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MANUFACTURER'S LAMP CROSS REFERENCE**Sylvania**

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

Osram

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

Philips

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

GE

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

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

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

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

**T5****T8****T12**

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

The improved technology of the **Luxline Plus** triphosphor coating guarantees excellent colour rendering, high luminous flux and high lamp efficacy (lumen per watt). The average life of up to 20000 hours allows longer replacement intervals which has a positive impact to your maintenance cost.

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



CIRCULAR



U-SHAPED



SPECIAL APPLICATIONS

T5 FHE Luxline Plus



G5



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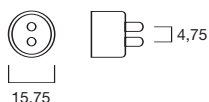
	A max	B min	B max	C max	D nom
14W	549	553.7	556.1	563.2	16
21W	849	853.7	856.1	863.2	16
28W	1149	1153.7	1156.1	1163.2	16
35W	1449	1453.7	1456.1	1463.2	16



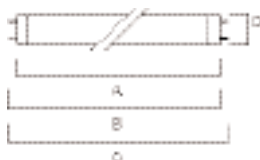
- T5 FHE Luxline Plus triphosphor lamp ideal solution for new, slim, aesthetic luminaires
- High lumen efficacy of up to 104 lm/W.
- Energy savings of up to 25% compared to a T8 tube
- For electronic ballast operation only (see Luxlinetronic ballast pages 135-137)
- Optimum luminous flux at an ambient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

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux nominal at 25°	Luminous Flux max at 34-38°	Packing Qty
T5 FHE Luxline Plus Warm White De Luxe (830)											
0002760	FHE 14W/830	14W	86V	0.165A	549mm	1B	G5	3000K	1230 lm	1350 lm	25
0002763	FHE 21W/830	21W	126V	0.165A	849mm	1B	G5	3000K	1910 lm	2100 lm	25
0002766	FHE 28W/830	28W	166V	0.170A	1149mm	1B	G5	3000K	2640 lm	2900 lm	25
0002769	FHE 35W/830	35W	205V	0.175A	1449mm	1B	G5	3000K	3320 lm	3650 lm	25
T5 FHE Luxline Plus White De Luxe (835)											
0002787	FHE 14W/835	14W	86V	0.165A	549mm	1B	G5	3500K	1230 lm	1350 lm	25
0002788	FHE 21W/835	21W	126V	0.165A	849mm	1B	G5	3500K	1910 lm	2100 lm	25
0002789	FHE 28W/835	28W	166V	0.170A	1149mm	1B	G5	3500K	2640 lm	2900 lm	25
0002790	FHE 35W/835	35W	205V	0.175A	1449mm	1B	G5	3500K	3320 lm	3650 lm	25
T5 FHE Luxline Plus Cool White De Luxe (840)											
0002761	FHE 14W/840	14W	86V	0.165A	549mm	1B	G5	4000K	1230 lm	1350 lm	25
0002764	FHE 21W/840	21W	126V	0.165A	849mm	1B	G5	4000K	1910 lm	2100 lm	25
0002767	FHE 28W/840	28W	166V	0.170A	1149mm	1B	G5	4000K	2640 lm	2900 lm	25
0002770	FHE 35W/840	35W	205V	0.175A	1449mm	1B	G5	4000K	3320 lm	3650 lm	25
T5 FHE Luxline Plus Daylight De Luxe (865)											
0002762	FHE 14W/865	14W	86V	0.165A	549mm	1B	G5	6500K	1140 lm	1250 lm	25
0002765	FHE 21W/865	21W	126V	0.165A	849mm	1B	G5	6500K	1775 lm	1950 lm	25
0002768	FHE 28W/865	28W	166V	0.170A	1149mm	1B	G5	6500K	2460 lm	2700 lm	25
0002771	FHE 35W/865	35W	205V	0.175A	1449mm	1B	G5	6500K	3095 lm	3400 lm	25

G5



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



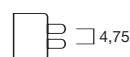
- The T5 FHO Luxline Plus triphosphor lamp is the ideal solution for indirect and direct lighting, i.e. industrial lighting systems with high ceilings
- For applications where a high luminous flux is required (up to 7000 lm per lamp)
- High colour rendering (Ra85/Class 1B)
- For electronic ballast operation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

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

T5 Standard / Luxline Plus



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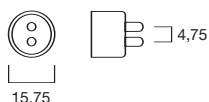
	A max	B min	B max	C max	D nom
4W	135.9	140.6	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
13W	516.9	521.6	524.0	531.1	16



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

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

G5



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



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



Code	Description	Nominal Watt	Lamp Volt	Single Lamp Current*	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux**	Packing Qty
T5 Emergency Warm White (29-530)										
0001901	F6W/29-530	6W	48V	0.040A	212mm	3	G5	3000K	–	200
0001906	F8W/29-530	8W	71V	0.040A	288mm	3	G5	3000K	–	200
T5 Emergency Cool White (33-640)										
0001900	F6W/33-640	6W	48V	0.040A	212mm	2B	G5	4000K	–	200
0001905	F8W/33-640	8W	71V	0.040A	288mm	2B	G5	4000K	–	200
T5 Emergency White (35-535)										
0001903	F6W/35-535	6W	48V	0.040A	212mm	3	G5	3500K	–	200
0001904	F8W/35-535	8W	71V	0.040A	288mm	3	G5	3500K	–	200
T5 Emergency Daylight (54-765)										
0001902	F6W/54-765	6W	48V	0.040A	212mm	2A	G5	6500K	–	200
0001908	F8W/54-765	8W	71V	0.040A	288mm	2A	G5	6500K	–	200
T5 Emergency Cool White De Luxe (840) Luxline Plus										
0001909	F6W/840	6W	48V	0.040A	212mm	1B	G5	4000K	–	200
0001907	F8W/840	8W	71V	0.040A	288mm	1B	G5	4000K	–	200

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

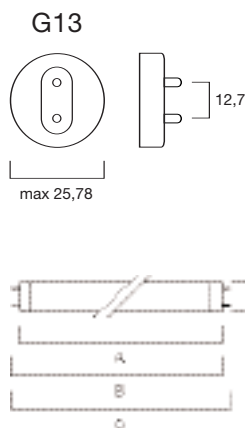
** Luminous Flux: Depends on individual ballast

T8 Standard

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

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

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



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

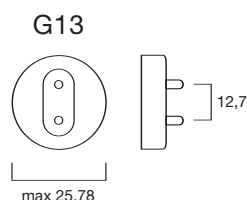


- Standard T8 fluorescent lamps with a wide range of special wattages in standard colours
- Colour rendering: Ra50-79/Class 3-2A
- Suitable for areas where people are not engaged in work for long periods of time (EN 12464-1)
- For new installations or replacements we recommend T8 Luxline Plus where possible



