

SPECIAL APPLICATIONS

SYLVANIA

163 Photo Optic



193 Petcare



203 Bodycare



208 Insect Trapping



211 Germicidal



215 Traffic Signaling



221 Infra Red



226 Sad



227 Food Display



Special Application Lamps

Sylvania offers a comprehensive range of lamps to meet a diverse range of specialist applications.

Photo Optic

Sylvania offers a wide and competitive range of lamps specifically designed for photo and projection applications.
We have a strong background and expertise in photo optic lighting, all our developments are manufactured in our Tienen factory in Belgium.
We are members of PLASA and have some high profile OEM developments suchs as: K5600-France + USA, Martin - Denmark or Clay Paky - Italy

Petcare

If you need to replace natural light – whether for plants, aquariums or terrariums – Sylvania has an extensive collection of lighting solutions available for you. For example, Sylvania's GROLUX is a world leader in plant illumination. Proper light and UV-radiation is very important for fish and reptiles. Our lighting engineers have developed lamps with specific light spectra for the most diverse uses. Either independently or in combination, Sylvania Aquarium and Terrarium lamps deliver the best results for complex biological requirements. Whether for plants, fish, corals, reptiles, or the entire biotope of aquariums and terrariums - with Sylvania you'll find the appropriate lighting.

Insect Trapping and Disinfection

Flying insects such as the common house fly, wasps, midges etc. carry up to 4 million pathogenic bacteria. Their presence is totally unacceptable in areas where hygiene is paramount. Sylvania offer a wide range of UV-A lamps in various lengths and diameters to attract these insects.
Sylvania lamps are utilised in many brands of insect traps.
Micro-organisms such as bacteria, moulds, yeasts etc can be destroyed or removed by physical, biological, and chemical methods. UV-C radiation destroys or inactivates the micro organism so that it can no longer multiply. Our extensive range of germicidal and blacklight lamps are ideal for generating the right sterilising effect.









BA 575 SE NHR



BA 1200 SE NHR

BriteArc Single Ended Non Hot Restrike lamps are compact light sources with excellent performance, specially designed for a wide variety of audiovisual applications. The BriteArc lamps are filled with mercury and rare earth elements to obtain a high efficacy and a stable colour with a very good rendering index. They can be re-struck after 10 minutes. These lamps can be operated in any position.

MADE IN BELGIUM

Features

- High luminous efficacy
- Low infrared
- Colour stability
- Excellent lumen maintenance
- Physical ruggedness

Applications

- Show lighting
- Theatre
- Discotheque lighting
- Follow spots
- Effect lighting
- Architectural

Directions for use

- Burning position: universal
- Restrike after 10 minutes
- Only use in closed fixtures
- Can be operated on an electronic power supply or on a magnetic ballast

BriteArc Single Ended Non Hot Restrike

Code	Description	Watt (W)	Volt (V)	Current (A)	Cap	Ignition Pulse (KV)	Colour Temp (K)	Luminous Flux (lm)	CRI	Total UV-output (W)	Replacement Time (Hrs)	Average Rated Life (Hrs)
BA SE NHR												
0023987	BA 150 SE NHR	150	95	1.8	GY9.5	1.9	5600	12,400	90	15	1500	1000
0023958	BA 400 SE NHR	400	67	6.9	GX9.5	2.2	6200	33,000	92	40	750	650
0023960	BA 575 SE NHR	575	95	6.95	GX9.5	2.2	5600	49,000	90	60	1000	750
0023961	BA 700 SE NHR	700	72	11.00	G22	3.4	5600	56,000	95	70	1200	1000
0023935	BA 1200 SE NHR	1200	100	13.8	G22	2.5	6000	110,000	95	100	1000	750
BA SE D (Long Life)												
0023982	BA 70 SE T	70	108	0.98	G12	3.5	6000	5500	80	UV-STOP	10,000	8000
0023978	BA 150 SE T	150	95	1.8	G12	3	6000	10,000	90	UV-STOP	9000	7000
0023814	BA 250 SE T	250	95	3	G12	1.9	5900	18,000	80	UV-STOP	1000	1250
7220168	BA 200 SE D	200	70	3.3	GY9.5	1.9	5600	14,000	70	15	3500	3000
7220169	BA 250 SE D	250	95	3	GY9.5	1.9	5800	18,800	80	18	3500	3000
0023981	BA 575 SE D	575	95	6.95	GX9.5	2.2	5600	49,000	90	60	2500	2000

Nominal values measured at rated wattage in horizontal position.

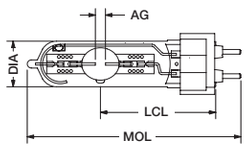


Fig. 1

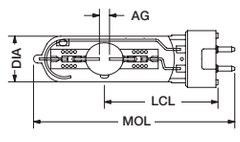


Fig. 2

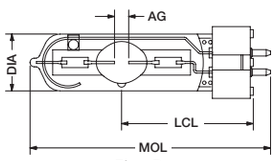


Fig. 3

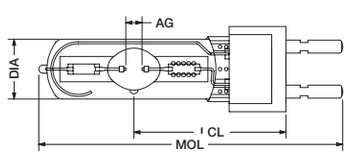


Fig. 4

Dimmensions (mm)

Code	Figure No	MOL	AG	DIA	LCL
0023987	2	80	5	17	37
0023958	3	112	6	23	62
0023960	3	125	7	30	65
0023935	4	175	10	40	85
0023961	4	155	8	30	75
0023982	1	108	9	20	56
0023978	1	108	11	23	56
0023814	1	108	5	23	56
7220168	2	108	5	23	55
7220169	2	108	5	23	55
0023981	3	125	7	30	65

Dimensions (mm)

Britearc Single Ended High Colour Temperature (Ba/2 Se)



BA 575 SE NHR



BA 1200 SE NHR

BriteArc Single Ended/2 lamps are compact light sources with a very high colour temperature offering stable crisp bright light during the complete lamp life.They can be re-struck after about 10 minutes. These lamps can be operated in any position.

Features

- Crisp bright light
- High luminous efficacy
- Low infrared
- Colour stability
- Excellent lumen maintenance
- Physical ruggedness applications
- Show lighting
- Theatre
- Discotheque lighting
- Effect lighting

Directions for use

- Burning position: universal
- Restrike after 10 minutes
- Only use in closed fixtures
- Can be operated on an electronic power supply or on a magnetic ballast

Britearc Single Ended High Colour Temperature (Ba/2 Se)

Code	Description	Watt (W)	Volt (V)	Current (A)	Ignition Pulse (KV)	Colour Temp (K)	Luminous Flux (lm)	CRI	Total UV-output (W)	Average Rated Life (Hrs)	Replacement Time (Hrs)	Packing Qty
0023998	BA 250/2 SE D 8.5	250	95	3	1.9	8500	18,000	65	30	3000	3500	10
0024002	BA 575/2 SE NHR 7.2	575	95	6.95	2.2	7200	45,000	85	65	1000	1200	10
0024000	BA 575/2 SE NHR 8.5	575	95	6.95	2.2	8500	44,000	80	65	1000	1200	10

Nominal values measured at rated wattage in horizontal position.

Dimmensions (mm)

Code	Figure No	MOL	AG	DIA	LCL
0023998	1	108	5	23	55
0024002	2	125	7	30	65
0024000	2	125	7	30	65

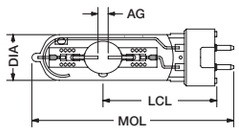


Fig. 1

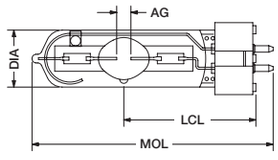


Fig. 2

Dimensions (mm)





BA200 SE HR Full Frost



BA 575 SE HR



BA 1200 SE HR

Features

- High luminous efficacy
- Low infrared
- Colour stability
- Excellent lumen maintenance
- Physical ruggedness
- Hot restrike

Applications

- TV-Studio lighting
- Photo studios
- Show lighting
- Theatre
- Follow spots

Directions for use

- Burning position: universal
- Only use in closed fixtures
- Can be operated on an electronic power supply or on a magnetic ballast

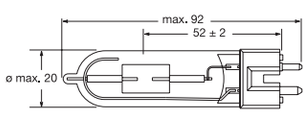


Fig. 1

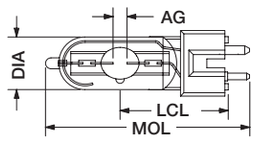


Fig. 2

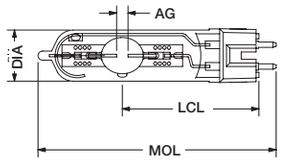


Fig. 3

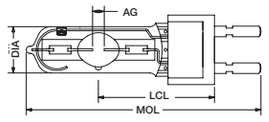


Fig. 4

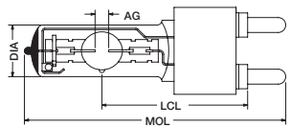


Fig. 5

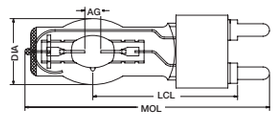


Fig. 6

Dimmensions (mm)

Code	Figure No	MOL	AG	DIA	LCL
0023940	1	92	-	20	52
0023944	1	90	5	20	52
0023941	2	80	5	20	39
0023803	2	80	5	20	39
0023883	3	110	6	23	60
0023990	3	110	6	23	60
0023932	4	145	7	30	70
0023892	4	110	4	30	60
0023992	4	145	7	31	70
0023988	4	145	7	31	70
0023933	5	200	10	40	107
0023893	5	200	10	40	107
0023894	5	17	10	40	85
0023810	5	200	10	40	107
0023934	6	240	14	60	127
0023937	6	250	20	75	142

BRITEARC Single Ended Hot Restrike (Ba Se Hr)

Code	Description	Watt (W)	Volt (V)	Cap	Colour Temp (K)	CRI	Luminous flux (lm)	Average Life (Hrs)	Packing Qty
0023940	BA 200 SE HR LCL 3200K	200	70	GZY9.5	3200	88	19,000	1000	10
0023944	BA 200 SE HR LCL 5600K	200	70	GZY9.5	5600	95	15,000	200	10
0023941	BA 200 SE HR	200	70	GZY9.5	5600	95	15,000	200	10
0023803	BA 200 SE HR FULL FROST	200	70	GZY9.5	5600	95	15,000	200	10
0023883	BA 400 SE HR	400	67	GZY9.5	6200	92	33,000	650	10
0023990	BA 400 SE HR FULL FROST	400	67	GZY9.5	6200	92	33,000	650	10
0023932	BA 575 SE HR	575	95	G22	5600	90	49,000	750	10
0023892	BA 575 SE HR DIM 3200K	575	67	GZZ9.5	3200	90	40,000	650	10
0023992	BA 800 SE HR	800	95	G22	6000	95	64,000	1000	10
0023988	BA 800 SE HR 3200	800	95	G22	3200	90	64,000	650	10
0023933	BA 1200 SE HR	1200	100	G38	6000	95	110,000	750	10
0023893	BA 1600 SE HR	1600	110	G38	5600	95	145,000	500	1
0023894	BA 1600 SE HR DAYLIGHT-G22 Special Base	1600	1000	G22	5600	95	-	500	1
0023810	BA 1800 SE HR	1800	100	G38	6000	90	170,000	750	1
0023934	BA 2500 SE HR	2500	115	G38	6000	95	240,000	500	1
0023937	BA 4000 SE HR	4000	200	G38	6300	95	380,000	500	1

Nominal values measured at rated wattage in horizontal position.

Britearc Double Ended (BA DE)



BA 1200/2 DE S Gold
BA 700/2 DE S
BA 575/2 DE



BA 2500 DE & BA 2500 DE A



BA 6000 DE

BriteArc Double Ended lamps are metal halide light sources with excellent performance, specially designed for a wide variety of audio-visual applications. The BriteArc lamps are filled with mercury and rare earth elements to obtain a high efficacy and a stable colour. They can be re-struck at any time with a voltage peak from 25 to 55 kV.

Features

- High luminous efficacy
- Low infrared & Colour stability
- Excellent lumen maintenance
- Physical ruggedness, Hot restrike

Applications

- Show lighting & Theatre
- Discotheque lighting
- Follow spots
- Effect lighting & Studio lighting
- Architectural lighting

Directions for use

- Burning position: universal for 575W, 700W and 1200W; horizontal plus or minus 30 degrees for BA 2500 DE, BA 2500 DE S; horizontal plus or minus 15 degrees for BA 2500 DE A, 4000W, 6000W and 12000W
- Only use in closed fixtures
- Can be operated on an electronic power supply or on a magnetic ballast

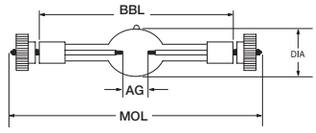


Fig. 1

Dimmensions (mm)

Code	Figure No	MOL	AG	DIA	LCL
0023921	1	136	7	21	115
0023917	1	138	7	21	115
0023994	1	136	4	18	115
0023993	1	136	4	18	115
0023992	1	220	10	28	180
0023995	1	138	7	22.5	115
0023996	1	136	7	21	115
0023811	2	220	10	28	180
0023923	2	355	20.5	32	290
0023918	2	210	20.5	32	-
0023911	2	364	25	36.5	182
0023924	2	405	32	40	340
0023925	3	-	22	52	450
0023927	3	-	32	65	470

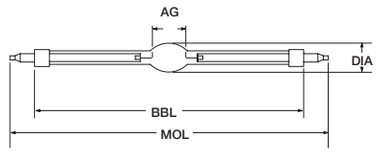


Fig. 2

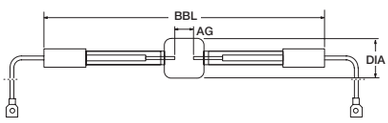


Fig. 3

Dimensions (mm)

Britearc Double Ended (BA DE)

Code	Description	Watt (W)	Volt (V)	Cap	Current (A)	Ignition Pulse (KV)	Colour Temp K)	Luminous Flux (lm)	CRI	Total UV-output (W)	Average Rated Life (Hrs)	Replacement Time (Hrs)	Packing Qty
0023921	BA 575 DE	575	95	SFc10-4	7	25.0	5600	49,000	70	70	750	1000	10
0023917	BA 575/2 DE	575	95	SFc10-4	7	25.0	8000	44,000	70	100	750	1000	10
0023994	BA 700/2 DE S 7.5	700	70	SFc10-4*	11.2	25.0	7500	56,000	70	100	1000	1250	10
0023993	BA 700/3 DE S 3200K	700	70	SFc10-4*	11.2	25.0	3200	60,000	92	100	750	1000	10
0023922	BA 1200 DE	1200	100	SFc15.5-6	13.8	45.0	5600	110,000	80	140	750	1000	10
0023995	BA 1200 DE S 6.0	1200	105	SFc10-4*	13.8	25.0	6000	110,000	90	130	750	1000	10
0023996	BA 1200/2 DE S 7.2	1200	100	SFc10-4*	13.8	25.0	7200	95,000	77	160	750	1000	10
0023811	BA 1800 DE	1800	100	SFc15.6	20	5.0	6000	170,000	>90	225	750	850	1
0023923	BA 2500 DE	2500	115	SFa21-12	26.6	45.0	5600	240,000	90	310	500	750	1
0023918	BA 2500 DE S	2500	115	SFa21-12	26.6	45.0	5600	240,000	90	310	500	750	1
0023911	BA 2500 DE A	2500	120	SFa21-12	21.7	45.0	5600	250,000	90	150	2000	2400	1
0023924	BA 4000 DE	4000	200	SFa21-12	24	65.0	6000	380,000	85	640	500	750	1
0023925	BA 6000 DE	6000	123	S25.5X60	55	50.0	6000	570,000	90	1000	350	450	1
0023927	BA 12000 DE	12000	160	S30X70	82	65.0	6000	1100,000	90	2200	500	550	1



BA 300/2 LL mini BriteFit and BA 700/2 mini BriteFit



BA 700/2 BriteFit and BA 1500 BriteFit

BriteArc "BriteFit" lamps are metal halide light sources with excellent performance, specially equipped with a bayonet system "BriteFit" , for fast and easy replacement.

Features

- Easy replacement system Sylvania BriteFit
- No outer bulb : allows reduced lamp dimensions
- High luminous efficacy
- Low infrared
- Very good colour stability and quality
- Excellent lumen maintenance
- Physical ruggedness

Applications

- Show lighting
- Theatre
- Discotheque lighting
- Effect lighting
- Studio lighting

Directions for use

- Only use in closed fixtures
- Can be operated on electronic power supply or on a magnetic ballast
- Burning position: universal

BriteArc "BriteFit"

Code	Description	Watt (W)	Volt (V)	Cap	Current (A)	Ignition Pulse (KV)	Colour Temp (K)	Luminous Flux (lm)	CRI	Total UV-output (W)	Average Rated Life (Hrs)	Replacement Time (Hrs)	Packing Qty
0023805	BA 300/2 mini BriteFit - NEW	300	95	PGJX28	3.8	1.9	8400	23,000	2A	60	750	1000	10
0023809	BA 300/2 LL mini BriteFit - NEW	300	95	PGJX28	3.8	1.9	8500	22,000	2A	60	2000	2200	10
0023812	BA 575/2 mini BriteFit - NEW	575	95	PGJX28	7	2.5	7500	38,600	2A	75	750	1000	10
0023800	BA 700/2 mini BriteFit - NEW	700	70	PGJX28	10.2	2.5	7500	50,000	2A	100	750	1000	10
0023813	Mini Britefit Daylight	1000	82	PGJX50	12.2	2.5	5600	50,000	2A	100	750	1000	10
0023808	BA 700/3 Mini Brifefit 3200	700	70	PGJX28	10.2	2.5	3200	50,000	1B	100	750	1000	10
0023806	BA 700/2 BriteFit - NEW	700	70	PGJX28	10.2	2.5	7500	50,000	2A	100	750	1000	10
0023815	BA 700 Britefit Daylight	700	70	PGJX50	10.2	2.5	5600	50000	2A	100	750	1000	10
0023807	BA 700/3 mini BriteFit - NEW	700	70	PGJX28	10.2	2.5	3200	50,000	1B	100	750	1000	10
0023817	BA 1000 Medium Britefit Daylight	1000	82	PGJX36	12.2	4	6000	85,000	85	130	750	850	10
0023818	BA 1000/3 Medium Britefit 3200K	1000	82	PGJX36	12.2	4	3200	85,000	90	130	750	850	10
0023801	BA 1500 BriteFit- NEW	1500	100	PGJX28	16	3.5	6000	135,000	1A	200	750	1000	10

Dimmensions (mm)

Code	Figure No	MOL	AG	DIA	BBL
0023805	1	122	5	23	67
0023809	1	122	5	23	67
0023812	2	112	4	23	56
0023800	2	112	4	23.2	56
0023813	2	112	5.5	23.5	56
0023808	2	125	4	23.2	65
0023806	2	125	4	23.2	65
0023815	2	125	4	23.2	65
0023807	2	112	4	23.2	56
0023817	2	112	5.5	26.5	56
0023818	2	112	5.5	26.5	56
0023801	2	128	5	27	65

Fig 1

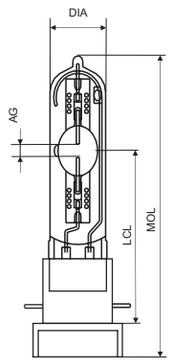
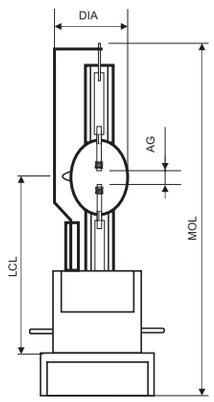


Fig 2



Dimensions (mm)

