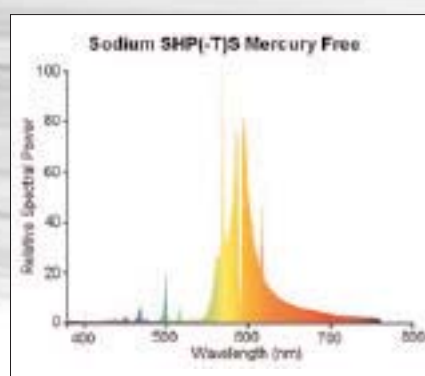
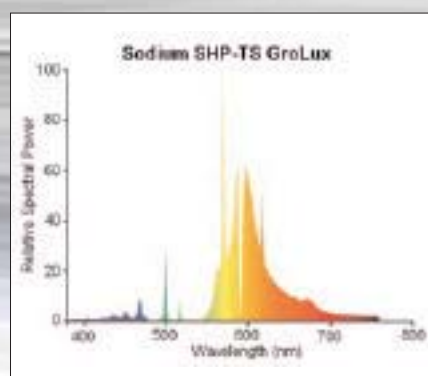
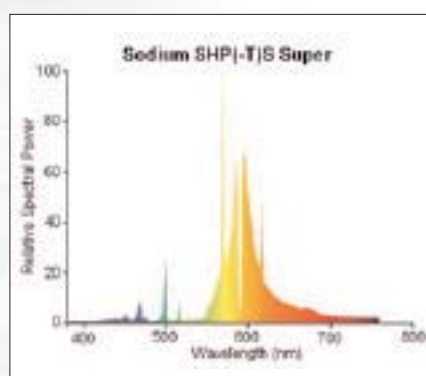
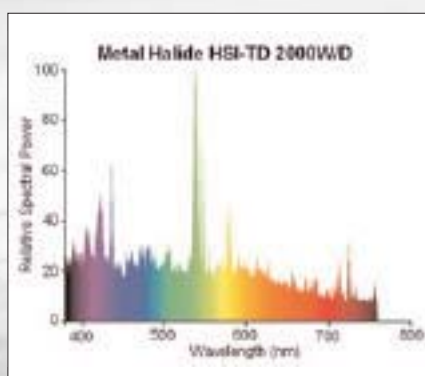
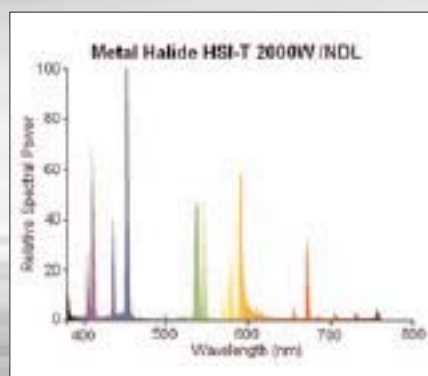
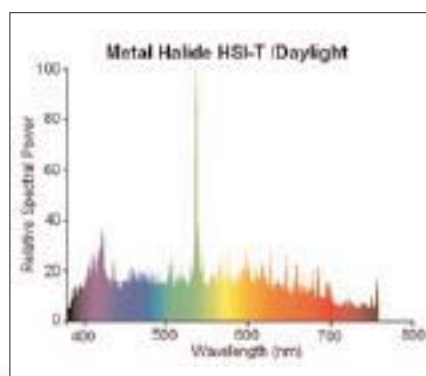
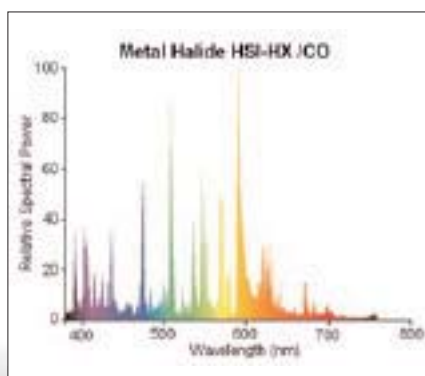
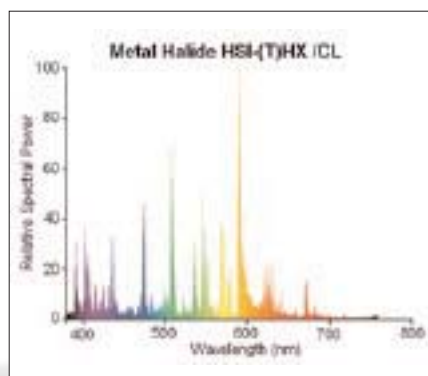
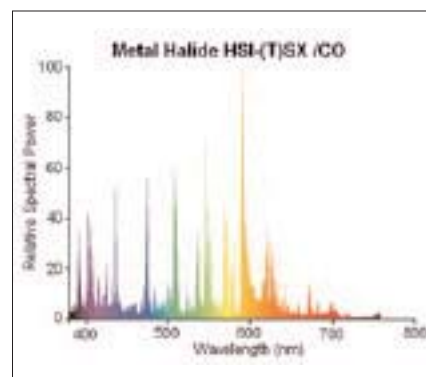
