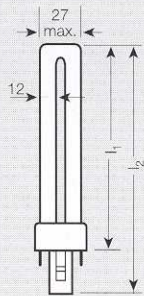


OSRAM DULUX® S

for conventional control gear (CCG)



25 W		→	5 W	
40 W		→	7 W	
60 W		→	9 W	
75 W		→	11 W	

Product reference

Product number



R_a

l_m



l₁ max.
[mm]

l₂ max.
[mm]

IEC
l₁ [mm]



*

OSRAM DULUX® S LUMILUX®

Product reference	Product number	W	Color	R _a	l _m	Beam spread	l ₁ max. [mm]	l ₂ max. [mm]	IEC l ₁ [mm]	Packaging
DULUX S 5 W/840	4050300010564	5	LUMILUX Cool White	1 B	250	G23	85	108	85	10
DULUX S 5 W/830	4050300025728	5	LUMILUX Warm White	1 B	250	G23	85	108	85	10
DULUX S 5 W/827	4050300006130	5	LUMILUX INTERNA	1 B	250	G23	85	108	85	10
DULUX S 7 W/860	4050300355306	7	LUMILUX Daylight	1 B	375	G23	114	137	115	50
DULUX S 7 W/840	4050300010571	7	LUMILUX Cool White	1 B	400	G23	114	137	115	10
DULUX S 7 W/830	4050300025735	7	LUMILUX Warm White	1 B	400	G23	114	137	115	10
DULUX S 7 W/827	4050300005997	7	LUMILUX INTERNA	1 B	400	G23	114	137	115	10
DULUX S 7 W/827 BLI	4050300006086	7	LUMILUX INTERNA	1 B	400	G23	114	137	115	10 ¹⁾
DULUX S 9 W/860	4050300355320	9	LUMILUX Daylight	1 B	565	G23	144	167	145	50
DULUX S 9 W/840	4050300010588	9	LUMILUX Cool White	1 B	600	G23	144	167	145	10/50
DULUX S 9 W/830	4050300025742	9	LUMILUX Warm White	1 B	600	G23	144	167	145	10/50
DULUX S 9 W/827	4050300006000	9	LUMILUX INTERNA	1 B	600	G23	144	167	145	10/50
DULUX S 9 W/827 BLI	4050300006093	9	LUMILUX INTERNA	1 B	600	G23	144	167	145	10 ¹⁾
DULUX S 11 W/860	4050300112374	11	LUMILUX Daylight	1 B	850	G23	214	237	215	50
DULUX S 11 W/840	4050300010618	11	LUMILUX Cool White	1 B	900	G23	214	237	215	10/50
DULUX S 11 W/830	4050300025759	11	LUMILUX Warm White	1 B	900	G23	214	237	215	10/50
DULUX S 11 W/827	4050300006017	11	LUMILUX INTERNA	1 B	900	G23	214	237	215	10/50
DULUX S 11 W/827 BLI	4050300006109	11	LUMILUX INTERNA	1 B	900	G23	214	237	215	10 ¹⁾

OSRAM DULUX® S COLOURED

DULUX S 9 W/60	4050300015927	9	Red	400	G23	144	167	145	10
DULUX S 9 W/66	4050300015934	9	Green	800	G23	144	167	145	10
DULUX S 9 W/67	4050300015941	9	Blue	200	G23	144	167	145	10

Circuit diagrams 1 to 3, see page 3.31.

- The lamp for creative luminaire design and modern lighting systems.
- Small dimensions, extremely slim.
- High luminous efficacy and lighting comfort.
- Eight times the life and only 20 to 25% of the power consumption of ordinary light bulbs of comparable light output.
- Pleasant warm light, excellent colour rendering.
- Single-ended G23 plug-in base with integrated starter and RF suppression capacitor.
- The coloured versions are ideal for creative illumination and decoration.

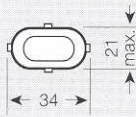
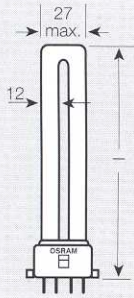
Their extremely compact dimensions make OSRAM DULUX® S lamps ideal for creative lighting.







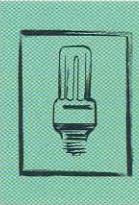
1) Cardboard blister pack.
2) See page 3.30.

* To ensure that your order reaches you quickly, please order standard pack quantities.