BriteArc Cross Reference

Code	Description	Philips	Osram	GE Lighting
Single Ended Non Hot Restrike				
0023987	BA 150 SE NHR	-	-	-
0023958	BA 400 SE NHR	MSR 400	HSR 400/60	-
0023960	BA 575 SE NHR	-	HSR 575/60	-
0023961	BA 700 SE NHR	MSR 700	HSR 700/60	-
0023935	BA 1200 SE NHR	MSR 1200	HSR 1200/60	-
Single Ended Non Hot Restrike - Long Life				
0023982	BA 70 SE T DAYLIGHT	CDM-T 70 4000K	HSD 70	CMH 70
0023978	BA 150 SE T DAYLIGHT	CDM-SA/T 150 4200K	HSD 150	CMH 150
0023814	BA 250 SE T DAYLIGHT	-	-	-
7220168	BA 200 SE D	MSD 200	HSD 200/60	-
7220169	BA 250 SE D	MSD 250	HSD 250/60	-
0023981	BA 575 SE D	MSD 575	HSD 575/72	-
Hot Restrike - High Colour Temperature				
0023998	BA 250/2 SE D 8500	MSD 250/2	HSD 250/80	CSD 250/2/SE
0024002	BA 575/2 SE NHR 7200	MSR 575/2	HSR 575/72	CSR 575/2/SE
0024000	BA 575/2 SE NHR 8500	-	-	-
Single Ended Hot Restrike				
0023944	BA 200 SE HR LCL 3200	-	-	-
0023940	BA 200 SE HR LCL DAYLIGHT	-	-	-
0023941	BA 200 SE HR DAYLIGHT	MSR 200 HR	HMI 200W/SE	CSR 200/SE/HR
0023803	BA 200 SE HR DAYLIGHT FULL FROSTED	-	-	-
0023883	BA 400 SE HR DAYLIGHT	MSR 400 HR	HMI 400W/SE	CSR 400/SE/HR
0023898	BA 400 SE HR 3200	-	-	-
0023990	BA 400 SE HR DAYLIGHT FULL FROSTED	-	-	-
0023932	BA 575 SE HR DAYLIGHT	MSR 575 HR	HMI 575W/SE	CSR 575/SE/HR
0023892	BA 400/575 SE HR DIM 3200K - DEDO	-	-	-
0023992	BA 800 SE HR DAYLIGHT	-	-	CSR 800/SE/HR
0023988	BA 800 SE HR 3200	-	-	-
0023933	BA 1200 SE HR DAYLIGHT	MSR 1200 HR	HMI 1200W/SE	CSR 1200/SE/HR
0023899	BA 1200 G22 DAYLIGHT DIM-DEDO	-	-	-
0023893	BA 1600 SE HR G38 DAYLIGHT	-	-	-
0023894	BA 1600 SE HR DAYLIGHT-G22 special base	-	-	-
0023810	BA 1800 SE HR DAYLIGHT	-	HMI 1800W/SE	-
0023934	BA 2500 SE HR DAYLIGHT	MSR 2500 HR	HMI 2500W/SE	CSR 2500/SE/HR
0023937	BA 4000 SE HR DAYLIGHT	MSR 4000 HR	HMI 4000W/SE	CSR 4000/SE/HR
Double Ended				
0023921	BA 575 DE DAYLIGHT	MSI 575W	HMI 575W/GS	CSR 575/DE
0023917	BA 575/2 DE 8000	MSI 575/2 DE	HTI 575/DE	CSR 575/2/DE
0023994	BA 700/2 DE S 7500	MSR Gold 700SA/2 DE	HTI 700W/D4/75	-
0023993	BA 700/3 DE S 3200	-	-	-
0023922	BA 1200 DE DAYLIGHT	MSI 1200W	HMI 1200W GS	CSR 1200/DE
0023995	BA 1200 DE S 6000 GOLD	MSR Gold1200SA/DE	HTI 1200W/D7/60	CSR 1200/S/DE
0023996	BA 1200/2 DE S 7200 GOLD	MSR Gold1200SA/2 DE	HTI 1200W/D7/75	-
0023811	BA 1800 DE DAYLIGHT	MSR 1800W DE	-	-
0023923	BA 2500 DE DAYLIGHT	MSI 2500W	HMI 2500W GS	CSR 2500/DE
0023918	BA 2500 DE S	-	HMI 2500W/S	-
0023911	BA 2500 DE A	MSA 2500 DE	HMI 2500W SFa21	-
0023924	BA 4000 DE	MSI 4000W	HMI 4000W	CSR 4000/DE
0023925	BA 6000 DE	MSI 6000W	HMI 6000W	CSR 6000/DE
0023927	BA 12000 DE	MSI 12000W	HMI 12000W/GS	CSR 12000/DE
Single Ended Britefit				
0023805	BA 300/2 MINI BRITEFIT 8500	MSR 300/2 MiniFastFit	-	CSR300/2/TAL
0023809	BA 300/2 LL MINI BRITEFIT 8500	MSD 300/2 MiniFastFit	HSD 300 W/80/P28 Lok-it	CSD300/2/TAL
0023812	BA 575/2 MINI BRITEFIT 7500	MSR 575/2 MiniFastFit	-	-
0023800	BA 700/2 MINI BRITEFIT 7500	MSR 700/2 MiniFastFit	HTI 700W/75/P28 Lok-it	CSR700/TAL -28
0023813	BA 700 MINI BRITEFIT DAYLIGHT	-	HTI 700/60/P28 Lok-it	-
0023808	BA 700/3 MINI BRITEFIT 3200	-	-	-
0023806	BA 700/2 BRITEFIT 7500	MSR 700/2 FastFit	HTi 700W/75/P50 Lok-it	CSR700/TAL - 50
0023815	BA 700 BRITEFIT DAYLIGHT	-	-	-
0023808	BA 700/3 BRITEFIT 3200	-	-	-
0023817	BA 1000 MEDIUM BRITEFIT DAYLIGHT	-	HTI 1000/PS Lok-it	-
0023818	BA 1000/3 MEDIUM BRITEFIT 3200K	-	-	-
0023801	BA 1500 BRITEFIT DAYLIGHT	MSR 1500 FastFit	HTI 1500 W/60/P50 Lok-it	CSR1500/TAL - 50



Features

- Near continuous spectrum ranging from 200-1000nm
- Colour temperature: 5400K.
- Xenon spectrum, similar to daylight
- Instant ignition, no warming up time
- Can be dimmed

Applications

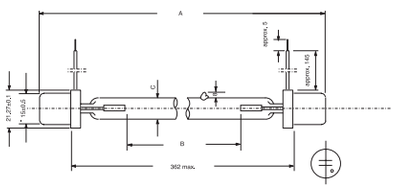
- Strobe lights in discos

Directions for use

- Operate on a semi resonant ballast
- Ignitor providing a starting pulse of 10kV required
- Forced –air cooling needed
- Due to the high starting voltage, use only insulated lampholders
- The UV radiation must be cut out with a filter glass

Pulsed Xenon

Code	Description	Watt (W)	Current (A)	Cap	Max. Pinch Temp. (C°)	Max. Bulb Temp. (C°)	Dimensions A (mm)	Dimensions B (mm)	Dimensions C (mm)	Average Rated Life (Hrs)	Packing Qty
0060900	XP 750W	750	12.3	Cable 15.8/14.7	350	650	244	158	12	500	10
9023475	XP 1500W	1500	10.7	Cable 15.8/14.7	350	650	398	312	12	500	10
9023401	XP 2500W	2500	16	Cable 15.8/14.7	350	650	543	457	12	500	10



Dimensions (mm)





HSW 125W



HSW 400W

Features

- Outer bulb in Wood's Glass
- Powerful, compact source of UV-A
- 15% UV depreciation per thousand hours
- Operates on conventional mercury ballast
- 160W version requires no ballast

Applications

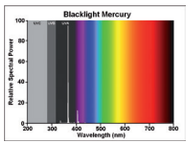
- Effect lighting
- Theatrical and stage lighting
- Leak and crack detection
- Advertisements and sign boards
- Geological investigation of stones and rocks
- Textile and Food Industries

Directions for use

- Burning position for 125, 250 and 400W: universal
- Burning position for 160W:
- Vertical ± 30°
- 160W is a self ballasted lamp

Blacklight Mercury Lamps

Code	Description	Watt (W)	Volt (V)	Cap	UV-A@1m mW/m2	Circuit	Bulb	Average Life (Hrs)	Packing Qty
0023970	HSW 125	125	125	E27	400	External Ballast	ED75	4000	10
0023971	HSW250	250	130	E40	700	External ballast	BT90	4000	10
0023972	HSW400	400	135	E40	1200	External ballast	BT120	4000	10
0023973	HSW160	160	230/240	E27	150	Self-ballasted	ED75	2000	10



Dimmensions (mm)

Code	Figure No	MOL	LCL	Max Dia
0023970	1	178	115	76
0023971	2	228	145	91
0023972	2	292	178	122
0023973	1	178	105	76

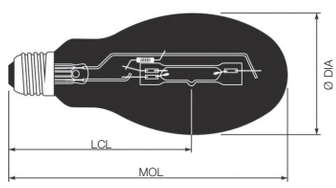


Fig. 1

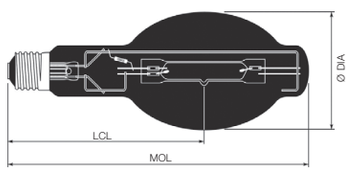


Fig. 2

Dimensions (mm)

Dichroic Reflector 50 mm (MR 16) GZ6.35



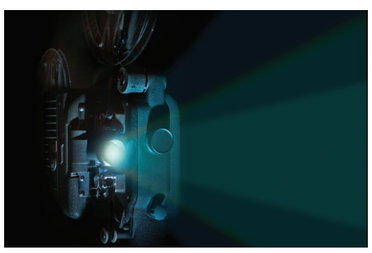
Features
- Compact filament
- Highly efficient reflector/lamp combination
- Dichroic reflector, which radiates 75%
- of heat rearwards

Applications
- Film projectors
- Fiber optics
- Enlargers
- Overhead projectors
- Slide projectors

Directions for use
- No dimming lower

Dichroic Reflector 50mm (MR 16) GZ6.35

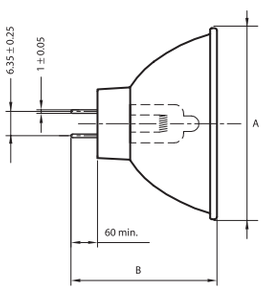
Code	Description	Watt (W)	Volt (V)	Cap	Reflector Surface	Burning Position	Rated Temp. (K)	Light Output (lm)	Average Rated Life (Hrs)	Packing Qty
0061341	EFM 8V 50W	50	8	GZ6.35	Smooth	S105	3400	380	50	50
0061342	EFN 12V 75W	75	12	GZ6.35	Smooth	S105	3400	550	50	50
0061344	EFP 12V 100W	100	12	GZ6.35	Smooth	S105	3400	650	50	50
0061350	EFR 15V 150W	150	15	GZ6.35	Smooth	S105	3400	800	50	50





Dimmensions (mm)

Code	A	B
0061341	50	42
0061342	50	42
0061344	50	42
0061350	50	42



Dimensions (mm)

Dichroic Reflector 42/50 mm (MR 13/MR 16) GX5.3



EKE 21V 150W



ELC 24V 250W



EXR 82V 300W

Features

- Compact filament
- Perfect alignment of the burner
- Highly efficient reflector/lamp combination
- Dichroic reflector, which radiates 75% of the heat backwards
- Long life versions for disco lighting
- Excellent lumen maintenance over life

Applications

- Discos and clubs – long life types
- Medical equipment
- Microfilm readers
- Fibre optic applications
- Enlargers
- Overhead projectors
- Slide projectors

Directions for use

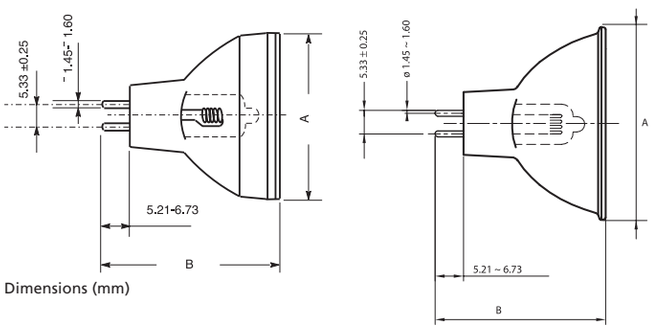
- No dimming by more than 10% of their rated voltage. This will reduce life considerably
- Forced cooling necessary

Dichroic Reflector 42/50 mm (MR 13/MR 16) GX5.3

Code	Description	Watt (W)	Volt (V)	Cap	Working Type	Colour Distance (mm)	Reflector Surface	Burning Position	Rated Temp. (K)	Average Rated Life (Hrs)	Packing Qty
0061738	ENL 12V 50W	50	12	GX5.3	C-8	40	Faceted	ANY	3000	4000	10
9060967	DED 13.8V 85W	85	13.8	GX5.3	C-8	165	Faceted	S105	3150	1000	10
9060954	DDM 19V 80W	80	19	GX5.3	CC-6	152.4	Faceted	S90	3350	50	10
9061016	EPV 14,5V 90W	90	14.5	GX5.3	CC-6	155	Smooth	S105	3150	500	10
9060953	EPX 14,5V 90W	90	14.5	GX5.3	CC-6	165	Faceted	S105	3150	500	10
9060984	DDL 20V 150W	150	20	GX5.3	CC-6	194.5	Faceted	S105	3150	500	10
9061181	EJM 21V 150W	150	21	GX5.3	CC-6	38.1	Smooth	S90	3400	40	10
9060833	EJV 21V 150W	150	21	GX5.3	CC-6	44.5	Smooth	S90	3400	40	10
9060957	ELD 21V 150W	150	21	GX5.3	CC-6	165	Stippled	S90	3400	40	10
9060943	EKE 21V 150W	150	21	GX5.3	CC-6	44.5	Smooth	S90	3250	200	10
9060921	EJA 21V 150W	150	21	GX5.3	CC-6	28	Smooth	S90	3400	40	10
9060890	EWF 24V 200W	200	24	GX5.3	CC-8	298.5	Faceted	S90	3350	50	10
0061740	ELC 24V 250W 50H	250	24	GX5.3	CC-6	31.7	Faceted	S90	3400	50	10
0061741	ELC 24V 250W 500H	250	24	GX5.3	CC-6	31.7	Smooth	S90	3300	500	10
0061743	ELC 24V 250W 1000H	250	24	GX5.3	CC-6	31.7	Smooth	S90	3300	1000	10
9060812	ERV 36V 340W	340	36	GX5.3	CC-8	300	Faceted	S90	3300	75	10
9061039	EXR 82V 300W	300	82	GX5.3	CC-8	152.4	Faceted	S90	3350	35	10
9060850	FHS 82V 300W	300	82	GX5.3	CC-8	152.4	Faceted	S90	3300	70	10

Dimmensions (mm)

Code	Figure No	A	B
0061738	1	50.7	45
9060967	1	50.7	45
9060954	1	50.7	45
9061016	1	50.7	45
9060953	1	50.7	44.5
9060984	1	50.7	44.5
9061181	1	50.7	44.5
9060833	1	50.7	44.5
9060957	1	50.7	44.5
9060943	1	50.7	44.5
9060921	1	50.7	44.5
9060890	1	50.7	44.5
0061740	1	50.7	44.5
0061741	1	50.7	44.5
0061743	1	50.7	44.5
9060812	1	50.7	44.5
9061039	2	42	44.5
9060850	2	42	44.5



Dimensions (mm)

Dichroic Reflector 50mm (MR 16) GY5.3



Features

- Compact filament
- Perfect alignment of the burner
- Highly efficient reflector/lamp combination
- Dichroic reflector, which radiates 75% of the heat backwards

Applications

- Microfilm readers
- Medical equipment
- Fiber optic applications
- Enlargers
- Overhead projectors
- Slide projectors

Directions for use

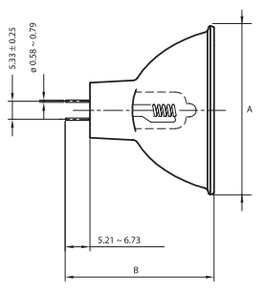
- No dimming by more than 10% of their rated voltage. This will reduce life considerably
- Forced cooling necessary

Dichroic Reflector 50 mm (MR 16) GY5.3

Code	Description	Watt (W)	Volt (V)	Cap	Working Type	Colour Distance (mm)	Reflector Surface	Burning Position	Rated Temp. (K)	Min. Centre Intensity Lux	Average Rated Life (Hrs)	Packing Qty
9061358	ESD 120V 150W	150	120	GY5.3	CC-8	44.5	Stippled	S90	3350	350	12	10
9000017	EVW 82V 250W	250	82	GY5.3	CC-8	298.5	Faceted	S90	3300	1250	50	10
9060940	ENH 120V 250W	250	120	GY5.3	CC-8	152.4	Faceted	S90	3250	800	175	10
9060813	ELH 120V 300W	300	120	GY5.3	CC-8	152.4	Faceted	S90	3350	850	35	10
9061063	JCR 100V 300W	300	100	GY5.3	CC-8	298.5	Faceted	S90	3200	5000	50	10
9060846	ENX 82V 360W	360	82	GY5.3	CC-8	298.5	Faceted	S90	3300	4300	75	10
9061768	FXL 82V 410W	410	82	GY5.3	CC-8	298.5	Faceted	S90	3300	4700	50	10

Dimmensions (mm)

Code	A	B
9061358	50.7	44.5
9000017	50.7	44.5
9060940	50.7	44.5
9060813	50.7	44.5
9061063	50.7	44.5
9060846	50.7	44.5
9061768	50.7	44.5



Dimensions (mm)

Dichroic Reflector 35/44/57mm (MR 11/MR 14/MR 18)



DNF 21V 150W



FLT 13.8V 25W



EMM 24V 250W

Features

- Compact filament
- Perfect alignment of the burner
- Highly efficient reflector/lamp combination
- Dichroic reflector, which radiates 75% of the heat backwards

Applications

- Film projectors
- Microfilm readers
- Medical equipment
- Enlargers
- Overhead projectors
- Slide projectors

Directions for use

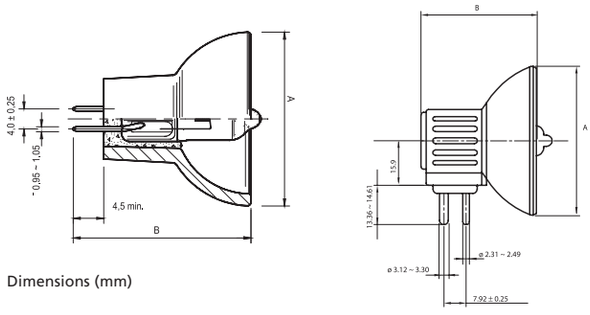
- No dimming by more than 10% of their rated voltage. This will reduce life considerably
- Forced cooling necessary Item

Dichroic Reflector 35/44/57 mm (MR 11/MR 14/MR 18)

Code	Description	Watt (W)	Volt (V)	Cap	Colour Type	Rated Distance (mm)	Colour Temp (K)	Reflector Surface	Burning Position	Average Rated Life (Hrs)	Packing Qty
9060743	DNF 21V 150W	150	21	GX7.9	CC-6	69.1	3400	Smooth	p4	25	10
9060918	EMM/EKS 24V 250W	250	24	GX7.9	CC-6	69.1	3400	Smooth	p4	50	10

Dimmensions (mm)

Code	A	B	C
9060743	57.2	45.1	15.9
9060918	44.5	47.5	15.9



Dimensions (mm)





FCS 24V 150W G6.35



FCR 12V 100W



FDS 24V 150W

Features

- Low voltage, quartz halogen lamp
- Flat filament
- Constant high light output
- Pre-focused based lamps have a better defined filament position

Applications

- Studio lighting
- Film lighting
- Theatre lighting
- Microfilm readers
- Film projectors
- Overhead projectors
- Slide projectors

Directions for use

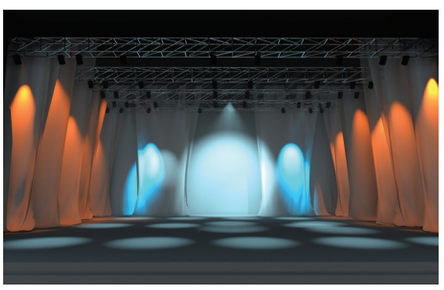
- No dimming by more than 10% of their rated voltage. This will reduce life considerably

Capsule Lamps Low Voltage

Code	Description	Watt (W)	Volt (V)	Cap	Type	Burning Position	Average Rated Life (Hrs)	Packing Qty
0061300	BRL 12V 50W	50	12	G6.35	CF-6	S90	50	50
0061303	EVB/BRJ 15V 150W	150	15	G6.35	CF-6	S90	50	10
0061374	FCS 24V 150W	150	24	G6.35	CF-6	S90	50	50
0061367	EHJ 24V 250W	250	24	G6.35	CF-6	S90	50	50
0061465	FGX 24V 250W	250	24	G6.35	CF-6	S90	300	10
0061494	EWX 24V 250W	250	24	G6.35	CC-6	S90	50	10
9061150	EVD 36V 400W	275	24	G6.35	CF-6	S90	75	50
9060826	EVD 36V 400W	400	36	G6.35	CF-6	S90	50	50
0061373	FCR 12V 100W	100	12	GY6.35	CF-6	S90	50	50
9061142	FLW 24V 300W	300	24	GY6.35	CF-6	S90	50	10
9061010	JC 24V 300W	300	24	GY6.35	CF-6	S90	50	10
9060924	FDS/FDT 24V 150W	150	24	GZ9.5	CF-6	S90	50	10
0061495	EYB 82V 360W	360	82	G5.3	CC-8	S90	75	50







Dimmensions (mm)

Code	Figure No	A	B	C
0061300	1	92	-	20
0061303	1	90	5	20
0061374	1	80	5	20
0061367	1	80	5	20
0061465	1	110	6	23
0061494	1	110	6	23
9061150	1	145	7	30
9060826	1	110	4	30
0061373	2	145	7	31
9061142	3	200	10	40
9061010	4	200	10	40
9060924	5	200	10	40
0061495	5	240	14	60

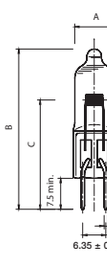


Fig. 1

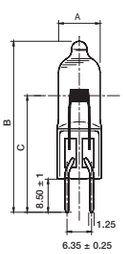


Fig. 2

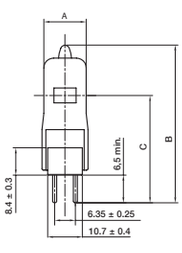


Fig. 3

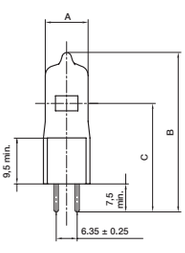


Fig. 4

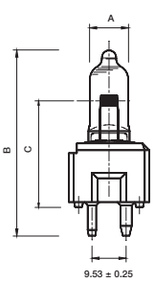
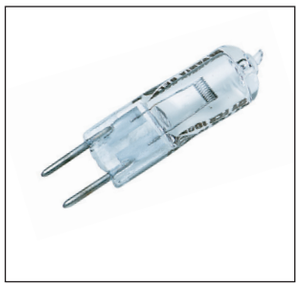


Fig. 5

Dimensions (mm)



JCD 100V 650W



JCP 100V 650W



EPS 240V 500W

Features

- Compact quartz halogen lamp
- Maximum light output, but relatively low life
- Pre-focused based lamps have a better defined filament position

