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High Intensity Discharge

Turns NIGHT into DAY



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INTRODUCTION

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. The combination of brightness and long life makes HID lamps the light source of choice for outdoor lighting, street lighting and city beautification.

Competence centre for Havells Sylvania's HID lamps is our factory in Tienen. All HID lamps are being manufactured according to the regulations of the European Union under ISO certification ISO 9001/9002 guaranteeing perfectly controlled manufacturing and quality controls throughout all processes.

High Pressure Mercury lamps combine white light, reliability and ease of use together with proven lamp technology.

High Pressure Sodium lamps combine 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 the lamp life compared to SHP Super lamps. Due to the double burner concept early lamp failure rate is significantly reduced and the hot re-strike feature allows for more safety on streets, airports and other public places. The TwinArc lamps are direct retrofits for Standard Sodium lamps and can thus be used in the same installations with no modifications necessary.

Metal Halide lamps combine excellent colour rendering with good efficacy. The ranges are available in conventional quartz arc tube

technology as well as ceramic arc tube technology enhancing colour uniformity and stability over lamp life. The medium wattage metal halide range offers compatibility with mercury and high pressure sodium control gear. Our BriteLux lamps for instance are a direct retrofit for sodium lamps providing better colour rendering and white light. Therefore, the changeover from yellow light to a more pleasant white light can be easily achieved. With our UrbanWhite lamps, we have reached even higher levels of energy efficiency and colour rendering in a white light solution that will lay the ground for further developments in HID street lighting.

Although still used for many applications, Low Pressure Sodium lamps are increasingly being replaced by High Pressure Sodium lamps. Colour appearance and rendering from these monochromatic lamps are poor, but the luminous efficacy is extremely high.



INTRODUCTION

DIFFERENT LIGHT SOURCE-DIFFERENT CHARACTERISTICS

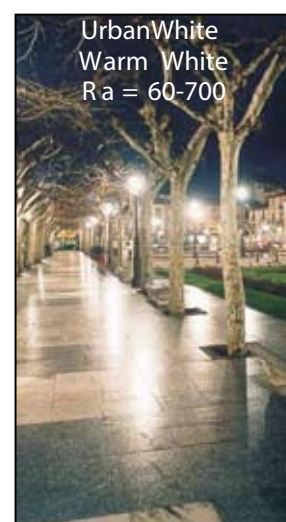
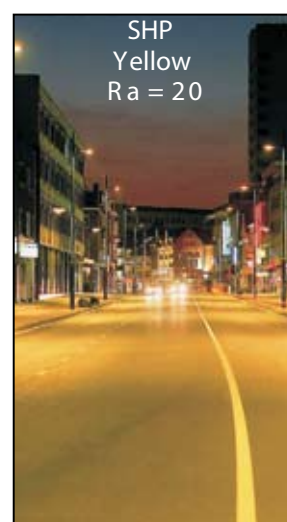
Depending on the application of a High Intensity Discharge lamp, there may be different needs for colour temperature and colour rendering. While the colour rendering in remote road lighting applications may be less important, CRI is more and more appreciated in urban lighting applications for better facial recognition and better colour rendition in the residential areas.

Even though all HID lamps in today's market are highly efficient, there can still be a trade off between efficacy and colour rendering. While highly efficient lighting solutions are appreciated in remote areas to keep energy cost at a minimum, colour rendering is the key characteristic in urban areas with dense populations. The ceramic metal halide technology combines the best of both: Efficacy and colour rendering and therefore has become the preferred outdoor solution.

Lamp characteristics relevant for road lighting Colour rendering

Functional outdoor lighting: no demand

Residential & City lighting: as natural as possible

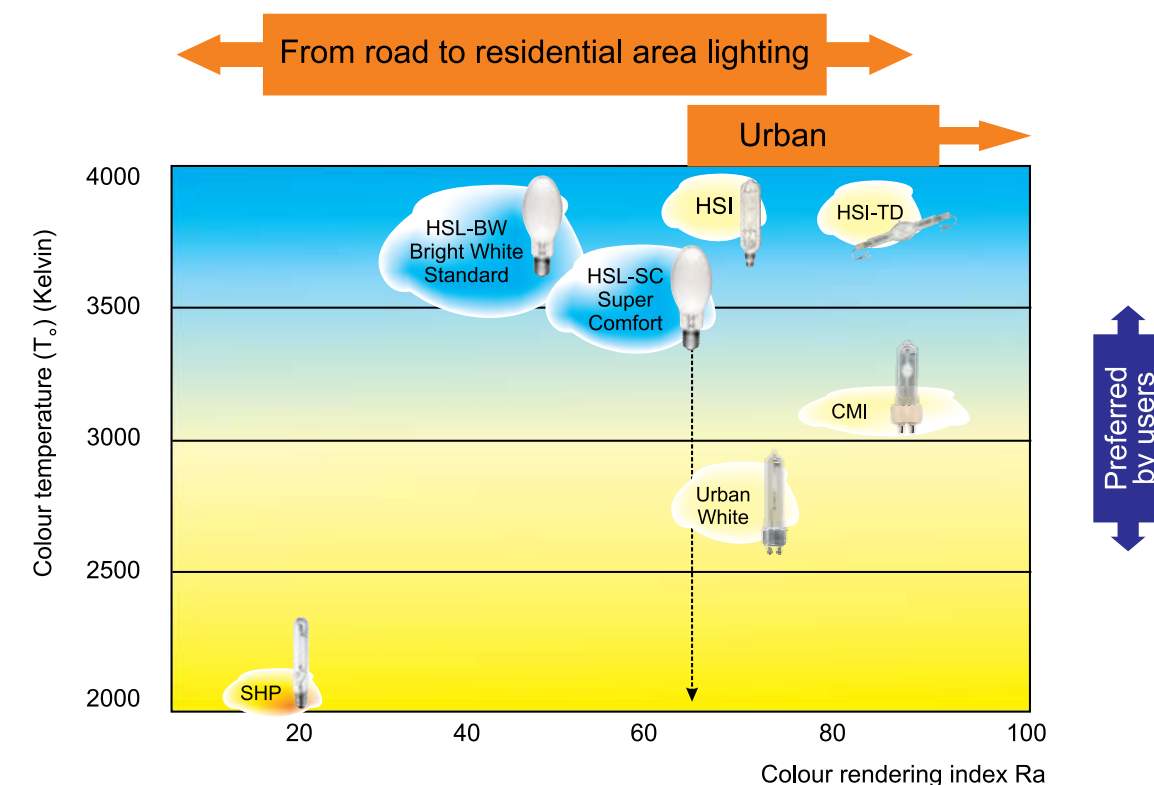


Innovation in HID has come a long way from Low Pressure Sodium lamps, offering the highest efficacy at poor colour rendering, over High Pressure Mercury lamps, the convenient white light solution, to High Pressure Sodium lamps with their pleasant yellow light.

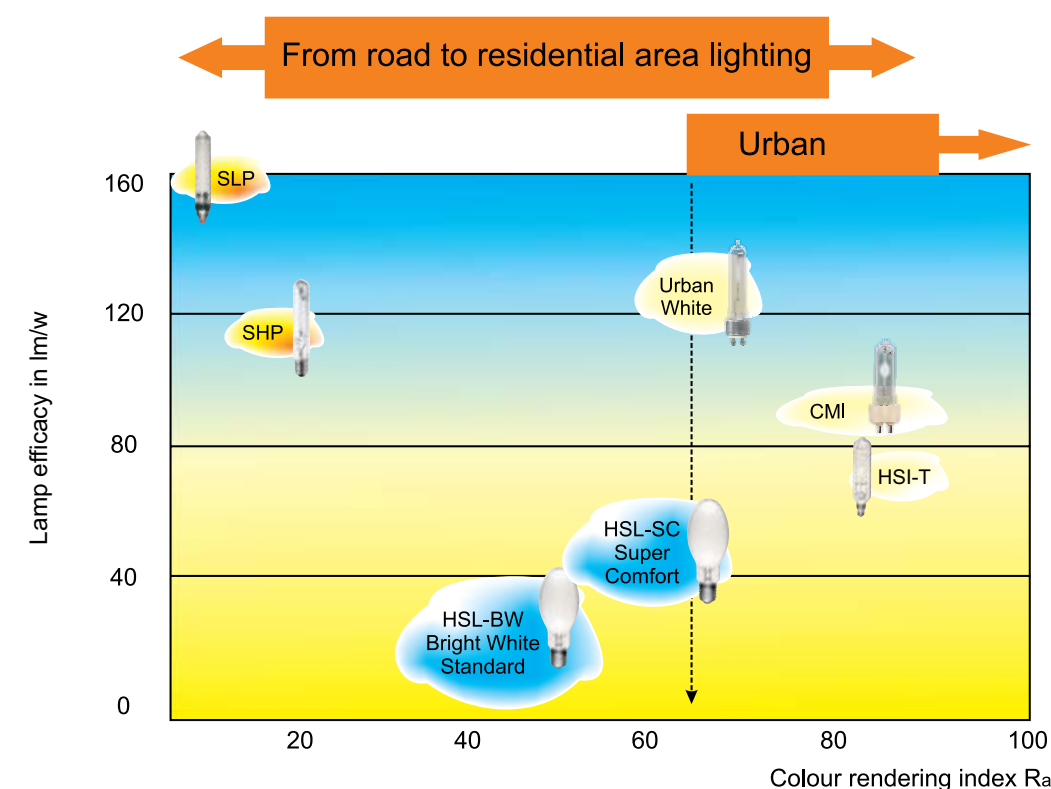
In the recent past, however, the preference for urban lighting has shifted to Ceramic Metal Halide solutions for their great CRI and good efficacy.

Nevertheless, depending on the special needs of the area that needs to be lit, all technologies are still in use as they all have their unique characteristics.