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

T8 Luxline Plus

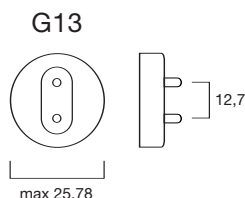


	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26



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

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 LuxLine Plus Homelight De Luxe (827)										
0001505	F18W/827	18W	57V	0.370A	590mm	1B	G13	2700K	1350 lm	25
0001514	F36W/827	36W	103V	0.430A	1200mm	1B	G13	2700K	3350 lm	25
0001535	F58W/827	58W	110V	0.670A	1500mm	1B	G13	2700K	5200 lm	25
T8 LuxLine Plus Warm White De Luxe (830)										
0001501	F18W/830	18W	57V	0.370A	590mm	1B	G13	3000K	1350 lm	25
0001511	F36W/830	36W	103V	0.430A	1200mm	1B	G13	3000K	3350 lm	25
0001531	F58W/830	58W	110V	0.670A	1500mm	1B	G13	3000K	5200 lm	25
0001093	F70W/830	70W	128V	0.700A	1764mm	1B	G13	3000K	6000 lm	25
T8 LuxLine Plus White De Luxe (835)										
0000580	F18W/835	18W	57V	0.370A	590mm	1B	G13	3500K	1350 lm	25
0000578	F36W/835	36W	103V	0.430A	1200mm	1B	G13	3500K	3350 lm	25
0001394	F58W/835	58W	110V	0.670A	1500mm	1B	G13	3500K	5200 lm	25
0000581	F70W/835	70W	128V	0.700A	1764mm	1B	G13	3500K	6000 lm	25
T8 LuxLine Plus Cool White De Luxe (840)										
0001500	F18W/840	18W	57V	0.370A	590mm	1B	G13	4000K	1350 lm	25
0001510	F36W/840	36W	103V	0.430A	1200mm	1B	G13	4000K	3350 lm	25
0001530	F58W/840	58W	110V	0.670A	1500mm	1B	G13	4000K	5200 lm	25
0001094	F70W/840	70W	128V	0.700A	1764mm	1B	G13	4000K	6000 lm	25
T8 LuxLine Plus Daylight De Luxe (850/865)										
0002960	F18W/850	18W	57V	0.370A	590mm	1B	G13	5000K	1300 lm	25
0001502	F18W/865	18W	57V	0.370A	590mm	1B	G13	6500K	1300 lm	25
0002961	F36W/850	36W	103V	0.430A	1200mm	1B	G13	5000K	3250 lm	25
0001512	F36W/865	36W	103V	0.430A	1200mm	1B	G13	6500K	3250 lm	25
0002962	F58W/850	58W	110V	0.670A	1500mm	1B	G13	5000K	5000 lm	25
0001532	F58W/865	58W	110V	0.670A	1500mm	1B	G13	6500K	5000 lm	25
0001095	F70W/865	70W	128V	0.700A	1764mm	1B	G13	6500K	5700 lm	25



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

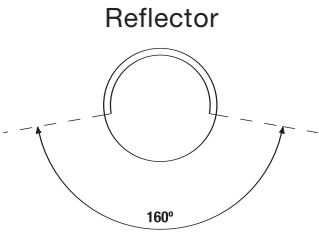
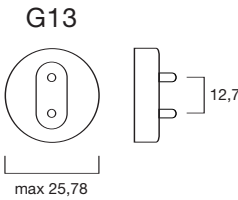


- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Colour rendering: Ra80-89/Class 1B
- High luminous efficacy
- Average rated life 20000 hours (based on 3hrs burning cycle)
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified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

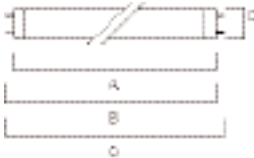


Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Luxline Plus Special Length Homelight De Luxe (827)										
0001850	F15W/827	15W	55V	0.310A	438mm	1B	G13	2700K	950 lm	25
0001680	F30W/827	30W	96V	0.365A	895mm	1B	G13	2700K	2400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

T8 Luxline Plus Reflector

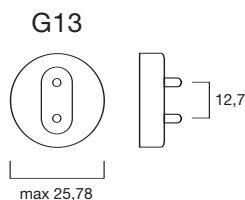
	A max	B min	B max	C max	D nom
58W	1500.0	1504.7	1507.1	1514.2	26




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



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



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



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

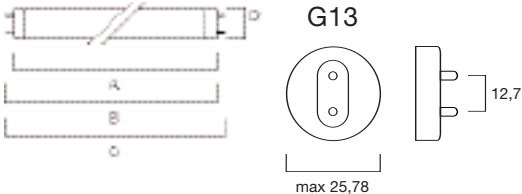


Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
T8 LuxLine Plus Shatter-Resistant										
0001517	F36W/840 Shatter-Resistant	36W	103V	0.430A	Cool White Deluxe	1B	G13	4000K	3180 lm	25
0001528	F58W/840 Shatter-Resistant	58W	110V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

T8 Activa



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



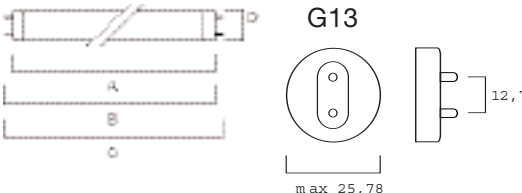
- Full-spectrum high colour rendering T8 fluorescent lamp
- Colour rendering: Ra98/Class 1A
- Colour temperature of 6500K (daylight characteristic)
- For all applications where natural colour rendering is required
- Supports the treatment of Seasonal Affective Disorder (Winter Depression)

Code	Description	Nominal Lamp			Lamp Colour	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
		Watt	Volt	Current						
T8 Activa										
0002672	F15W/172 Activa	15W	55V	0.310A	Activa	1A	G13	6500K	700 lm	25
0002218	F18W/172 Activa	18W	57V	0.370A	Activa	1A	G13	6500K	1000 lm	25
0002219	F36W/172 Activa	36W	103V	0.430A	Activa	1A	G13	6500K	2300 lm	25
0002220	F58W/172 Activa	58W	110V	0.670A	Activa	1A	G13	6500K	3700 lm	25
0002188	F70W/172 Activa	70W	128V	0.700A	Activa	1A	G13	6500K	4600 lm	25

T8 Gourmet

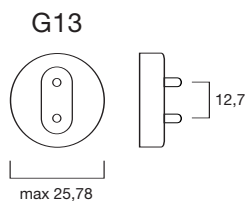


	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26
58W	1500.0	1504.7	1507.1	1514.2	26
70W	1763.8	1768.5	1770.9	1778.0	26

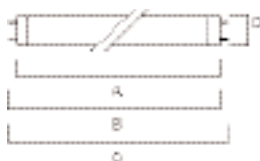


- Special T8 fluorescent lamps to display meat products
- The perfect lighting for butcher shops, restaurants and supermarkets
- Excellent colour rendering Class 1B
- Colour temperature 3700K
- Direct retrofit for all T8 Standard and T8 Luxline Plus lamps

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



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

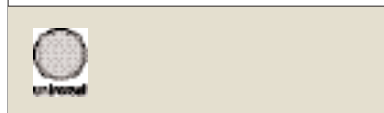


- T8 fluorescent lamps for the exclusive use with an Octron ballast
- Maximum energy efficiency
- High colour rendering: Ra85/Class 1B
- High light output
- High lamp lumen maintenance factor

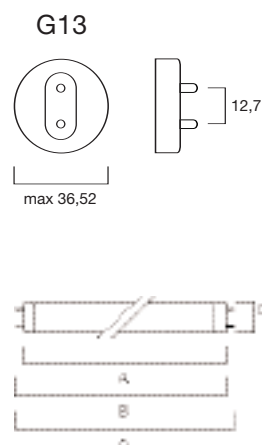


Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Octron	Daylight (54-765)									
0002336	F032W/65K 54-765	32W	135V	0.265A	1200mm	2A	G13	6500K	2100 lm	25
T8 Octron	Warm White De Luxe (830)									
0001700	F032W/31K 830	32W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

T12 Standard



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



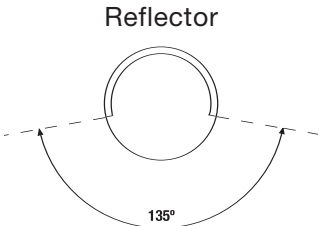
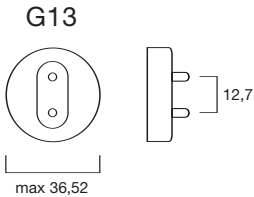
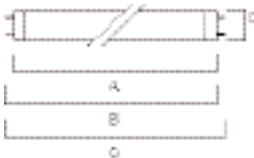
- Wide range of standard T12 fluorescent lamps in various wattages and colours
- For use in luminaires and installations where T8 Standard is not suitable
- RS: Rapid Start in accordance with EN 60081

