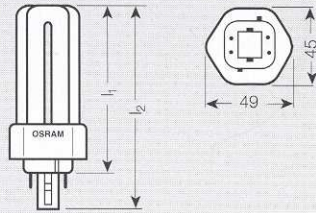


OSRAM DULUX® T/E

for electronic control gear (ECG)



75 W	→	13 W	
100 W	→	18 W	
2x 75 W	→	26 W	
150 W	→	32 W	
200 W	→	42 W	

Product reference

Product number

W



R_a

OSRAM DULUX® T/E

DULUX T/E 13 W/840	4050300446967	13	LUMILUX Cool White	1 B
DULUX T/E 13 W/830	4050300446981	13	LUMILUX Warm White	1 B
DULUX T/E 13 W/827	4050300447001	13	LUMILUX INTERNA	1 B
DULUX T/E 18 W/840	4050300342221	18	LUMILUX Cool White	1 B
DULUX T/E 18 W/830	4050300342245	18	LUMILUX Warm White	1 B
DULUX T/E 18 W/827	4050300342269	18	LUMILUX INTERNA	1 B
DULUX T/E 26 W/840	4050300342283	26	LUMILUX Cool White	1 B
DULUX T/E 26 W/830	4050300342306	26	LUMILUX Warm White	1 B
DULUX T/E 26 W/827	4050300342320	26	LUMILUX INTERNA	1 B
DULUX T/E 32 W/840	4050300348568	32	LUMILUX Cool White	1 B
DULUX T/E 32 W/830	4050300348582	32	LUMILUX Warm White	1 B
DULUX T/E 32 W/827	4050300348605	32	LUMILUX INTERNA	1 B
DULUX T/E 42 W/840	4050300425627	42	LUMILUX Cool White	1 B
DULUX T/E 42 W/830	4050300425641	42	LUMILUX Warm White	1 B
DULUX T/E 42 W/827	4050300425665	42	LUMILUX INTERNA	1 B

Product reference

Im



l₁ max.
[mm]

l₂ max.
[mm]

IEC
l₁ [mm]



DULUX T/E 13 W/840	900	GX24q-1	90	106	90	10
DULUX T/E 13 W/830	900	GX24q-1	90	106	90	10
DULUX T/E 13 W/827	900	GX24q-1	90	106	90	10
DULUX T/E 18 W/840	1200	GX24q-2	100	116	110	10
DULUX T/E 18 W/830	1200	GX24q-2	100	116	110	10
DULUX T/E 18 W/827	1200	GX24q-2	100	116	110	10
DULUX T/E 26 W/840	1800	GX24q-3	115	131	130	10
DULUX T/E 26 W/830	1800	GX24q-3	115	131	130	10
DULUX T/E 26 W/827	1800	GX24q-3	115	131	130	10
DULUX T/E 32 W/840	2400	GX24q-3	131	147	145	10
DULUX T/E 32 W/830	2400	GX24q-3	131	147	145	10
DULUX T/E 32 W/827	2400	GX24q-3	131	147	145	10
DULUX T/E 42 W/840	3200	GX24q-4	152	168	155	10
DULUX T/E 42 W/830	3200	GX24q-4	152	168	155	10
DULUX T/E 42 W/827	3200	GX24q-4	152	168	155	10

For circuit diagrams see page 3.31.

For QUICKTRONIC® electronic control gear see Section 9.

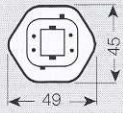
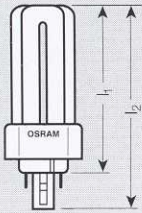
When operated on ECG, the lamp has ten times the life of a light bulb of the same light output. OSRAM DULUX® T/E are compact fluorescent lamps for HF control gear and for dimmer systems. These innovative energy saving lamps are designed for operation on batteries, solar cells and mains supply. They are suitable for high and low voltage and can be fully dimmed. Their dimensions and wattages are identical to those of the standard OSRAM DULUX® T models.

- Approx. two thirds the length of an OSRAM DULUX® D/E of the same wattage.
- Luminous flux values from 1200 to 3200 lm.
- The same radial luminous intensity distribution as ordinary light bulbs.
- Single-ended four-pin plug-in GX24q base with shortened base spigot to prevent two-pin lamps being fitted in T/E holders.

1) See page 3.30.

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

OSRAM DULUX® T/E IN (Amalgam) for electronic control gear (ECG)



