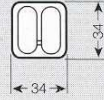
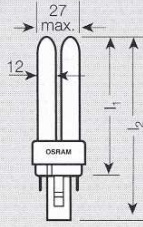




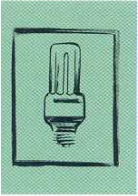


OSRAM DULUX® D


for conventional control gear (CCG)





60 W	→	10 W	
75 W	→	13 W	
100 W	→	18 W	
2 x 75 W	→	26 W	



OSRAM DULUX® D lamps are modern energy saving light sources with the dimensions of ordinary light bulbs.

Product reference	Product number	W		R _a
OSRAM DULUX® D				
DULUX D 10 W/840	4050300010595	10	LUMILUX Cool White	1 B
DULUX D 10 W/830	4050300025681	10	LUMILUX Warm White	1 B
DULUX D 10 W/827	4050300008110	10	LUMILUX INTERNA	1 B
DULUX D 13 W/840	4050300010625	13	LUMILUX Cool White	1 B
DULUX D 13 W/830	4050300025698	13	LUMILUX Warm White	1 B
DULUX D 13 W/827	4050300008127	13	LUMILUX INTERNA	1 B
DULUX D 18 W/840	4050300012056	18	LUMILUX Cool White	1 B
DULUX D 18 W/830	4050300025704	18	LUMILUX Warm White	1 B
DULUX D 18 W/827	4050300011462	18	LUMILUX INTERNA	1 B
DULUX D 26 W/840	4050300012049	26	LUMILUX Cool White	1 B
DULUX D 26 W/830	4050300025711	26	LUMILUX Warm White	1 B
DULUX D 26 W/827	4050300011912	26	LUMILUX INTERNA	1 B

Product reference	lm		l_1 max. [mm]	l_2 max. [mm]	IEC I ₁ [mm]	
DULUX D 10 W/840	600	G24d-1	87	110	95	10/50
DULUX D 10 W/830	600	G24d-1	87	110	95	10/50
DULUX D 10 W/827	600	G24d-1	87	110	95	10/50
DULUX D 13 W/840	900	G24d-1	115	138	130	10/50
DULUX D 13 W/830	900	G24d-1	115	138	130	10/50
DULUX D 13 W/827	900	G24d-1	115	138	130	10/50
DULUX D 18 W/840	1200	G24d-2	130	153	140	10/50
DULUX D 18 W/830	1200	G24d-2	130	153	140	10/50
DULUX D 18 W/827	1200	G24d-2	130	153	140	10/50
DULUX D 26 W/840	1800	G24d-3	149	172	160	10/50
DULUX D 26 W/830	1800	G24d-3	149	172	160	10/50
DULUX D 26 W/827	1800	G24d-3	149	172	160	10/50

Circuit diagrams 1 and 2 see page 3.31.

OSRAM DULUX® D 18 W lamps are suitable only for operating with 0.22 A control gear.

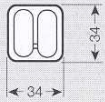
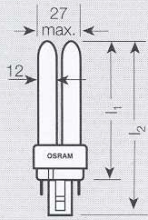
These compact fluorescent lamps are ideal for miniature luminaires and downlights for shallow recesses. They have twice the luminous flux as OSRAM DULUX® S lamps of the same length. The lamps consume only 20 to 25% of the power of ordinary light bulbs of comparable brightness. They provide excellent quality light with very good colour rendering.

- No bigger than ordinary light bulbs for shallow luminaires.
- The same radial luminous intensity distribution as ordinary light bulbs.
- Eight times the life of light bulbs of comparable light output for long relamping intervals.
- Single-ended plug-in base with integral starter and RF suppression capacitor.

1) See page 3.30.

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

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





60 W	→	10 W
75 W	→	13 W
100 W	→	18 W
2x75 W	→	26 W



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

Product reference	Product number	W		Ra
OSRAM DULUX® D/E				
DULUX D/E 10 W/840	4050300017587	10	LUMILUX Cool White	1 B
DULUX D/E 10 W/830	4050300419435	10	LUMILUX Warm White	1 B
DULUX D/E 10 W/827	4050300012124	10	LUMILUX INTERNA	1 B
DULUX D/E 13 W/840	4050300017594	13	LUMILUX Cool White	1 B
DULUX D/E 13 W/830	4050300389059	13	LUMILUX Warm White	1 B
DULUX D/E 13 W/827	4050300012131	13	LUMILUX INTERNA	1 B
DULUX D/E 18 W/840	4050300017617	18	LUMILUX Cool White	1 B
DULUX D/E 18 W/830	4050300327211	18	LUMILUX Warm White	1 B
DULUX D/E 18 W/827	4050300012148	18	LUMILUX INTERNA	1 B
DULUX D/E 26 W/840	4050300020303	26	LUMILUX Cool White	1 B
DULUX D/E 26 W/830	4050300327235	26	LUMILUX Warm White	1 B
DULUX D/E 26 W/827	4050300012230	26	LUMILUX INTERNA	1 B