Positioning of HID Sources Colour Temperature Vs. Colour Rendering



Positioning of HID Sources Lamp Efficacy Vs. Colour Rendering





Lamp Section

Streetlighting

UrbanWhite™



Typical applications

- City Centers
- Public Places
- Residential Areas
- Roads & Tunnels
- Parks

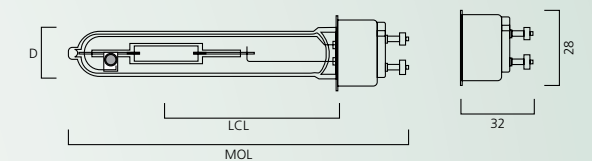


Lamp Description

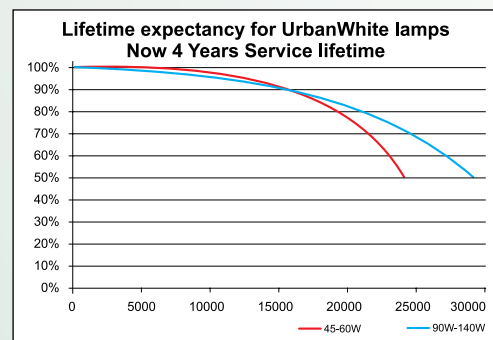
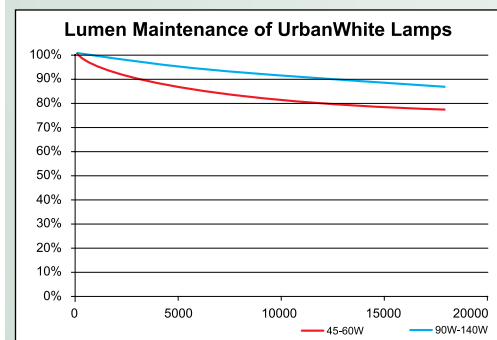
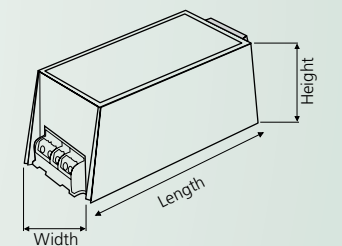
- Ceramic metal halide lamp for exclusive use on electronic gear
- New state of the art technology for outdoor lighting
- White light solution with improved optical performance in luminaires
- Improved visibility in streets and urban spaces, making them a safer environment for drivers, residents and pedestrians
- Low maintenance cost due to long service life and excellent lumen maintenance
- ErP compliant

Lamp Features

- Maximum performance of up to 118 lm/W
- High system efficacy for energy saving between 30% - 70% compared to SHP and HSL options
- Reduced CO₂ emissions for a cleaner environment
- Improved colour rendering compared to SHP
- Precise optical positioning and fixation due to the PGZ12 twist-and-lock cap
- Optimal service life of 4 years
- Compact size for modern high-performance luminaires
- CRI between 60 and 66
- Universal burning positions



Urban White	45W	60W	90W	140W
LCL	59	59	66	66
MOL	135	135	140	150
D	19	19	19	19



URBANWHITE™

Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
UrbanWhite™									
0020360	UrbanWhite CMO-TW 45W	45W	90V	0.5A	Clear	PGZ12	2720	4300	12
0020361	UrbanWhite CMO-TW 60W	60W	92V	0.65A	Clear	PGZ12	2730	6850	12
0020362	UrbanWhite CMO-TW 90W	90W	92V	0.98A	Clear	PGZ12	2880	10450	12
0020363	UrbanWhite CMO-TW 140W	140W	94V	1.49A	Clear	PGZ13	2860	16500	12

BRITETRONIC™ XTREME CONTROL GEAR

Product Code	Description	Wattage	PF	L _n	Voltage	Length (mm)	Width (mm)	Height (mm)
0010940	BriteTronic 0045 CMO-TW	45W	0.95	0.22A	220-240V	135	65	65
0010941	BriteTronic 0060 CMO-TW	60W	0.95	0.29A	220-240V	135	65	65
0010942	BriteTronic 0090 CMO-TW	90W	0.95	0.43A	220-240V	150	65	65
0010943	BriteTronic 0140 CMO-TW	140W	0.95	0.66A	220-240V	150	65	65

SHP TwinArc



Typical applications

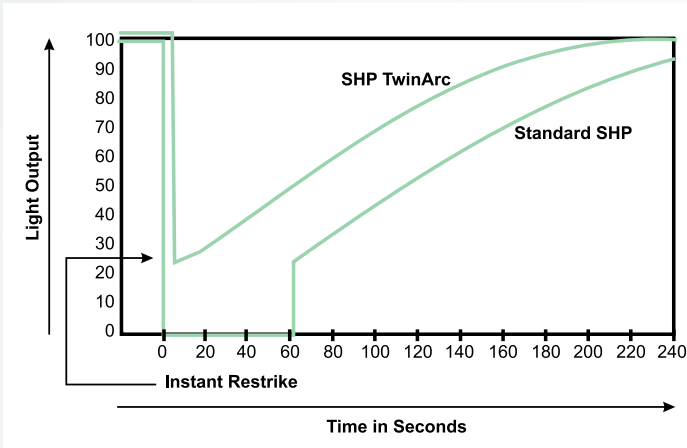
- Street lighting
- Tunnel Lighting
- Lighting of Bridges
- Parks
- Airports



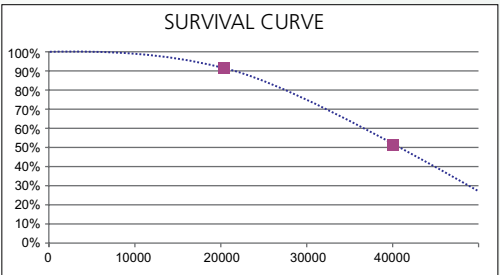
Lamp Features

- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- 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 or where safety is a high priority
- Perfect for tunnels, airports, military installations, harbours and industrial sites
- For use on sodium ballast compliant to IEC 60922 and 60923 and ignitor compliant to IEC 60927

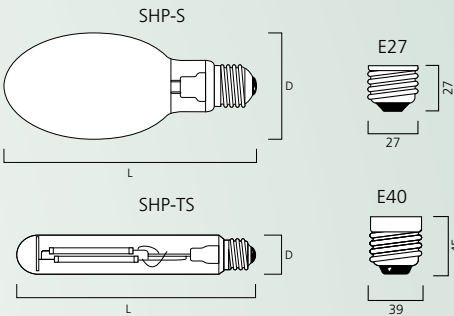
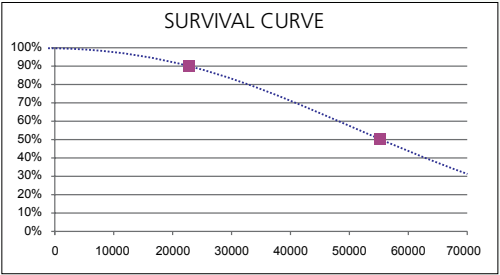
Instant Hot Restrike



SHP-(T)S TwinArc 35W & 50W

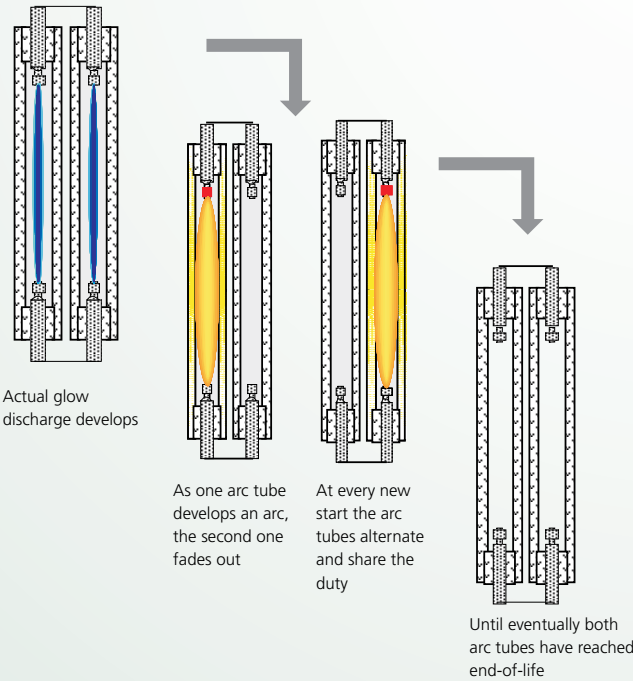


SHP-(T)S TwinArc 70W - 400W



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

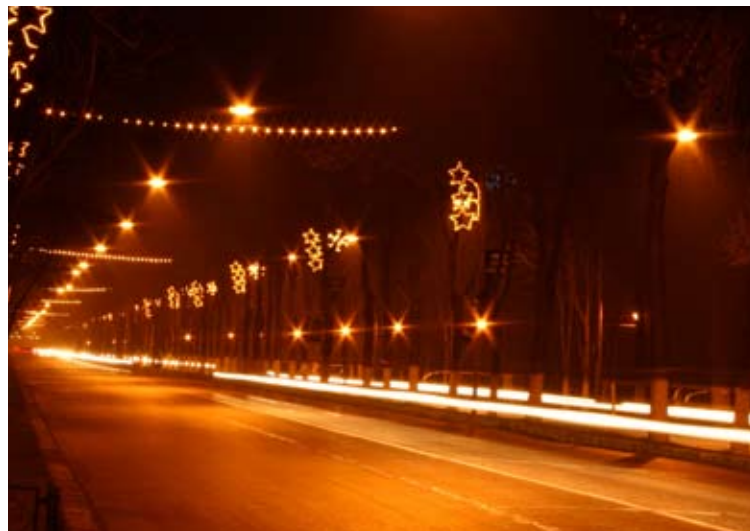
Double burner concept of TwinArc Lamps



SHP-S / SHP-TS TWINARC

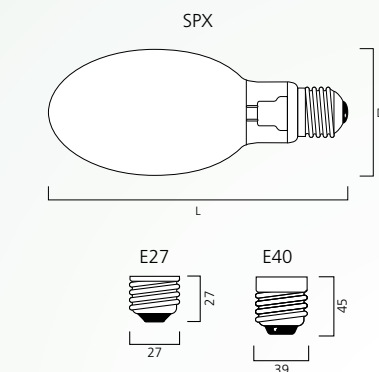
Code	Description	Wattage	Voltage	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
SHP-S TwinArc Elliptical									
0020720	SHP-S 35W TwinArc	35W	90V	0.49A	Coated	E27	2050K	1800 lm	40
0020717	SHP-S 50W TwinArc	50W	85V	0.76A	Coated	E27	2050K	3600 lm	40
0020719	SHP-S 70W TwinArc	70W	90V	0.98A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

SPX EcoArc

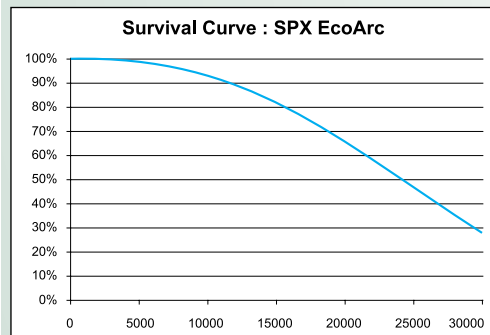
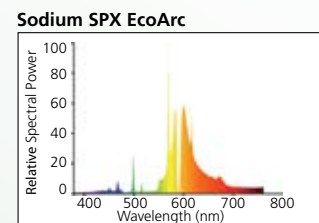


Lamp Features

- Direct retrofit for High Pressure Mercury lamps
- Range of high pressure Xenon lamps
- High Xenon pressure delivers improved light output and reduced energy consumption over standard retrofit types
- Internal electronic ignitor provides reliable ignition of the Xenon-filled arc tube
- Provides instant energy savings up to 18% over existing mercury installations
- Increased light output up to 50% more than comparable high pressure mercury lamp
- Excellent lumen maintenance throughout lamp life - Non Cycling
- Upgrade for road/industrial installations to higher lighting levels with reduced energy consumption
- Rated average life of 24,000 hours
- For use on Mercury ballast compliant to IEC 60922 and 60923
- Not recommended for operation on circuits having a leading power factor



