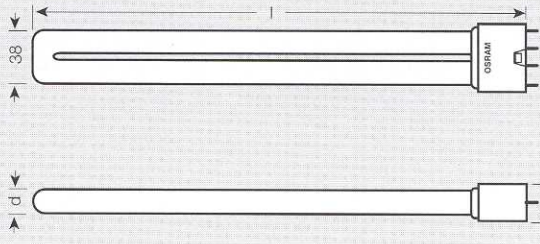


OSRAM DULUX® L



OSRAM DULUX® L compact fluorescent lamps are ideal for new modular luminaires. These lamps are higher wattage lamps with high luminous fluxes.

With this range of lamps, OSRAM can offer a compact light source with virtually the same high luminous flux as conventional fluorescent tubes.

New
New

Product reference	Product number	W		Ra	Im		²⁾ l max. [mm]	IEC l max. [mm]	TUBE d [mm]		*
OSRAM DULUX® L LUMILUX®											
DULUX L 18 W/840	4050300010724	18	LUMILUX Cool White	1 B	1200	2G11	217	225	17.5	10	
DULUX L 18 W/830	4050300010731	18	LUMILUX Warm White	1 B	1200	2G11	217	225	17.5	10	
DULUX L 18 W/827	4050300010748	18	LUMILUX INTERNA	1 B	1200	2G11	217	225	17.5	10	
DULUX L 24 W/840	4050300010755	24	LUMILUX Cool White	1 B	1800	2G11	317	320	17.5	10	
DULUX L 24 W/830	4050300010762	24	LUMILUX Warm White	1 B	1800	2G11	317	320	17.5	10	
DULUX L 24 W/827	4050300010779	24	LUMILUX INTERNA	1 B	1800	2G11	317	320	17.5	10	
DULUX L 36 W/860	4050300328263	36	LUMILUX Daylight	1 B	2750	2G11	411	415	17.5	10	
DULUX L 36 W/840	4050300010786	36	LUMILUX Cool White	1 B	2900	2G11	411	415	17.5	10	
DULUX L 36 W/830	4050300010793	36	LUMILUX Warm White	1 B	2900	2G11	411	415	17.5	10	
DULUX L 36 W/827	4050300010809	36	LUMILUX INTERNA	1 B	2900	2G11	411	415	17.5	10	
DULUX L 40 W/860 ¹⁾	4050300592008	40	LUMILUX Daylight	1 B	3325	2G11	533	535	17.5	10	
DULUX L 40 W/840 ¹⁾	4050300279909	40	LUMILUX Cool White	1 B	3500	2G11	533	535	17.5	10	
DULUX L 40 W/830 ¹⁾	4050300298894	40	LUMILUX Warm White	1 B	3500	2G11	533	535	17.5	10	
DULUX L 40 W/827 ¹⁾	4050300322285	40	LUMILUX INTERNA	1 B	3500	2G11	533	535	17.5	10	
DULUX L 55 W/860 ¹⁾	4050300553900	55	LUMILUX Daylight	1 B	4550	2G11	533	535	17.5	10	
DULUX L 55 W/840 ¹⁾	4050300295879	55	LUMILUX Cool White	1 B	4800	2G11	533	535	17.5	10	
DULUX L 55 W/830 ¹⁾	4050300298917	55	LUMILUX Warm White	1 B	4800	2G11	533	535	17.5	10	
DULUX L 55 W/827 ¹⁾	4050300315881	55	LUMILUX INTERNA	1 B	4800	2G11	533	535	17.5	10	
DULUX L 80 W/840 ¹⁾	4050300665481	80	LUMILUX Cool White	1 B	6000	2G11	570		17.5	10	
DULUX L 80 W/830 ¹⁾	4050300665467	80	LUMILUX Warm White	1 B	6000	2G11	570		17.5	10	
OSRAM DULUX® L COLOURED											
DULUX L 24 W/67	4050300354033	24	Blue		550	2G11	317	320	17.5	50	

For circuit diagrams with conventional control gear and HF systems see page 3.31. Electronic control gear QUICKTRONIC® see Section 9.

OSRAM DULUX® L lamps provide lighting designers with interesting options. Their pleasant and economical light can be used in unconventional ways for all indoor and outdoor lighting – ideal for new modular luminaires.

- Same luminous flux and power consumption as fluorescent tubes but less than half the length and more compact than U-shaped and circular lamps.
- Available in popular colour appearances – LUMILUX® and LUMILUX® DE LUXE.
- Can be combined with existing LUMILUX® lighting because the same range of colour appearances are available.

- Suitable for use with conventional control gear and starters (except for OSRAM DULUX® L 40 W, 55 W and 80 W) and for QUICKTRONIC® HF electronic control gear (see Section 9).
- Single-ended four-pin plug-in 2G11 base.
- OSRAM DULUX® L 40 W and L 55 W have been designed specifically for modular 600 mm luminaires.
- Comfortable light thanks to ECG operation.
- The coloured versions are ideal energy saving lamp for decoration.

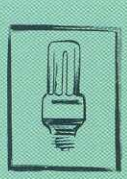
Applications:

Rectangular, square and round ceiling and wall luminaires for foyers, offices, shops and exhibitions.

1) For ECG operation only.
2) 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

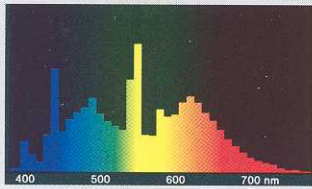
2) Design for cos phi = 0.95

Dielectric strength of the capacitors 250 V AC
Capacitance tolerance ± 10%.