Code	Description	Nominal Lamp Watt	Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 Standard Universal White (25-740)										
0001562	F20W/25-740 RS	20W	57V	0.370A	590mm	2A	G13	4000K	1050 lm	25
0000403	F40W/1M/25-740 RS	40W	81V	0.556A	970mm	2A	G13	4000K	2400 lm	25
0001555	F40W/25-740 RS	40W	103V	0.430A	1200mm	2A	G13	4000K	2500 lm	25
0001558	F65W/25-740 RS	65W	110V	0.670A	1500mm	2A	G13	4000K	4000 lm	25
T12 Standard Warm White (29-530)										
0001551	F20W/29-530 RS	20W	57V	0.370A	590mm	3	G13	3000K	1200 lm	25
0001554	F40W/29-530 RS	40W	103V	0.430A	1200mm	3	G13	3000K	3000 lm	25
0001557	F65W/29-530	65W	110V	0.670A	1500mm	3	G13	3000K	4800 lm	25
0000446	F65/80W/29-530	65W	110V	0.670A	1500mm	3	G13	3000K	4800 lm	25
0000446	F65/80W/29-530	80W	99V	0.870A	1500mm	3	G13	3000K	5500 lm	25
T12 Standard Cool White (33-640)										
0001550	F20W/33-640 RS	20W	57V	0.370A	590mm	2B	G13	4000K	1200 lm	25
0000393	F25W/1M/33-640 RS	25W	94V	0.290A	970mm	2B	G13	4000K	1800 lm	25
0000399	F40W/1M/33-640 RS	40W	81V	0.556A	970mm	2B	G13	4000K	2800 lm	25
0001553	F40W/33-640 RS	40W	103V	0.430A	1200mm	2B	G13	4000K	3000 lm	25
0001556	F65W/33-640 RS	65W	110V	0.670A	1500mm	2B	G13	4000K	4800 lm	25
0000445	F65/80W/33-640 RS	65W	110V	0.670A	1500mm	2B	G13	4000K	4800 lm	25
0000445	F65/80W/33-640 RS	80W	99V	0.870A	1500mm	2B	G13	4000K	5500 lm	25
0001017	F75/85W/33-640	75W	130V	0.670A	1764mm	2B	G13	4000K	6000 lm	25
0001017	F75/85W/33-640	85W	120V	0.800A	1764mm	2B	G13	4000K	6400 lm	25
0001027	F100W/33-640	100W	125V	0.960A	2400mm	2B	G13	4000K	8200 lm	25



Code	Description	Nominal Watt	Lamp Volt	Current	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 Standard White (35-535)										
0001562	F20W/35-535 RS	20W	57V	0.370A	590mm	3	G13	3500K	1200 lm	25
0001563	F40W/35-535 RS	40W	103V	0.430A	1200mm	3	G13	3500K	3000 lm	25
0000444	F65/80W/35-535 RS	65W	110V	0.670A	1500mm	3	G13	3500K	4800 lm	25
0000444	F65/80W/35-535 RS	80W	99V	0.870A	1500mm	3	G13	3500K	5500 lm	25
0001008	F75/85W/35-535	75W	130V	0.670A	1764mm	3	G13	3500K	6000 lm	25
0001008	F75/85W/35-535	85W	120V	0.800A	1764mm	3	G13	3500K	6400 lm	25
0001028	F100W/35-535	100W	125V	0.960A	2400mm	3	G13	3500K	8200 lm	25
0001038	F125W/35-535	125W	149V	0.940A	2400mm	3	G13	3500K	9500 lm	25
T12 Standard Daylight (54-765)										
0001559	F20W/54-765 RS	20W	57V	0.370A	590mm	2A	G13	6500K	1050 lm	25
0000391	F25W/1M/54-765 RS	25W	94V	0.290A	970mm	2A	G13	6500K	1600 lm	25
0000397	F40W/1M/54-765 RS	40W	81V	0.556A	970mm	2A	G13	6500K	2500 lm	25
0001560	F40W/54-765 RS	40W	103V	0.430A	1200mm	2A	G13	6500K	2500 lm	25
0001561	F65W/54-765 RS	65W	110V	0.670A	1500mm	2A	G13	6500K	4200 lm	25
0001138	F75/85W/54-765	75W	130V	0.670A	1764mm	2A	G13	6500K	5000 lm	25
0001138	F75/85W/54-765	85W	120V	0.800A	1764mm	2A	G13	6500K	5300 lm	25

T12 Reflector

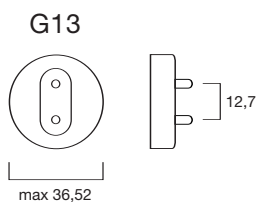
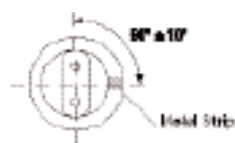
	A max	B min	B max	C max	D nom
65W	1500.0	1504.7	1507.1	1514.2	38




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



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



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



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



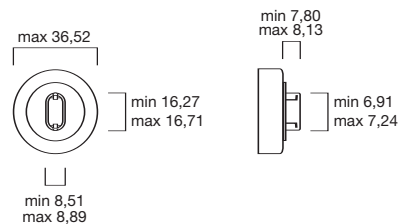
Code	Description	Watt	Volt	Current	Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 IRS Warm White (29-530)										
0000424	F20W/29-530-IRS	20W	57V	0.370A	590mm	3	G13	3000K	1200 lm	25
0000431	F40W/29-530-IRS	40W	103V	0.430A	1200mm	3	G13	3000K	3000 lm	25
T12 IRS Cool White (33-640)										
0000423	F20W/33-640-IRS	20W	57V	0.370A	590mm	2B	G13	4000K	1200 lm	25
0000430	F40W/33-640-IRS	40W	103V	0.430A	1200mm	2B	G13	4000K	3000 lm	25
0000438	F65W/33-640-IRS	65W	110V	0.670A	1500mm	2B	G13	4000K	4800 lm	25
T12 IRS Daylight (54-765)										
0000421	F20W/54-765-IRS	20W	57V	0.370A	590mm	2A	G13	6500K	1050 lm	25
0000428	F40W/54-765-IRS	40W	103V	0.430A	1200mm	2A	G13	6500K	2500 lm	25

T12 High Output / Very High Output



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

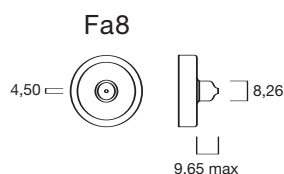
R17d



- High lumen output lamps



Code	Description	Nominal Watt	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T12 High Output Cool White								
9000218	F48T12/CW/HO	60W	1168mm	2B	R17d	4200K	4050 lm	30
0000263	F72T12/CW/HO	85W	1776mm	2B	R17d	4200K	6250 lm	15
0000300	F96T12/CW/HO	110W	2385mm	2B	R17d	4200K	8600 lm	15
T12 High Output Daylight								
0000261	F72T12/D/HO	85W	1776mm	2A	R17d	6500K	5550 lm	15
T12 Very High Output Cool White								
9000204	F48T12/CW/VHO	115W	1168mm	2B	R17d	4200K	6600 lm	30
0000269	F72T12/CW/VHO	160W	1776mm	2B	R17d	4200K	10600 lm	15
0000307	F96T12/CW/VHO	215W	2385mm	2B	R17d	4200K	14000 lm	15



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



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

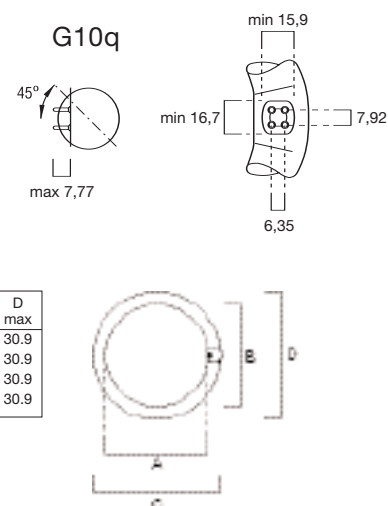


Code	Description	Nominal Watt	Cap to Cap Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Slimline Cool White								
9000011	F72T8/CW	38W	1776mm	2B	Fa8	4200K	3050 lm	24
0000282	F96T8/CW	51W	2385mm	2B	Fa8	4200K	4000 lm	24
T8 Slimline Daylight								
0000246	F72T8/D	38W	1776mm	2A	Fa8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