100 W	→	18 W
2x 75 W	→	26 W
150 W	→	32 W
200 W	→	42 W
2x 150 W	→	57 W



Product
reference

Product
number

W



R_a

OSRAM DULUX® T/E IN

DULUX T/E 18 W/840 IN	4050300425320	18	LUMILUX Cool White	1 B
DULUX T/E 18 W/830 IN	4050300425344	18	LUMILUX Warm White	1 B
DULUX T/E 18 W/827 IN	4050300425368	18	LUMILUX INTERNA	1 B
DULUX T/E 26 W/840 IN	4050300425443	26	LUMILUX Cool White	1 B
DULUX T/E 26 W/830 IN	4050300425467	26	LUMILUX Warm White	1 B
DULUX T/E 26 W/827 IN	4050300425481	26	LUMILUX INTERNA	1 B
DULUX T/E 32 W/840 IN	4050300425504	32	LUMILUX Cool Wwhite	1 B
DULUX T/E 32 W/830 IN	4050300425528	32	LUMILUX Warm White	1 B
DULUX T/E 32 W/827 IN	4050300425542	32	LUMILUX INTERNA	1 B
DULUX T/E 42 W/840 IN	4050300425566	42	LUMILUX Cool White	1 B
DULUX T/E 42 W/830 IN	4050300425580	42	LUMILUX Warm White	1 B
DULUX T/E 42 W/827 IN	4050300425603	42	LUMILUX INTERNA	1 B
DULUX T/E 57 W/840 IN ²⁾	4050300622675	57	LUMILUX Cool White	1 B
DULUX T/E 57 W/830 IN ²⁾	4050300622699	57	LUMILUX Warm White	1 B
DULUX T/E 57 W/827 IN ²⁾	4050300622712	57	LUMILUX INTERNA	1 B

OSRAM DULUX® T/E IN lamps were developed specifically for indoor lighting applications in which high ambient temperatures occur (in narrow downlights for example).

Product
reference

lm



l1 max.
[mm]

l2 max.
[mm]

IEC
l1 [mm]



DULUX T/E 18 W/840 IN	1200	GX24q-2	95	111	110	10
DULUX T/E 18 W/830 IN	1200	GX24q-2	95	111	110	10
DULUX T/E 18 W/827 IN	1200	GX24q-2	95	111	110	10
DULUX T/E 26 W/840 IN	1800	GX24q-3	110	126	130	10
DULUX T/E 26 W/830 IN	1800	GX24q-3	110	126	130	10
DULUX T/E 26 W/827 IN	1800	GX24q-3	110	126	130	10
DULUX T/E 32 W/840 IN	2400	GX24q-3	126	142	145	10
DULUX T/E 32 W/830 IN	2400	GX24q-3	126	142	145	10
DULUX T/E 32 W/827 IN	2400	GX24q-3	126	142	145	10
DULUX T/E 42 W/840 IN	3200	GX24q-4	147	163	155	10
DULUX T/E 42 W/830 IN	3200	GX24q-4	147	163	155	10
DULUX T/E 42 W/827 IN	3200	GX24q-4	147	163	155	10
DULUX T/E 57 W/840 IN	4300	GX24q-5	181	197	181	10
DULUX T/E 57 W/830 IN	4300	GX24q-5	181	197	181	10
DULUX T/E 57 W/827 IN	4300	GX24q-5	181	197	181	10

For circuit diagrams see page 3.31.

For QUICKTRONIC® electronic control gear see Section 9.

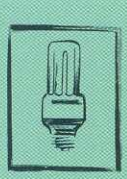
OSRAM DULUX® T/E IN lamps with amalgam technology are OSRAM DULUX® T/E versions for high ambient temperatures. 90 percent of the luminous flux is achieved at ambient temperatures between 10° and 70°C. They can be used in almost all burning positions. They can be operated with ECG for OSRAM DULUX® T/E lamps.

- Same base as OSRAM DULUX® T/E.
- All the benefits of OSRAM DULUX® T/E.
- New higher wattage:
OSRAM DULUX® T/E 57 W IN with 4300 lm.

1) See page 3.30.

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

Technical data



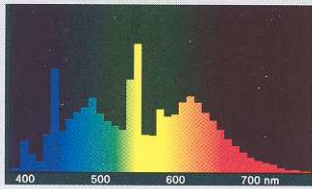
Lamp OSRAM DULUX® Watt	Lamp voltage for 50/60Hz V		Lamp current for 50/60Hz mA		Wattage with control gear CCG ¹⁾ ECG W		Lumi- nance cd/cm ² LF 827, 830, 840	Compensation Parallel capacitor ²⁾ CCG 230V/50Hz µF	Series capacitor ³⁾ CCG µF
	for HF V		for HF mA						
DULUX S 5	35	—	180	—	10	—	2.5	2.2	—
DULUX 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".

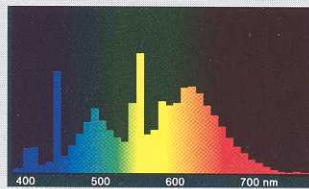
1) Approximate values for low-loss control gear – depending on the control gear
2) Design for cos phi = 0.95
Dielectric strength of the capacitors 250 V AC
Capacitance tolerance ± 10%.

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.