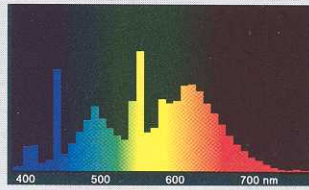
3) To maintain the specified operating and preheating values, close-tolerance capacitors (± 2%) and series resistors (± 1.5%) are required for series compensation. Check the product ranges of leading manufacturers. Dielectric strength of the capacitors = 450 V AC.

4) In preparation.

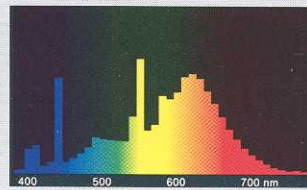
Spectral power distribution of OSRAM DULUX® lamps



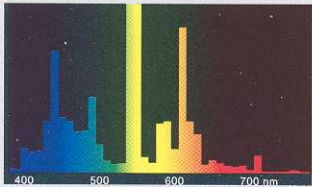
Colour 950 LUMILUX® DE LUXE Daylight



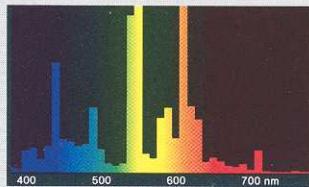
Colour 940 LUMILUX® DE LUXE Cool White



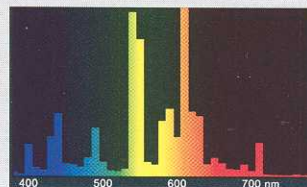
Colour 930 LUMILUX® DE LUXE Warm White



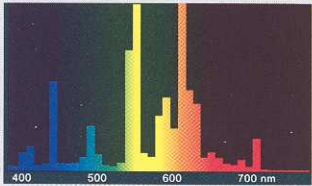
Colour 860 LUMILUX® Daylight



Colour 840 LUMILUX® Cool White



Colour 830 LUMILUX® Warm White

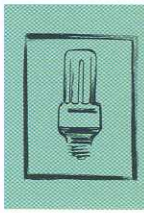


Colour 827 LUMILUX INTERNA®

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

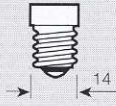
For an explanation of the colour appearances see page 4.23.

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

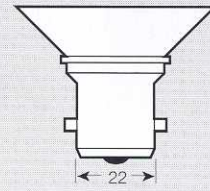
For direct connection to mains



E14
Sheet 7004-23



E27
Sheet 7004-21

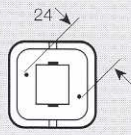


B22d
Sheet 7004-10

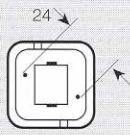
For switch-start operation



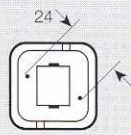
G23
Sheet 7004-69



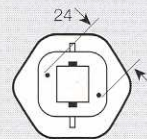
G24d-1
Sheet 7004-78



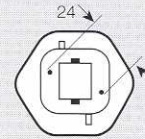
G24d-2
Sheet 7004-78



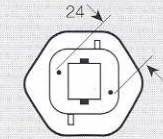
G24d-3
Sheet 7004-78



GX24d-1
Sheet 7004-78

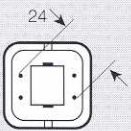


GX24d-2
Sheet 7004-78

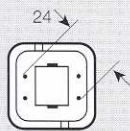


GX24d-3
Sheet 7004-78

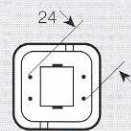
For HF operation



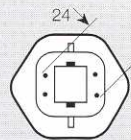
G24q-1
Sheet 7004-78



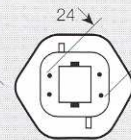
G24q-2
Sheet 7004-78



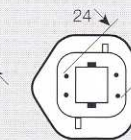
G24q-3
Sheet 7004-78



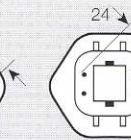
GX24q-1
Sheet 7004-78



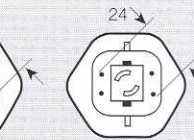
GX24q-2
Sheet 7004-78



GX24q-3
Sheet 7004-78

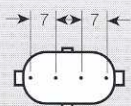


GX24q-4
Sheet 7004-78

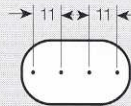


GX24q-5

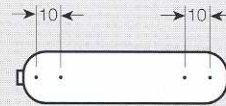
For HF operation



2G7
Sheet 7004-102

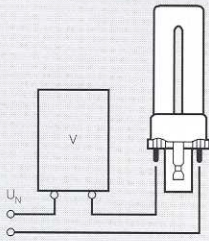


2G11
Sheet 7004-82

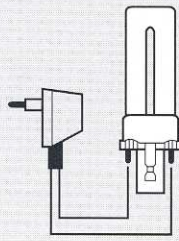


2G10
Sheet 7004-118

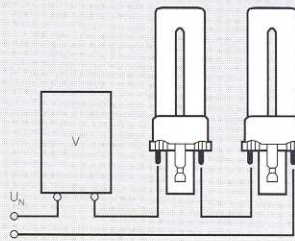
Circuit diagrams for conventional control gear



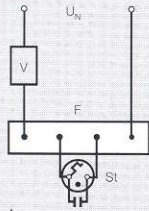
1
Single lamp with control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W, 18W, 26W
OSRAM DULUX® T 13W, 18W, 26W



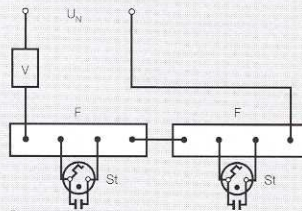
2
Single lamp with plug-in control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W
OSRAM DULUX® T 13W



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.