Applications

- Overhead projectors
- Slide projectors
- Photo printers

Capsule Lamps Mains Voltage

Code	Description	Watt (W)	Volt (V)	Type	Colour Temp (K)	Luminous Flux (lm)	Average Rated Life (Hrs)	Packing Qty
9061060	JCD 100V 650W	650	100	CC-6	3200	17,500	150	10
0061734	GKV 240V 600W	600	240	C-13D	3200	14,000	250	25
9060779	DYS/DYV 120V 600W	600	120	CC-6	3200	17,000	75	50
9060716	DYR 240V 650W	650	240	2 CC-8	3200	16,500	50	50
9061018	JCP 100V 650W	650	100	C-13D	3300	18,750	75	10
9060927	EPS 240V 500W	500	240	C-13D	3250	-1	50	10
9061168	A1/244 240V 500W	500	240	C-13	3200	13,000	75	50
9060572	BRN 120V 1200W (1)	1200	120	C-13D	3350	-	20	10
9060934	BTG 120V 1200W	1200	120	C-13D	3350	38,200	20	10

Dimmensions (mm)

Code	Figure No	A max	B	C
9061060	2	92	-	20
0061734	3	90	5	20
9060779	4	80	5	20
9060716	4	80	5	20
9061018	6	110	6	23
9060927	7	110	6	23
9061168	6	145	7	30
9060572	7	110	4	30
9060934	7	145	7	31

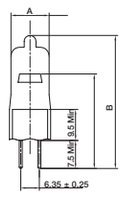


Fig. 1

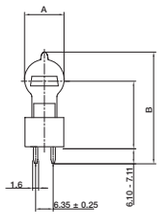


Fig. 2

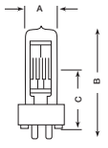


Fig. 3

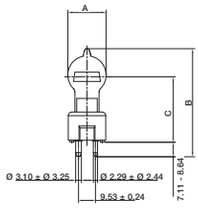


Fig. 4

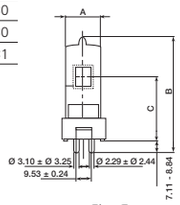


Fig. 5

Dimensions (mm)

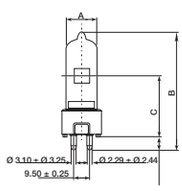


Fig. 6

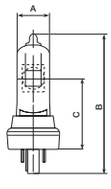


Fig. 7



DXX 240V 800W



FEX 240V 2000W

Features

- High constant light output
- High colour temperature

Applications

- Electronic News Gathering (ENG)
- Studio lighting
- Film lighting
- Overhead projectors (FAD type)

Studio/Film Double Ended

Code	Description	Watt (W)	Volt (V)	Base	Colour Temp (K)	Lumen Output (lm)	Average Rated Life (Hrs)	Packing Qty
0061371	FAD 118V 650W	650	118	R7s	3200	16,500	100	50
0061321	DXX 240V 800W	800	240	R7s	3200	20,000	75	50
0061379	FDG 230V 1000W	1000	230	R7s	3400	31,000	15	10
9060822	EME 240V 800W	800	230	R7s	3200	20,000	150	10
0060884	FEX 240V 2000W	2000	240	RX7s	3200	50,000	300	10

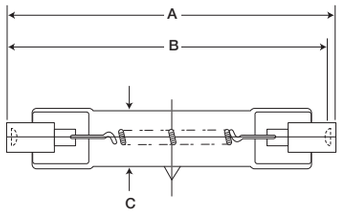


Fig. 1

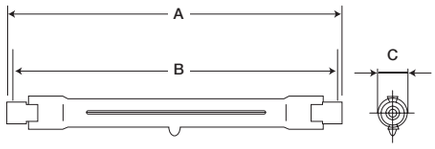


Fig. 2

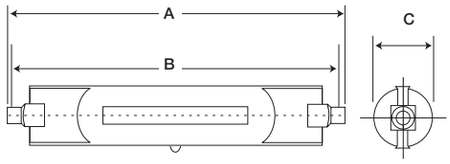


Fig. 3

Dimensions (mm)

Dimmensions (mm)

Code	Figure No	A max	B	C
0061371	1	80.3	74.9	14
0061321	1	80.3	74.9	14
0061379	2	127.1	121.7	12
9060822	2	119.6	114.2	12
0060884	3	141.5	138.1	27



CP40-FKJ 240V 1000W



CP70-FVB 240V 1000W



CP82-FRJ 240V 500W

Features

- High light output from a compact filament source
- Compact square filament design
- Colour temperature: 3200K

Applications

- Studio lighting
- Disco lighting
- Film lighting

Studio/Film Single Ended

Code	Description	Watt (W)	Volt (V)	Base	Colour Temp (K)	Lumen Output (lm)	Average Rated Life (Hrs)	Packing Qty
9061116	CP/71 FKJ 240V 1000W	1000	240	G22	3200	26,000	200	20
9061118	CP/73 FKP 240V 2000W	2000	240	G38	3200	52,000	400	1
9061119	CP/72 FTL 240V 2000W	2000	240	GY16	3200	52,000	400	20
9061121	CP/72 FTL 240V 2000W	1000	240	GX9.5	3200	26,000	200	20
9061385	CP/77 FEP 240V 1000W	1000	240	G9.5	3200	26,000	250	10
9061122	CP/81 FSK 240V 300W	300	240	GY9.5	3200	7050	150	10
9061124	CP/82 FRJ 240V 500W	500	240	GY9.5	3200	13,500	150	10
9061126	CP/89 FRM 240V 650W	650	240	GY9.5	3200	16,250	150	25

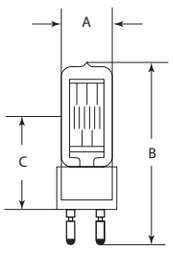


Fig. 1

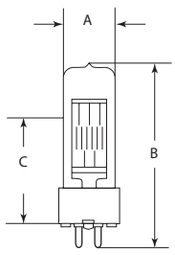


Fig. 2

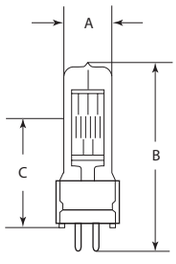


Fig. 3

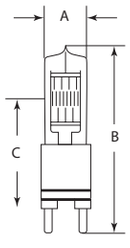


Fig. 4

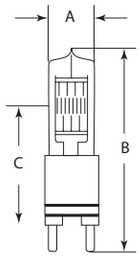


Fig. 5

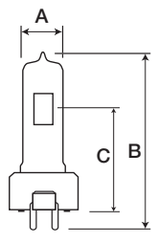


Fig. 6

Dimmensions (mm)

Code	Figure No	Diameter A	MOL B	LCL C
9061116	1	35	140	63.5
9061118	1	35	210	127.0
9061119	2	35	145	70.0
9061121	2	26	110	55.0
9061385	3	20	101	60.5
9061122	3	18	90	46.3
9061124	4	18	90	46.3
9061126	4	23	90	46.3

Dimensions (mm)



GCJ 240V 500W



FWR 240V 1000W



FWT 240V 1200W

Features

- Compact filament configuration resulting in more light emitted from the focal point
- Longer life than studio and film lamps

Applications

- Stage and theatre
- Effect lighting

Stage/Theatre Single Ended

Code	Description	Watt (W)	Volt (V)	Base	Lumen Output (lm)	Average Rated Life (Hrs)	Packing Qty
9061542	T/25 GCJ 240V 500W	500	240	GY9.5	11,000	300	25
0061736	T/27 GCK 230V 650W	650	230	GY9.5	14,500	400	25
9061545	T/27 GCK 230V 650W	650	240	GY9.5	14,500	400	25
9061548	T/19 FWR 240V 1000W	1000	240	GY9.5	20,500	750	20
9061551	T/19 FWR 240V 1000W	1200	240	GY9.5	28,600	400	20
0061733	M/40 240V 500W	500	230	GY9.5	8500	2000	50

Dimmensions (mm)

Code	Figure No	A max	B	C
9061542	1	23	90	46.5
0061736	1	26	90	46.5
9061545	1	23	90	46.5
9061548	2	26	110	55
9061551	2	27	125	67
0061733	1	23	90	46.5

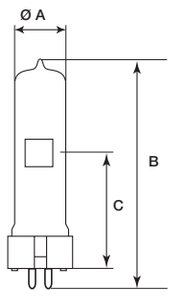


Fig. 2

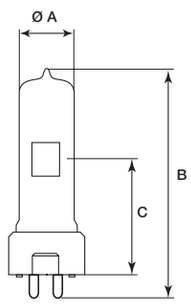


Fig. 1

Dimensions (mm)

PAR 38 Coloured



240V 80W Green



240V 80W Yellow



240V 80W Blue



240V 80W Red

Features

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

universal UV STOP

Applications

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

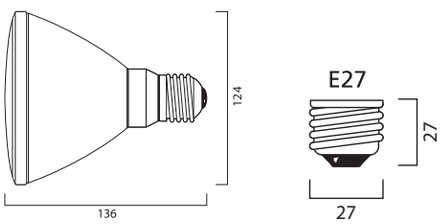
Directions for use

- For use in mains voltage fixtures with E27 base
- Universal burning
- E27 cap
- Can be dimmed using standard dimming switch

PAR 38 Coloured

Code	Description	Watt (W)	Volt (V)	Cap	Packing Qty
0019650	80W/FL30° PAR38 blue	80	240	E27	10
0019651	80W/FL30° PAR38 green	80	240	E27	10
0019652	80W/FL30° PAR38 red	80	240	E27	10
0019653	80W/FL30° PAR38 yellow	80	240	E27	10





Dimensions (mm)



PAR 36

Features

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

Applications

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

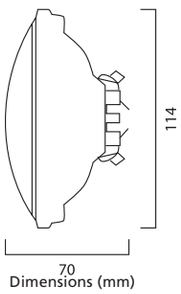
Directions for use

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

PAR 36

Code	Description	ANSI	Watt (W)	Volt (V)	Beam	Approx Beam Spread 10% Peak CD (°)	Base	Peak Intensity (cd)	Colour Temp (K)	Average Rated Life (Hrs)	Burning Position	Packing Qty
0060500	PAR 36 6.4V 30W Disco	H4515	30	6.4	Very Narrow Spot	5x5	Screw Terminal	55000	3200	200	Any	12
9020167	PAR 36 12.8V 30W	H4405	30	12.8	Very Narrow Spot	6x5	Screw Terminal	50000	3200	100	Any	12
0060508	PAR 36 12V 50W VNSP	-	50	12	Very Narrow Spot	6x6	Screw Terminal	19000	3000	2000	Any	12
0060503	PAR 36 120V 650W	DWE	650	120	Medium Flood	40x30	Screw Terminal	24000	3200	100	H15	12





Dimensions (mm)

PAR 56 Low Voltage



PAR 36 12V 100W

Features

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

universal

Applications

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

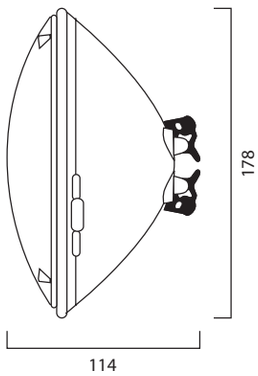
Directions for use

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

PAR 56 Low Voltage

Code	Description	ANSI	Watt (W)	Volt (V)	Beam	Approx Beam Spread 10% Peak CD (°)	Base	Peak Intensity (cd)	Colour Temp (K)	Average Rated Life (Hrs)	Burning Position	Packing Qty
0060509	PAR 56 12V 100W	H4545	100	12	Spot	9x5	Screw Terminal	225000	3200	100	Any	12





Dimensions (mm)



PAR56 300W NSP



PAR56 300W MFL



PAR56 300W WFL

Features

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

universal

Applications

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

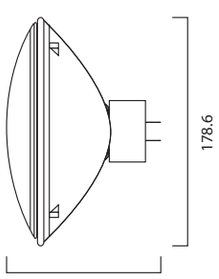
Directions for use

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

PAR 56 Mains Voltage

Code	Description	Watt (W)	Volt (V)	Beam Type	Approx Beam Spread10% Peak CD (°)	Approx Beam Spread 50% Peak CD (°)	Base	Peak Intensity (cd)	Colour Temp (K)	Average Rated Life (Hrs)	Burning Position	Packing Qty
0060513	PAR 56 300W NSP 240V	300	240	Narrow Spot	20x14	10x8	GX16d	70000	2750	2000	Any	12
0060514	PAR 56 300W MFL 240V	300	240	Medium Flood	34x19	23x11	GX16d	30000	2750	2000	Any	12
0060515	PAR 56 300W WFL 240V	300	240	Wide Flood	57x27	37x18	GX16d	10000	2750	2000	Any	12





Dimensions (mm)

PAR 56 12V Swimming Pool



PAR56 12V 300 Swimming Pool

Features

universal

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

Applications

- Swimming Pools
- Fountains

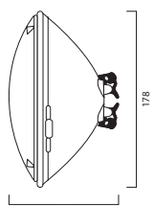
Directions for use

- High running current (25A)

PAR 56 12V Swimming Pool

Code	Description	Watt (W)	Volt (V)	Approx Beam Spread Hor. x Vert Degrees (°)	Base	Peak Intensity (cd)	Colour Temp (K)	Average Rated Life (Hrs)	Burning Position	Packing Qty
9061532	PAR 56 12V 300W Swimming Pool	300	12	50 x 25	Screw	12000	2850	100	S45	12





Dimensions (mm)



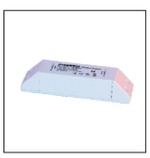








Remote Control



Receiver

Features

universal

- Choice between RGB or fixed white version
- High power LED retrofit for incandescent PAR lamps
- Produces full spectrum of rich colours or white (multi colours)
- Sylvania patent pending colour control technology
- Simple on/off switching sets colour changing or fixed mode (can be achieved by using a standard switch)
- Optional Sylvania remote control and receiver available
- Identical shape to incandescent PAR56 = easy retrofit
- Unique sealing method guarantees IP68 water-tightness
- Die cast aluminium housing cools LEDs for high output
- Chlorine-resistant materials permits use in swimming pools
- Long lamp lifetime > 25.000 hours
- Low heat generation

Applications

- All retrofit PAR56 underwater
- Swimming Pools
- Fountains

Directions for use

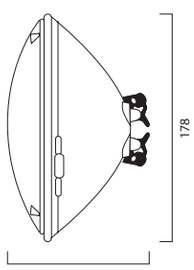
- Only for use with magnetic (no electronic) transformer
- For adequate cooling, lamp must be operated under water

PAR 56 12V LED Swimming Pool

Code	Description	Watt (W)	Volt (V)	Current (A)	Peak Intensity (Hz)	Base	Average Rated Life (Hrs)	Packing Qty
0060527	PAR56 LED LAMP RGB + Multicolour (18 LED)	25	12	-	-	Screw lugs	25000	-
0060528	PAR56 LED LAMP White (12 LED)	20	12	-	-	Screw lugs	25000	-
0060523	PAR 56 LED Receiver	max. 250	100/ 250	max. 1A	50/60	Screw Terminals	-	6
0060522	PAR 56 LED Remote Control	-	12V Battery	-	-	-	-	6

The Sylvania PAR56 LED represents a top class professional development for underwater illumination of swimming pools, fountains etc. By combining high power LEDs of red, green and blue or fixed white colour, together with an internal microprocessor, it is capable of generating the full spectrum of colours. The lamp can be operated in a mode of continuous colour changing, or fixed at any desired colour by briefly switching off and back on again. This is facilitated by the optional Sylvania remote control and receiver.





Dimensions (mm)

PAR 64 Mains Voltage



PAR64 CP601000W NSP



PAR64 CP61 1000W SP



PAR64 CP62 1000W MFL

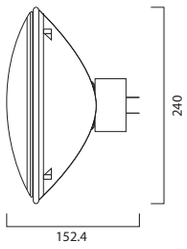
Features

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

universal

Applications

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



Dimensions (mm)



PAR 64 Mains Voltage

Code	Description	ANSI	LIF	Watt (W)	Volt (V)	Beam Type	Approx Beam Spread 10% Peak CD	Approx Beam Spread 50% Peak CD	Base	Peak Intensity (cd)	Colour Temp (K)	Average Rated Life (Hrs)	Burning Position	Packing Qty
9061146	PAR 64 CP86 240V 500W VNSP	-	CP86	500	240	Very Narrow Spot	16x13	10x7	Gx16d	240000	3200	300	Any	6
9061147	PAR 64 CP87 240V 500W NSP	-	CP87	500	240	Narrow Spot	19x16	11x9	Gx16d	140000	3200	300	Any	6
9061148	PAR 64 CP88 240V 500W MFL	-	CP88	500	240	Medium Flood	32x19	21x10	Gx16d	65000	3200	300	Any	6
9061109	PAR 64 CP60 240V 1000W NSP	EXC	CP60	1000	240	Narrow Spot	20x17	12x6	Gx16d	400000	3200	300	Any	6
9061127	PAR 64 CP61 240V 1000W SP	EXD	CP61	1000	240	Spot	23x20	14x7	Gx16d	275000	3200	300	Any	6
9061128	PAR 64 CP62 240V 1000W MFL	EXE	CP62	1000	240	Medium Flood	39x24	28x12	Gx16d	130000	3200	300	Any	6
9061129	PAR 64 CP95 240V 1000W XWFL	EXG	CP95	1000	240	Extra Wide Flood	125x95	70x70	Gx16d	15000	3200	300	Any	6









Features

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

universal UV STOP

Applications

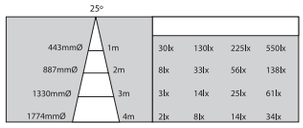
- To bring a touch of colour in a wide range of applications
- Architectural features
- Discos and clubs
- Decorative lighting

Directions for use

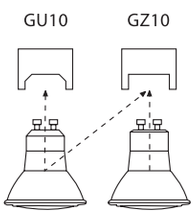
- For use in mains voltage fixtures with GU10 base
- Universal burning
- Suitable for exterior use in conjunction with waterproof fixtures
- Can be dimmed using standard dimming switches

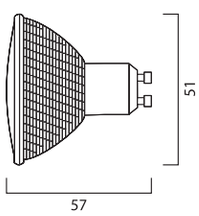
Hi-Spot ES50 GU10 Coloured

Code	Description	Watt (W)	Volt (V)	Beam Angle (°)	Luminous Intensity (cd)	Colour	Cap	Average Rated Life (Hrs)	Packing Qty
0021270	Hi-Spot ES50 50W Blue 240V	50	240	25	30	Blue	GU10	2500	10
0021271	Hi-Spot ES50 50W Green 240V	50	240	25	130	Green	GU10	2500	10
0021272	Hi-Spot ES50 50W Red 240V	50	240	25	225	Red	GU10	2500	10
0021273	Hi-Spot ES50 50W Yellow 240V	50	240	25	550	Yellow	GU10	2500	10









Dimensions (mm)

Par 38 CFL Coloured - Energy Saving









Features

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

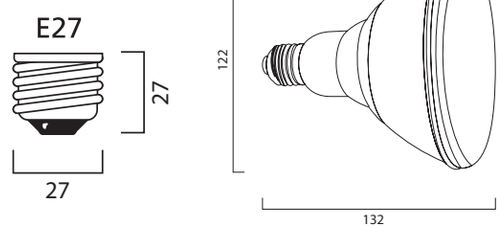
universal

Applications

- Mainly used in commercial accent lighting
- To create special effects in bars, clubs and discos and waterproof gardenspot

Par 38 CFL Coloured - Energy Saving

Code	Description	Watt (W)	Colour	Cap	Average Rated Life (Hrs)	Packing D ø mm	Ordering Quantity
0060535	MINI-LYNX PAR38 Reflector 23W Red	23	Red	E27	10,000	124	10
0060536	MINI-LYNX PAR38 Reflector 23W Green	23	Green	E27	10,000	124	10
0060537	MINI-LYNX PAR38 Reflector 23W Yellow	23	Yellow	E27	10,000	124	10
0060538	MINI-LYNX PAR38 Reflector 23W Blue	23	Blue	E27	10,000	124	10



Dimensions (mm)



F8 T5 BLB 8W & F18 T8 BLB 18W



F20 T12 BLB 20W & LYNX S 11W BLB

Features

- The lamps efficiently emit near ultraviolet radiation at 315nm-400nm with strong photochemical and fluorescent effects
- The special deep blue filter glass absorbs visible rays and transmits near (UV-A) ultraviolet rays only
- Shape, electrical characteristics and lighting circuits similar to general fluorescent lamps

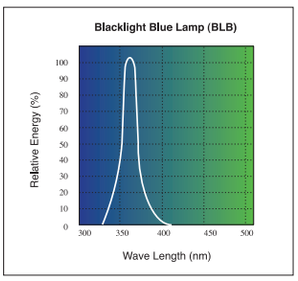
universal

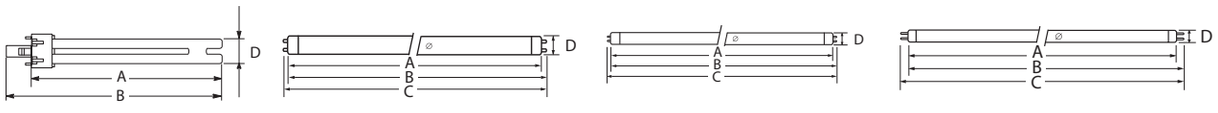
Applications

- Special effects
- Counterfeit detection in philately, bank notes, papers, etc.
- Leak and crack detection
- Excitation of fluorescent paints in dark rooms
- Revealing fluorescence of drawings on textiles
- Geological investigation of stones and rocks