Circline



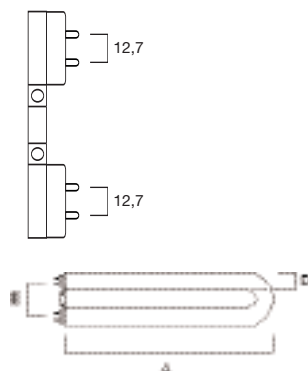
	A min	A max	B min	B max	C or D min	C or D max	D min	D max
22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9
32W	239.7	246.1	236.5	246.1	292.1	304.8	26.2	30.9
40W	341.3	347.7	338.1	347.7	393.7	406.4	26.2	30.9
60W	341.3	347.7	338.1	347.7	393.7	406.4	26.2	30.9



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

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

2G13



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

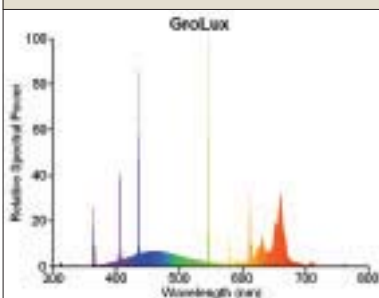


- T8 U-shaped fluorescent lamps in standard colours
- Suitable for rectangular shaped luminaires
- For commercial and domestic lighting



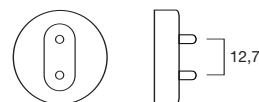
Code	Description	Nominal Lamp Watt	Volt	Current	Lamp Length	CRI Group	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 U-Shaped Universal White (25-740)										
0000510	FU18W/25-740	18W	60V	0.370A	310mm	2A	2G13	4000K	1000 lm	24
0000511	FU36W/25-740	36W	103V	0.430A	607mm	2A	2G13	4000K	2400 lm	12
0000512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

Grolux



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

G13



T8 max 25,78
T12 max 36,52



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

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



Grolux T8 Retail Packs with Display Euro Hook

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

G13



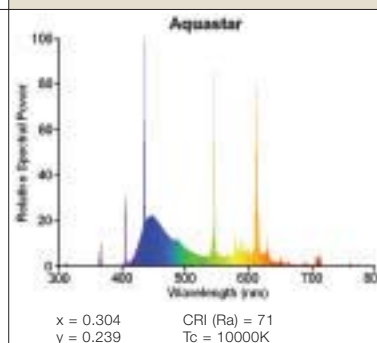
T8 max 25,78
T12 max 36,52



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



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

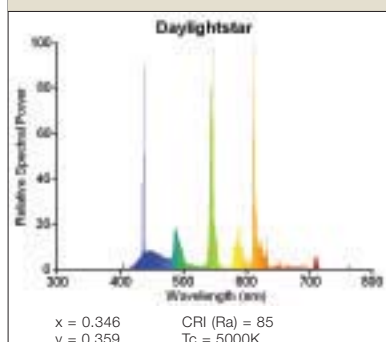


Code	Description	Watt	Nominal Lamp Volt	Current	Capt to Cap Lamp Length	Lamp Colour	Cap	Colour Temp	Luminous Flux	Packing Qty
Aquastar T5										
0002741	FHO24W/174 Aquastar	24W	77V	0.295A	549mm	Aquastar	G5	10000K	1120 lm	25
0002744	FHO39W/174 Aquastar	39W	118V	0.325A	849mm	Aquastar	G5	10000K	1960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

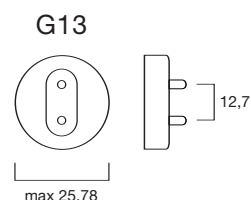
**Aquastar T8 Retail Packs with Display Euro Hook**

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

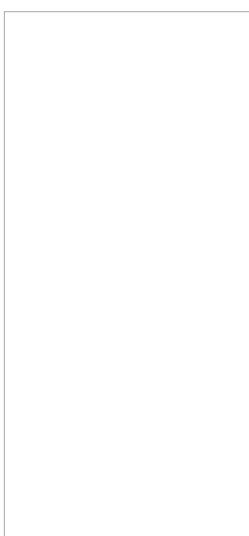
Daylightstar



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

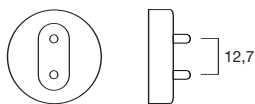


- T8 fluorescent lamps for fresh water aquariums to see fish and plants in their natural colours
- 5000K triphosphor lamp with a daylight character
- High colour rendition
- Reduces algae growth through a special UV Stop sleeve
- In combination with Grolux it produces a well balanced and optimal life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

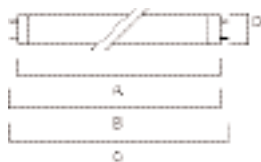


Code	Description	Watt	Nominal Lamp Volt	Current	Capt to Cap Lamp Length	Lamp Colour	Cap	Colour Temp	Luminous Flux	Packing Qty
T8 Daylightstar Fresh Water Lamp Retail Packs with Display Euro Hook										
0000715	F15W/5000K	15W	55V	0.310A	437mm	Daylightstar	G13	5000K	900 lm	10
0000716	F18W/5000K	18W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

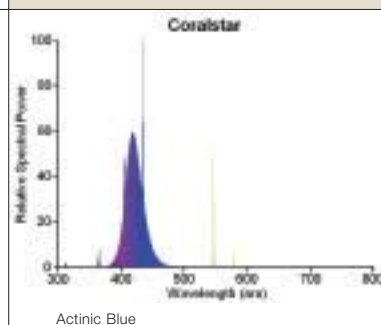
G13



T8 max 25,78
T12 max 36,52



T5	A max	B min	B max	C max	D nom
24W	549	553.7	556.1	563.2	16
39W	849	853.7	856.1	863.2	16
54W	1149	1153.7	1156.1	1163.2	16
T8	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26



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

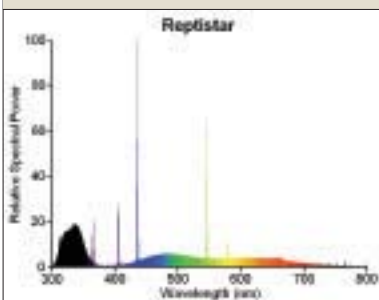


Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Cap	Packing Qty
T5 Coralstar	Marine Water Lamp							
0002742	FHO24W/Coralstar	24W	77V	0.295A	549mm	Actinic Blue	G5	25
0002745	FHO39W/Coralstar	39W	118V	0.325A	849mm	Actinic Blue	G5	25
0002748	FHO54W/Coralstar	54W	120V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

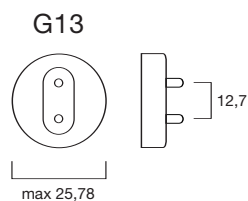

T8 Coralstar Marine Water Lamp Retail Packs with Display Hook

0000719	F18W/Coralstar	18W	57V	0.370A	590mm	Actinic Blue	G13	10
0000725	F30W/Coralstar	30W	96V	0.365A	895mm	Actinic Blue	G13	10
0000726	F36W/Coralstar	36W	103V	0.430A	1199mm	Actinic Blue	G13	10

Reptistar



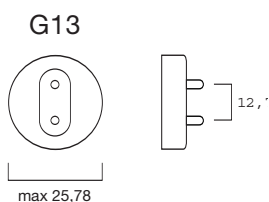
	A max	B min	B max	C max	D nom
15W	437.4	442.1	444.5	451.6	26
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26



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



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



	A max	B min	B max	C max	D nom
18W	589.8	594.5	596.9	604.0	26
36W	1199.4	1204.1	1206.5	1213.6	26



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



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

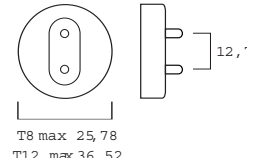
Blacklight (BL350)