OSRAM DULUX® S/E for electronic control gear (ECG) and dimming systems



25 W	→	5 W	
40 W	→	7 W	
60 W	→	9 W	
75 W	→	11 W	



Product reference

Product number



R_a

l_m



l_{max.}
[mm]

IEC
l_{max.}
[mm]



OSRAM DULUX® S/E

Product reference	Product number	W	Color	R _a	l _m	Beam spread (1)	l _{max.} [mm]	IEC l _{max.} [mm]	Packaging (*)
DULUX S/E 5 W/840	4050300020150	5	LUMILUX Cool white	1 B	250	2G7	85	85	10
DULUX S/E 5 W/827	4050300017624	5	LUMILUX INTERNA	1 B	250	2G7	85	85	10
DULUX S/E 7 W/840	4050300020167	7	LUMILUX Cool white	1 B	400	2G7	114	115	10
DULUX S/E 7 W/830	4050300591988	7	LUMILUX Warm white	1 B	400	2G7	114	115	10
DULUX S/E 7 W/827	4050300017648	7	LUMILUX INTERNA	1 B	400	2G7	114	115	10
DULUX S/E 9 W/840	4050300020174	9	LUMILUX Cool white	1 B	600	2G7	144	145	10
DULUX S/E 9 W/830	4050300589398	9	LUMILUX Warm white	1 B	600	2G7	144	145	10
DULUX S/E 9 W/827	4050300017655	9	LUMILUX INTERNA	1 B	600	2G7	144	145	10
DULUX S/E 11 W/840	4050300020181	11	LUMILUX Cool white	1 B	900	2G7	214	215	10
DULUX S/E 11 W/830	4050300589374	11	LUMILUX Warm white	1 B	900	2G7	214	215	10
DULUX S/E 11 W/827	4050300017662	11	LUMILUX INTERNA	1 B	900	2G7	214	215	10

For circuit diagrams see page 3.31.

For QUICKTRONIC® ECG for mains voltages and ACCUTRONIC® ECG for low voltages see Section 9.

OSRAM DULUX® S/E compact fluorescent lamps are designed for HF control gear and for dimmer systems.



These innovative energy saving lamps can be operated on battery, solar or mains power. They are suitable for low voltage (e.g. with ACCUTRONIC®). They can also be fully dimmed. Their dimensions and wattages are identical to those of the successful standard OSRAM DULUX® S models.

- Ten times the life of ordinary light bulbs of the same light output, with ECG operation.
- Comfortable light in ECG operation.
- Small dimensions, extremely slim.
- Smallest lamp suitable for solar or battery-powered systems (emergency power).
- Low power consumption (5 W, 7 W, 9 W, 11 W).
- Luminous flux values from 250 to 900 lm.
- Single-ended four-pin plug-in 2G7 base.

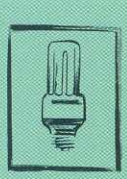
OSRAM DULUX® S/E compact fluorescent lamps can be operated from almost any type of power supply, which makes them extremely versatile.



1) See page 3.30.

* To ensure that your order reaches you quickly, please order standard pack quantities.

Technical data



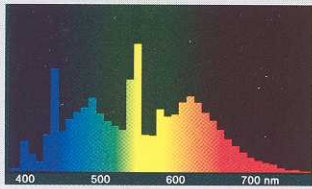
Lamp OSRAM DULUX® Watt	Lamp voltage for 50/60Hz V		Lamp current for 50/60Hz mA		Wattage with control gear CCG ¹⁾ W		Lumi- nance cd/cm ² LF 827, 830, 840	Compensation Parallel capacitor ²⁾ CCG 230V/50Hz µF	Series capacitor ³⁾ CCG µF
		for HF V		for HF mA		ECG W			
DULUX S 5	35	—	180	—	10	—	2.5	2.2	—
DULUX S 7	47/45	—	175/180	—	11	—	2.6	2.1	—
DULUX S 9	60/59	—	170/180	—	13	—	2.8	2.0	—
DULUX S 11	91/—	—	155/—	—	15	—	2.7	1.7	—
DULUX D 10	64	—	190	—	15	—	4.0	2.2	1.4
DULUX D 13	91	—	175	—	17	—	4.0	1.8	1.4
DULUX D 18	100	—	220	—	23	—	4.5	2.2	1.7
DULUX D 26	105	—	325	—	31	—	5.5	3.2	2.5
DULUX T 13	91	—	175	—	17	—	4.2	1.8	1.4
DULUX T 18	100	—	225	—	23	—	4.7	2.3	1.7
DULUX T 26	105	—	325	—	31	—	6.0	3.3	2.5
DULUX S/E 5	—	27	—	190	—	7.5	2.5	—	—
DULUX S/E 7	—	37	—	175	—	9	2.6	—	—
DULUX S/E 9	—	48	—	170	—	12	2.8	—	—
DULUX S/E 11	—	75	—	150	—	14	2.7	—	—
DULUX D/E 10	—	51	—	190	—	12	4.0	—	—
DULUX D/E 13	—	77	—	165	—	14	4.0	—	—
DULUX D/E 18	—	80	—	210	—	20	4.5	—	—
DULUX D/E 26	—	80	—	300	—	28	5.5	—	—
DULUX T/E 13	—	77	—	165	—	14	4.2	—	—
DULUX T/E 18	—	80	—	210	—	20	4.7	—	—
DULUX T/E 26	—	80	—	300	—	28	6.0	—	—
DULUX T/E 32	—	100	—	320	—	35	6.5	—	—
DULUX T/E 42	—	135	—	320	—	46	7.0	—	—
DULUX T/E 57	—	182	—	320	—	62	7.0	—	—
DULUX L 18	58	50	375	320	24	19	2.1	4.2	2.7
DULUX L 24	87	75	345	300	30	27	2.1	3.6	2.7
DULUX L 36	106	90	435	360	43	39	2.8	4.4	3.4
DULUX L 40	—	126	—	320	—	45	2.3	—	—
DULUX L 55	—	101	—	550	—	61	3.2	—	—
DULUX L 80	—	4)	—	4)	—	4)	4)	—	—
DULUX F 18	58	50	375	320	24	19	2.4	4.2	2.7
DULUX F 24	87	75	345	300	29	27	2.5	3.6	2.7
DULUX F 36	106	90	435	360	43	39	3.0	4.4	3.4