Blacklight Blue Lamps

Code	Description	Watt (W)	Volts (V)	Current (A)	Spectral Peak nm	Cap	UV-A Irradiance at 1 meter µW/ cm2	Average Rated Life (Hrs)	Packing Qty
0000008	F4 T5 BLB	4	29	0.170	365	G5	≥ 4.5	5000	50
0000018	F6 T5 BLB	6	42	0.160	365	G5	≥ 7	5000	50
0000024	F8 T5 BLB	8	56	0.145	365	G5	≥ 10	5000	50
0000077	F15 T8 BLB	15	55	0.310	365	G13	≥ 22.5	7000	100
0000698	F18 T8 BLB	18	57	0.370	365	G13	≥ 34.5	7000	100
0000158	F30 T8 BLB	30	96	0.365	365	G13	≥ 36.5	8000	25
0000699	F36 T8 BLB	36	103	0.430	365	G13	≥ 39	8000	25
9000358	F20 T12 BLB	20	57	0.370	350	G13	≥ 15.5	7000	25
9000186	F40 T12 BLB	40	103	0.420	350	G13	≥ 17.5	8000	25
0025043	LYNX-S 9W BLB	9	60	0.170	365	G23	≥ 8.5	8000	200
0025042	LYNX-S 11W BLB	11	90	0.155	365	G23	≥ 17.5	8000	200





Dimensions (mm)



F18 Red 18W



F18 Yellow 18W



F18 Green 18W



F18 Blue 18W



F18 Pink 18W

G13	18W	36W	58W
L	590	1200	1500
D	26	26	26

Features

- High quality fluorescent tubes
- Long life
- Available in five colours: Blue, Green, Red, Pink and Yellow

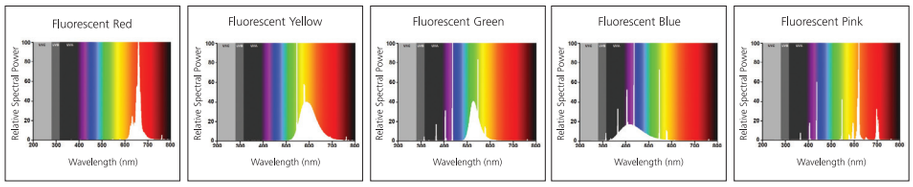
universal

Applications

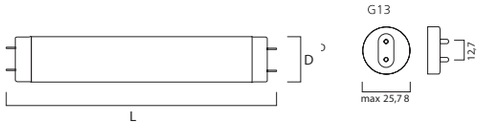
- To create special lighting effects in shop windows, bars, fairground attractions, dance halls and discotheques

T8 Coloured

Code	Description	Watt (W)	Colour	Cap	Luminous Flux (lm)	Packing Qty
0002572	F18W/T8/R	18	Red	G13	30	25
0002573	F36W/T8/R	36	Red	G13	70	25
0002574	F58W/T8/R	58	Red	G13	100	25
0002561	F18W/T8/Y	18	Yellow	G13	750	25
0002565	F36W/T8/Y	36	Yellow	G13	1550	25
0002569	F58W/T8/Y	58	Yellow	G13	2500	25
0002562	F18W/T8/G	18	Green	G13	1200	25
0002566	F36W/T8/G	36	Green	G13	2800	25
0002570	F58W/T8/G	58	Green	G13	4000	25
0002563	F18W/T8/B	18	Blue	G13	300	25
0002567	F36W/T8/B	36	Blue	G13	700	25
0002571	F58W/T8/B	58	Blue	G13	1000	25
0002560	F18W/T8/P	18	Pink	G13	750	25
0002564	F36W/T8/P	36	Pink	G13	1700	25
0002568	F58W/T8/P	58	Pink	G13	2600	25







Dimensions (mm)

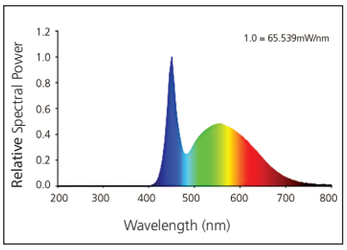


- Suitable for the most aquarium sizes thanks to the adjustable metal holders
- Available in 3 difference lengths (28cm / 46cm / 76cm)
- Daylight colour (6500K) gives outstanding appearance for your fish and perfect illumination for plants to grow
- Dimmable with touch sensor
- Daylight simulation with USB stick (optional)
- 2 years warranty

AquaStar LED

Code	Description	Watt (W)	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0000800	Sylvania Aquastar MINI LED	14	6500	1000	-
0000810	Sylvania Aquastar MIDI LED	22	6500	2000	-
0000820	Sylvania Aquastar MAXI LED	30	6500	2800	-

Aquastar MINI LED



Grolux T5





Packaging Note: The sleeve pictured is for the retail product

Features

- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New T5 ℓ8: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

universal

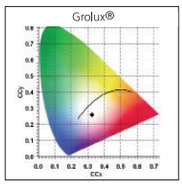
MADE IN BELGIUM

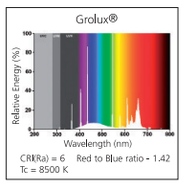
Applications

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

Grolux T5

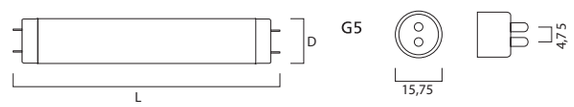
Code	Description	Watt (W)	Colour	Cap	Diameter	Packing Qty
0000026	F8W/GRO	8	GroLux	G5	T5	25
0002740	FHO24W/GRO	24	GroLux	G5	T5	25
0002743	FHO39W/GRO	39	GroLux	G5	T5	25
0002746	FHO54W/GRO	54	GroLux	G5	T5	25
0002749	FHO80W/GRO	80	GroLux	G5	T5	25
0000728	FHO24W/GRO Retail	24	GroLux	G5	T5	10
0000729	FHO39W/GRO Retail	39	GroLux	G5	T5	10
0000730	FHO54W/GRO Retail	54	GroLux	G5	T5	10
0002821	F24W T5 ℓ8 Gro-Lux Retail	24	GroLux	G5	T5	10
0002823	F28W T5 ℓ8 Gro-Lux Retail	28	GroLux	G5	T5	10
0002825	F35W T5 ℓ8 Gro-Lux Retail	35	GroLux	G5	T5	10
0002827	F45W T5 ℓ8 Gro-Lux Retail	45	GroLux	G5	T5	10
0002829	F54W T5 ℓ8 Gro-Lux Retail 1047mm	54	GroLux	G5	T5	10
0002831	F54W T5 ℓ8 Gro-Lux Retail 1200mm	54	GroLux	G5	T5	10







T5 Standard	8W	24W	39W	54W	80W
L	288	549	849	1149	1449
D	16	16	16	16	16
T5 ℓ8	24W	28W	35W	45W	54W	54W
L	438	590	742	895	1047	1200
D	16	16	16	16	16	16



Dimensions (mm)





Packaging Note: The sleeve pictured is for the retail product

Features

- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo-synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria

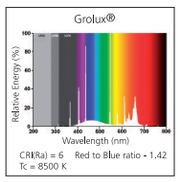
universal

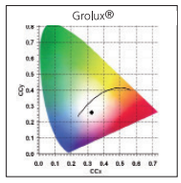
Applications

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

Grolux T8

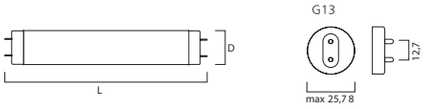
Code	Description	Watt (W)	Colour	Cap	Diameter	Packing Qty
0000043	F14W/GRO	14	Gro-Lux	G13	T8	25
0000069	F15W/GRO	15	Gro-Lux	G13	T8	25
0001523	F18W/GRO	18	Gro-Lux	G13	T8	25
0001679	F25W/30"/GRO	25	Gro-Lux	G13	T8	25
0000150	F30W/GRO	30	Gro-Lux	G13	T8	25
0001524	F36W/GRO	36	Gro-Lux	G13	T8	25
0002213	F38W/GRO	38	Gro-Lux	G13	T8	25
0001525	F58W/GRO	58	Gro-Lux	G13	T8	25
0000707	F14W/GRO Retail	14	Gro-Lux	G13	T8	10
0000708	F15W/GRO Retail	15	Gro-Lux	G13	T8	10
0000709	F18W/GRO Retail	18	Gro-Lux	G13	T8	10
0000710	F25W/30"/GRO Retail	25	Gro-Lux	G13	T8	10
0000711	F30W/GRO Retail	30	Gro-Lux	G13	T8	10
0000712	F36W/GRO Retail	36	Gro-Lux	G13	T8	10
0000713	F38W/GRO Retail	38	Gro-Lux	G13	T8	10
0000714	F58W/GRO Retail	58	Gro-Lux	G13	T8	10







T8	14W	15W	18W	25W
L	361	438	590	742
D	26	26	26	26
T8	30W	36W	38W	58W
L	895	1200	1047	1500
D	26	26	26	26



Dimensions (mm)





Packaging Note: The sleeve pictured is for the retail product

Features

- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New T5 ℓ8: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

universal

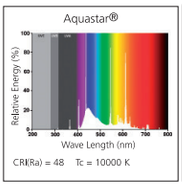
Applications

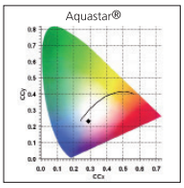
- For all biological organisms in fresh and marine water aquariums
- Excellent results in combination with Daylightstar

Aquastar T5

Code	Description	Watt (W)	Colour Temp (K)	Light Output (lm)	Cap	Diameter	Packing Qty
0002741	FHO24W/Aquastar	24	10000	1120	G5	T5	25
0002744	FHO39W/Aquastar	39	10000	1960	G5	T5	25
0002747	FHO54W/Aquastar	54	10000	2800	G5	T5	25
0002750	FHO80W/Aquastar	80	10000	3500	G5	T5	25
0002752	FHO24W/Aquastar Retail	24	10000	1120	G5	T5	10
0002753	FHO39W/Aquastar Retail	39	10000	1960	G5	T5	10
0002754	FHO54W/Aquastar Retail	54	10000	2800	G5	T5	10
0002820	F24W T5 ℓ8 Aquastar Retail	24	10000	900	G5	T5	10
0002822	F28W T5 ℓ8 Aquastar Retail	28	10000	1200	G5	T5	10
0002824	F35W T5 ℓ8 Aquastar Retail	35	10000	1700	G5	T5	10
0002826	F45W T5 ℓ8 Aquastar Retail	45	10000	2100	G5	T5	10
0002828	F54W T5 ℓ8 Aquastar Retail 1047mm	54	10000	2500	G5	T5	10
0002830	F54W T5 ℓ8 Aquastar Retail 1200mm	54	10000	2900	G5	T5	10

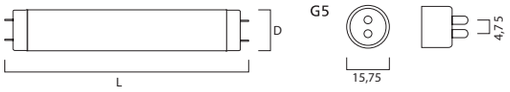
Packing Note: The sleeve pictured is for retail sales







T5 Standard		24W	39W	54W	80W	
L		549	849	1149	1449	
D		16	16	16	16	
T5 ℓ8	24W	28W	35W	45W	54W	54W
L	438	590	742	895	1047	1200
D	16	16	16	16	16	16



Dimensions (mm)





Packaging Note: The sleeve pictured is for the retail product

Features

- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance

universal

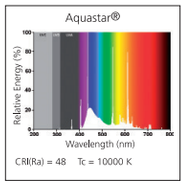
MADE IN BELGIUM

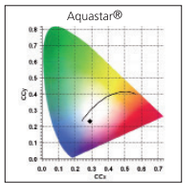
Applications

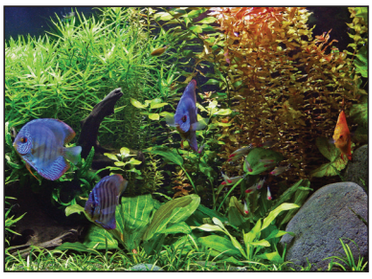
- For all biological organisms in fresh and marine water aquariums

Aquastar T8

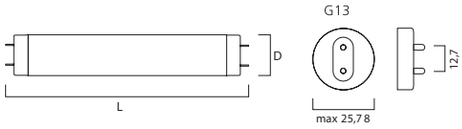
Code	Description	Watt (W)	Colour Temp (K)	Light Output (lm)	Cap	Diameter	Packing Qty
0002212	F14W/Aquastar	14	10000	525	G13	T8	25
0002224	F15W/Aquastar	15	10000	650	G13	T8	25
0002221	F18W/Aquastar	18	10000	900	G13	T8	25
0002226	F25W/30"/Aquastar	25	10000	1500	G13	T8	25
0002225	F30W/Aquastar	30	10000	1700	G13	T8	25
0002222	F36W/Aquastar	36	10000	2200	G13	T8	25
0002185	F38W/Aquastar	38	10000	2100	G13	T8	25
0002223	F58W/Aquastar	58	10000	3550	G13	T8	25
0000727	F14W/Aquastar Retail	14	10000	525	G13	T8	10
0000643	F15W/Aquastar Retail	15	10000	650	G13	T8	10
0000644	F18W/Aquastar Retail	18	10000	900	G13	T8	10
0000645	F25W/30"Aquastar Retail	25	10000	1500	G13	T8	10
0000646	F30W/Aquastar Retail	30	10000	1700	G13	T8	10
0000647	F36W/Aquastar Retail	36	10000	2200	G13	T8	10
0000648	F38W/Aquastar Retail	38	10000	2100	G13	T8	10
0000649	F58W/Aquastar Retail	58	10000	3550	G13	T8	10







T8	14W	15W	18W	25W
L	361	438	590	742
D	26	26	26	26
T8	30W	36W	38W	58W
L	895	1200	1047	1500
D	26	26	26	26



Dimensions (mm)

Daylightstar T8





Packaging Note: The sleeve pictured is for the retail product

Features

- Reduces algae growth through a special UV-STOP protective sleeve
- Allows fish and plants to be seen in their true colours (high colour rendition)
- 5000K triphosphor lamp with a daylight character
- High colour rendition

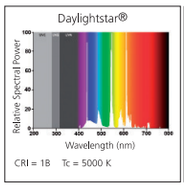
universal UV STOP MADE IN BELGIUM

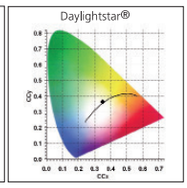
Applications

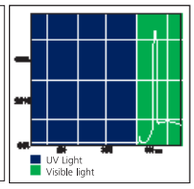
- For use in fresh water aquariums
- In combination with Grolux® it produces a well balanced and optimal aquarium life

Daylightstar T8

Code	Description	Watt (W)	Colour	Cap	Diameter	Packing Qty
0000715	F15W/Daylightstar Retail	15	Daylightstar	G13	T8	10
0000716	F18W/Daylightstar Retail	18	Daylightstar	G13	T8	10
0000717	F30W/Daylightstar Retail	30	Daylightstar	G13	T8	10
0000718	F36W/Daylightstar Retail	36	Daylightstar	G13	T8	10

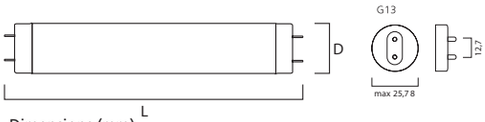








T8	15W	18W	30W	36W
L	438	590	895	1200
D	26	26	26	26



Dimensions (mm)





Packaging Note: The sleeve pictured is for the retail product

Features

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New 5 l8: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium

universal

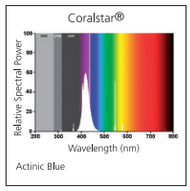
MADE IN BELGIUM

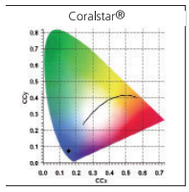
Applications

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

Coralstar T5

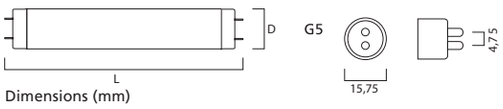
Code	Description	Watt (W)	Colour	Cap	Diameter	Packing Qty
0002742	FHO24W/Coralstar	24	Actinic	G5	T5	25
0002745	FHO39W/Coralstar	39	Actinic	G5	T5	25
0002748	FHO54W/Coralstar	54	Actinic	G5	T5	25
0002751	FHO80W/Coralstar	80	Actinic	G5	T5	25
0002755	FHO39W/Coralstar Retail	39	Actinic	G5	T5	10
0002756	FHO54W/Coralstar Retail	54	Actinic	G5	T5	10
0002757	F28W T5 ⌀8 Coralstar Retail	28	Actinic	G5	T5	10
0002758	F45W T5 ⌀8 Coralstar Retail	45	Actinic	G5	T5	10
0002759	F54W T5 ⌀8 Coralstar Retail	54	Actinic	G5	T5	10







T5 Standard	24W	39W	54W	80W
L	549	849	1149	1449
D	16	16	16	16
T5 ⌀8	28W	45W	54W	
L	590	895	1200	
D	16	16	16	



Dimensions (mm)

Coralstar T8





Packaging Note: The sleeve pictured is for the retail product

Features

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)

universal

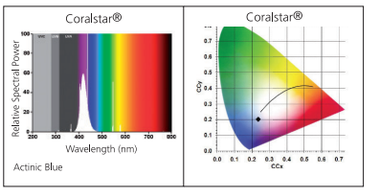
MADE IN BELGIUM

Applications

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

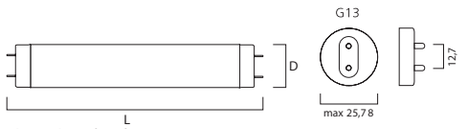
Coralstar T8

Code	Description	Watt (W)	Colour	Cap	Diameter	Packing Qty
0000719	F18W/Coralstar Retail	18	Actinic	G13	T8	10
0000725	F30W/Coralstar Retail	30	Actinic	G13	T8	10
0000726	F36W/Coralstar Retail	36	Actinic	G13	T8	10





T8	18W	30W	36W
L	590	895	1200
D	26	26	26



Dimensions (mm)





Packaging Note: The sleeve pictured is for the retail product

Features

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

universal

MADE IN BELGIUM

Applications

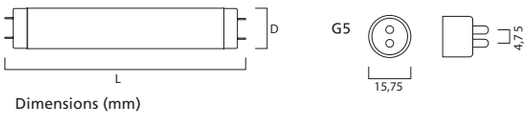
- Lighting of marine water aquaria

Marinestar T5 15000K

Code	Description	Watt (W)	Colour Temp (K)	Cap	Diameter	Packing Qty
0002720	FHO24W/Marinestar	24	15000	G5	T5	25
0002721	FHO39W/Marinestar	39	15000	G5	T5	25
0002722	FHO54W/Marinestar	54	15000	G5	T5	25
0002723	FHO80W/Marinestar	80	15000	G5	T5	25
0002725	F24W/Marinestar Retail	24	15000	G5	T5	10
0002726	F39W/Marinestar Retail	39	15000	G5	T5	10
0002727	F54W/Marinestar Retail	54	15000	G5	T5	10
0002728	F80W/Marinestar Retail	80	15000	G5	T5	10

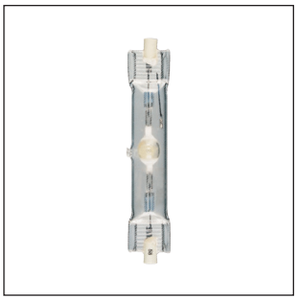


T5 Standard	24W	39W	54W	80W
L	549	849	1149	1449
D	16	16	16	16



Dimensions (mm)

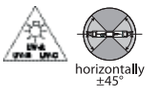
Aqua Arc





Features

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



Applications

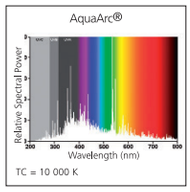
- For use in fresh and seawater aquaria
- Strong directional light which penetrates deep into large tanks
- Lifelike appearance of fish, corals and plants

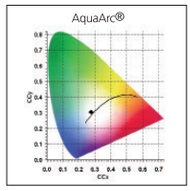
Directions for use

- Burning position: horizontal ± 45°
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off pointing up-see instructions supplied with lamp
- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination

Aqua arc

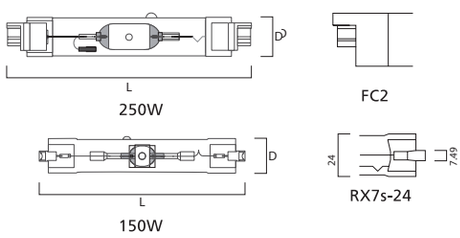
Code	Description	Watt (W)	Volt (V)	Current (A)	Cap	Bulb Finish	Colour Temp (K)	Chromaticity Coordinate x	Chromaticity Coordinate y	Light Output (lm)	Packing Qty
0021049	HSI-TD 150W AquaArc	150	100	1.80	RX7s	Clear	10,000	0.277	0.311	9000	10
0021050	HSI-TD 250W AquaArc	250	100	3.00	Fc2	Clear	10,000	0.275	0.323	14,000	10



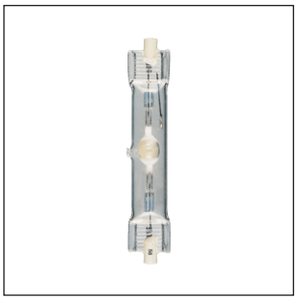




	150W	250W
L	135	162
D	25	28



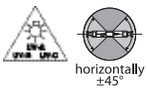
Dimensions (mm)





Features

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



Applications

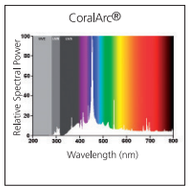
- For use in sea water aquaria
- Provides the specific spectrum (400-480 mm) necessary to achieve the blue chlorophyl absorption for zooxanthellae symbioses to develops

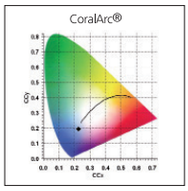
Directions for use

- Burning position: horizontal ± 45°
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp
- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination

Coralarc

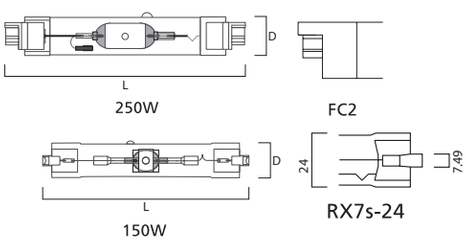
Code	Description	Watt (W)	Volt (V)	Current (A)	Cap	Bulb Finish	Colour	Chromaticity Coordinate x	Chromaticity Coordinate y	Light Output (lm)	Packing Qty
0021028	HSI-TD 150W CoralArc	150	100	1.80	Rx7s	Clear	Blue	0.261	0.257	5400	10
0021029	HSI-TD 250W CoralArc	250	100	3.00	Fc2	Clear	Blue	0.257	0.243	8000	10







	150W	250W
L	135	162
D	25	28



Dimensions (mm)

Reptistar T8





Packaging Note: The sleeve pictured is for the retail product

Features

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

universal

Applications

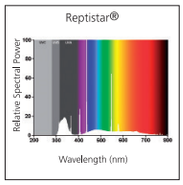
- For the artificial lighting of reptiles in terrariums

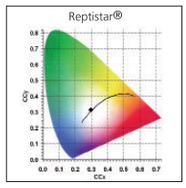
Directions for use

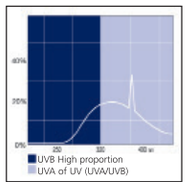
- This lamp emits UV-radiation. Avoid exposure to skin and eyes

Reptistar T8

Code	Description	Watt (W)	Colour	Cap	Light Output (lm)	Diameter	Packing Qty
0000731	F15W/Reptistar UV-B 5% Retail	15	Reptistar	G13	300	T8	10
0000732	F18W/Reptistar UV-B 5% Retail	18	Reptistar	G13	450	T8	10
0000733	F30W/Reptistar UV-B 5% Retail	30	Reptistar	G13	700	T8	10
0000734	F36W/Reptistar UV-B 5% Retail	36	Reptistar	G13	1000	T8	10
0000741	F15W/Reptistar UV-B 10% Retail	15	Reptistar	G13	300	T8	10
0000742	F18W/Reptistar UV-B 10% Retail	18	Reptistar	G13	450	T8	10
0000743	F30W/Reptistar UV-B 10% Retail	30	Reptistar	G13	700	T8	10
0000744	F36W/Reptistar UV-B 10% Retail	36	Reptistar	G13	1000	T8	10

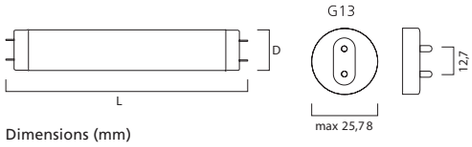








T8	15W	18W	30W	36W
L	361	438	895	1200
D	26	26	26	26



Dimensions (mm)



Features

- Converts electric current into infrared radiation

universal

Applications

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

Directions for use

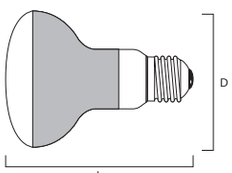
- Not suitable for household room illumination

Infrared Reflector

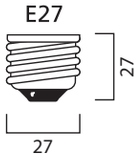
Code	Description	Watt (W)	Volt (V)	Type	Cap	Average Rated Life (Hrs)	Packing Qty
0033005	IR R63 50W	50	230	Infrared	E27	5000	10
0033006	IR R63 75W	75	230	Infrared	E27	5000	10
0033007	IR R80 100W	100	230	Infrared	E27	5000	10

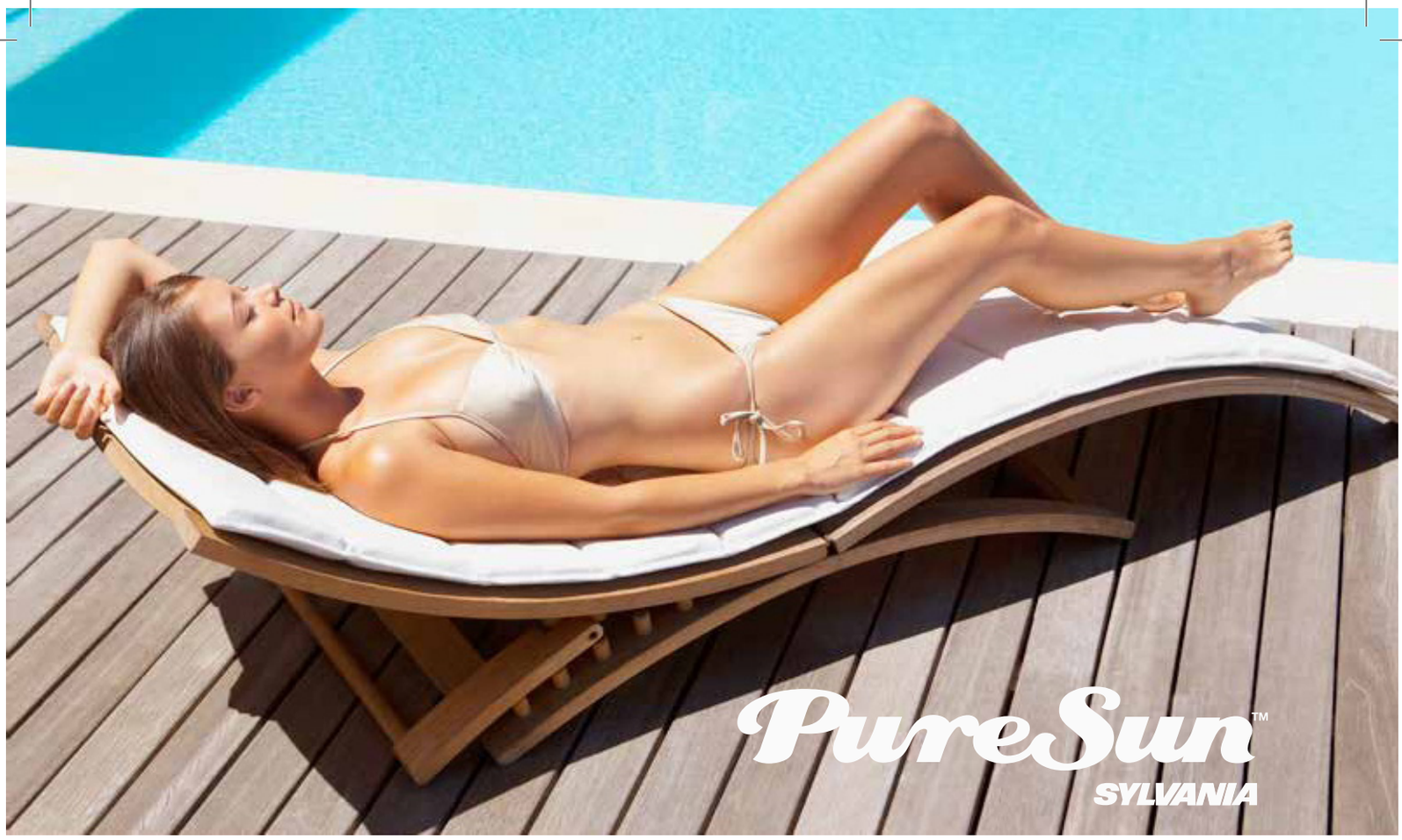


	50W	75W	100W
L	103	103	110
D	63	63	80



Dimensions (mm)





Next generation lamp technology

For deeper, longer-lasting tans

UV phosphor only the best is good enough

Our new PureSun range uses advanced materials and technology to provide both an improved tan for the customer and a longer life lamp for the salon owner. The choice of phosphor is crucial to PureSun's success. Our secret lies in selecting phosphor with the ideal UVA/UVB ratio for direct and indirect tanning. In addition to this, we use a high-tech process called Chemical Vapour Deposition to ensure the purity of the phosphor in each lamp, resulting in a reduction in UV loss over time.

Mercury content – less than 10mg

The Mercury (Hg) discharge is the engine that determines the efficiency of the lamps. Without Mercury the lamp switches off, but if there is too much Mercury the UV output of the lamp does not become stable and cannot reach its maximum UV output. This phenomena is what you experience as uneven 'colour' and is often called a 'dull effect' by end users.

Sylvania can fill all T12 sun tanning lamps with a precise amount of Mercury – less than 10mg – using a unique, patented method. EU environmental legislation requires less than 15mg of Mercury – so our lamps are well below this limit.

Advanced manufacturing ensures gas purity inside each lamp

The Mercury (Hg) discharge is the engine that determines the efficiency of the lamps. Without Mercury the lamp switches off, but if there is too much Mercury the UV output of the lamp does not become stable and cannot reach its maximum UV output. This phenomena is what you experience as uneven 'colour' and is often called a 'dull effect' by end users.

Sylvania can fill all T12 sun tanning lamps with a precise amount of Mercury – less than 10mg – using a unique, patented method. EU environmental legislation requires less than 15mg of Mercury – so our lamps are well below this limit.





PureSun HOT lamps are long-lasting premium products that produce considerable amounts of UVB and UVA. These lamps are strong enough to reach very short session times in any tanning equipment. PureSun HOT is designed to give your customers immediate colour using higher UVA and UVB levels.

Premium lamps with higher output, universal results and true 1000 hour life make it a major advancement in the tanning. Proprietary phosphors give a superlative tanning experience and quick results. They not only deliver an exceptional tan but offer a long service life too – you can expect this from all PureSun lamps.

PureSun SYLVANIA

Hot

PureSun - Hot

Code	Description	Watt (W)	Reflector (°)	Mount Design	Length (cm)	Typical radiation strength* (mW/cm2)	UVB (%)	UVA (W)	Sun/Ery Factor (Fse)	Tanning Time ST3** (min)	Average Rated Life (Hrs)
T5 lamps											
0073014	PureSun 25W 1.5%	25	0	-	52	16	1.5	5.5	0.07	14	600
T12 160W-R 1.76cm lamps											
0071264	PureSun 160W 1.6% R PEAK	160	227	Short	176	20	1.6	38	0.21	10	1000
0071221	PureSun 160W 2.0% R	160	227	Short	176	23	2.0	38	0.24	9	1000
0071226	PureSun 160W 2.3% R	160	227	Short	176	23	2.3	38	0.27	8	1000
0071223	PureSun 160W 2.6% R	160	227	Short	176	23	2.6	38	0.27	6	1000
0071283	PureSun 160W 3.3% R	160	227	Short	176	23	3.3	33	0.31	4	1000
0071284	PureSun 160W 3.6% R	160	227	Short	176	23	3.6	38	0.34	3	1000
0071307	PureSun 160W 3.6% R LONGMOUNT	160	227	Long	176	28	3.6	46	0.46	3	1000
T12 180W EXTRA LONG lamps											
0071245	PureSun 180W 3.3% R 1.9m	180-200	227	Short	190	23	3.3	41	0.32	4	1000
0071237	PureSun 180W/250 2.6% R 2m	180-200	227	Short	200	23	2.6	42	0.27	6	1000
0071285	PureSun 180W 3.6% R 2m	160-200	227	Short	200	23	3.6	41	0.35	3	1000
0071258	PureSun 180/250W 2.3% R LONGMOUNT 2m	180-250	227	Long	200	28	2.3	50	0.35	5.5	1000
0071318	PureSun 180/250W 3.0% R LONGMOUNT 2m	180-250	227	Long	200	32	3.0	53	0.41	4	1000



PureSun – Gentle



PureSun is designed to tan gently, within the limits set by EU regulations governing all types of tanning equipment. Based on scientific research, these limit photo-biological irradiance values to 0.3 W/m2, which is equivalent to the summer sun at midday in the Mediterranean. In other words: the safe, maximum level is what we have evolved to enjoy, naturally.

PureSun's long-lasting UV stability guarantees constant session times even after hundreds of hours. And PureSun operates at the precise spectrum of wavelengths required for maximum tanning effect, but with reduced irradiance. So, it offers exactly the right balance for reliable, even and gentle tanning, time and again. Advanced design and manufacturing quality ensures that PureSun consistently outshines the competition for amazing results.

PureSun SYLVANIA Gentle

PureSun – Gentle

Code	Description	Watt (W)	Reflector (°)	Mount Design	Length (cm)	Typical radiation strength* (mW/cm2)	UVB (%)	UVA (W)	Sun/Ery Factor (Fse)	Tanning Time ST3** (min)	Average Rated Life (Hrs)
T5 lamps											
0073012	PureSun 15W 1.0%	15	0	-	28.8	16	1.0	2.8	0.03	21	600
0073009	PureSun 25W 1.0%	25	0	-	52	16	1.0	5.5	0.03	20	600
T12 100W lamps											
0071180	PureSun 100W 0.7%	100	0	Short	176	17	0.8	27	0.04	24	800
0071181	PureSun 100W 1.3%	100	0	Short	176	17	1.3	27	0.06	20	800
0071182	PureSun 100W 2.0%	100	0	Short	176	17	2.0	27	0.10	12	800
0071201	PureSun 100W 1.0% R	100	227	Short	176	20	1.0	30	0.10	19	800
0071301	PureSun 100W 1.3% R	100	227	Short	176	18	1.3	26	0.10	18	800
T12 160W-R											
0071267	PureSun 160W 0.5% R	160	227	Short	176	23	0.5	36	0.06	23	1000
0071320	PureSun 160W 0.6% R PEAK	160	227	Short	176	25	0.6	38	0.8	22	1000
0071217	PureSun 160W 0.7% R	160	227	Short	176	21	0.7	33	0.08	22	1000
0071281	PureSun 160W 0.8% R PEAK	160	227	Short	176	25	0.8	38	0.09	17	1000
0071214	PureSun 160W 1.0% R	160	227	Short	176	21	1.0	33	0.10	18	1000
0071234	PureSun 160W 1.0% R PEAK	160	227	Short	176	25	1.0	38	0.13	14	1000
0071275	PureSun 160W 0.7% R PEAK LONGMOUNT	160	227	Long	176	28	0.7	46	0.12	17	1000
T12 180W-r EXTRA LONG lamps											
0071302	PureSun 180/200W 0.7% R 1.9m	180-200	227	Short	190	23	0.7	41	0.08	22	1000
0071299	PureSun 180/200W 0.7% R 2m	180-200	227	Short	200	23	0.7	41	0.08	22	1000
0071274	PureSun 180/250W R 0.5% PEAK LONGMOUNT 2m	180-250	227	Long	200	28	0.4	51	0.8	23	1000

100W 1.0% R

100-R-34/3.9 FOR EU

Sunlamp DANGER. Ultraviolet radiation. Follow instructions. Use ONLY in fixture equipped with a timer.

Made in Germany
www.havells-sylvania.com

100 - R - 34 / 3.9 FOR EU

1 2 3 4 5

1. Wattage code
Nominal wattage of the recommended ballast which is used for the measurement. It can be different than the ballast in the application.

2. Reflector code
- O for non-reflector lamps
- B for lamps with broad reflector angle α >230°
- N for lamps with narrow reflector angle α <200°
- R for lamps with regular reflector 200°≤ α ≤230°

3. X code
E_{er} [mW/m2] Total erythema irradiance over range 250nm-400nm

4. Y code
$E_{NMSC<320nm}$ / $E_{NMSC>320nm}$ ratio of the NMSC effective.

5. EU code
Shows that the lamp suitable for 0.3 regulation with high probability.



PureSun SYLVANIA

PureSun HID

Code	Description	Watt (W)	Base/Cap	Quartz Type	Length* (mm)	Max Diameter (mm)	Average Rated Life** (Hrs)
0034250	PureSun 250W SE	250	GY9.5	FDA	70.5	14	600
0034251	PureSun 250W SER	250	Special	FDA	76	14	600
0034300	PureSun 300/500W S	300-500	R7s	OZF	104	14	800
0034201	PureSun 300/500W SL	300-500	R7s long	OZF	117.9	14	600
0034303	PureSun 300/500W SE	300-500	GY9.5	OZF	103	14	800
0034228	PureSun 300/500W SEC	300-500	GK9.5	OZF	103	14	600
0034202	PureSun 300/500W C	300-500	K8s	OZF	116	14	600
0034210	PureSun 400/600W S	400-600	R7s	OZF	104	17	600
0034263	PureSun 400/600W SL	400-600	R7s long	OZF	117.9	17	600
0034400	PureSun 400/600W SF	400-600	Fu14s	FDA	159	17	600
0034212	PureSun 400/600W SE	400-600	GY9.5	OZF	107	17	600
0034261	PureSun 400/600W SEC	400-600	GK9.5	OZF	107	17	600
0034227	PureSun 400/600 SE-G12	400-600	G12	OZF	107	17	600
0034211	PureSun 400/600W C	400-600	K8s	OZF	114	17	600
0034265	PureSun 650/800W S	650-800	R7s	FDA	117.9	19	600
0034401	PureSun 650/800W SF	650-800	Fu14s	FDA	159	19	600
0034264	PureSun 650/800W C	650-800	K8s	FDA	117	19	600
0034226	PureSun 650/800W CL	650-800	K8s	FDA	129	19	600
0034402	PureSun 1000W SF	1000	Fu14s	FDA	173	26	600
0034223	PureSun 1000W SE	1000	GY9.5	OZF	110	26	600
0034222	PureSun 1000W SE Long	1000	GQ9.5	OZF	131	26	600
0034460	PureSun 1000W SE-G12	1000	G12	OZF	110	26	600
0034220	PureSun 1000W C 230V	1000	K10s	OZF	139	26	600
0034221	PureSun 1000W C 400W	1000	K10s	OZF	139	26	600
0034225	PureSun 1000W CL 230V	1000	K10s	OZF	156	26	600

S = R7s
SL = R7s Long
SE = GY9.5
SEC = GK9.5
SE-G12 = G12
SER = SE for Reflector
C = Cable
CL = Cable Long

* For Cable types : base-to-base
For R7s types : base-to-contact
For Fu14s types : pin-to-pin
For SE types : length without pins

** 70% UVA maintenance



PureSun Starter

Code	Description	Watt (W)	Volt (V)	Electronic Circuit	Lifetime Nr of ignitions	Packaging unit
0024479	PureSun 100-180W	100-180	220-240	Single	20,000	25

Visit www.puresun-tanning.com for more product information.

Please note: SYLVANIA tanning tubes and lamps should only be used with appropriate consideration of the type of equipment in use as well as the person's specific skin type. You can find details on this below.

High-altitude sun – CAUTION – Ultraviolet (UV) and infrared radiation.
Please observe instructions for use. UV and infrared radiation from studio tubes carries with it a number of health risks and can cause, among other things, cancer, premature skin aging, burns, injuries to the eyes, cataracts, a weakening of the immune system, allergic reactions and injuries to the vascular system. Pregnant women and persons taking prescription or over-the-counter pharmaceuticals should consult their physician's prior to tanning in a studio. The simultaneous ingestion of such medications as sedatives, antibiotics, diuretics or lower blood pressure medications, anti-neo-plastics or contraceptives can lead to the development of sunburn more quickly because such pharmaceuticals increase the skin's sensitivity to light. The same applies to cosmetics. UV radiation can accelerate the aging process of your skin and increase the risk of skin cancer, for instance squamous cell carcinoma or basal cell carcinoma. Your skin cancer risk is greater the more often you are exposed to UV radiation. Those who do not tan under direct sunlight will usually not tan in a tanning studio either and, in addition, such persons will also expose themselves to a greater danger of experiencing the detrimental effects of tanning lamps. If you do not tan in direct sunlight, then you should avoid tanning lamps. UV exposure in childhood is suspected of favouring the formation of melanoma in adulthood. Therefore, children should not use tanning studios without check-ups by a physician.

NEVER TAN WITHOUT USING SUITABLE PROTECTION FOR YOUR EYES (UV PROTECTIVE EYEWEAR)! WITHOUT EFFECTIVE EYE PROTECTION, YOU RUN THE RISK OF SERIOUS BURNS TO THE EYE OR A LONGER TERM IMPAIRMENT OF VISION!

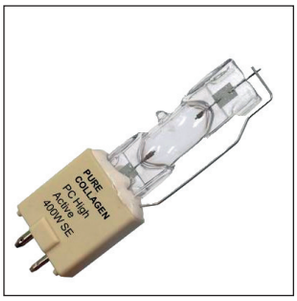
Use tanning lamps ONLY with a timer and in conformity with instructions from the manufacturers of both the equipment and the lamps, also in proper consideration of your skin type. Before installing the lamps or switching out the tubes, take all appropriate safety precautions and observe the instructions of the manufacturers of the tanning equipment and the light sources used.

Exclusion of liability: Havells Sylvania will not be liable for injuries resulting from the improper use of its products or from not adhering to legal and regional regulations as to the use of such products by its customers or final users. All the data presented here is the result of measurements made under standardised laboratory conditions. Details on the certification of UVA radiation and the guaranteed service life of the equipment are based on a 5-hour value and refer to operational conditions defined by Havells Sylvania. Havells Sylvania reserves the right to change this technical data without any prior announcement.

This information is not legally binding consultation and cannot replace such consultation. We recommend that you remain up-to-date in an appropriate manner as to all developments, particularly those concerning the conversion of European Guidelines into national law, e.g. by consulting a solicitor or a qualified professional association.

PURE COLLAGEN™ – Pure anti-aging





Collagen is a biological, autologous building block and important part of human skin which provides elasticity and strength to the skin. Fibroblasts (Collagen producing cells) continuously produce new collagen fibres. By the increased generation of Collagen fine lines are reduced, the skin is visibly tightened and the visual appearance of the skin is improved.

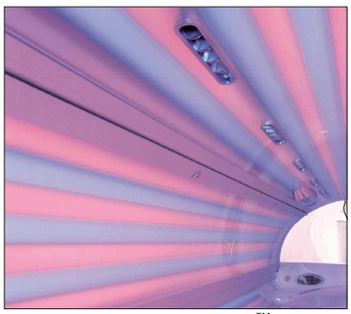
The advanced design of both high and low pressure lamps features a novel and unique spectrum. The high energy output enables the skin to support the maximum rate of collagen regeneration.