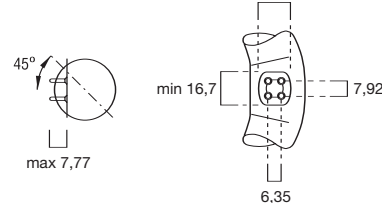
G5



G13



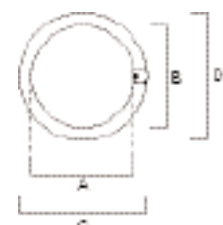
G10q

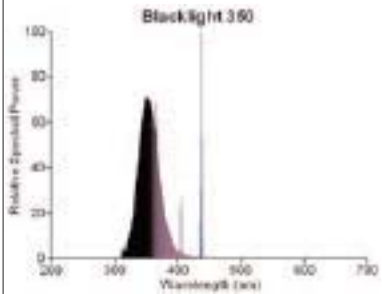


	A max	B min	B max	C max	D nom
4W	135.9	140.6	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
11W	212.1	216.8	219.2	226.3	16
15WT5	288.3	293.0	295.4	302.5	26
15WT8	437.4	442.1	444.5	451.6	26
20W	589.8	594.5	596.9	604.0	26
40W/2ft	589.8	594.5	596.9	604.0	26
40W	1199.4	1204.1	1206.5	1213.6	26



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

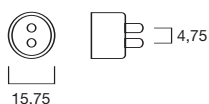




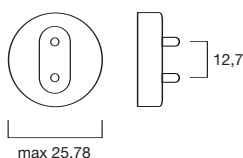
- A range of UVA fluorescent lamps in various lengths and diameters
- Lamps emit UV-radiation between 315nm and 400nm (at peak of 352nm)
- Same shape, structural and electrical characteristics and control circuits as for regular T5, T8, T12 and Circline lamps
- For attracting flies and mosquitoes
- Photosensitisation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

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

G5



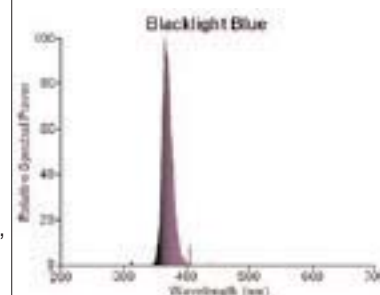
G13



	A max	B min	B max	C max	D nom
4W	135.9	140.6	143.0	150.1	16
6W	212.1	216.8	219.2	226.3	16
8W	288.3	293.0	295.4	302.5	16
15W	437.4	442.1	444.5	451.6	26
18W	589.8	594.5	596.9	604.0	26
30W	894.6	899.3	901.7	908.8	26
36W	1199.4	1204.1	1206.5	1213.6	26

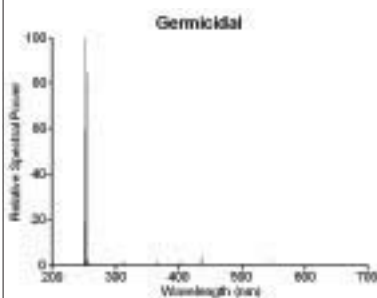


- Lamps emit long-wave UVA for photochemical and fluorescent effect
- Special deep blue filter glass absorbs all visible radiations and transmits long-wave UVA
- Shape, size and electrical characteristics same as regular T5 and T8 fluorescent lamps
- Used for test, inspection, examination and investigation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

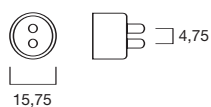


Code	Description	Watt	Nominal Lamp Volt	Current	Cap to Cap Lamp Length	Lamp Colour	Cap	Packing Qty
T5 Blacklight Blue								
0000008	F4WT5/BLB	4W	29V	0.170A	136mm	Blacklight Blue	G5	50
0000018	F6WT5/BLB	6W	42V	0.160A	212mm	Blacklight Blue	G5	50
0000024	F8WT5/BLB	8W	56V	0.145A	288mm	Blacklight Blue	G5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

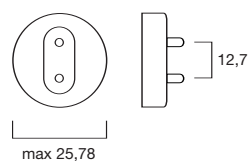
Germicidal



G5



G13



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



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

DIRECTIONS FOR USE:

Germicidal lamps emit UV-C radiation and must not be used for general lighting purposes. The radiation from these lamps is very harmful to eyes and skin. Protect always your eyes and skin against radiation. Germicidal lamps must only be used in appropriate equipment and applications. When using UV-C emitting lamps, the official reference guides and the current industrial safety guideline must be followed.

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



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

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

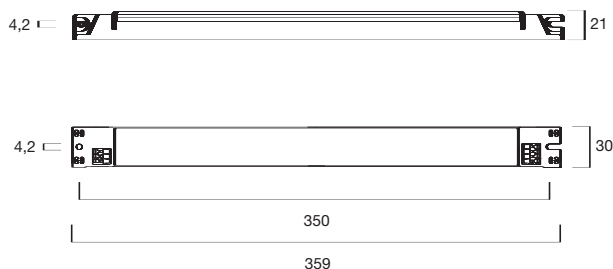
COP Safety Starters



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

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

A01



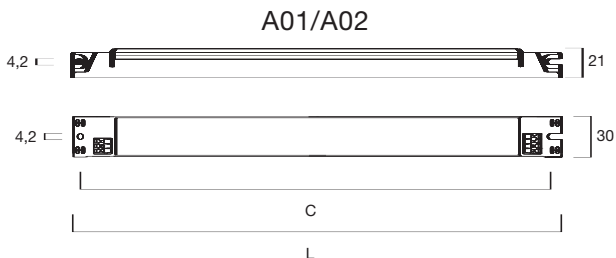
- Ultra flat T5 electronic built-in ballast
- Defined lamp warm start (preheat of electrodes) allows for more than 20000 starts
- Protected against excessive mains voltage and incorrect polarity
- Automatic shutdown of defective lamps during starting operation
- Automatic re-start after lamp change
-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



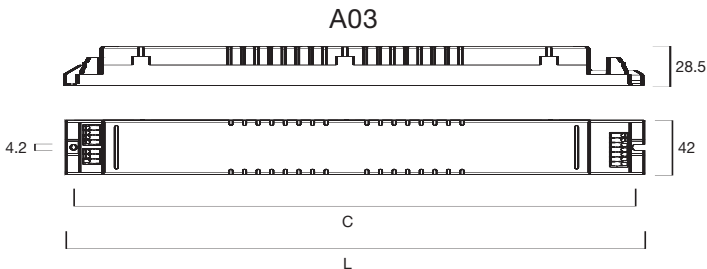
Code	Description	Rated Lamp Type	Line Voltage +/- 10%	Line Frequency	System Power	Casing	Packing Qty
Single Lamp Ballasts							
0041406	EB 1 x 14, 21, 28, 35W HE	1 x FHE14W	220-240V	0/50 - 60Hz	17.0W	A01	15
		1 x FHE21W	220-240V	0/50 - 60Hz	24.0W	A01	15
		1 x FHE28W	220-240V	0/50 - 60Hz	32.0W	A01	15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



A01/A02



A03



	C	L
A01	350	359
A02	412	425
A03	415	425



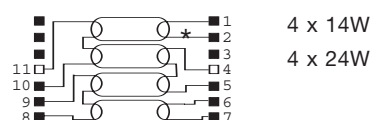
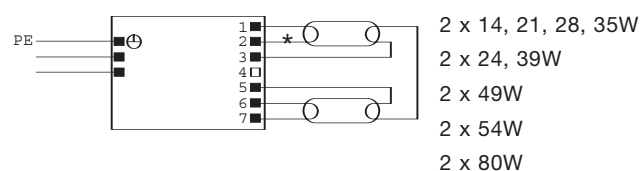
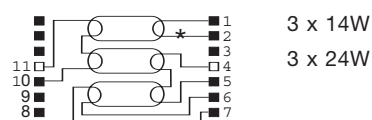
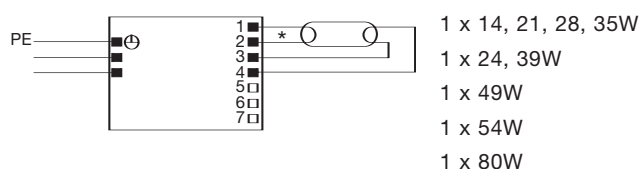