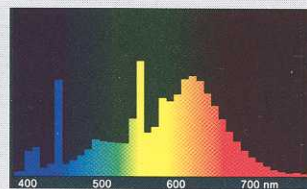
Spectral power distribution of OSRAM DULUX® lamps



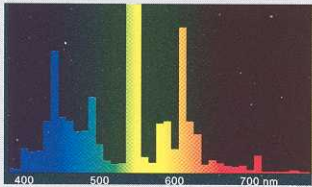
Colour 950 LUMILUX® DE LUXE Daylight



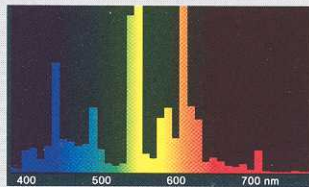
Colour 940 LUMILUX® DE LUXE Cool White



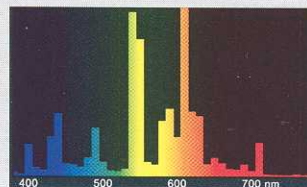
Colour 930 LUMILUX® DE LUXE Warm White



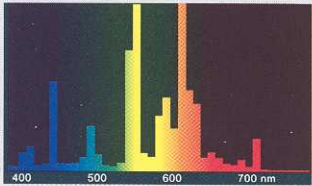
Colour 860 LUMILUX® Daylight



Colour 840 LUMILUX® Cool White



Colour 830 LUMILUX® Warm White

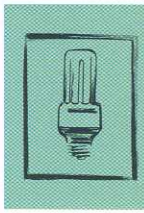


Colour 827 LUMILUX INTERNA®

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

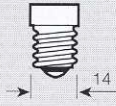
For an explanation of the colour appearances see page 4.23.

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

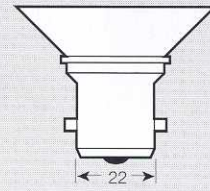
For direct connection to mains



E14
Sheet 7004-23



E27
Sheet 7004-21

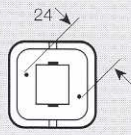


B22d
Sheet 7004-10

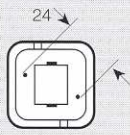
For switch-start operation



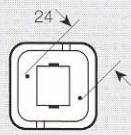
G23
Sheet 7004-69



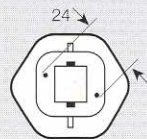
G24d-1
Sheet 7004-78



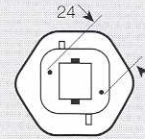
G24d-2
Sheet 7004-78



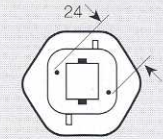
G24d-3
Sheet 7004-78



GX24d-1
Sheet 7004-78

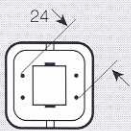


GX24d-2
Sheet 7004-78

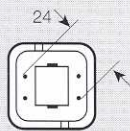


GX24d-3
Sheet 7004-78

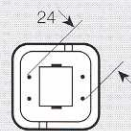
For HF operation



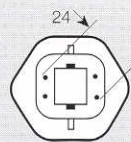
G24q-1
Sheet 7004-78



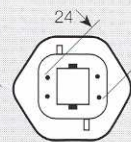
G24q-2
Sheet 7004-78



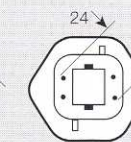
G24q-3
Sheet 7004-78



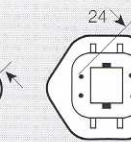
GX24q-1
Sheet 7004-78



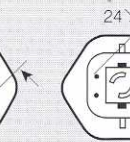
GX24q-2
Sheet 7004-78



GX24q-3
Sheet 7004-78

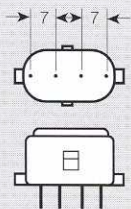


GX24q-4
Sheet 7004-78

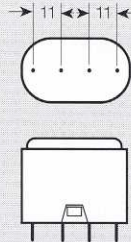


GX24q-5

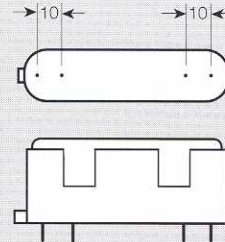
For HF operation



2G7
Sheet 7004-102

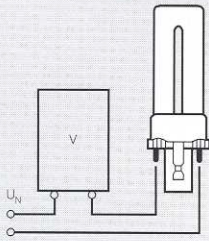


2G11
Sheet 7004-82

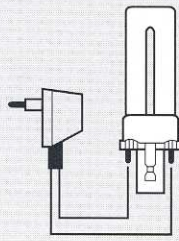


2G10
Sheet 7004-118

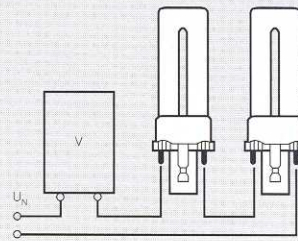
Circuit diagrams for conventional control gear



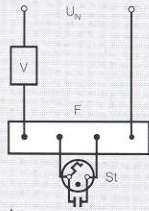
1
Single lamp with control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W, 18W, 26W
OSRAM DULUX® T 13W, 18W, 26W



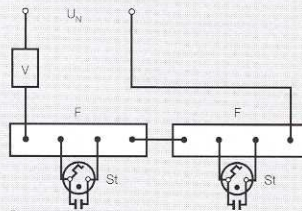
2
Single lamp with plug-in control gear
OSRAM DULUX® S 5W, 7W, 9W, 11W
OSRAM DULUX® D 10W, 13W
OSRAM DULUX® T 13W



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.