* ECG also available in two-lamp version.
For QUICKTRONIC® electronic control gear see Section 9.
For detailed technical information see the "Technical Guide".

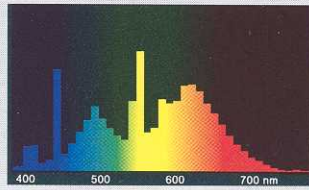
1) Approximate values for low-loss control gear – depending on the control gear
2) Design for cos phi = 0.95
Dielectric strength of the capacitors 250 V AC
Capacitance tolerance ± 10%.

3) To maintain the specified operating and preheating values, close-tolerance capacitors (± 2%) and series resistors (± 1.5%) are required for series compensation. Check the product ranges of leading manufacturers. Dielectric strength of the capacitors = 450 V AC.
4) In preparation.

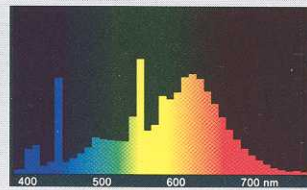
Spectral power distribution of OSRAM DULUX® lamps



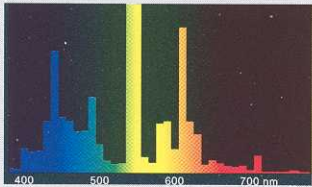
Colour 950 LUMILUX® DE LUXE Daylight



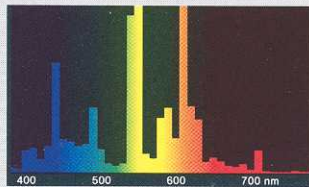
Colour 940 LUMILUX® DE LUXE Cool White



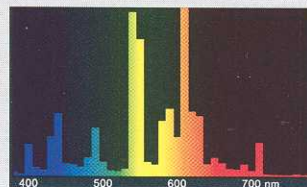
Colour 930 LUMILUX® DE LUXE Warm White



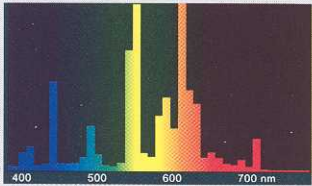
Colour 860 LUMILUX® Daylight



Colour 840 LUMILUX® Cool White



Colour 830 LUMILUX® Warm White

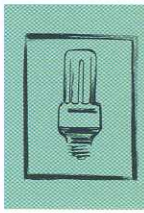


Colour 827 LUMILUX INTERNA®

Spectral power distribution of OSRAM DULUX® lamps




Visible range from 380 to 780 nm

Vertical scale $\frac{400 \text{ mW}}{1000 \text{ lm} \cdot 10 \text{ nm}}$



Colour appearances and colour rendering properties of fluorescent lamps to DIN 5035

Colour appearances and colour rendering properties of fluorescent lamps to DIN 5035

				
Group 1 excellent	1 A R_a 90 ... 100	950 LUMILUX® DE LUXE Daylight 5400 K	940 LUMILUX® DE LUXE Cool White 3800 K	930 LUMILUX® DE LUXE Warm White 3000 K
very good	1 B R_a 80 ... 89	860 LUMILUX® Daylight 6000 K	840 LUMILUX® Cool White 4000 K	830 LUMILUX® Warm White 3000 K
				827 LUMILUX INTERNA® 2700 K

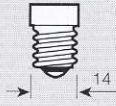
For an explanation of the colour appearances see page 4.23.