- Ultra flat T5 electronic built-in ballast
- Defined lamp warm start (preheat of electrodes) allows for more than 20000 starts
- Protected against excessive mains voltage and incorrect polarity
- Automatic shutdown of defective lamps during starting operation
- Automatic re-start after lamp change
-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

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

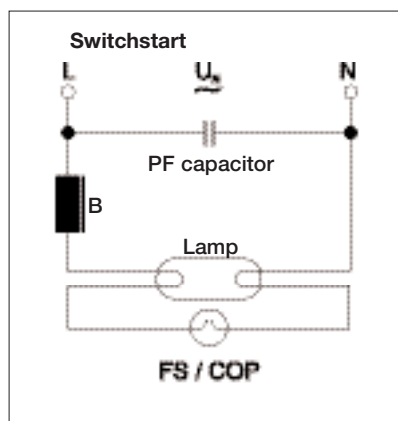


- Metal casing ballast for single and twin lamp operation and plastic casing (heat-resisting polycarbonate) ballast for 3 and 4 lamp ballast
- For ambient temperature from -15°C to $+55^{\circ}\text{C}$
- Casing temperature (t_c) of maximum 70°C (single and twin lamp ballast) and 80°C (3 and 4 lamp ballast)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

CIRCUIT DIAGRAMS

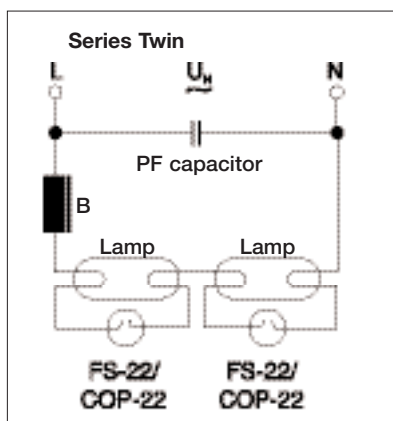


Circuit Diagrams



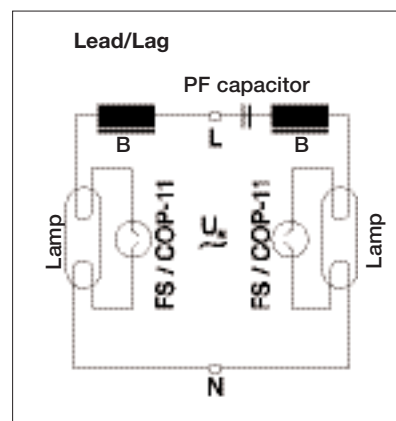
SWITCHSTART

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



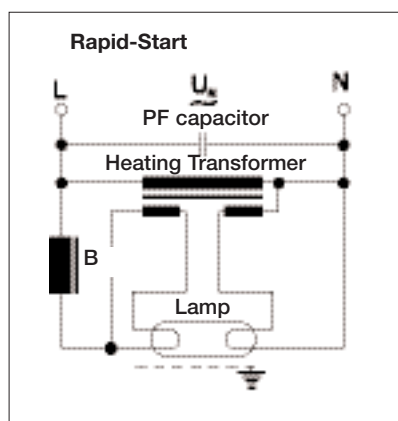
SERIES TWIN

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



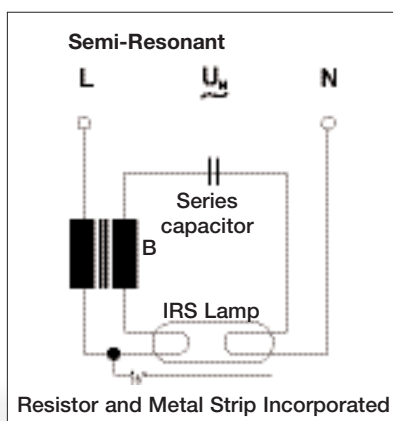
LEAD/LAG

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



RAPID-START

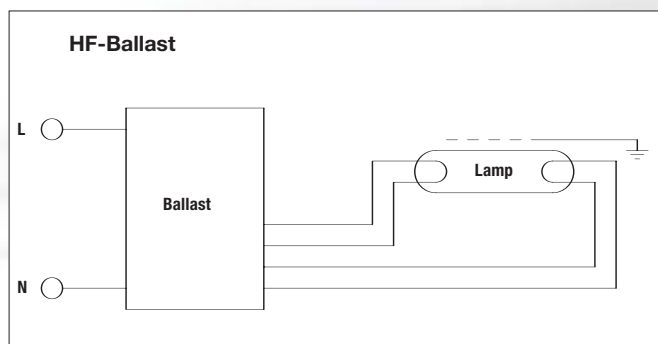
A circuit giving flicker-free instant starting and increased lamp life. The lamp is operated in series with a standard ballast. The electrode pre-heating voltage is provided by a separate transformer. Reliable starting from -10°C to $+40^{\circ}\text{C}$.



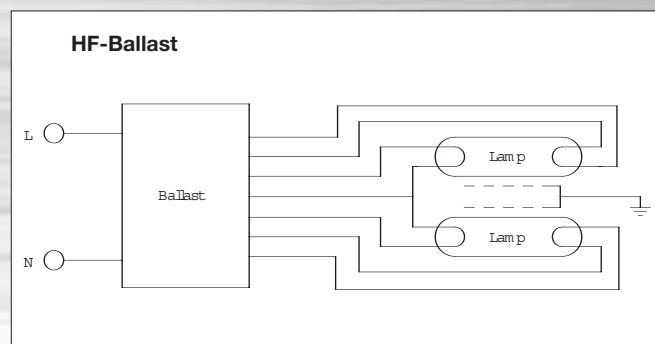
SEMI-RESONANT

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

L = external conductor L_1, L_2, L_3
N = median conductor MP
 U_N = power supply 230V
B = ballast
PF = power factor capacitor
 K_z = start-up capacitor