Product reference	lm		l1 max. [mm]	l2 max. [mm]	IEC l1 [mm]	
DULUX D/E 10 W/840	600	G24q-1	87	103	95	10
DULUX D/E 10 W/830	600	G24q-1	87	103	95	10
DULUX D/E 10 W/827	600	G24q-1	87	103	95	10
DULUX D/E 13 W/840	900	G24q-1	115	131	130	10
DULUX D/E 13 W/830	900	G24q-1	115	131	130	10
DULUX D/E 13 W/827	900	G24q-1	115	131	130	10
DULUX D/E 18 W/840	1200	G24q-2	130	146	140	10
DULUX D/E 18 W/830	1200	G24q-2	130	146	140	10
DULUX D/E 18 W/827	1200	G24q-2	130	146	140	10
DULUX D/E 26 W/840	1800	G24q-3	149	165	160	10
DULUX D/E 26 W/830	1800	G24q-3	149	165	160	10
DULUX D/E 26 W/827	1800	G24q-3	149	165	160	10

For circuit diagrams see page 3.31.
For QUICKTRONIC® ECG for high voltages and ACCUTRONIC® ECG for low voltages see Section 9.

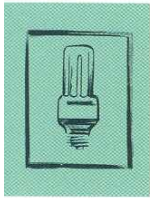
These compact fluorescent lamps can be operated on battery, solar or mains power. They are suitable for low voltage supply (e.g. with ACCUTRONIC®). They can also be fully dimmed. Their dimensions and wattages are identical to those of the successful standard OSRAM DULUX® D lamps. The fact that they can be used with separate control gear means they can be connected to almost any type of power supply, including mains, batteries and solar cells. Major applications include dimming and battery-powered emergency lighting in department stores, office buildings and so on.

- Ten times the life of ordinary light bulbs of the same light output with ECG operation.
- Comfortable light with ECG operation.
- Shortened base spigot to prevent two-pin lamps being fitted in new D/E holders, but still fits in old D/E holders.
- Twice the luminous flux as OSRAM DULUX® S/E of the same length.
- Luminous flux values from 600 to 1800 lm.
- Same dimensions as OSRAM DULUX® D to enable luminaires for emergency lighting systems to conform to a uniform design.
- Single-ended four-pin plug-in G24q base.

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		Lamp current		Wattage with control gear		Lumi- nance cd/cm ² LF 827, 830, 840	Compensation Parallel capacitor ²⁾ CCG 230V/50Hz µF	Series capacitor ³⁾ CCG µF
	for 50/60Hz V	for HF V	for 50/60Hz mA	for HF mA	CCG ¹⁾ W	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".

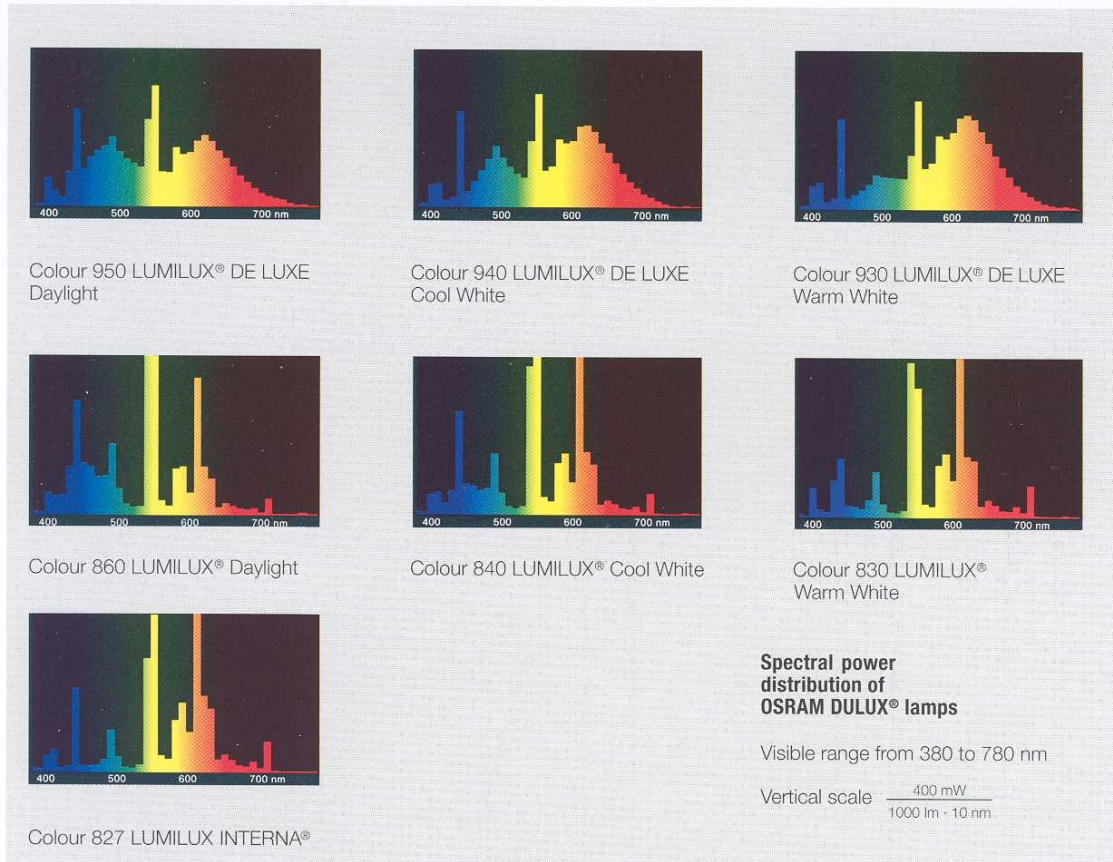
1) Approximate values for low-loss control gear – depending on the control gear