Tubes

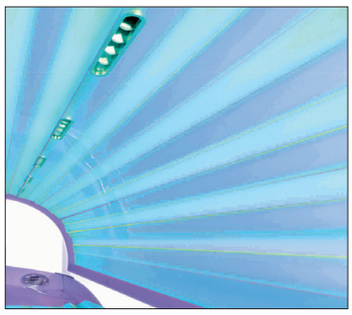
Code	Description	Watt (W)	Length (cm)	Average Rated Life (Hrs)
0003001	PC Active500 15W	15	180	600
0003002	PC Active500 25W	25	180	600
0001315	PC Active500 100W R	100	180	600
0001316	PC Active500 160W R	160	180	600
0001324	PC Active500 120W R 2m	120	180	600
0001317	PCC Active500 180/250W R 2m	200-250	200	600

High pressure

Code	Description	Watt (W)	Base/Cap	Max length (mm)	Average Rated Life (Hrs)
0024281	PC HighActive 400W SE (Single ended)	400	GY9.5	103.0	600
0024280	PC HighActive 400W DE (Double ended)	400	R7s	106.0	600



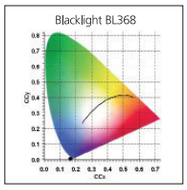
Collagen mode with PURE COLLAGEN™

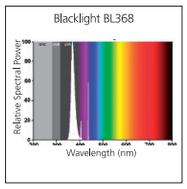


Sun tanning mode with standard UV tubes









universal

Features

- BL368 tubes emit an upgraded highly concentrated radiation with peak around 368 nm. Flying insects eye sensitivity is generally at or near this frequency
- 100% improvement in effectiveness (at 368nm)
- Depreciation of UV-A output over time is significantly reduced (80% at 5000hrs of original 100 hour output)
- Performs longer and better throughout the insect season
- Same shape, structural and electrical characteristics and control circuits as standard T12,T8, T5 tubes or circelines

Applications

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

Directions for use

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1.0 milliWatt per metre squared (1.0 mW/m²) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0.2 and 0.4 mW/m² depending on the wattage

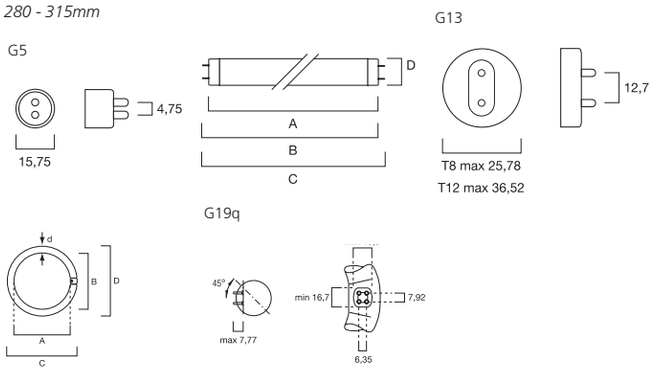
Blacklight BL368 Linear & Circline

Code	Description	Watt (W)	Volt (V)	Current (A)	Light Colour	Cap	Packing Qty
0000085	F4W T5 BL368	4	29	0.170	BL368	G5	50
0000088	F6W T5 BL368	6	42	0.160	BL368	G5	25
0000089	F8W T5 BL368	8	56	0.145	BL368	G5	25
0000097	F11W T5 BL368	11	34	0.350	BL368	G5	25
0000090	F15W T5 BL368	15	44	0.310	BL368	G5	25
0000082	F15 T8 BL368	15	55	0.310	BL368	G13	25
0000091	F18W T8 BL368 24"	18	59	0.36	BL368	G13	25
0002166	F25 T8 BL368 18"	25	38	0.600	BL368	G13	25
0000098	F30 T8 BL368	30	96	0.365	BL368	G13	25
0000092	F36W T8 BL368 24"	36	50	0.85	BL368	G13	25
0000361	F20 T12 BL368 24"	20	57	0.370	BL368	G13	25
0001638	F40 T12 BL368 24"	40	47	0.880	BL368	G13	25
0000099	F40 T12 BL368 48"	40	103	0.430	BL368	G13	25
0000456	FC22 T9 BL368	22	62	0.400	BL368	G10q	12
0000100	FC32 T9 BL 368 8"	32	57	0.480	BL368	G10q	12

UV-A= 315 - 400mm
UV-B= 280 - 315mm



	A max	B min	B max	C max	D nom
4W	135.9	140.6	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
11W	212.1	216.8	219.2	226.3	16
15WT5	288.3	293.0	295.4	302.5	16
15WT8	437.4	442.1	444.5	451.6	26
18WT8	589.8	594.5	596.9	604.0	26
25WT8 18"	437,4	442,1	444,5	451,6	26
30WT8	894,6	899,3	901,7	908,8	26
36WT8	589.8	594.5	596.9	604.0	26
20WT12 24"	589.8	594.5	596.9	604.0	38
40WT12 24"	589.8	594.5	596.9	604.0	38
40WT12 48"	1199.4	1204.1	1206.5	1213.6	38



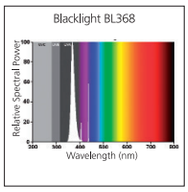
Dimensions (mm)

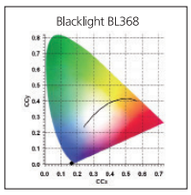
	A min	A max	B min	B max	D min	D max	d min	d max
22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9
32W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9

Blacklight BL368 Compact

SYLVANIA







universal

Features

- These BL368 tubes emit an upgraded highly concentrated radiation with peak around 368nm. Flying insect - eye sensitivity is generally at or near this frequency
- 100% improvement in effectiveness (at 368nm)
- Depreciation of UV-A output over time is significantly reduced (80% at 5000hrs of original 100 hour output)
- Performs longer and better throughout the insect season

Directions for use

- Maximum exposure limits are set by EN60335 2-59:1997 at an effective 1.0 milliWatt per metre squared (1.0 mW/m) measured at a distance of 1 metre - originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0.2 and 0.4 mW/m depending on the wattage

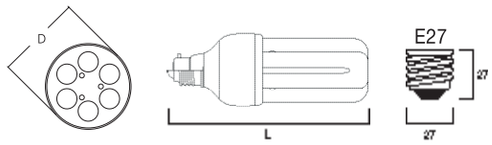
Blacklight BL355 Compact

Code	Description	Watt (W)	Volt (V)	Current (A)	Lamp Colour	Cap	Packing Qty
0025275	LYNX-S BL355 9W	9	60	0.170	BL355	G23	50

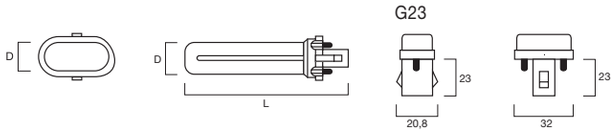
Blacklight BL368 Compact

Code	Description	Watt (W)	Volt (V)	Current (A)	Lamp Colour	Cap	Packing Qty
0025706	MiniLynx 20W BL368	20	230	0.160	BL368	E27	20
0025411	Lynx-s 9W BL368	9	60	0.170	BL368	G23	50
0025412	Lynx-S 11W BL 368	11	91	0.175	BL368	G23	50
0025708	Lynx-DE 13W BL368	13	91	0.175	BL368	G24q-1	50
0025709	Lynx-D 26W BL368	26	105	0.325	BL368	G24d-3	50
0025268	Lynx-L 18W BL368	18	58	0.375	BL368	2G11	10
0025710	Lynx-L 36W BL368	36	106	0.435	BL368	2G11	10

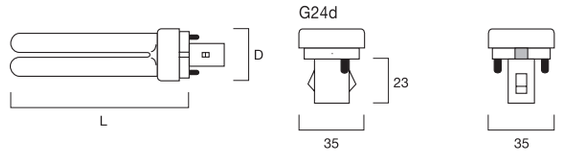
UV-A= 315-400nm UV-B=280-315nm



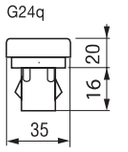
E27	20W
L	165
D	52



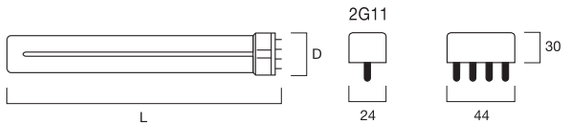
G23	9W	11W
L	165	233
D	28	28



G24d	26W
L	147
D	35



G24q	13W
L	115
D	35



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

Dimensions (mm)







universal

Features

- Excellent fragment retention in the event of breakage
- The protective FEP coating meets the IEC60068-2-75 Pendulum Hammer test (5 Joule) and the 4m drop test, demonstrating excellent glass retention in the event of accidental lamp breakage
- The 97% UV-A transmission of FEP maintains maximum insect attraction
- No discolouration or yellowing of shatter resistant coating during the entire lamp life (> 10,000 hrs)
- The FEP material does not degrade during life. Versions employing PET coatings become brittle, and may not contain fragments. PET is also less transparent for UV-radiation
- The coating withstands up to 200ºC in both open and enclosed IP65 fittings.
- The melting temperature is 260ºC
- Meets all necessary regulations for resistance to heat and fire, and does not support combustion when exposed to naked flame or excessive heat. It passes the 850ºC Glow Wire Test
- Satisfies the requirements of the International Food Standard (IFS 2004)
- FDA approved, in compliance with 21CFR177.1550 Regulatory Compliance Status
- Satisfies the requirements of the BRC (British Retail Consortium) leading supermarkets global standard. In paragraph 3.2.2.6.2 it states "All bulbs and strip lights, including those on electric fly killer units, where they constitute a risk to products, shall be protected by shatterproof plastic diffusers, sleeve covers or with a shatterproof protective coating"

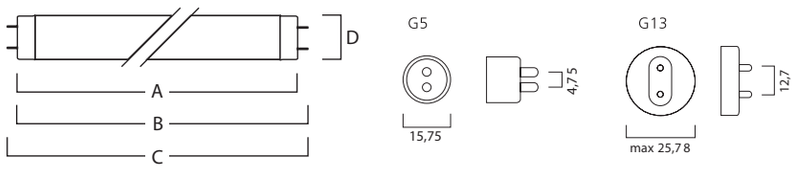
Applications

- Insect attraction in restaurants, kitchens, food shops, supermarkets
- Food processing plants
- Pharmaceutical industry
- The risk of glass and mercury contamination is strongly decreased
- Help to avoid injury and loss of production time

Blacklight BL368 FEP Toughcoat™

Code	Description	Watt (W)	Volt (V)	Current (A)	Lamp Colour	Cap	Packing Qty
0001648	F8W T5 BL368 Toughcoat™	8	56	0.145	BL368	G5	25
0001649	F11W T5 BL368 Toughcoat™	11	34	0.350	BL368	G5	25
0001650	F15W T5 BL368 Toughcoat™	15	44	0.310	BL368	G5	25
0000124	F15W T8 BL 368 Toughcoat™	15	55	0.310	BL368	G13	25
0001664	F18W T8 BL368 Toughcoat 24"	18	59	0.36	BL368	G13	25
0001651	F25W T8 BL 368 Toughcoat™ 18"	25	38	0.600	BL368	G13	25
0001652	F30W T8 BL 368 Toughcoat™ 24"	30	96	0.365	BL368	G13	25
0001665	F36W T8 BL368 Toughcoat 24"	36	50	0.85	BL368	G13	25
0000125	F20W T12 BL 368 Toughcoat™ 24"	20	57	0.370	BL368	G13	25
0000126	F40W T12 BL 368 Toughcoat™ 24"	40	47	0.880	BL368	G13	25
0001630	F40W T12 BL 368 48" Toughcoat™ 48"	40	103	0.430	BL368	G13	25

	A max	B min	B max	C max	D nom
8WT5	288.3	293.0	295.4	302.5	16
15WT8	437.4	442.1	444.5	451.6	26
15WT5	288.3	293.0	295.4	302.5	16
15WT8	437.4	442.1	444.5	451.6	26
18W 24"	589.8	594.5	596.9	604.0	26
20W/2ft-24"	589.8	594.5	596.9	604.0	38
25WT8 18"	437,4	442,1	444,5	451,6	26
30WT8	894,6	899,3	901,7	908,8	26
36W 24"	589.8	594.5	596.9	604.0	26
40W/2ft-24"	589.8	594.5	596.9	604.0	38
40W/4ft-48"	1199.4	1204.1	1206.5	1213.6	38



Dimensions (mm)



universal

Features

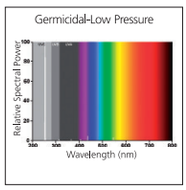
- These lamps consist of a tubular glass envelope and emit more than 85% of their energy in the UV-C ultra violet radiation with a peak at 253.7nm for germicidal action
- Shape, electrical characteristics and lighting circuits are similar to general fluorescent lamps
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°
- All lamps are Ozone free
- A protective coating on the inside of the lamp limits the depreciation of the UV-C output

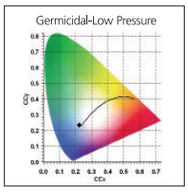
Applications

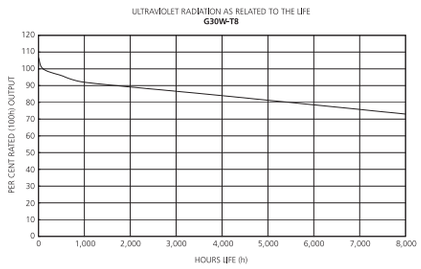
- Residential drinking water units
- Stand alone air purifiers
- Wall mounted air purification units
- Ponds & Aquaria

Directions for use

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



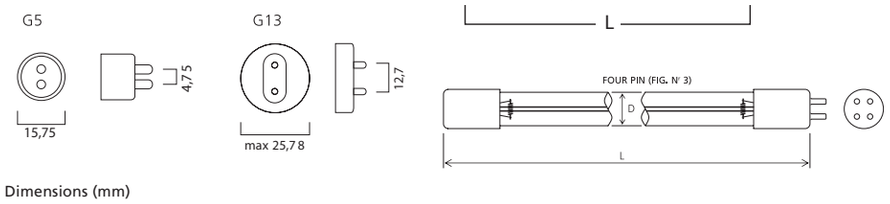




	G4T5 4W	G6T5 6W	G8T5 8W	G11T5 11W
L	136	212	288	212
D	16	16	16	16
	G16T5 16W	G10T8 10W	G15T8 15W	G25T8 25W
L	288	330	437	436
D	16	26	26	26
	G30T8 30W	G36T8 36W	G55T8 55W	G58T8 58W
L	894	1198	893	1500
D	26	26	26	26

Germicidal Linear

Code	Description	Watt (W)	Volt (V)	Current (A)	UV Output at 25°	Cap	Average Rated Life (Hrs)	Packing Qty
0002328	G4W T5	4	30	0.162	0.8	G5	6000	50
0002216	G6W T5	6	42	0.160	1.7	G5	6000	50
0000501	G8W T5	8	56	0.145	2.5	G5	6000	24
0000507	G11W T5 HO	11	37	0.330	2.2	G5	8000	50
0025016	G11W T5 HO 4-pin	11	37	0.330	2.2	Four pin	8000	45
0025017	G16W T5 HO 4-pin	16	50	0.400	3.9	Four Pin	8000	45
0000508	G16W T5 HO	16	50	0.350	3.2	G5	8000	24
0002482	G10W T8	10	46	0.230	2.6	G13	6000	10
0000502	G15W T8	15	55	0.310	4.9	G13	8000	24
9000526	G25W T8	25	46	0.600	6.9	G13	8000	24
0000503	G30W T8	30	96	0.365	13.4	G13	8000	24
0000504	G36W T8	36	103	0.430	15.5	G13	8000	20
0002208	G55W T8	55	83	0.770	18.0	G13	8000	96
0002217	G58W T8	58	110	0.670	20.0	G13	5000	12



Dimensions (mm)



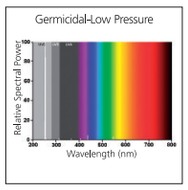


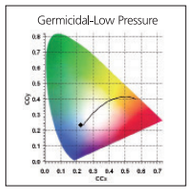


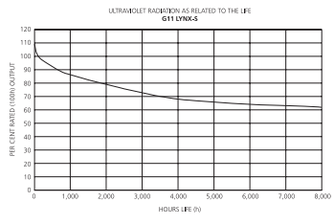
Features

- These lamps have all the benefits of linear germicidal lamps, but have also a very compact design. This allows for compact fixture design. As they are single ended, replacement is very easy
- The HO (High Output) lamps are most efficient in air purification installations, as they are wind chill corrected
- Shape, electrical characteristics and lighting circuits are similar to general lighting compact fluorescent lamps
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°
- All lamps are Ozone free
- A protective coating on the inside of the lamp limits the depreciation of the UV-C output









Applications

- Residential drinking water
- Pond water
- Induct air treatment units
- Stand alone air purifiers

Directions for Use

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

Germicidal Compact

Code	Description	Watt (W)	Volt (V)	Current (A)	UV Output at 25°	Cap	Average Rated Life (Hrs)	Packing Qty
0025046	G5W Lynx-S	5	34	0.180	1.1	G23	8000	50
0025040	G7W Lynx-S	7	47	0.175	1.5	G23	8000	50
0025050	G9W Lynx-S	9	60	0.170	2.4	G23	8000	
0025012	G9W Lynx-SE 4-pin	9	59	0.170	2.4	2G7	8000	50
0025051	G11W Lynx-S	11	89	0.160	3.6	G23	8000	50
0025047	G13W Lynx-S	13	60	0.290	3.4	GX23	8000	50
0025049	G18W Lynx-L	18	60	0.370	5.8	2G11	8000	25
0025041	G24W Lynx-L	24	87	0.350	7.0	2G11	8000	
0025048	G36W Lynx-L	36	105	0.440	12.0	2G11	8000	25
0025045	G55W Lynx-L	55	110	0.500	18.0	2G11	8000	25
0025013	G35W Lynx-L HO	35	40	0.850	11.0	2G11	9000	25
0025014	G60W Lynx-L HO	60	118	0.670	18.0	2G11	9000	25
0025015	G95W Lynx-L HO	95	100	0.950	33.0	2G11	9000	25

** When used with electronic ballast 25KHz HF*

Dimmensions (mm)

Code	Fig No	A	B
0025046	2	75	28
0025040	2	115	28
0025050	2	145	28
0025012	3	145	28
0025051	2	214	28
0025047	2	164	28
0025049	1	217	40
0025041	1	317	40
0025048	1	410	40
0025045	1	530	40
0025013	1	217	40
0025014	1	410	40
0025015	1	530	40

FIG. N° 1

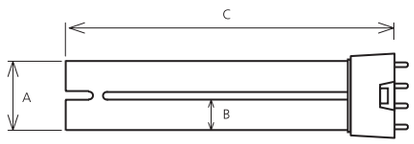
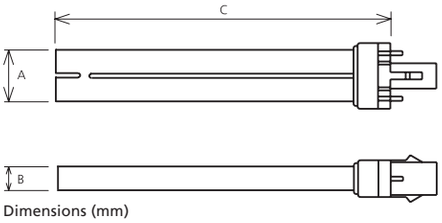
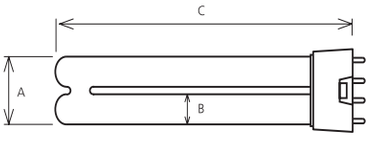


FIG. N° 2



Dimensions (mm)

FIG. N° 3



Germicidal Linear T5 Long



universal

Features

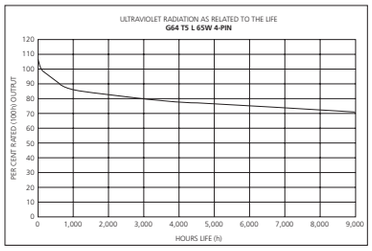
- These lamps have a smaller diameter than the conventional, linear T8 lamps
- Lamps consist of a tubular glass envelope and emit more than 85% of their energy in the UV-C ultraviolet radiation with a peak at 253.7nm for germicidal action
- They exist in single pin or with four pins at one end for easy handling
- The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°
- In air purification installations the HO (High Output) versions are most efficient, as they are wind chill corrected
- All lamps are Ozone free
- A protective coating on the inside of the lamp limits the depreciation of the UV-C output

Applications

- Municipal water treatment systems
- Swimming pool applications
- Residential drinking water systems
- Air treatment units

Directions for use

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



Germicidal Linear T5 Long

Code	Description	Watt (W)	Volt (V)	Current (A)	UV-C output (W) at 25°	UV µW/cm² at 1m	Cap	Average Rated Life (Hrs)	Packing Qty
0025005	G36 T5 L 40W 4-Pin *	39	115	0.425	12	125	Four pin	9000	10
0025006	G64 T5 L 65W 4-Pin *	65	250	0.425	12	125	Four pin	9000	24
0025009	G36 T5 L 40W Single Pin *	39	115	0.425	12	125	Single Pin	9000	10
0025010	G64 T5 L 65W Single Pin *	65	250	0.425	25	260	Single Pin	9000	24

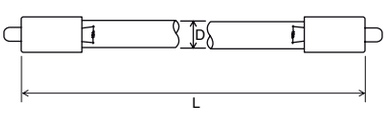
** When used with conventional magnetic ballast 50 Hz*

GERMICIDAL LAMPS APPLICATION TABLE

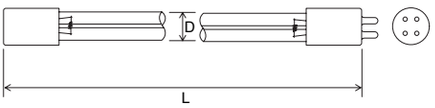
	T5 Short	T8 linear	T5 Long	Lynx-S	Lynx-L
Air					
Upper air		•	•	•	•
Airconditioning		•	•	•	•
Cooling coils		•	•		•
Dish dryer		•			
Water					
Municipal drinking water			•	•	
Municipal waste water			•		
Residential drinking water	•				•
Ultra pure water			•		
Process water			•		
Swimming pools & Spas			•		
Agricultural recycling			•		•
Ponds	•	•		•	•
Aquaria	•			•	
Surfaces					
Food processing			•		
Packaging			•		