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



SPX ECOARC

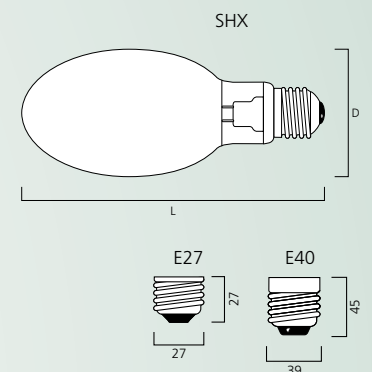
Code	Description	Wattage	Voltage	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
SPX EcoArc Elliptical									
0020800	SPX EcoArc 69/108W	69W	100V	0.82A	Coated	E27	1800K	4300 lm	40
0020800	SPX EcoArc 69/108W	108W	120V	1.20A	Coated	E27	1900K	8800 lm	40
0020801	SPX EcoArc 190W	205W	150V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

SHX Plug-In

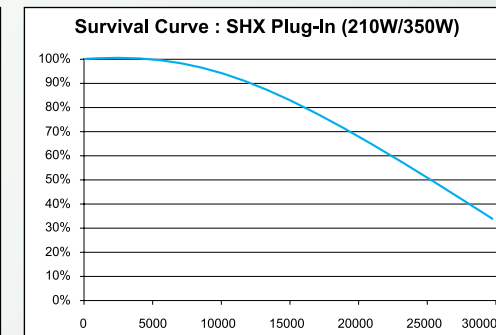
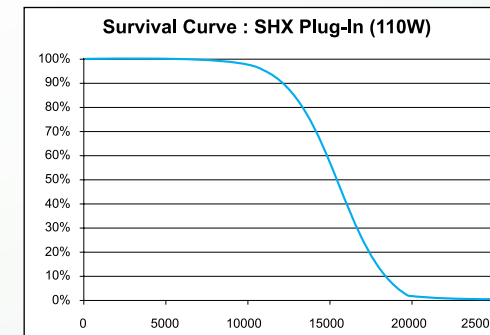
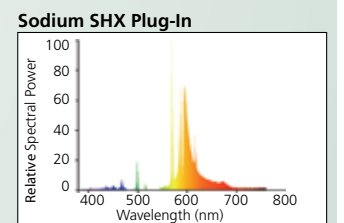


Lamp Features

- Direct retrofit for existing Mercury installations
- Up to 15% energy saving and 50% higher lumen output compared to High Pressure Mercury lamps
- Long average rated life of up to 25,000 hours
- Not recommended for operation on circuits having a leading power factor
- Suitable for direct installation in street and industrial applications using mercury lamps
- For use on Mercury ballast compliant to IEC 60922 and 60923



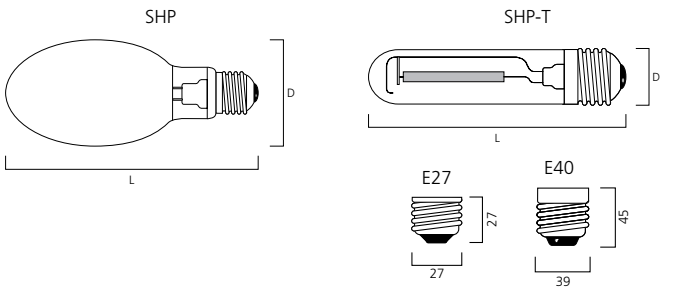
SHX	110W	210W	350W
L	178	228	292
D	76	91	122



SHX PLUG-IN

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

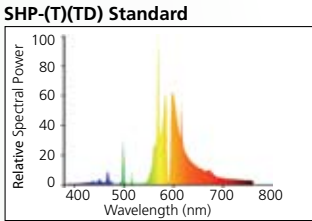
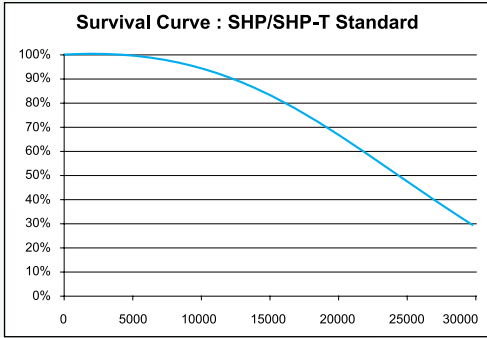
SHP/SHP-T Standard



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

Lamp features

- 3 year service life
- High luminous efficacy of up to 130 lm/W
- Large wattage range with either clear tubular or coated ellipsoidal outer bulb
- Pleasant golden white light gives a warm colour appearance
- Major application in road lighting, both on motorways and in residential streets
- Excellent choice for general industrial lighting, both indoors and for outdoor floodlighting
- For use on sodium ballast compliant to IEC 60922 and 60923 and ignitor compliant to IEC 60927



SHP / SHP-T STANDARD

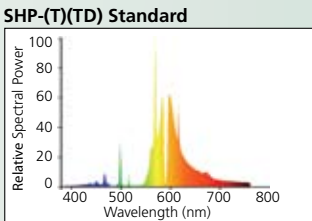
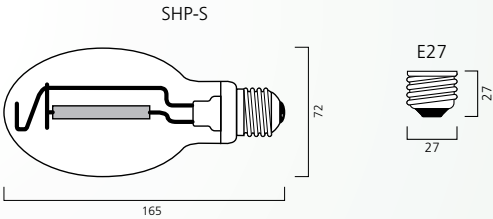
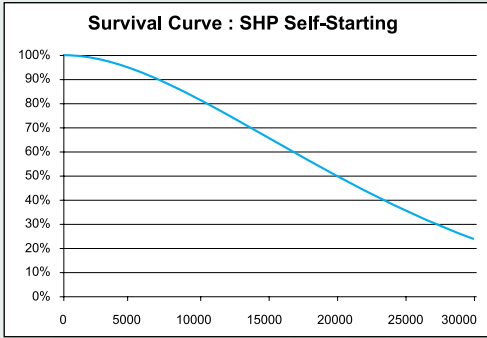
Code	Description	Wattage	Voltage	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
SHP Standard Elliptical									
0020554	SHP 50W	50W	85V	0.76A	Coated	E27	2050K	3300 lm	40
0020555	SHP 70W	70W	90V	0.98A	Coated	E27	2050K	5800 lm	40
0020563	SHP 100W	100W	100V	1.20A	Coated	E27	2050K	10000 lm	40
0020479	SHP 150W	150W	100V	1.80A	Coated	E40	2050K	14000 lm	12
0020481	SHP 250W	250W	100V	3.00A	Coated	E40	2050K	26000 lm	12
0020484	SHP 400W	400W	105V	4.45A	Coated	E40	2050K	47000 lm	12
SHP-T Standard Tubular									
0020455	SHP-T 50W	50W	85V	0.76A	Clear	E27	2050K	3500 lm	40
0020457	SHP-T 70W	70W	90V	0.98A	Clear	E27	2050K	6000 lm	40
0020480	SHP-T 150W	150W	100V	1.80A	Clear	E40	2050K	14500 lm	12
0020482	SHP-T 250W	250W	100V	3.00A	Clear	E40	2050K	28000 lm	12
0020485	SHP-T 400W	392W	100V	4.60A	Clear	E40	2050K	48000 lm	12
0020504	SHP-T 1000W	960W	100V	10.6A	Clear	E40	2050K	130000 lm	4

SHP Self-Starting



Lamp Features

- 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
- Popular choice for parks, gardens, pedestrian zones and residential street lighting
- Low-cost illumination of small industrial areas
- Rated average life of 20,000 hours
- For use on sodium ballast compliant to IEC 60922 and 60923



SHP SELF-STARTING

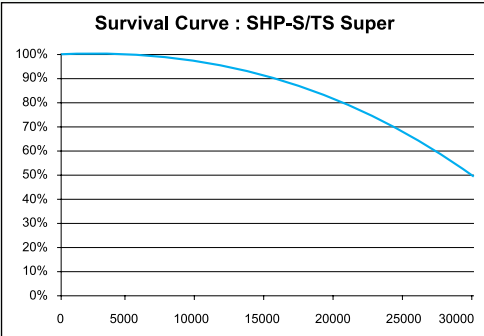
Code	Description	Wattage	Voltage	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
SHP Self-Starting Elliptical									
0020550	SHP 50W/CO-I	50W	85V	0.76A	Coated	E27	2050K	3300 lm	40
0020551	SHP 70W/CO-I	70W	90V	0.98A	Coated	E27	2050K	5800 lm	40
0020553	SHP 70W/CL-I	70W	90V	0.98A	Clear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

SHP-S/TS Super

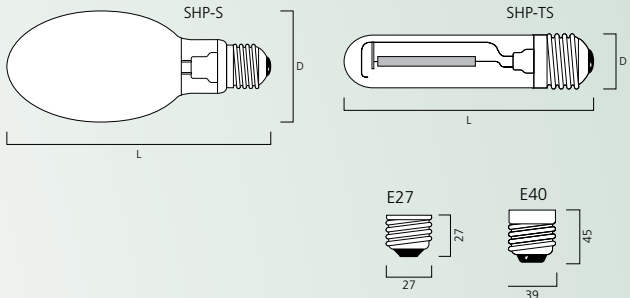
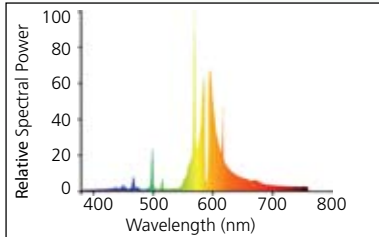


Lamp Features

- Exceptional reliability, offering 4 years service life
- 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
- Rated average life of 32.000 hours
- for use on sodium ballast complaint to IEC 60922 and 60923 and ignitor complaint to IEC 60927



Sodium SHP-(T)S 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	35W	50W	70W	100W	150W	250W	400W	600W
L	156	156	156	211	211	260	292	292
D	39	39	39	48	48	48	48	48