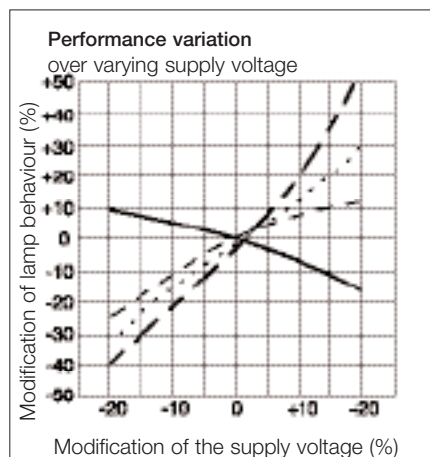


SINGLE LAMP OPERATION

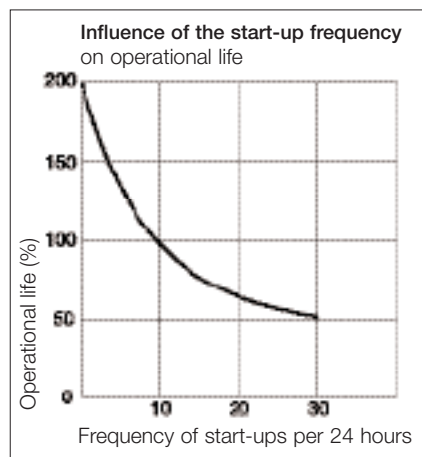


TWIN LAMP OPERATION

OPERATIONAL CHARACTERISTICS

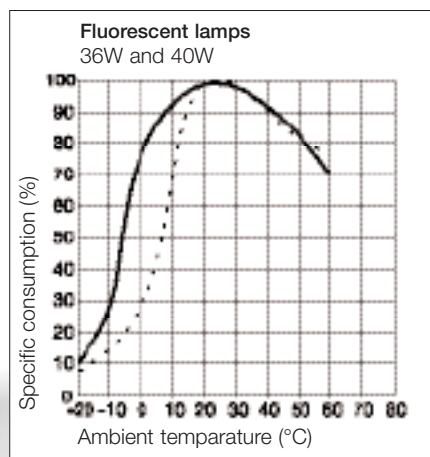


I — = lamp current
 P - - - = lamp conductor

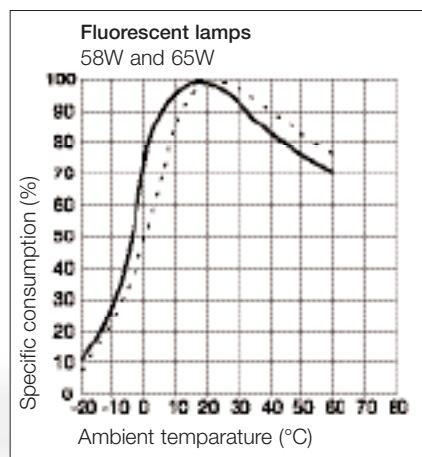


Φ - - - = light output
 U — = lamp voltage

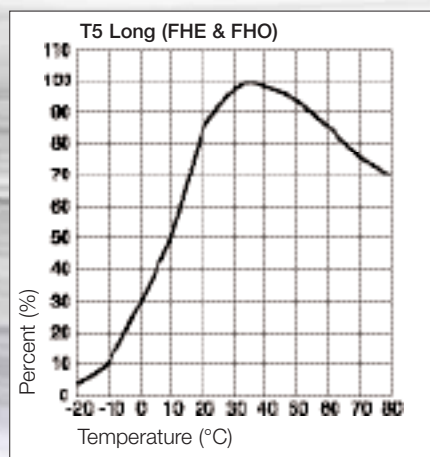
RELATIONSHIP BETWEEN AMBIENT TEMPERATURE AND LIGHT OUTPUT



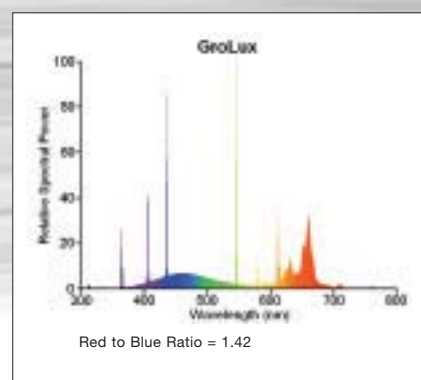
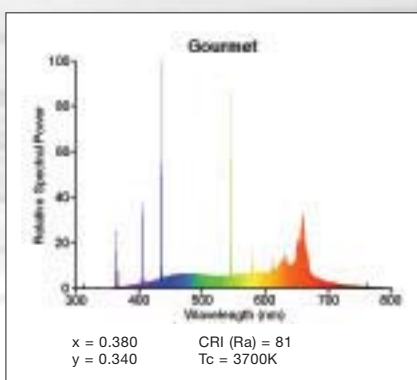
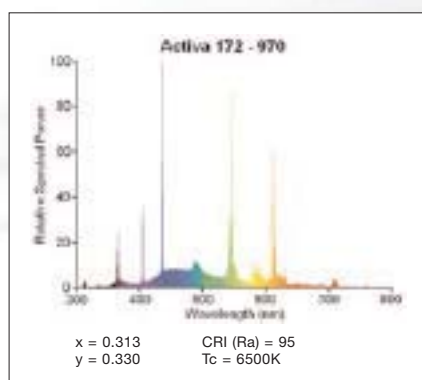
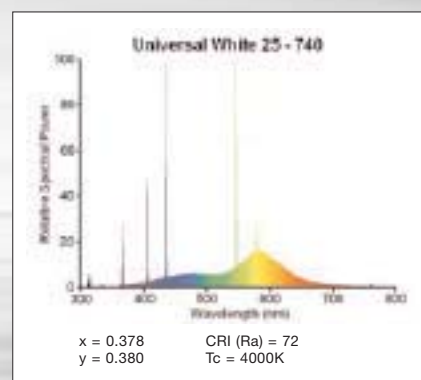
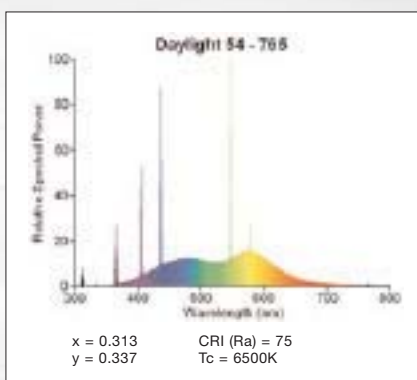
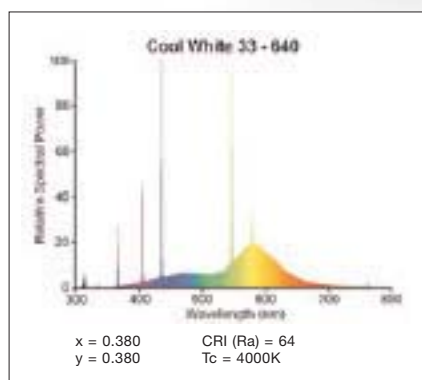
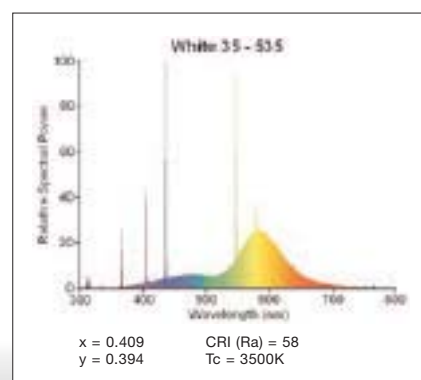
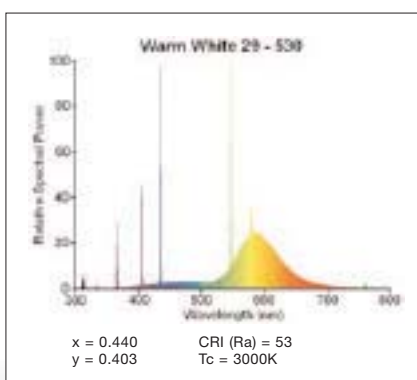
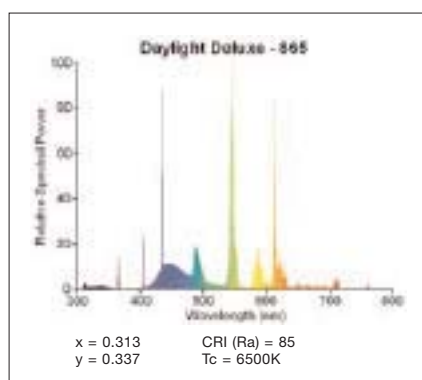
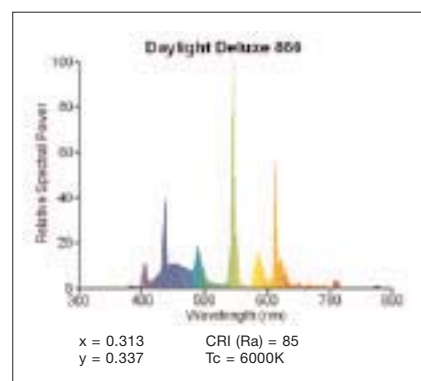
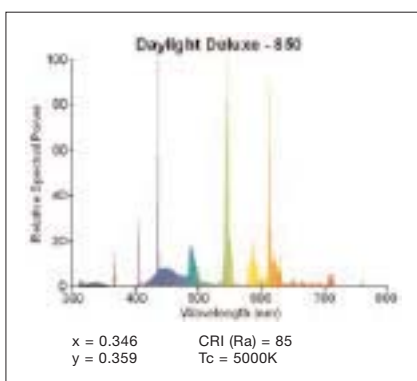
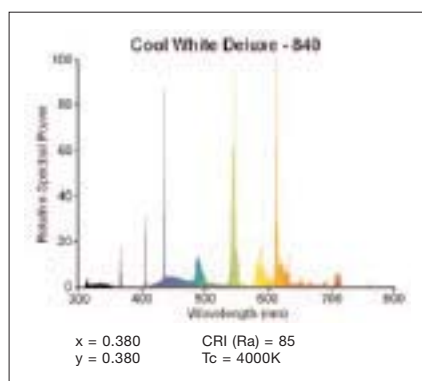
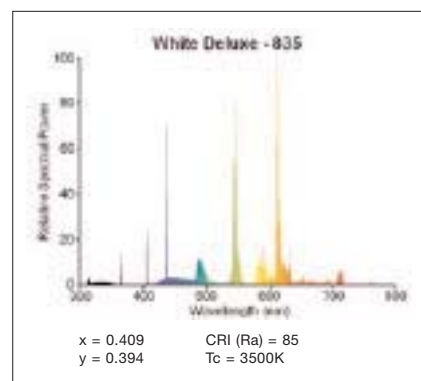
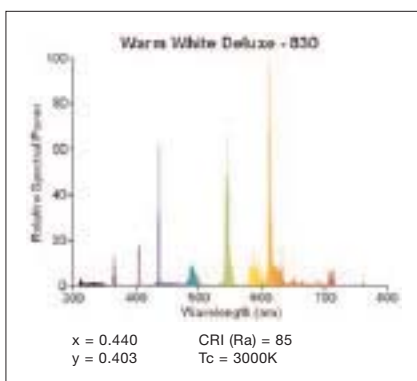
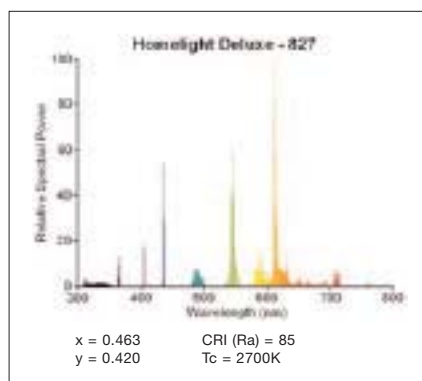
- - - F36W
 — F40W