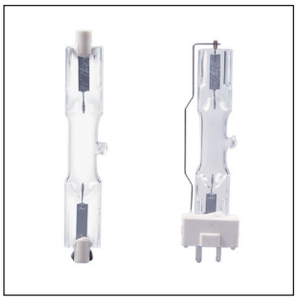
Single Pin



Four Pin



Dimensions (mm)



Features

- Germicidal VHO – lamps consist of a double ended quartz discharge tube filled with mercury.
- Power concentration is 120 Watts per cm of arc length (low pressure tubes are < 1W per cm).
- Extremely high UV-C concentration levels are possible.
- Lamps have a self cleaning halogen feature which results in improved UV-C maintenance.
- Forced air ventilation is required to remove the ozone produced with VHO lamps

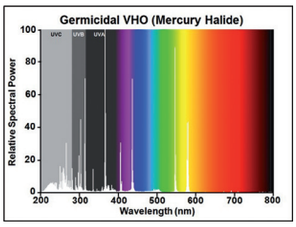


Applications

- Used in a wide range of photochemical processes
- Label printing
- Disinfection of municipal waste water
- Curing of lacquers, paints and inks
- In combination with black glass filters for fluorescence excitation
- Artificial material aging
- Exposure of diazo film material and print masters

Directions for use

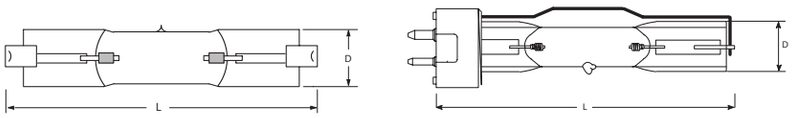
- The radiation from these lamps is very harmful to eyes and skin. Always protect your eyes and skin against radiation
- The lamps may only be operated in enclosed systems.
- Cannot be used for general lighting purposes
- Max. permissible bulb temperature is 950ÅãC
- Max. permissible pinch temperature is 350ÅãC
- Can be used with a standard mercury ballast and ignitor



Germicidal High Pressure VHO

Code	Description	Watt (W)	Volt (V)	Current (A)	UV-A µW/cm² at 1m	UV-B µW/cm² at 1m	UV-C µW/cm² at 1m	Cap	Life at > 50% UV-ouput (Hrs)	Packing Qty
0024206	G4/120 SE VHO	400	125	3.5	300	250	400	GY9.5	2000	10
0024207	G4/120 DE VHO	400	125	3.5	300	250	400	R7s	2000	10





Dimensions (mm)

Airfield Capsule Pk30d base



Features

- The pre-focus base allows for optimal alignment of the filament
- Very easy replacement, no adjustment necessary
- Cable connections reduce the risk of pinch seal over-heating and molybdenum foil oxidation
- Current controlled (6,6A)
- Constant colour temperature
- Dimmable operation possible

Applications

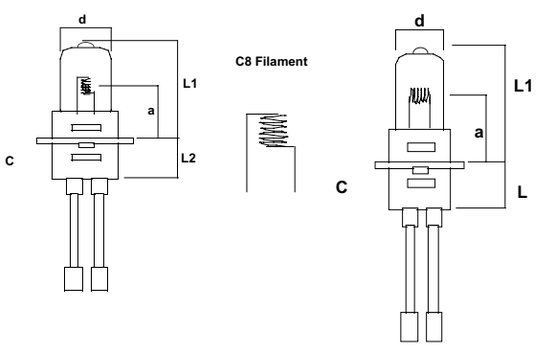
- Taxiway lights
- Approach lights
- Runway edge lights
- Precision Approach Path Indicator (PAPI)

Directions For Use

- Bulb should never be touched with bare fingers

Airfield Capsule Pk30d base

Code	Description	Watt (W)	Current (A)	Dia d (mm)	Luminous Flux (lm)	Average Rated Life (Hrs)	Filament Type	Connector Type	Packing Qty
0021570	45W 6.6A Pk30d Ma	45	6.6	13.5	800	1000	C8	Male	50
0021571	45W 6.6A Pk30d Fem	45	6.6	13.5	800	1000	C8	Female	50
0021572	45W 6.6A Pk30d Ma	45	6.6	13.5	800	1000	C8	Male	50
0021573	45W 6.6A Pk30d Fem	45	6.6	13.5	800	1000	C8	Female	50
0021574	45W 6.6A Pk30d Ma	45	6.6	13.5	800	1000	C8	Male	50
0021575	65W 6.6A Pk30d Fem	65	6.6	13.5	1450	1000	CBAR-6	Female	50
0021576	65W 6.6A Pk30d Ma	65	6.6	13.5	1450	1000	CBAR-6	Male	50
0021577	100W 6.6A Pk30d Fem	100	6.6	13.5	2700	1000	CBAR-6	Female	50
0021578	100W 6.6A Pk30d Ma	100	6.6	13.5	2700	1000	CBAR-6	Male	50
0021579	100W 6.6A Pk30d Fem	100	6.6	13.5	2700	1000	CBAR-6	Female	50
0021580	100W 6.6A Pk30d Ma	100	6.6	13.5	2700	1000	CBAR-6	Male	50
0021581	150W 6.6A Pk30d Fem	150	6.6	13.5	3600	1000	CBAR-6	Female	50
0021582	150W 6.6A Pk30d Ma	150	6.6	13.5	3600	1000	CBAR-6	Male	50
0021583	200W 6.6A Pk30d Fem	200	6.6	13.5	4800	1000	CC6	Female	50
0021584	200W 6.6A Pk30d Ma	200	6.6	13.5	4800	1000	CC6	Male	50



Dimensions (mm)



L2513 G6.35



L2502 GZ9.5

Features

- Current controlled (6.0, 6.6A & 8.33A) lamps
- Long reliable through life performance
- Complete interchangeability for existing capsule types
- Constant colour temperature
- Dimming possible
- Infra red radiation output allowing operation in toughest winter conditions

Applications

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

Directions For Use

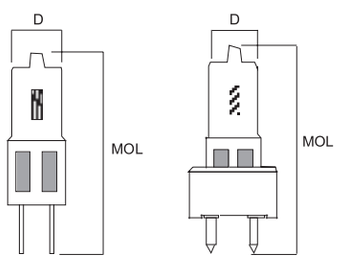
- Bulb should never be touched with bare fingers

Airfield Capsule Lamps

Code	Description	Watt (W)	Current (A)	Cap	Light Output (lm)	Filament Type	Average Rated Life (Hrs)	Packing Qty
0022213	L2510 36W 6.0A J1/59	36	6	G6.35	610	C-8	1200	50
0022214	L2511 45W 6.6A J1/57	45	6.6	G6.35	960	C-8	1200	50
0022212	L2513 100W 6.6A J1/58	100	6.6	G6.35	2300	FC-6	1200	50
0021491	L2518 100W 8.33A J1/66	100	8.33	G6.35	2300	C-6	1200	50
0022211	L2514 200W 6.6A J1/39	200	6.6	G6.35	4700	FC-6	1200	50
0021757	L2500 30W 6.6A EXL	30	6.6	GZ9.5	400	C-8	1000	50
0021686	L2501 45W 6.6A EXM	45	6.6	GZ9.5	400	C-8	1000	50
0024529	L2502 150W 6.6A EWR/1	150	6.6	GZ9.5	3600	FC-6	1000	50
0021683	L2503 175W 6.6A	175	6.6	GZ9.5	4700	C-8	1000	50

Dimmensions (mm)

Code	MOL	LCL	DIA
0022213	45.0	33	11.0
0022214	45.0	33	11.0
0022212	47.0	33	13.5
0021491	47.0	33	13.5
0022211	47.0	33	13.5
0021757	44.0	25,4	11.4
0021686	44.0	25,4	11.4
0024529	57.0	39,1	13.5
0021683	57.0	39,1	13.5



Dimensions (mm)

Airfield Reflector Lamps MR16





Features

- Current controlled (6.0, 6.6A) lamps
- Temperature resistant hard coated reflector
- Optimum alignment in the reflector
- High luminaire efficiency
- Constant colour temperature (3000K) over life
- Long life (1500hrs)
- Infra red radiation output
- Cable connections reduce the risk of pinch seal overheating and molybdenum foil oxidation

Applications

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

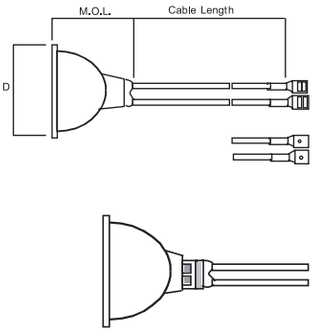
DIRECTIONS FOR USE

- Bulb should never be touched with bare fingers

Airfield Reflector Lamps MR16

Code	Description	Watt (W)	Current (A)	Connector	Connector Type	Average Rated Life (Hrs)	Peak Intensity (cd)	Beam Angle 50% (°)	Packing Qty
0021484	L2372 36W 6A MR16	36	6	2	Male	1500	24,000	5	10
0021496	L2358 48W 6.6A MR16	48	6.6	1	Female	1500	22,000	5	10
0021489	L2371 48W 6.6A MR16	48	6.6	1	Female	1500	11,000	13	10
0021488	L2375 60W 6.6A MR16	60	6.6	1	Female	1500	11,000	15	10
0021498	L2368 105W 6.6A MR16	105	6.6	1	Female	1000	33,000	10	10





N°1 = Female
N°2 = Male

Dimensions (mm)



Features

- Lamps with very specific colour point (CCx: 0,319, CCy: 0,369 after 100 h) and colour temperature: 6000K
- Colour point responds to the International Airfield Standard
- Very long reliable through life performance
- High colour rendering: Ra 85

universal

Applications

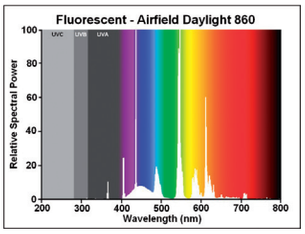
- Used in guidance signs to mark direction, destination and boundary

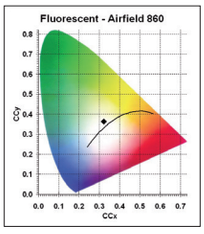
Directions For Use

- Lamp ambient temperature should not be lower than -30ºC
- Burning position: any

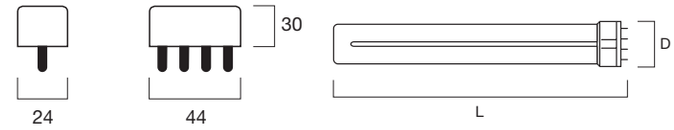
Airfield Lynx-L

Code	Description	Watt (W)	Current (A)	Operating Voltage	M.O.L.	D (mm)	Cap	Colour Temp (K)	CCX	CCy	Luminous Flux (lm)	Average Rated Life (Hrs)	Packing Qty
0025682	Lynx-L 24W 860 Airfield	24	345	50	320	40	2G11	6000	0,319	0,369	1700	15,000	10





2G11	24W
L	320
D	38



Dimensions (mm)

Traffic Signal Incandescent Ball



universal

Features

- Round (45mm) envelope
- Robust construction: the filament is held by extra supports to resist vibration
- Average rated life: 8000 hours
- Available in E27 and B22 base

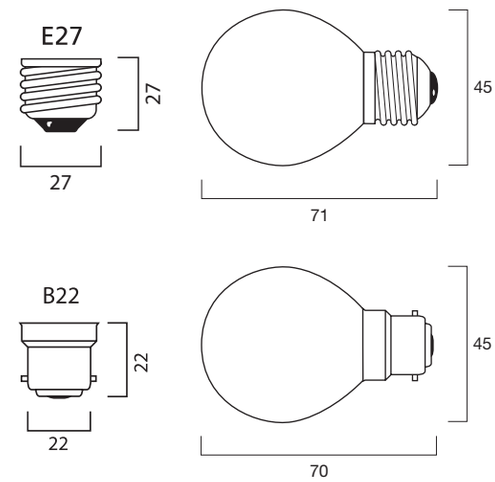
Applications

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

Traffic Signal Incandescent Ball

Code	Description	Finish	Watt (W)	Volt (V)	Cap	Average Rated Life (Hrs)	Rated Lumens	Packing Qty
0009873	25W 230V E27	Clear	25	230	E27	8000	150	100
0009869	25W 230V B22	Clear	25	230	B22	8000	150	100
0009893	40W 230V E27	Clear	40	230	E27	8000	320	100
0009891	40W 130V E27	Clear	40	130	E27	8000	390	100
0009894	40W 230V B22	Clear	40	230	B22	8000	320	100
0009895	40W 260V E27	Clear	40	260	E27	8000	260	100





Dimensions (mm)

Code	L	D	LCL
0009873	71	45	53
0009869	70	45	52
0009893	71	45	53
0009891	71	45	53
0009894	70	45	52
0009895	71	45	53





Features

- Mushroom shaped (50mm and 60mm) envelope
- Robust construction: the filament is held by extra supports to resist vibration
- Average rated life: 8000 hours
- Available in E27 and B22 base

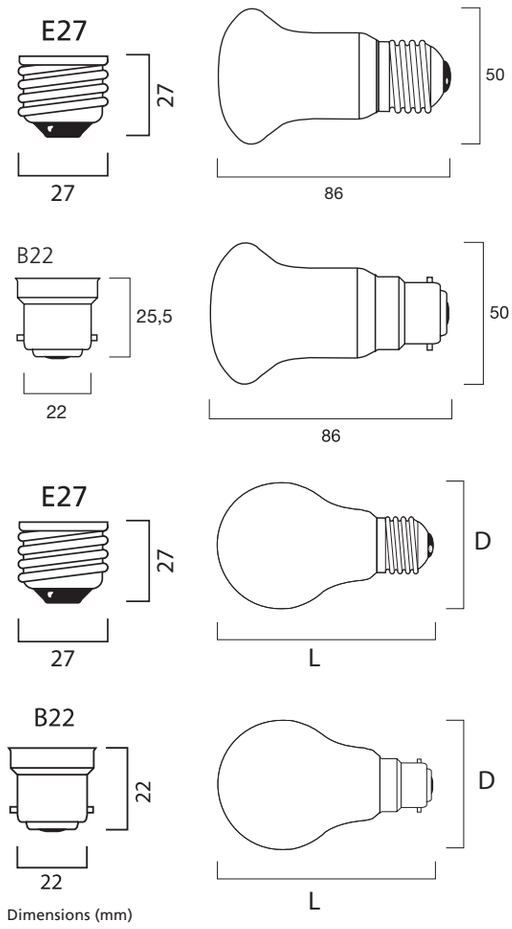
universal

Applications

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

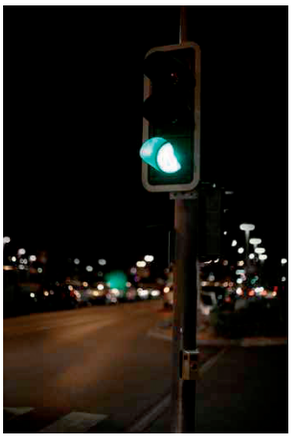
Traffic Signal Incandescent Mushroom

Code	Description	Finish	Watt (W)	Volt (V)	Cap	Shape	Average Rated Life (Hrs)	Rated Lumens	Packing Qty
0009718	55W 230V E27	Clear	55	130	E27	Mushroom	8000	465	100
0009716	55W 130V E27	Clear	55	130	E27	Mushroom	8000	545	100
0009719	55W 230V B22	Clear	55	230	B22	Mushroom	8000	465	100
0009720	60W 230V B22	Clear	60	230	B22	Mushroom	8000	510	100
0009753	70W 230V E27	Clear	70	230	E27	Mushroom	8000	645	100
0009752	70W 130V E27	Clear	70	130	E27	Mushroom	8000	755	100
0009749	70W 230V B22	Clear	70	230	B22	Mushroom	8000	645	100
0009754	100W 230V E27	Clear	100	230	E27	GLS	8000	1030	100
0009760	100W 230V B22	Clear	100	230	B22	GLS	8000	1030	20



Dimensions (mm)

Code	L	D
0009718	86	50
0009716	86	50
0009719	86	50
0009720	86	50
0009753	86	50
0009752	86	50
0009749	86	50
0009754	95	60
0009760	95	60



Infra Red Ruby Halogen lamps



Features

- Tubular envelope made from ruby red quartz (Rub Slim)
- Secondary outer envelope made from red quartz (Ruby Jacket)
- Transmits virtually all infrared while blocking most visible light
- Instant on-off capability

Applications

- Space heating of large rooms
- Outdoor heating of communal areas
- Energy efficient alternative to patio heaters

Ruby Red Halogen lamps

Code	Description	Watt (W)	Volt (V)	Cap	Burning Position	Finish	Colour Temp (K)	Average Rated Life (Hrs)	Packing Qty
0033016	IR 1000W Ruby SK15 235V	1000	235	SK15	Universal	Ruby Slim	2450	5000	10
0033017	IR 1200W Ruby SK15 235V	1200	235	SK15	Universal	Ruby Slim	2450	5000	10
0033018	IR 1500W Ruby SK15 235V	1500	235	SK15	Horizontal	Ruby Jacketed	2350	5000	10
0033019	IR 2000W Ruby SK15 235V	2000	235	SK15	Horizontal	Ruby Jacketed	2350	5000	10



Dimensions (mm)	1000W Fig.1	1200W Fig.1	1500W Fig.2	2000W Fig.3
A (Lamp Length)	353	353	346	346
B (Heat Length)	280	60	176	270
C (Diameter)	10.5	10.5	20.0	20.0
D (Cable X1)	230	230	230	340
E (Cable X2)	230	230	230	340
Cable Connection	Fork	Fork	Fork	Tab

Fig 1

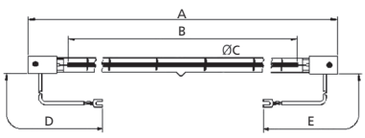


Fig 2

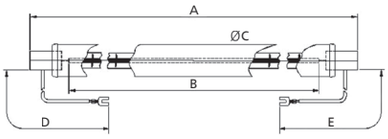
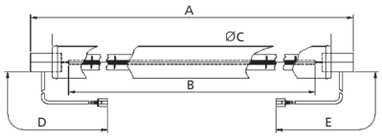


Fig 3



Dimensions (mm)



Features

- Tubular envelope made from transparent clear quartz
- Transmits the full spectrum of visible and infrared radiation
- Clear lamps are the most efficient for transmitting infrared energy
- Instant on-off capability

Applications

- The glare from the visible light component restricts these to industrial applications, eg Drying of paints in tunnels and automotive body shops
- Heating of plastics for PET bottle blowing
- High speed drying in paper production mills
- Drying of lacquers and printing inks
- Baking and curing of powder coatings
- Thermal sterilisation

Clear Quartz Halogen lamps

Code	Description	Watt (W)	Volt (V)	Cap	Burning Position	Finish	Colour Temp (K)	Average Rated Life (Hrs)	Packing Qty
0033020	IR 300W CL SK15 230V	300	230	SK15	Horizontal	Clear	2550	2000	50
0033021	IR 300W CL R7s 230V	300	230	R7s	Horizontal	Clear	2550	5000	50
0033022	IR 500W CL R SK15 240V	500	240	SK15	Horizontal	Reflector	2450	5000	10
0033023	IR 1000W CL R X 240V	1000	240	Metal strap X	Universal	Reflector	2450	5000	10
0033024	IR 1000W CL SK15 235V	1000	235	SK15	Universal	Clear	2400	5000	10
0033025	IR 1000W CL R SK15 235V	1000	235	SK15	Universal	Reflector	2400	5000	10
0033026	IR 1200W CL R SK15 235V	1200	235	SK15	Universal	Reflector	2600	5000	10
0033027	IR 2000W CL R SK15 235V	2000	235	SK15	Horizontal	Reflector	2700	5000	10

Dimensions (mm)

	300W SK15 Fig.6	300W R7s Fig,2	500W SK15 Fig.3	1000W RX Fig.4	1000W SK15 Fig.1	1000W R SK15 Fig.3	1200W SK15 Fig.5	2000W SK15 Fig.3
A (Lamp Length)	120	117.6	216	370	353	353	222	353
B (Heat Length)	60	60	176	270	280	280	157	270
C (Diameter)	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
D (Cable X1)	140	N/A	230	N/A	230	230	140	230
E (Cable X2)	140	N/A	230	N/A	230	230	140	230
Cable Connection	Splice	N/A	Fork	N/A	Fork	Fork	Fork	Fork

Fig 1

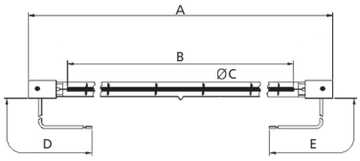


Fig 2

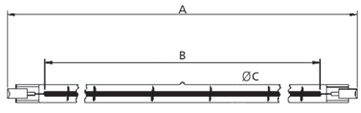


Fig 3

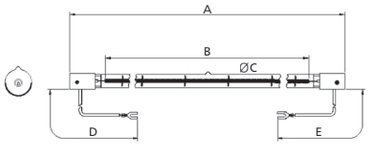


Fig 4

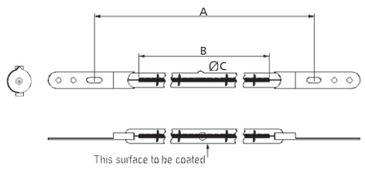


Fig 5

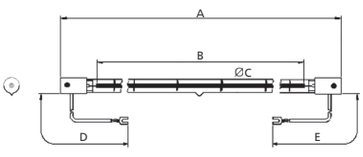
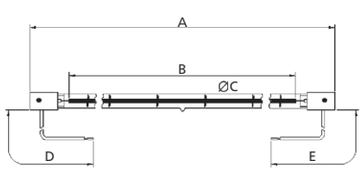
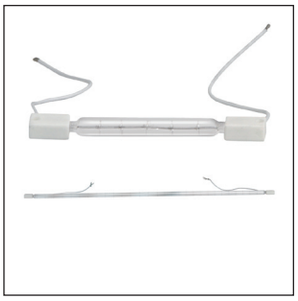