SHP-S/SHP-TS SUPER

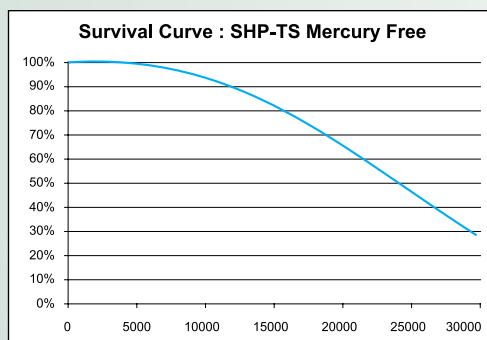
Code	Description	Watt	Volt	Beam Angle	Cap	Colour Temp	Luminous Intensity	Average Rated Life	Packing Qty.
SHP-S Super Elliptical									
0020448	SHP-S 35W	35W	90V	0.49A	Coated	E27	2050K	1800 lm	40
0020688	SHP-S 50W	50W	85V	0.76A	Coated	E27	2050K	3600 lm	40
0020690	SHP-S 70W	70W	90V	0.98A	Coated	E27	2050K	6000 lm	40
0020692	SHP-S 100W	100W	100V	1.20A	Coated	E40	2050K	10000 lm	40
0020693	SHP-S 150W	150W	100V	1.80A	Coated	E40	2050K	16900 lm	12
0020715	SHP-S 250W	250W	100V	2.95A	Coated	E40	2050K	30000 lm	12
0020716	SHP-S 400W	410W	105V	4.40A	Coated	E40	2050K	54000 lm	12
SHP-TS Super Tubular									
0020326	SHP-TS 35W	35W	90V	0.49A	Clear	E27	2050K	2100lm	40
0020687	SHP-TS 50W	50W	85V	0.76A	Clear	E27	2050K	4200 lm	40
0020678	SHP-TS 70W	70W	90V	0.98A	Clear	E27	2050K	6800 lm	40
0020686	SHP-TS 100W	100W	100V	1.20A	Clear	E40	2050K	10700 lm	12
0020685	SHP-TS 150W	150W	100V	1.80A	Clear	E40	2050K	17500 lm	12
0020713	SHP-TS 250W	255W	100V	2.95A	Clear	E40	2050K	33400 lm	12
0020714	SHP-TS 400W	400W	100V	4.50A	Clear	E40	2050K	56500 lm	12
0020805	SHP-TS 600W	600W	110V	6.00A	Clear	E40	2050K	90000 lm	12

SHP-TS Mercury Free



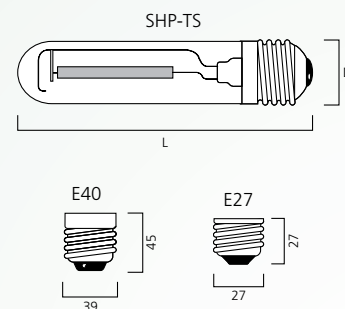
Lamp Features

- 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
- For streets, parks, tunnels and industrial lighting in general
- Rated average life of 24.000 hours
- For use on sodium ballast compliant to IEC 60922 and 60923 and ignitor complaint to IEC 60927



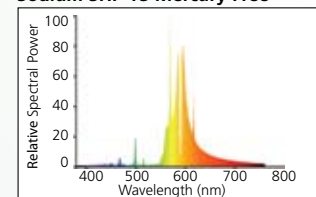
SHP-TS MERCURY FREE

Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
SHP-TS Mercury Free Tubular									
0020990	SHP-TS 70W Mercury Free	70W	90V	0.98A	Clear	E27	2200K	5300 lm	40
0020992	SHP-TS 100W Mercury Free	100W	100V	1.20A	Clear	E40	2200K	9000 lm	12
0020994	SHP-TS 150W Mercury Free	153W	100V	1.80A	Clear	E40	2200K	16000 lm	12
0020996	SHP-TS 250W Mercury Free	258W	100V	2.90A	Clear	E40	2200K	29000 lm	12
0020998	SHP-TS 400W Mercury Free	408W	100V	4.50A	Clear	E40	2200K	53000 lm	12



SHP-TS	70W	100W	150W	250W	400W
L	156	211	211	260	292
D	39	48	48	48	48

Sodium SHP-TS Mercury Free

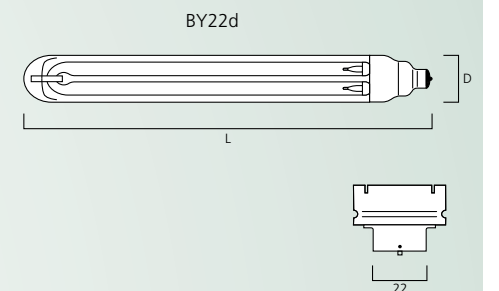


Sodium Low Pressure - SLP



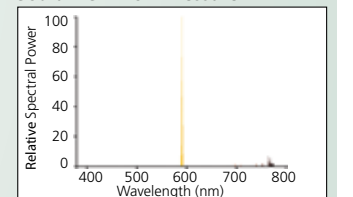
Lamp Features

- 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 and minimum energy costs
- Pedestrian crossing lighting for contrast with mercury or fluorescent sources



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

Sodium SLP Low Pressure



SLP

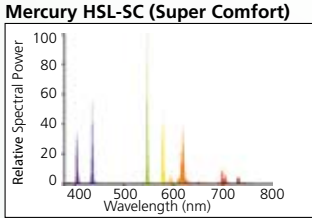
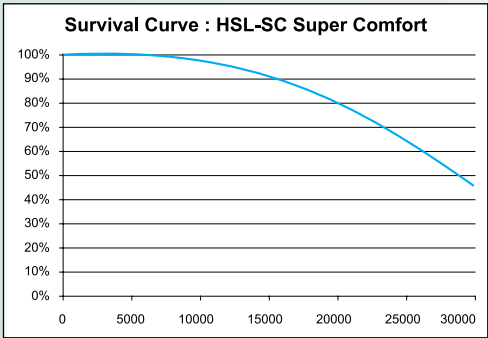
Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
SLP Tubular									
0020528	SLP 18W	18W	57V	0.35A	Clear	BY22d	1800K	1800 lm	12
0020495	SLP 35W	35W	70V	0.60A	Clear	BY22d	1800K	4500 lm	12
0020496	SLP 55W	55W	109V	0.59A	Clear	BY22d	1800K	7400 lm	12
0020497	SLP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

HSL-SC Super Comfort



Lamp Features

- 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
- For use on mercury ballast compliant to IEC 60922 and 60923



HSL-SC SUPER COMFORT

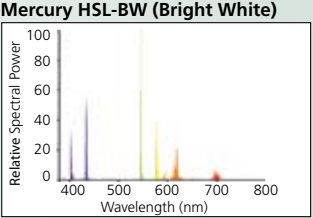
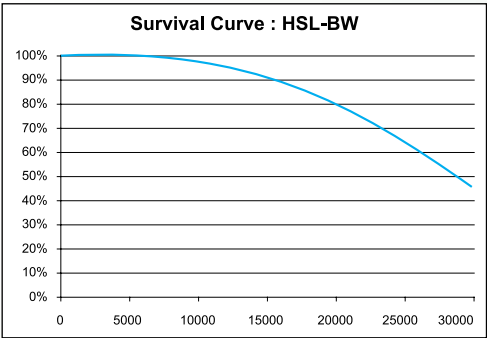
Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
HSL-SC Super Comfort Elliptical									
0020895	HSL-SC 50W	50W	95V	0.61A	Coated	E27	3400K	2000 lm	24
0020890	HSL-SC 80W	80W	115V	0.80A	Coated	E27	3400K	4000 lm	40
0020891	HSL-SC 125W	125W	125V	1.15A	Coated	E27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

HSL-BW Bright White Standard



Lamp Features

- 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
- CRI between 40 and 59
- For use on mercury ballast compliant to IEC 60922 and 60923



HSL-BW BRIGHT WHITE STANDARD

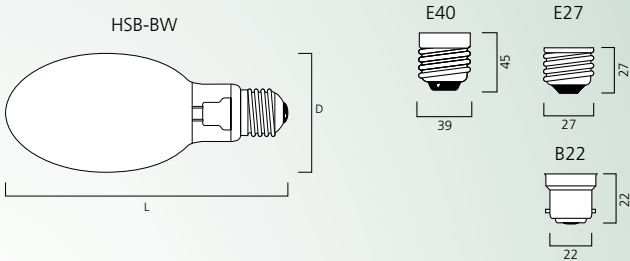
Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
HSL-BW Bright White Standard Elliptical									
0020405	HSL-BW 50W	50W	95V	0.61A	Coated	E27	4000K	1800 lm	24
0020406	HSL-BW 80W	80W	115V	0.80A	Coated	E27	4000K	3800 lm	40
0020407	HSL-BW 125W	125W	125V	1.15A	Coated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

HSB-BW Bright White Blended

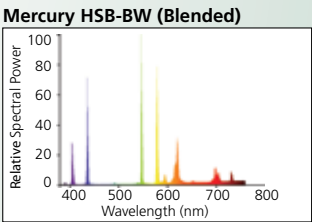
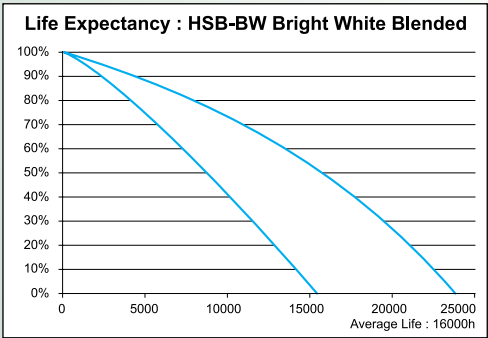