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 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
				827 LUMILUX INTERNA® 2700 K

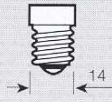
For an explanation of the colour appearances see page 4.23.

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

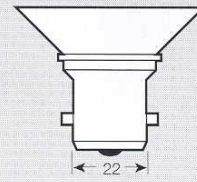
For direct connection to mains



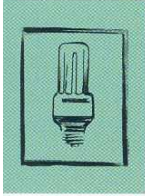
E14
Sheet 7004-23



E27
Sheet 7004-21



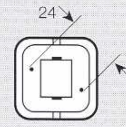
B22d
Sheet 7004-10



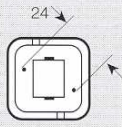
For switch-start operation



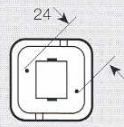
G23
Sheet 7004-69



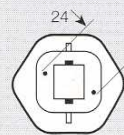
G24d-1
Sheet 7004-78



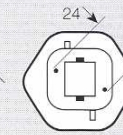
G24d-2
Sheet 7004-78



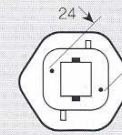
G24d-3
Sheet 7004-78



GX24d-1
Sheet 7004-78

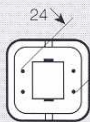


GX24d-2
Sheet 7004-78

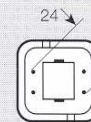


GX24d-3
Sheet 7004-78

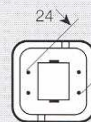
For HF operation



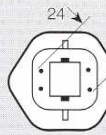
G24q-1
Sheet 7004-78



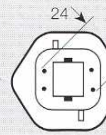
G24q-2
Sheet 7004-78



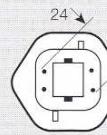
G24q-3
Sheet 7004-78



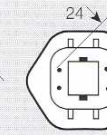
GX24q-1
Sheet 7004-78



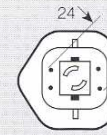
GX24q-2
Sheet 7004-78



GX24q-3
Sheet 7004-78

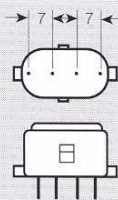


GX24q-4
Sheet 7004-78

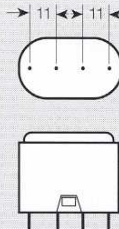


GX24q-5

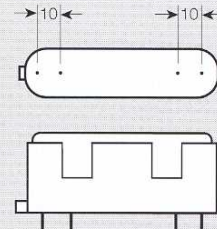
For HF operation



2G7
Sheet 7004-102

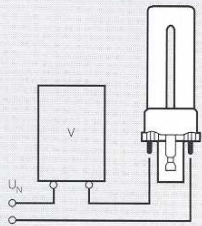


2G11
Sheet 7004-82

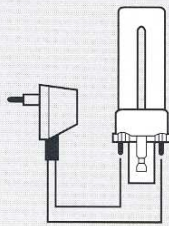


2G10
Sheet 7004-118

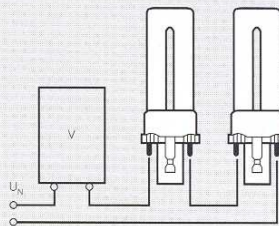
Circuit diagrams for conventional control gear



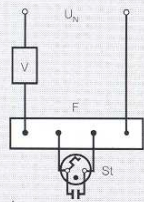
1 Single lamp with control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W, 18W, 26W
OSRAM DULUX® T 13W, 18W, 26W



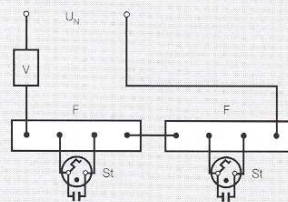
2 Single lamp with plug-in control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W
OSRAM DULUX® T 13W



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.