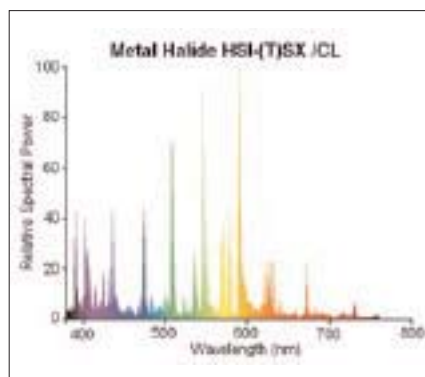
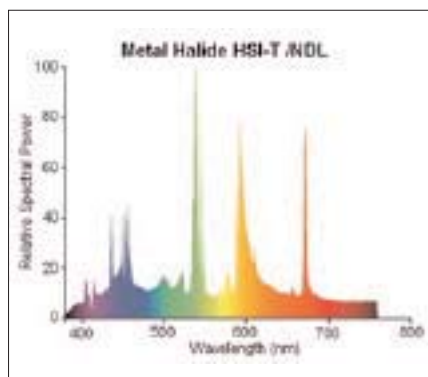
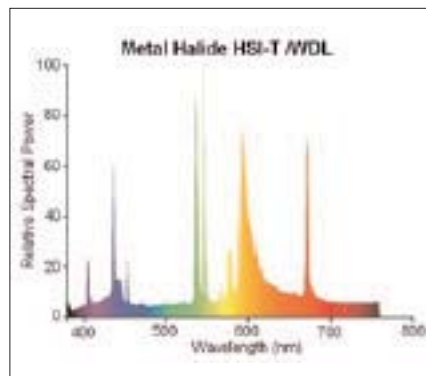
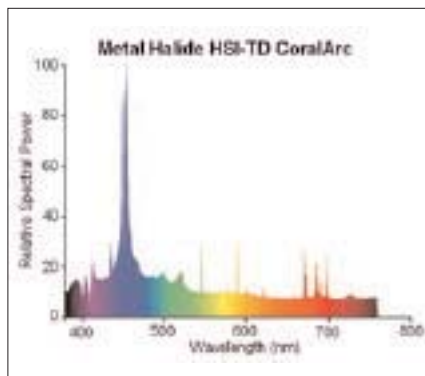
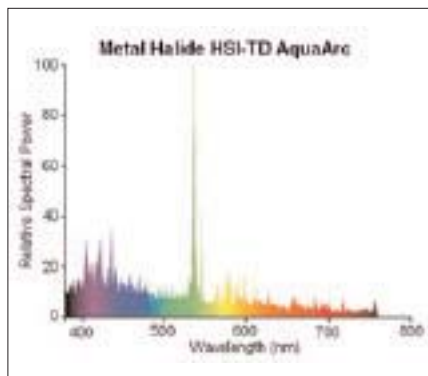
Low Pressure Sodium



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

Spectral Power Distribution





Spectral Power Distribution