Lamp Features

- 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



	160W	250W	500W
E27			
L	178	233	-
D	76	91	-
E40			
L	-	228	292
D	-	91	122
B22d			
L	178	-	-
D	76	-	-



HSB-BW BRIGHT WHITE BLENDED

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

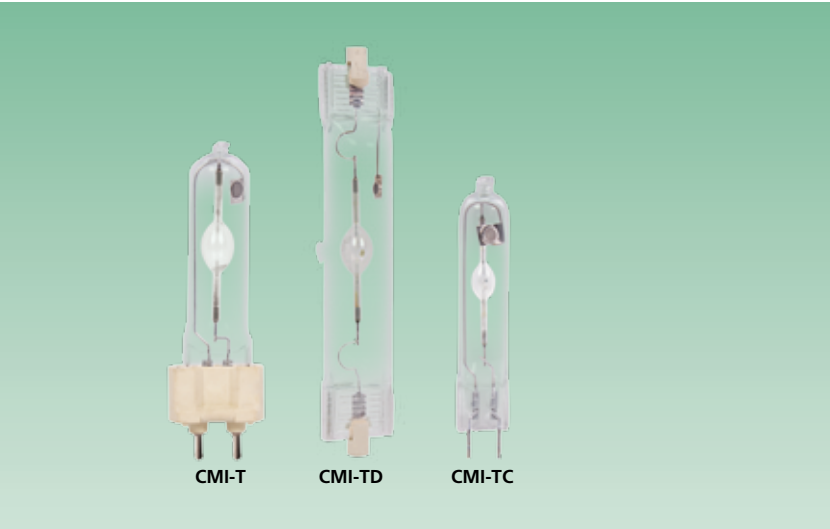




Lamp Section

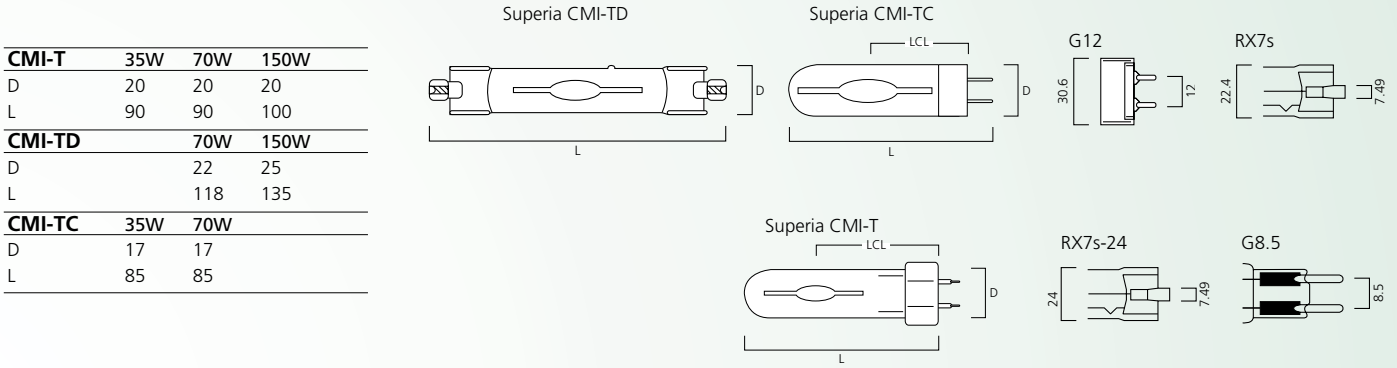
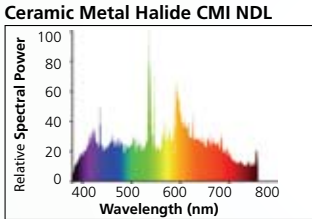
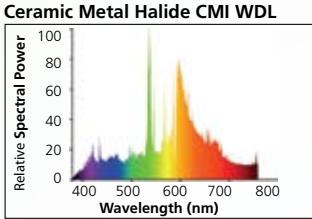
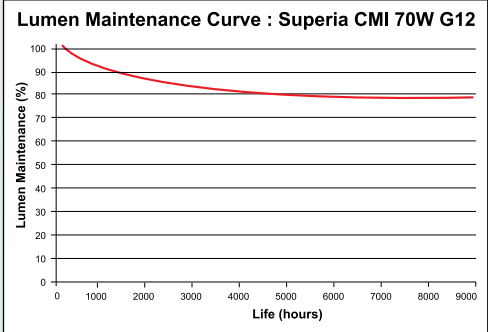
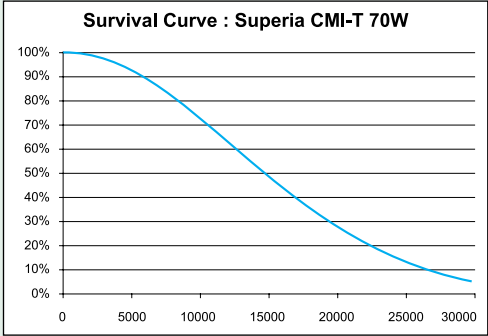
General Outdoor &
City Beautification

SUPERIA CMI-T / CMI-TD / CMI-TC



Lamp Features

- Unique one-piece elliptical arc tube
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life
- Very high luminous efficiency in a compact lamp format
- Excellent colour rendering
- For use only in luminaires equipped with a protective cover glass
- Applications in both interior and exterior lighting – shops, hotel lobbies and architectural
- Optimized for use on BriteTronic gear



SUPERIA CMI-T/ CMI-TD / CMI-TC

Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	CRI	Luminous Intensity	Packing Qty.
Superia CMI-T										
0020300	CMI-T 35W/WDL	39W	80V	0.49A	Clear	G12	3000K	91	3700 lm	12
0020301	CMI-T 70W/WDL	70W	80V	0.88A	Clear	G12	3000K	90	6900 lm	12
0020305	CMI-T 70W/NDL	70W	80V	0.88A	Clear	G12	4200K	96	7000 lm	12
0020302	CMI-T 150W/WDL	150W	80V	1.88A	Clear	G12	3000K	90	15000 lm	12
0020306	CMI-T 150W/NDL	150W	80V	1.88A	Clear	G12	4200K	96	15000 lm	12
Superia CMI-TD										
0020307	CMI-TD 70W/WDL	70W	80V	0.88A	Clear	RX7s	3000K	90	6900 lm	12
0020308	CMI-TD 70W/NDL	70W	80V	0.88A	Clear	RX7s	4200K	96	7000 lm	12
0020309	CMI-TD 150W/WDL	150W	80V	1.88A	Clear	RX7s-24	3000K	90	15000 lm	12
0020310	CMI-TD 150W/NDL	150W	80V	1.88A	Clear	RX7s-24	4200K	96	15000 lm	12
Superia CMI-TC										
0020303	CMI-TC 35W/WDL	39W	80V	0.49A	Clear	G8.5	3000K	91	3700 lm	12
0020304	CMI-TC 70W/WDL	70W	80V	0.88A	Clear	G8.5	3000K	90	6900 lm	12

BRITETRONIC™

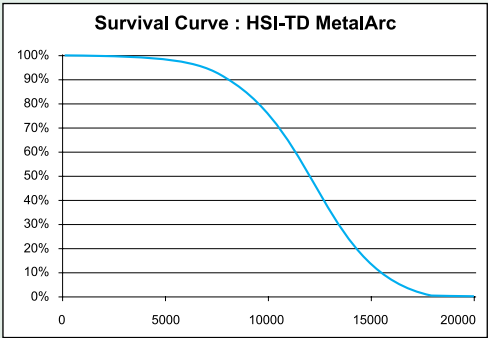
Code	Description	Rated Lamp Type	Line Voltage +/- 10%	Life Frequency	System Power	Packing Qty.
BriteTronic™						
0010932	BriteTronic™ PCI 0035 B011	BriteSpot, CMI, HSI 35W	220-240V	0/50-60 Hz	44W	15
0010933	BriteTronic™ PCI 0035 B021	BriteSpot, CMI, HSI 35W	220-240V	0/50-60 Hz	44W	15
0010934	BriteTronic™ PCI 0070 B011	BriteSpot, CMI, HSI 70W	220-240V	0/50-60 Hz	79W	15
0010935	BriteTronic™ PCI 0070 B021	BriteSpot, CMI, HSI 70W	220-240V	0/50-60 Hz	79W	15

HSI-TD METALARC



Lamp Features

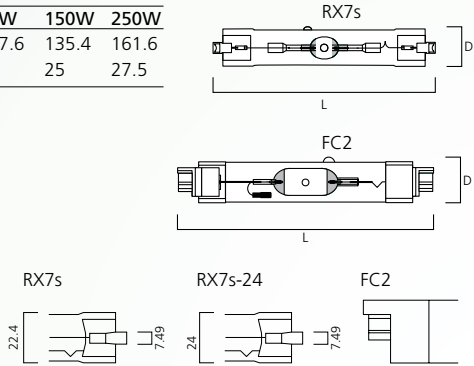
- Choice of three different colour temperatures: Warm, Neutral White and Daylight
- High efficiency, compact arc tube
- Suitable for general interior lighting in uplights or downlights, e.g. in shops and malls
- Economical source for exterior floodlighting of monuments, parks and facades
- For use on gear complaint to IEC 60922 and 60923



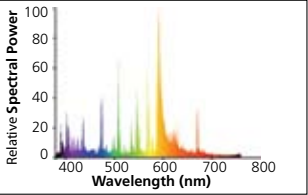
HSI-TD METALARC

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

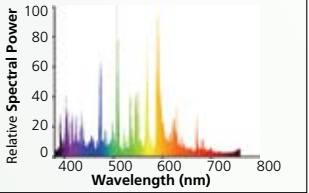
HSI-TD	70W	150W	250W
L	117.6	135.4	161.6
D	22	25	27.5



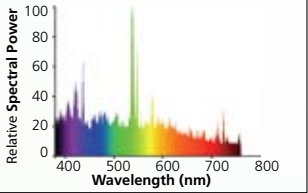
Metal Halide HSI-TD/WDL



Metal Halide HSI-TD/NDL



Metal Halide HSI-TD/D

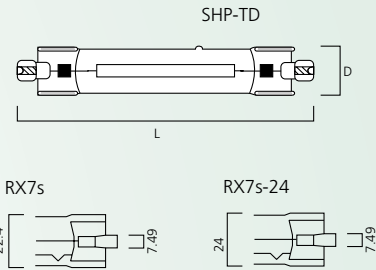


SHP-TD Standard



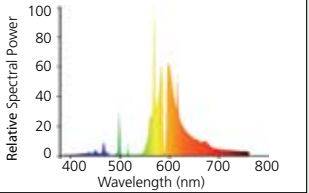
Lamp Features

- 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
- Rated average life of 8.000 hours
- For use on sodium ballast compliant to IEC 60922 and 60923 and ignitor compliant to IEC 60927



SHP-TD	70W	150W
L	170.6	135.4
D	22	25

SHP-(T)(TD) Standard



SHP-TD STANDARD

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

HSI-(T)SX BriteLux



HSI-SX(P) BriteLux Elliptical



HSI-TSX BriteLux Tubular



HSI-(T)HX

HSI-HX Elliptical

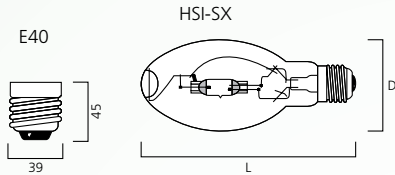


HSI-THX Tubular

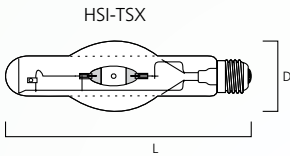


Lamp Features

- 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
- '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
- CRI: between 60 and 69
- Rated average life 20.000 hours
- For use on gear compliant to IEC 60922 and 60923

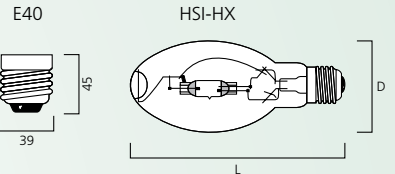


HSI-SX	250W	400W
L	227	290
D	90	120
HSI-TSX	250W	400W
L	260	270
D	48	63

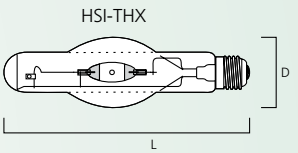


Lamp Features

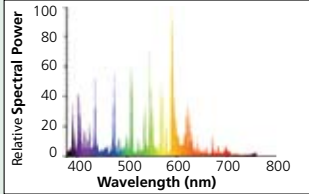
- HX family of metal halide lamps for use with a mercury ballast with soft ignitor
- HX family can also be operated on SHP control gear, resulting in both different output and colour temperature
- 'I' internal ignitor versions available, for simpler circuits with no ignitor
- 'I' versions can be used as a direct replacement for mercury discharge lamps
- High lumen package with good colour rendering properties
- For industrial applications such as petrol stations, car parks, rail yards
- Popular choice for sports arena lighting
- Colour rendering: between 60 and 69
- Rated average life of 20.000 hours
- For use on gear compliant to IEC 60922 and 60923