Note: These colour graphs do not show the colour distributions in great detail. The colour printing process is not able to provide an accurate match between the colours shown and the colours defined for the individual colour locations.

Bases

IEC/EN 60061-1

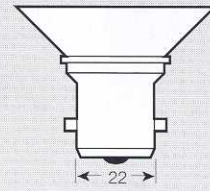
For direct connection to mains



E14
Sheet 7004-23



E27
Sheet 7004-21

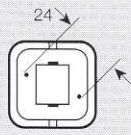


B22d
Sheet 7004-10

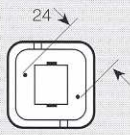
For switch-start operation



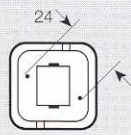
G23
Sheet 7004-69



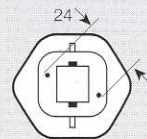
G24d-1
Sheet 7004-78



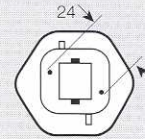
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Sheet 7004-78



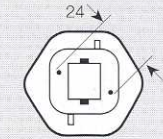
G24d-3
Sheet 7004-78



GX24d-1
Sheet 7004-78

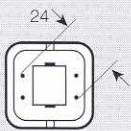


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Sheet 7004-78

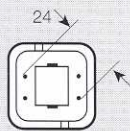


GX24d-3
Sheet 7004-78

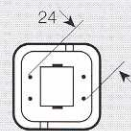
For HF operation



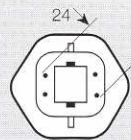
G24q-1
Sheet 7004-78



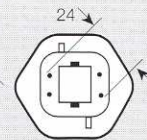
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Sheet 7004-78



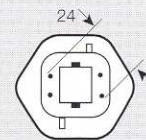
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Sheet 7004-78



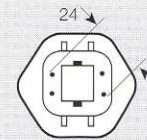
GX24q-1
Sheet 7004-78



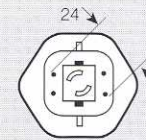
GX24q-2
Sheet 7004-78



GX24q-3
Sheet 7004-78

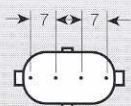


GX24q-4
Sheet 7004-78

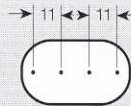


GX24q-5

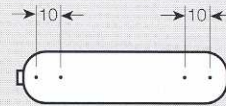
For HF operation



2G7
Sheet 7004-102

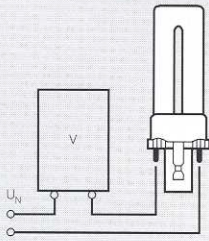


2G11
Sheet 7004-82

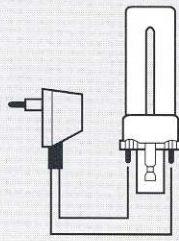


2G10
Sheet 7004-118

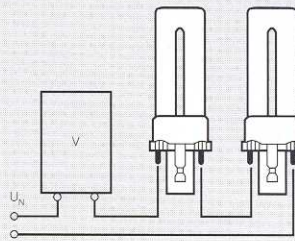
Circuit diagrams for conventional control gear



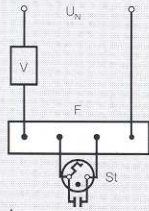
1
Single lamp with control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W, 18W, 26W
OSRAM DULUX® T 13W, 18W, 26W



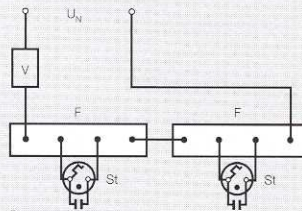
2
Single lamp with plug-in control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W
OSRAM DULUX® T 13W



3
Series connection with control gear
OSRAM DULUX® S 5W, 7W, 9W



4
Single lamp with starter St 111
or DEOS® St 171
OSRAM DULUX® L 18W, 24W, 36W
OSRAM DULUX® L 18W SP, 24W SP
OSRAM DULUX® F 18W, 24W, 36W



5
Series connection to 230V/240V
with starter St 151
OSRAM DULUX® L 18W
OSRAM DULUX® L 18W SP
OSRAM DULUX® F 18W

F = Four-pin lampholder
St = Starter
 U_N = Supply voltage
V = Control gear

Circuit diagrams for HF operation see Section 9.