Fig 6



Dimensions (mm)

Infra Red Cabin Halogen lamps



Features

- Tubular envelope made from translucent (satin) or clear quartz
- Emits both visible light and infra red radiation
- Rapid on-off capability
- No pre heating of the cabin needed

Applications

- Personal care in infra-red cabins
- Optimised spectrum to penetrate deeper into the skin for more efficient heat dissipation
- Creates a softer and more pleasant heating sensation than regular lamps

Infra Red Cabin Halogen lamps

Code	Description	Watt (W)	Volt (V)	Cap	Burning Position	Finish	Colour Temp (K)	Average Rated Life (Hrs)	Packing Qty
0033028	IR 350W CL R7s 235V	350	235	R7s	Horizontal	Clear	1750	5000	80
0033040	IR 350W TL SK15 235V 550mm	350	235	SK15	Horizontal	Translucent	1750	5000	20
0033029	IR 500W TL SK15 235V 700mm	500	235	SK15	Horizontal	Translucent	1750	5000	20
0033030	IR 500W TL SK15 235V 550mm	500	235	SK15	Horizontal	Translucent	1750	5000	20
0033031	IR 750W CL SK15 235V	750	235	SK15	Horizontal	Clear	2000	5000	20
0033032	IR 750W TL SK15 235V	750	235	SK15	Horizontal	Translucent	1750	5000	20
0033033	IR 750W CL SK15 235V	750	235	SK15	Horizontal	Clear	1750	5000	20
0033034	IR 1300W CL SK15 235V	1300	235	SK15	Horizontal	Clear	2000	5000	20

Dimensions (mm)

	350W R7s Fig.6	350W SK15 Fig,2	500W SK15 700mm Fig.3	500W SK15 550mm Fig.4	750W Fig.1	1300W Fig.3
A (Lamp Length)	185.7	628.5	787.5	628.5	787.5	787.5
B (Heat Length)	115	550	700	550	700	700
C (Diameter)	10.0	11.0	11.0	11.0	11.0	11.0
D (Cable X1)	N/A	1200	1200	1200	1200	1200
E (Cable X2)	N/A	230	230	230	230	230
Cable Connection	N/A	Splice	Splice	Splice	Splice	Fork

Fig 1

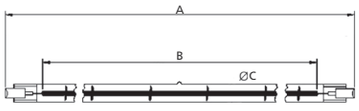


Fig 2

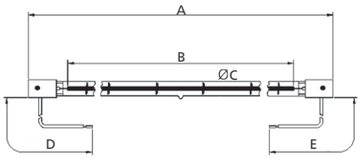
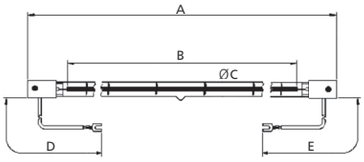


Fig 3



Dimensions (mm)



Features

- Tubular quartz envelope with gold dichroic coating
- Blocks more light than Ruby quartz types, for lower glare
- Advanced vacuum-sputtered coating won't crack or peel
- Coating extends right over the tip-off area – no light leaks

Applications

- Gradually replacing ruby quartz types where reduced glare is desirable
- Creates comfort zones in the outdoor cold, ideal for patios, restaurants and cafés
- Efficient spaceheating in large buildings e.g. churches, halls, warehouses, garages, stadiums, exhibition halls etc
- Glare free de-icing of pedestrian walkways

Gold Filter Halogen lamps

Code	Description	Watt (W)	Volt (V)	Cap	Burning Position	Finish	Average Rated Life (Hrs)	Packing Qty
0033035	IR 1000W Gold X 240V	1000	240	Metal strap X	Universal	Gold plated	5000	10
0033036	IR 1300W Gold R7S 240V	1300	240	R7s	Universal	Gold plated	1000	100
0033037	IR 1500W Gold SK15 240V	1500	240	SK15	Horizontal	Gold plated	5000	10
0033038	IR 1500W Gold SK15 120V	1500	120	SK15	Horizontal	Gold plated	5000	10
0033039	IR 2000W Gold SK15 240V	2000	240	SK15	Horizontal	Gold plated	5000	10

Dimensions (mm)	1000W Fig.1	1300W Fig.2	1500W Fig.3	1500W 120V Fig.4	2000W Fig.5
A (Lamp Length)	370	254	353	353	353
B (Heat Length)	280	180	280	280	280
C (Diameter)	12.5	12.5	12.0	12.0	12.0
D (Cable X1)	N/A	N/A	600	300	600
E (Cable X2)	N/A	N/A	600	300	600
Cable Connection	N/A	N/A	Tab	Fork	Tab



Fig 1

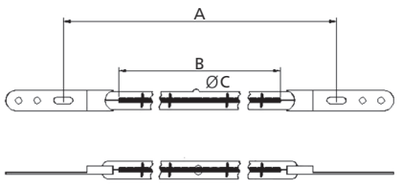


Fig 2

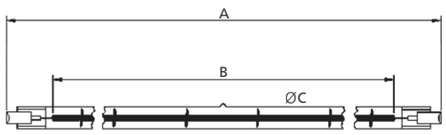


Fig 3

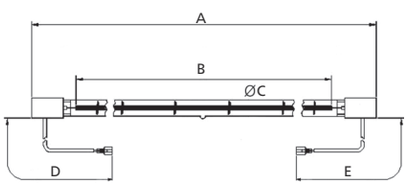
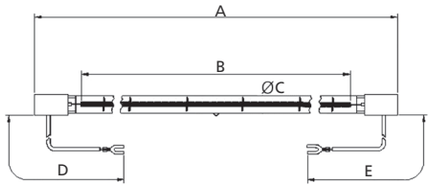


Fig 4



Dimensions (mm)





Features

- Integral reflector facilities simple and economical installations
- Pre-focussed optics deliver intensely controlled radiation
- PAR38 lamps have a pressed hard glass bulb with precision-optical lens
- R125 and R95 lamps have a blown hard glass bulb for low cost applications
- E27 cap allows use in almost any suitable lampholder
- Instant heat after switch-on
- All R125-lamps have a mechanical fitted base in order to avoid loose base problems

Applications

- Animal husbandry and other agricultural uses
- Food heating in the catering trade
- Wellness and medical applications for muscle relaxation
- Creates a pleasant warmth in bathroom drying areas
- Various industrial uses for drying, heating, vulcanising, distilling, softening, melting, pasteurising, polymerising, evaporating, gelatinising etc

Infra Red Reflector Incandescent lamps

Code	Description	Watt (W)	Volt (V)	Cap	Finish	Average Rated Life (Hrs)	Packing Qty
0033004	IR R95 100W	100	230	E27	Ruby	5000	20
0033009	IR R125 150W	150	240	E27	Ruby	5000	12
0033010	IR R125 175W	175	240	E27	Ruby	5000	12
0033011	IR R125 250W	250	240	E27	Ruby	5000	12
0033012	IR R125 300W	300	240	E27	Ruby	5000	12
0033013	IR R125 375W	375	240	E27	Ruby	5000	12
0033014	IR PAR38 150W	150	240	E27	Ruby	5000	12
0033015	IR PAR38 175W	175	240	E27	Ruby	5000	12



R95 Lamp Dimensions (mm)

	Fig.1
L	130
D	95

R125 Lamp Dimensions (mm)

	Fig.1
L	185
D	126

PAR38 Lamp Dimensions (mm)

	Fig.2
L	135
D	122

Fig 1

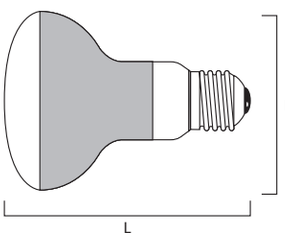
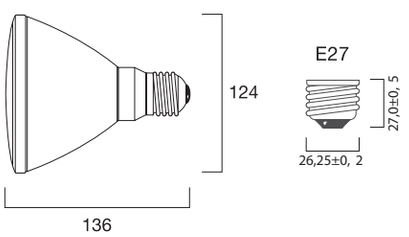


Fig 2



Dimensions (mm)



Features

- Full-spectrum high colour rendering T8 and T5 fluorescent lamp
- Colour rendering: Ra98/Class 1A
- Colour temperature of 6500K (daylight characteristic)

universal

Applications

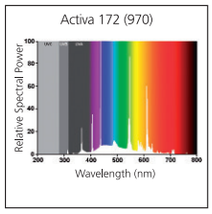
- For all applications where natural colour rendering is required
- Supports the treatment of Seasonal Affective Disorder (Winter Depression) SAD

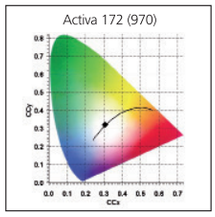
Activa-Seasonal Affective Disorder (SAD) T5

Code	Description	Watt (W)	Volt (V)	Current (mA)	CRI Group	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0002240	FHE 14W/T5/Activa	14	86	165	1	G5	6500	1090	25
0002241	FHE 28W/T5/Activa	28	166	170	1	G5	6500	2400	25
0002242	FHE 35W/T5/Activa	35	205	175	1	G5	6500	3000	25
0002243	FHO 54W/T5/Activa	54	120	455	1	G5	6500	4300	25

Activa-Seasonal Affective Disorder (SAD) T8

Code	Description	Watt (W)	Volt (V)	Current (mA)	CRI Group	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0002218	F18W/T8/ACTIVA	18	57	370	1A	G13	6500	1000	25
0002219	F36W/T8/ACTIVA	36	103	430	1A	G13	6500	2300	25
0002220	F58W/T8/ACTIVA	58	110	670	1A	G13	6500	3700	25
0002188	F70W/T8/ACTIVA	70	128	700	1A	G13	6500	4600	25

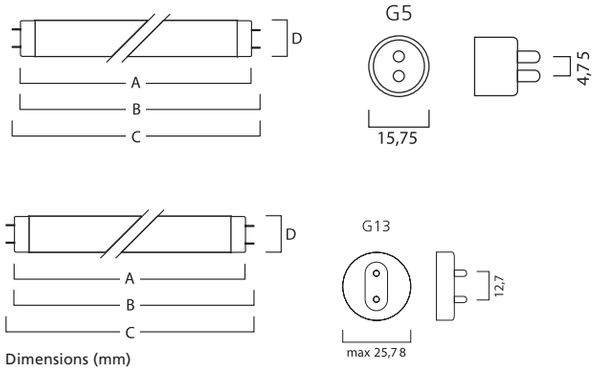






T5	A max	B min	B max	C max	D nom
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16

T8	A max	B min	B max	C max	D nom
18W	590	595	597	604	26
36W	1199	1204	1207	1214	26
58W	1500	1505	1507	1514	26
70W	1764	1769	1771	1778	26



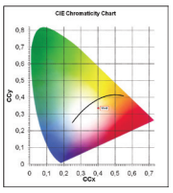
Dimensions (mm)

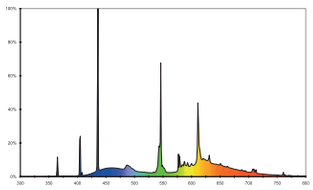


T8



T8





- Features a specially tailored spectrum that complements the natural colours of meats
- Illuminates meat and charcuterie in their optimum colours for an irresistible presentation
- The truthful colour rendering does not disturb the natural colours of the products
- Manufactured in compliance with the DIN 10504 standard
- Available in Toughcoat–version (shatter proof). The protective FEP coating meets the IEC600682-75 pendulum hammer test (5 Joule) and 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage

universal

foodstar Meat - Fluorescent

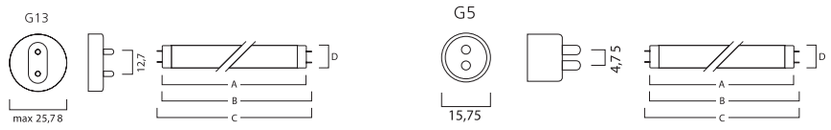
Code	Description	Watt (W)	Volt (V)	Current (mA)	Length (mm)	CRI	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0001854	FHE 14W T5 176 FoodStar Meat	14	86	0.165	549	2A	G5	3000	650	25
0001819	FHE 21W T5 176 FoodStar Meat	21	126	0.165	849	2A	G5	3000	1050	25
0001820	FHE 28W T5 176 FoodStar Meat	28	166	0.170	1449	2A	G5	3000	1500	25
0001821	FHE 35W T5 176 FoodStar Meat	35	205	0.175	1449	2A	G5	3000	1850	25
0001855	F18W T8 176 FoodStar Meat	18	57	0.370	590	2A	G13	3000	700	25
0001856	F30W T8 176 FoodStar Meat	30	96	0.365	895	2A	G13	3000	1250	25
0001816	F36W T8 176 FoodStar Meat	36	103	0.430	1200	2A	G13	3000	1800	25
0001817	F36W T8 1M 176 FoodStar Meat	36	80	0.560	970	2A	G13	3000	1600	25
0001818	F58W T8 176 FoodStar Meat	58	110	0.670	1500	2A	G13	3000	2850	25
0001857	F70W T8 176 FoodStar Meat	70	128	0.700	1764	2A	G13	3000	3250	25

foodstar Meat - Fluorescent Toughcoat™

Code	Description	Watt (W)	Volt (V)	Current (mA)	Length (mm)	CRI	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0001787	FHE 14W T5 176 FoodStar Meat TC	14	86	0.165	549	2A	G5	3000	650	25
0001788	FHE 21W T5 176 FoodStar Meat TC	21	126	0.165	849	2A	G5	3000	1050	25
0001789	FHE 28W T5 176 FoodStar Meat TC	28	166	0.170	1149	2A	G5	3000	1500	25
0001790	FHE 35W T5 176 FoodStar Meat TC	35	205	0.175	1449	2A	G5	3000	1850	25
0001791	F18W T8 176 FoodStar Meat TC	18	57	0.370	590	2A	G13	3000	700	25
0001792	F30W T8 176 FoodStar Meat TC	30	96	0.365	895	2A	G13	3000	1250	25
0001793	F36W T8 176 FoodStar Meat TC	36	103	0.430	1200	2A	G13	3000	1800	25
0001794	F36W T8 1M 176 FoodStar Meat TC	36	80	0.560	970	2A	G13	3000	1600	25
0001795	F58W T8 176 FoodStar Meat TC	58	110	0.670	1500	2A	G13	3000	2850	25
0001796	F70W T8 176 FoodStar Meat TC	70	128	0.700	1764	2A	G13	3000	3250	25

T8	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
36W 1M	970.0	974.1	977.1	984.2	26
58W	1500.0	1504.7 1	507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26

T5	A max	B min	B max	C max	D nom
14W	549	553.7	556.1	563.2	16
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16



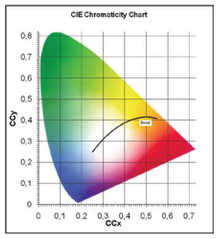
Dimensions (mm)

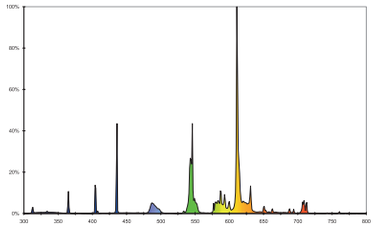


T8



T5





- FoodStar bread lamps have a radiation concentrated in the yellowish part of the spectrum
- Truthful colour rendering does not disturb the natural colours of the products
- Reduced warm up of the goods illuminated
- Available in Toughcoat–version (shatter proof). The protective FEP coating meets the IEC600682-75 pendulum hammer test (5 Joule) and 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage



foodstar Bread - Fluorescent

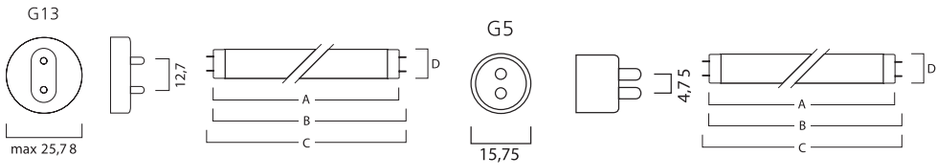
Code	Description	Watt (W)	Volt (V)	Current (mA)	Length (mm)	CRI	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0001858	FHE 21W T5 FoodStar Bread	21	126	0.165	849	2A	G5	2300	1650	25
0001859	FHE 28W T5 FoodStar Bread	28	166	0.170	1149	2A	G5	2300	2250	25
0001860	FHE 35W T5 FoodStar Bread	35	205	0.175	1449	2A	G5	2300	2850	25
0001861	F18W T8 FoodStar Bread	18	57	0.370	590	2A	G13	2300	1100	25
0001862	F30W T8 FoodStar Bread	30	96	0.365	895	2A	G13	2300	2100	25
0001863	F36W T8 FoodStar Bread	36	103	0.430	1200	2A	G13	2300	3000	25
0001864	F58W T8 FoodStar Bread	58	110	0.670	1500	2A	G13	2300	4500	25

foodstar Bread - Fluorescent Toughcoat™

Code	Description	Watt (W)	Volt (V)	Current (mA)	Length (mm)	CRI	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0001797	FHE 21W T5 FoodStar Bread TC	21	126	0.165	849	2A	G5	2300	1650	25
0001798	FHE 28W T5 FoodStar Bread TC	28	166	0.170	1149	2A	G5	2300	2250	25
0001799	FHE 35W T5 FoodStar Bread TC	35	205	0.175	1449	2A	G5	2300	2850	25
0001800	F18W T8 FoodStar Bread TC	18	57	0.370	590	2A	G13	2300	1100	25
0001801	F30W T8 FoodStar Bread TC	30	96	0.365	895	2A	G13	2300	2100	25
0001802	F36W T8 FoodStar Bread TC	36	103	0.430	1200	2A	G13	2300	3000	25
0001803	F58W T8 FoodStar Bread TC	58	110	0.670	1500	2A	G13	2300	4500	25

T8	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26

T5	A max	B min	B max	C max	D nom
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16



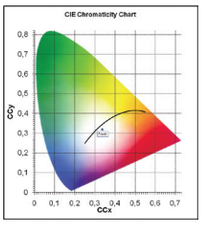
Dimensions (mm)

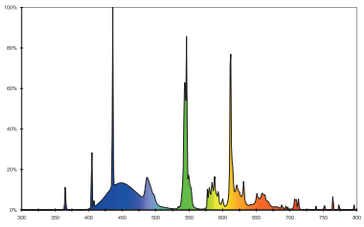


T8



T5





- Fruit and vegetables should reflect freshness. They need a higher colour temperature and cooler light and the display of fish needs it even more
- Truthful colour rendering does not disturb the natural colours of the products
- Reduced warm up of the goods illuminated
- Available in Toughcoat–version (shatter proof). The protective FEP coating meets the IEC600682-75 pendulum hammer test (5 Joule) and 4m drop test demonstrating excellent glass retention in the event of accidental lamp breakage

universal

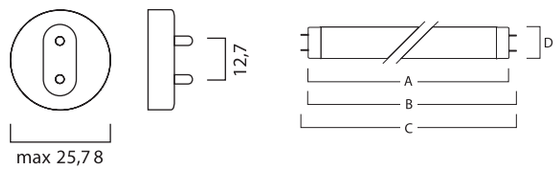
foodstar Fresh - Fluorescent

Code	Description	Watt (W)	Volt (V)	Current (mA)	Length (mm)	CRI	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0001865	FHE 21W T5 FoodStar Fresh	21	126	0.165	849	2A	G5	6400	1250	25
0001866	FHE 28W T5 FoodStar Fresh	28	166	0.170	1149	2A	G5	6400	1700	25
0001867	FHE 35W T5 FoodStar Fresh	35	205	0.175	1449	2A	G5	6400	2150	25
0001868	F36W T8 FoodStar Fresh	36	103	0.430	1200	2A	G13	6400	2350	25
0001869	F58W T8 FoodStar Fresh	58	110	0.670	1500	2A	G13	6400	3500	25

foodstar Fresh - Fluorescent Toughcoat™

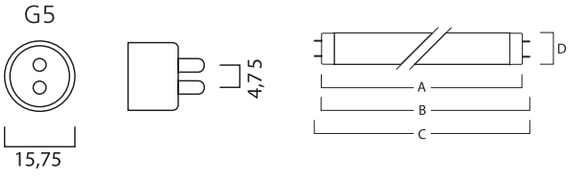
Code	Description	Watt (W)	Volt (V)	Current (mA)	Length (mm)	CRI	Cap	Colour Temp (K)	Luminous Flux (lm)	Packing Qty
0001804	FHE 21W T5 FoodStar Fresh TC	21	126	0.165	849	2A	G5	6400	1250	25
0001805	FHE 28W T5 FoodStar Fresh TC	28	166	0.170	1149	2A	G5	6400	1700	25
0001806	FHE 35W T5 FoodStar Fresh T	35	205	0.175	1449	2A	G5	6400	2150	25
0001807	F36W T8 FoodStar Fresh TC	36	103	0.430	1200	2A	G13	6400	2350	25
0001808	F58W T8 FoodStar Fresh TC	58	110	0.670	1500	2A	G13	6400	2350	25

G13



T8	A max	B min	B max	C max	D nom
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26

G5



T5	A max	B min	B max	C max	D nom
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16

Dimensions (mm)