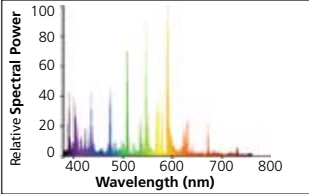
HSI-HX	250W	400W
L	227	290
D	90	120
HSI-THX	250W	400W
L	260	270
D	48	63



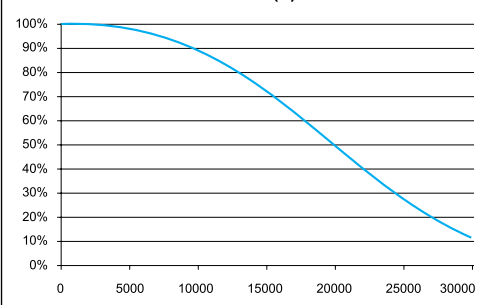
Metal Halide HSI-(T)SX/CO



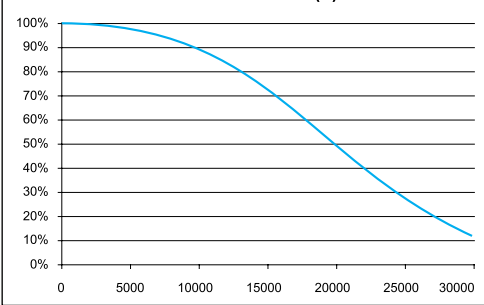
Metal Halide HSI-(T)SX/CL



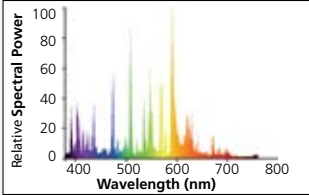
Survival Curve : HSI-(T)SX BriteLux



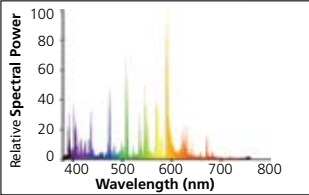
Survival Curve : HSI-(T)HX



Metal Halide HSI-HX/CO



Metal Halide HSI-T/HX/CL



HSI-(T)SX BRITELUX

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

HSI-(T)HX

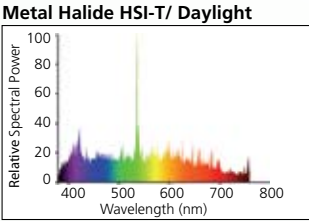
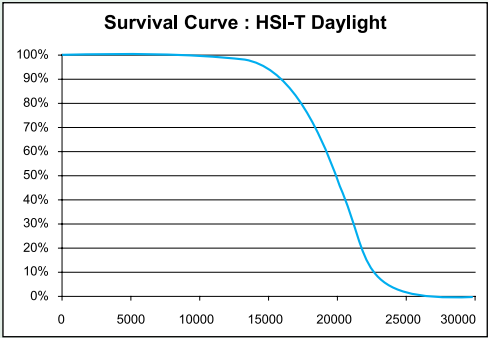
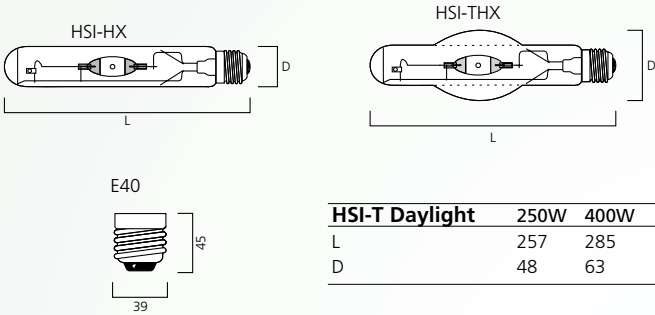
Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
HSI-HX Elliptical									
0020357	HSI-HX 250W/CL	245W	130V	2.1A	Clear	E40	4500K	23000 lm	12
0020355	HSI-HX 250W/CO	245W	130V	2.1A	Coated	E40	3800K	21000 lm	12
0020353	HSI-HX 400W/CL	400W	130V	3.4A	Clear	E40	4500K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

HSI-T Daylight



Lamp Features

- Single ended metal halide lamps with crisp daylight colour
- Excellent colour rendering above 90
- High light output
- Good lumen maintenance over life
- Industrial lighting e.g. car parks, rail yards, petrol stations and street lighting
- Sports arena lighting
- Rated average life of 20.000 hours
- For use on gear compliant to IEC 60922 and 60923



HSI-T DAYLIGHT

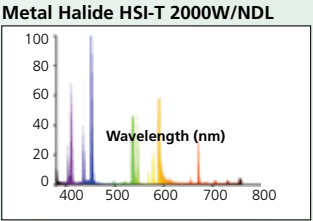
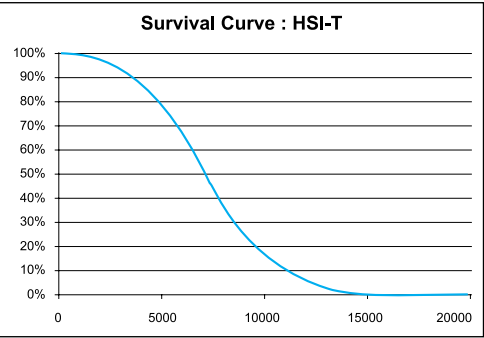
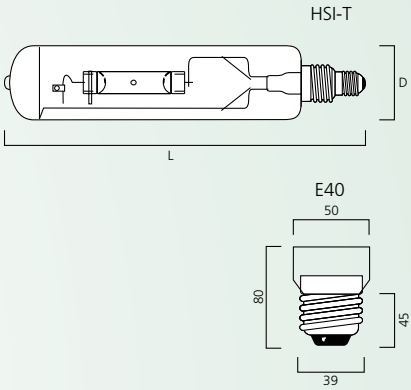
Code	Description	Watt	Volt	Current	Lamp Finish	Cap	Colour Temp	Luminous Flux	Packing Qty.
HSI-T Daylight									
0020530	HSI-T 250W/D	250W	112V	3.0A	Clear	E40	5300K	20000 lm	12
0020531	HSI-T 400W/D	400W	122V	4.4A	Clear	E40	6100K	32000 lm	12

HSI-T



Lamp Features

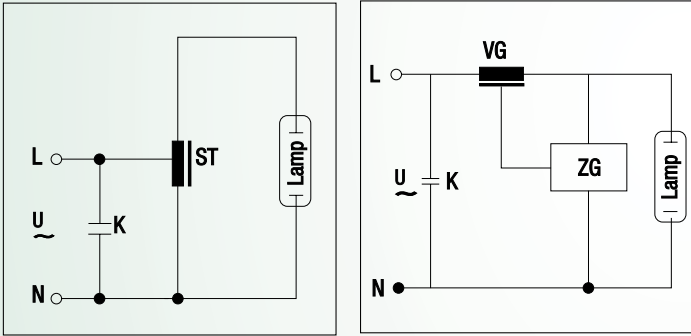
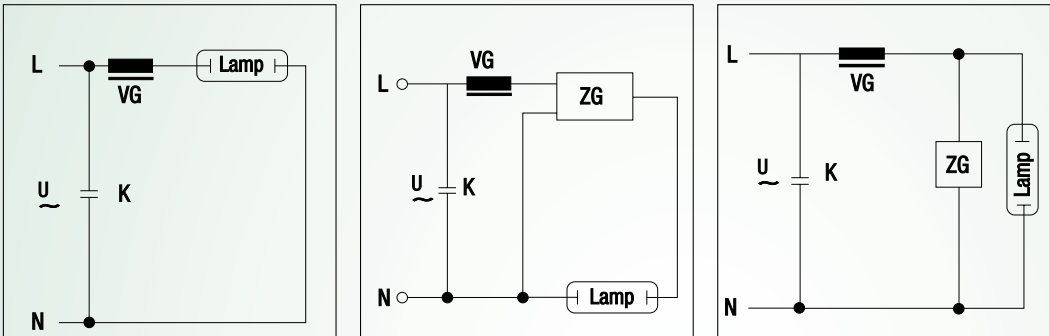
- High Power Metal Halide range
- Both internal (I-type) and external ignitor versions available
- All versions operate on a standard mercury ballast, with or without (I type) external ignitor
- Very high light output with outstanding colour properties
- Suitable for colour television filming in sports stadia and large arena
- Industrial lighting applications in exterior car parks, rail and dock yards
- For use on gear compliant to IEC 60922 and 60923