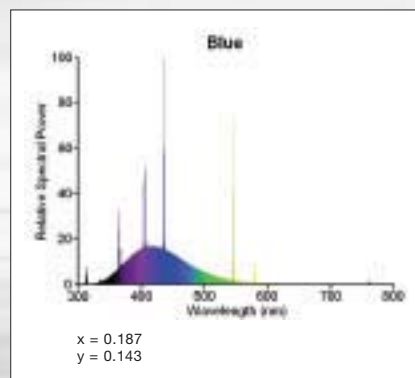
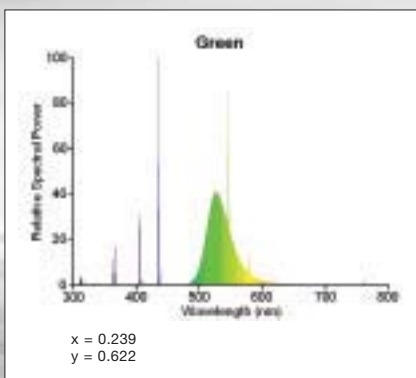
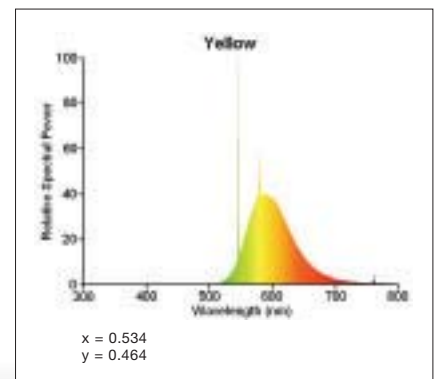
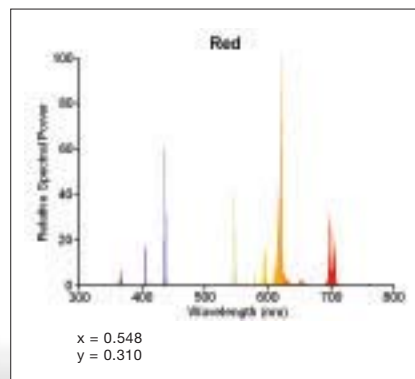
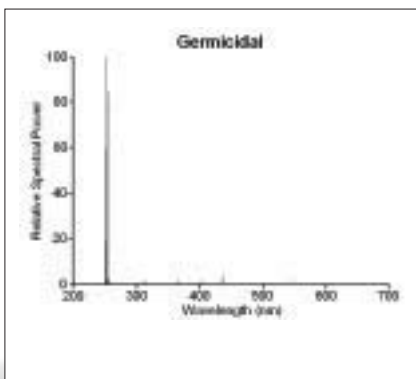
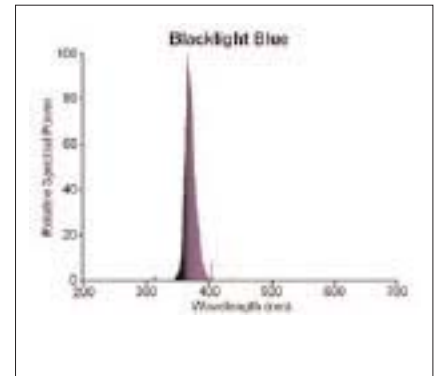
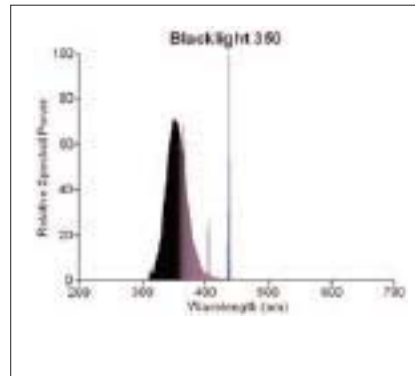
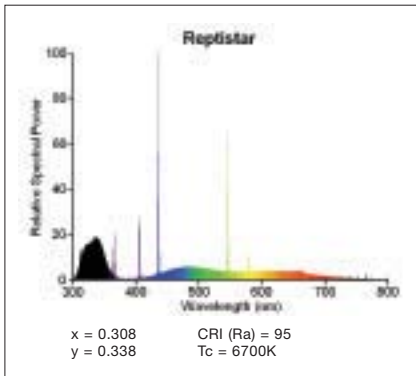
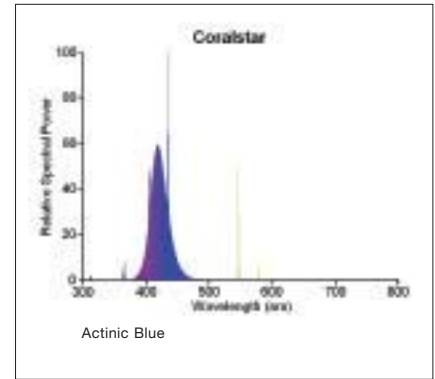
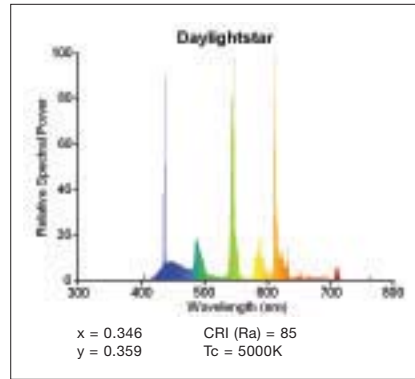
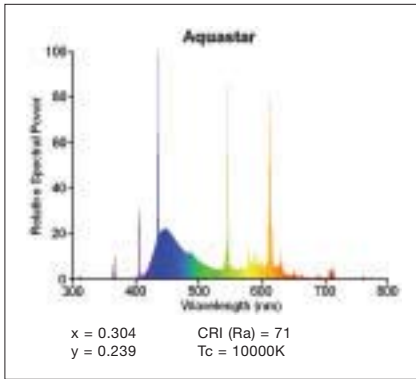


- - - F58W
 — F65W



Spectral Power Distribution





Applications and Lamp Colours

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

COOL

INTERMEDIATE

WARM

▼ = Recommended

○ = Alternative