HSI-T

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

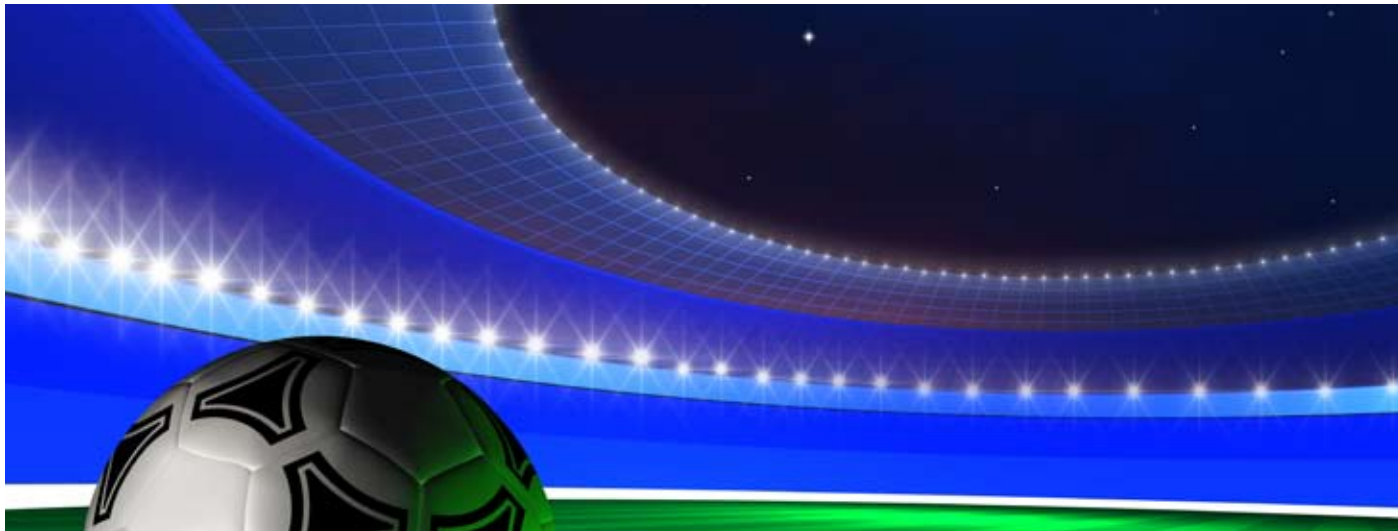
HID - Circuit Diagrams



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



	Magnetic Gear (Tray including Capacitor, ignitor and ballast)	Electronic Gear
Ceramic Metal Halide		
Superia CMI 20W		0010912_BriteTronic PCI 20 PRO C011
Superia CMI 35W (0020300, 0020303)	Equivalent magnetic gear as used for High Pressure Sodium	0010932_BriteTronic PCI 0035 B011
		0010933_BriteTronic PCI 0035 B021
		9010874_PCI 2/35 B011 220-240 50/60 Hz
		9010875_PCI 2/35 B021 220-240 50/60 Hz
		0010914_BriteTronic PCI 35 PRO C021
Superia CMI 70W (0020301, 0020304, 0020305, 0020307, 0020308)		0010913_BriteTronic PCI 35/70 PRO C011
	9058400_GT S/M 70W/F AIT 230V CL2 (WDL colour only)	0010934_BriteTronic PCI 0070 B011
		0010935_BriteTronic PCI 0070 B021
		9010876_PCI 2/70 B011 220-240 50/60 Hz
		9010877_PCI 2/70 B021 220-240 50/60 Hz
		0010911_BriteTronic PCI 70 PRO C021
Superia CMI 150W (0020302, 0020306, 0020309,0020310)		0010913_BriteTronic PCI 35/70 PRO C011
	9058402_GT S/M 150W/F AIT 230V CL2 (WDL colour only)	9010872_PCI 0150 B011 220-240 50/60 Hz
		9010873_PCI 0150 B021 220-240 50/60 Hz
Urbanwhite 45W (0020360)		0010940_BriteTronic Xtreme 0045 CMO-TW
Urbanwhite 60W (0020361)		0010941_BriteTronic Xtreme 0060 CMO-TW
Urbanwhite 90W (0020362)		0010942_BriteTronic Xtreme 0090 CMO-TW
Urbanwhite 140W (0020363)		0010943_BriteTronic Xtreme 0140 CMO-TW



	Magnetic Gear (Tray including capacitor, ignitor and ballast)
High Pressure Sodium	
High power applications (1000W)	9058350_GT HPS 1000W 230V
70W Sodium lamps	9058400_GT S/M 70W/F AIT 230V CL2
100W Sodium lamps	9058401_GT S/M 100W/F AIT 230V CL2
150W Sodium lamps	9058402_GT S/M 150W/F AIT 230V CL2
250W Sodium lamps	9058403_GT S/M-SX 250W/F AIT 230V CL2
400W Sodium lamps	9058404_GT S/M-SX 400W/F AIT 230V CL2
Metal Halide	
70W HSI-TD MetalArc	9058400_GT S/M 70W/F AIT 230V CL2
150W HSI-TD MetalArc	9058402_GT S/M 150W/F AIT 230V CL2
250W HSI-TD MetalArc	9058403_GT S/M-SX 250W/F AIT 230V CL2
250W BriteLux/HSI-(T)HX	9058403_GT S/M-SX 250W/F AIT 230V CL2
400W BriteLux/HSI-(T)HX	9058404_GT S/M-SX 400W/F AIT 230V CL2
250W HSI-(T)HX	0091108_BALL.H/M-HX 250W
400W HSI-(T)HX	0091109_ BALL.H/M-HX 400W
250W HSI-(T)HX	9058403_GT S/M-SX 250W/F AIT 230V CL2
400W HSI-(T)HX	9058404_GT S/M-SX 400W/F AIT 230V CL2
250W HSI-T Daylight	9058403_GT S/M-SX 250W/F AIT 230V CL2
400W HSI-T Daylight	9058404_GT S/M-SX 400W/F AIT 230V CL2
1000W HSI-T	9058351_GT MH 1000W 230V
2000W HSI-T	9058352_GT MH 2000W 380V
Mercury	
125W Mercury	0091107 BALL. H 125W
250W Mercury	0091108_BALL.H/M-HX 250W
400W Mercury	0091109_ BALL.H/M-HX 400W

Manufacturer’s Lamp Cross Reference



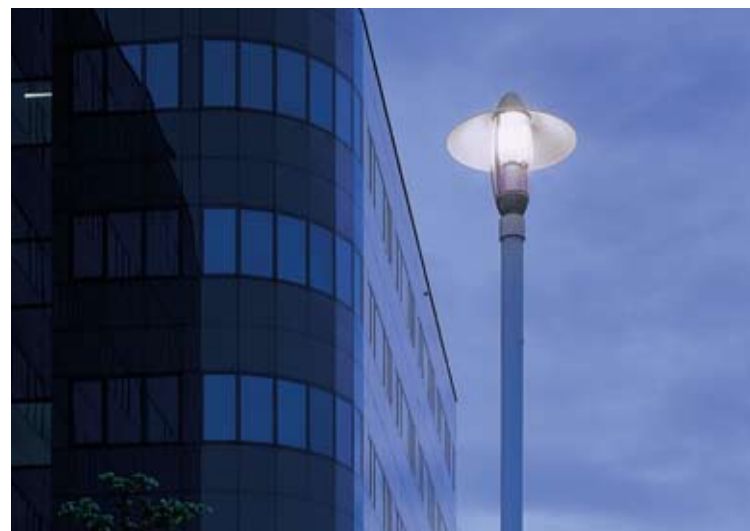
Sylvania	Osram	Philips	GE
Superia CMI-T	HCI-T	CDM-T Elite	CMH-T Ultra
Superia CMI-TD	HCI-TS	CDM-TD Elite	CMH-TD
Superia CMI-TC	HCI-TC	CDM-TC Elite	CMH-TC Ultra
BriteSpot	–	CDM-R Mini	CMH MR16
HSI-MP MetalArc	HQI-E	–	–
HSI-TD MetalArc	HQI-TS	MHN-TD	ARC/TD
HSI-T MetalArc	HQI-T	–	ARC/T
HSI-SX BriteLux	HQI-E/N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



Fixture Section

Streetlighting &
General Outdoor

Concord Skyline



For use with

- SHP-T Standard
- SHP-TS Super
- SHP-TS TwinArc
- UrbanWhite

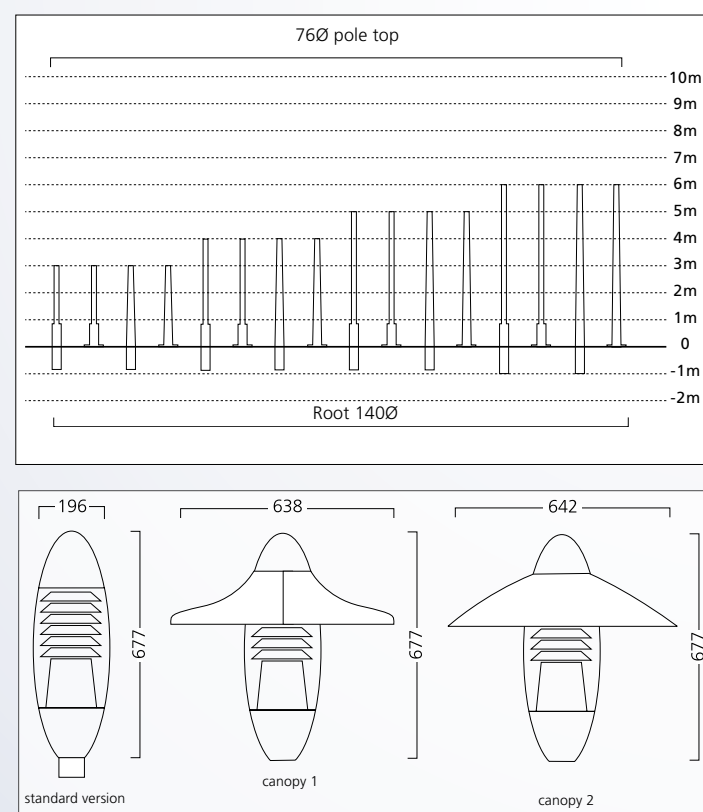
Features

- Contemporary amenity lighting
- Offers visually appealing ambience after dark
- Versatile white light solutions with good colour rendering

Application

- Plazas
- Municipal spaces
- Pedestrian areas
- Beautification projects, pathways
- Street and road lighting

Fuse cut out box



Concord Sterling Asymmetric Bulkhead



For use with

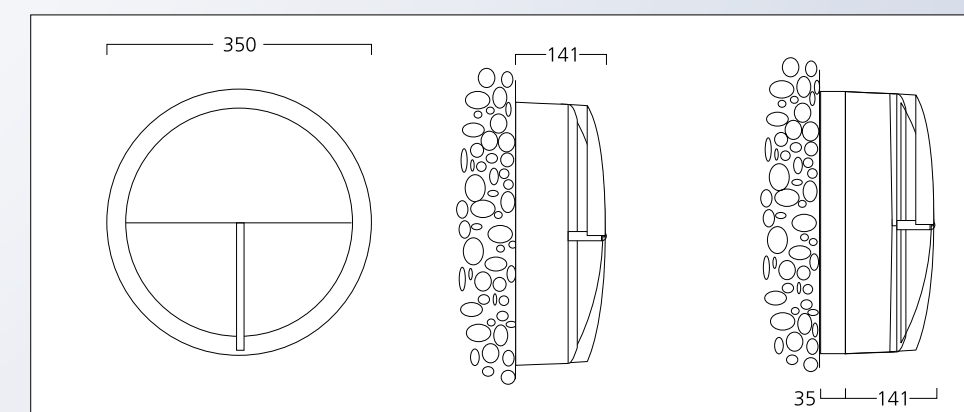
- Superia CMI-TD
- HSI-TD MetalArc

Features

- Complementary asymmetric version to Sterling Bulkhead range
- Unique textured diffuser to maximise distribution

Application

- Corridors
- Exterior walkways
- Entrances, Transport hubs
- Stairwells & Stairways



Concord Sterling Bollard



For use with

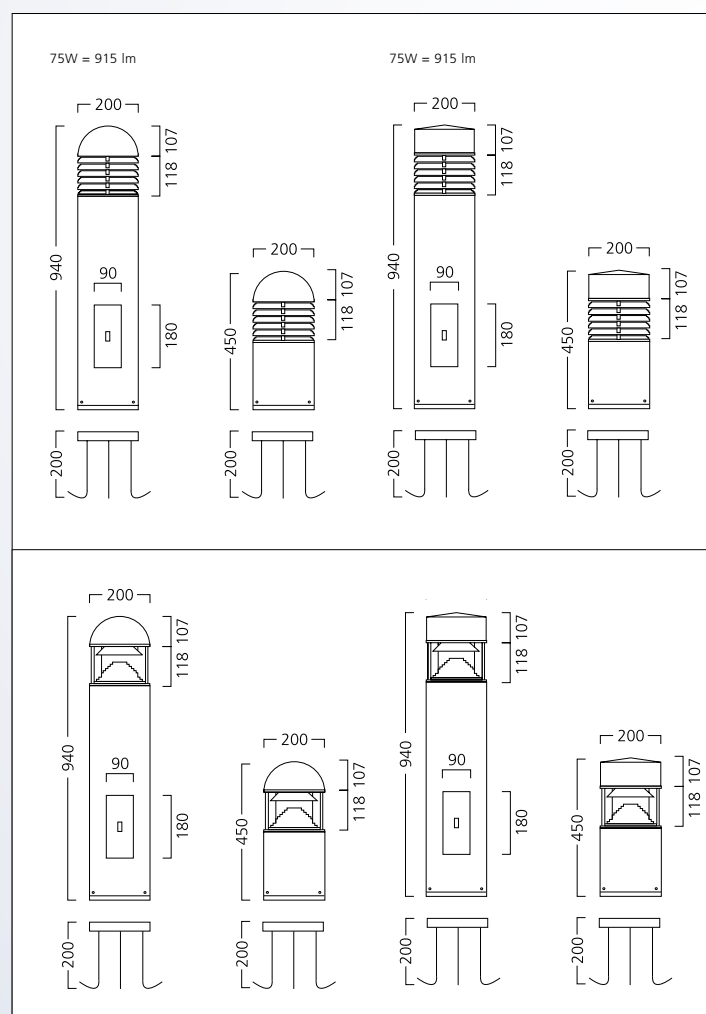
- SHP-T Standard
- SHP-TS Super
- SHP-TS TwinArc
- HSL-SC Super Comfort

Features

- Unique design making the range highly vandal resistant. IK10
- High performance optics allows wide spacing
- Emergency compact fluorescent version to special order
- New class 2 classification for improved electrical safety

Application

- Walkways
- Pedestrian zones
- Municipal areas
- Plazas, Driveways



Mini Sterling Bollard



For use with

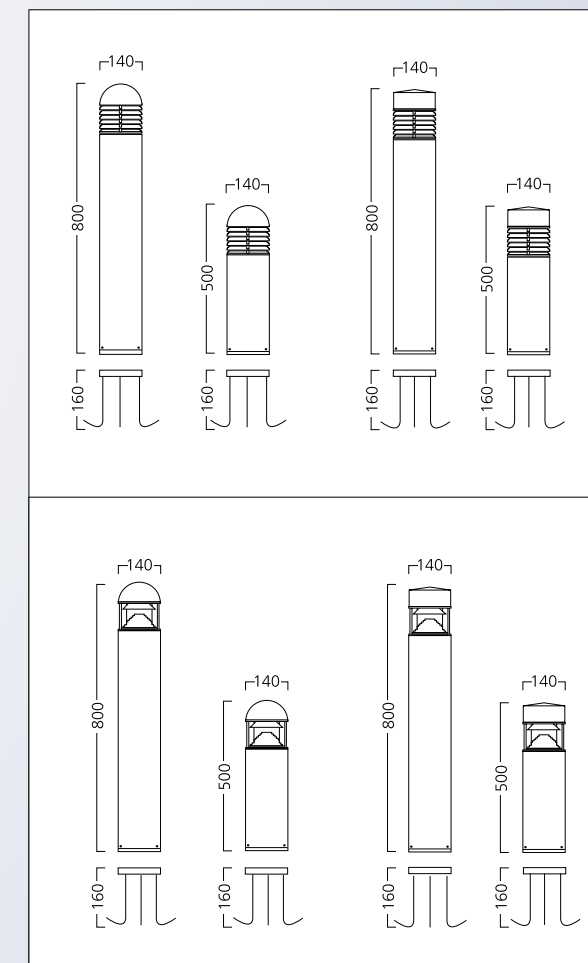
- SHP-T Standard
- SHP-TS Super
- SHP-TS TwinArc

Features

- Unique design making the range highly vandal resistant. IK10
- High performance optics allows wide spacing
- Glare free from typical walking and driving viewing angles
- New class 2 classification for improved electrical safety

Application

- Walkways
- Pedestrian zones
- Municipal areas
- Plazas, Driveways



Sylvania Subra



For use with

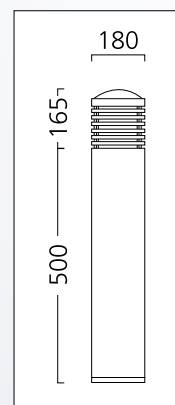
- SHP-T Standard
- SHP-TS Super
- SHP-TS TwinArc

Features

- Silver powder coated bollard with acrylic diffuser
- Anti-corrosive protection
- Silicone gaskets and acrylic diffuser
- Anchorage set to be fixed in concrete
- LM6 die-cast aluminium

Application

- Lighting paths
- Municipal areas
- Pedestrian access areas
- Walkways



Sylvania Sylally



For use with

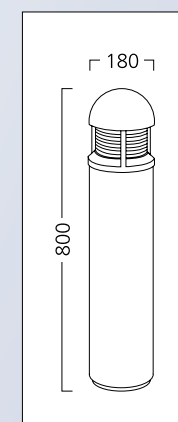
- SHP-T Standard
- SHP-TS Super
- SHP-TS TwinArc

Features

- Black powder coated bollard with polycarbonate diffuser
- Anti-corrosive protection
- Stainless steel fitting screws
- Aluminium reflecting louvre
- LM6 die-cast aluminium
- Easy installation
- Overall height 800mm

Application

- Lighting paths
- Municipal areas
- Pedestrian access areas
- Walkways



Sylvania Palmyra



For use with

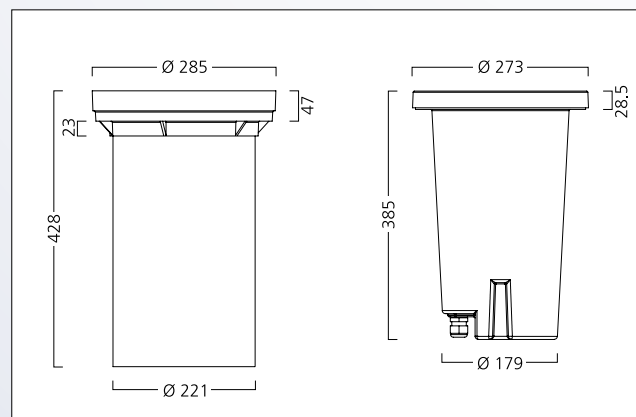
- Superia CMI-T/TD
- HSI-TD MetalArc

Features

- Body and circular plate deep die cast
- Aluminium dark grey powder coated
- 10mm toughened glass placed on a silicon gasket
- Anodised aluminium reflector 2x10° tiltable on G12 versions
- Stainless steel fixing screws
- Double M20 cable gland entries
- Metal Halide G12 base lamps included or Metal Halide Rx7S lamps included

Application

- Ideally suited for improvement of green areas
- Gardens, illuminations of monuments
- Building facades, walkways
- Private access areas



Sylvania Palmyra Square



For use with

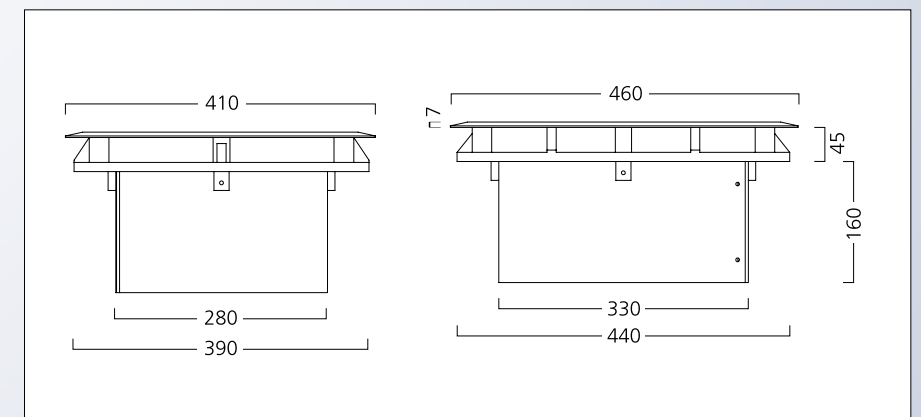
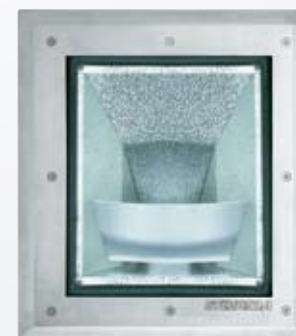
- Superia CMI-TD
- HSI-TD MetalArc

Features

- Withstand to 3.5 tons at 30 km/h
- 2.5mm housing in deep die cast aluminium dark grey polyester
- powder painted
- Plate in stainless steel 8mm depth
- Anodised aluminium internal asymmetric reflector
- 19mm tempered glass placed on a silicon gasket
- Stainless steel fixing screws
- Double M20 cable gland entries

Application

- Green areas
- Gardens, illuminations of monuments
- Building facades, walkways
- Private access areas



Sylvania Makira



For use with

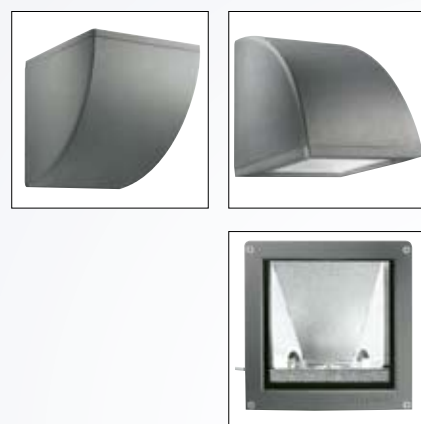
- Superia CMI-T/TD
- HSI-TD MetalArc
- HSI-T

Features

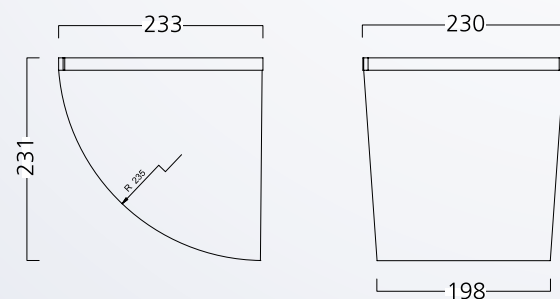
- Compact surface mounted luminaire
- Die cast aluminium housing with protective glass 3 mm deep
- Dark grey anti-corrosion painted
- Stainless steel screws
- Single Ø22mm grommet entry
- Makira 200 AS uses asymmetric anodised aluminium reflectors

Application

- Paths and entrances
- Step lighting for access areas
- Wall lighting for walkways



Makira 200 AS



Floodlights



For use with

- Mercury lamps
- High pressure sodium lamps
- Metal halide lamps

Features

- Range of Sylvania floodlight fixtures
- Aluminium bodies, rectangular asymmetrical or circular
- Control gear incorporated or separate

Application

- Illumination for monuments and building
- Illumination of commercial banners

AL 300



Sunkat FMH
200-500-1000-1500W



Sylveo Spot
120W



Sylveo 1
70-100-150W



Sylveo 2
250-400W



FMD Rectangular 1000
1000W



FMD 2000
2000W



FMD 1000-2000 Asym.
1000-2000W



FMD 1000-2000
1000-2000W

