



OSRAM DULUX® – promising a more efficient future.

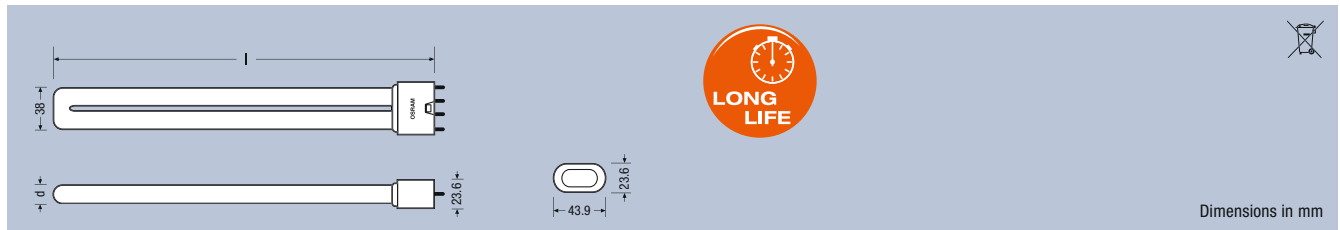
Average life of up to 36,000 hours: optimized OSRAM DULUX® compact fluorescent lamps with plug-in bases.

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OSRAM



OSRAM DULUX® L XT – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)



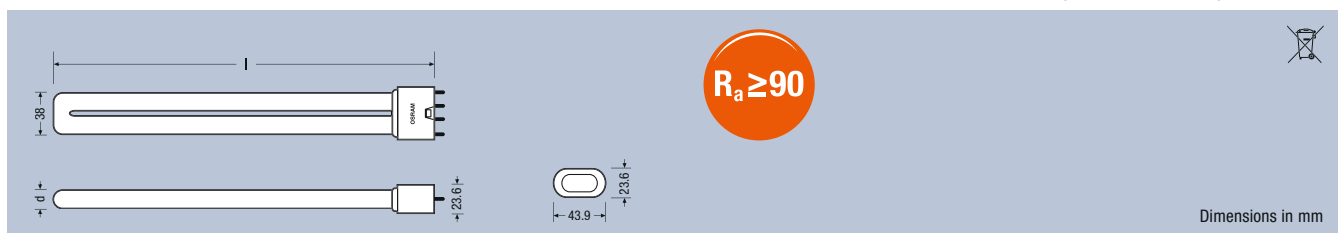
Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L XT¹ (Long Life)											
DULUX L 18W/830 XT	18	LUMILUX Warm White	1B	1,200	217	225	17.5	2G11	10	4008321507570	B
DULUX L 18W/840 XT	18	LUMILUX Cool White	1B	1,200	217	225	17.5	2G11	10	4008321507594	B
DULUX L 24W/830 XT	24	LUMILUX Warm White	1B	1,800	317	320	17.5	2G11	10	4008321507617	B
DULUX L 24W/840 XT	24	LUMILUX Cool White	1B	1,800	317	320	17.5	2G11	10	4008321507631	B
DULUX L 36W/830 XT	36	LUMILUX Warm White	1B	2,900	411	415	17.5	2G11	10	4008321507655	A
DULUX L 36W/840 XT	36	LUMILUX Cool White	1B	2,900	411	415	17.5	2G11	10	4008321507679	A
DULUX L 55W/830 XT ²	55	LUMILUX Warm White	1B	4,800	533	535	17.5	2G11	10	4008321507693	A
DULUX L 55W/840 XT ²	55	LUMILUX Cool White	1B	4,800	533	535	17.5	2G11	10	4008321507716	A

¹ Planned to be available from December 2010.

² For ECG operation only.

OSRAM DULUX® L LUMILUX® DE LUXE – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

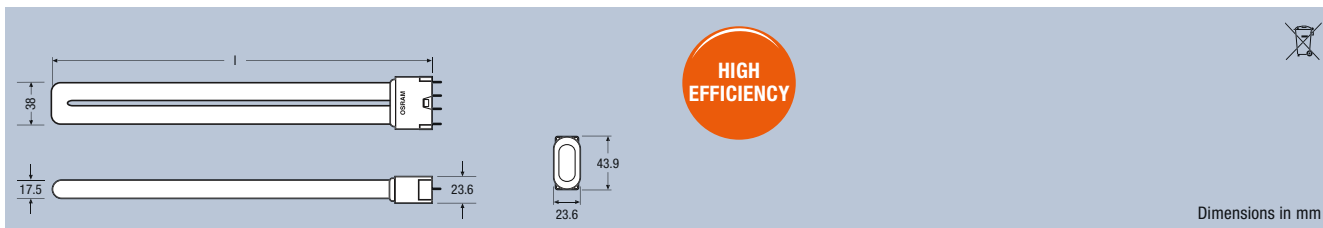


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L LUMILUX® DE LUXE											
DULUX L 18W/930	18	LUMILUX DE LUXE Warm White	1A	950	217	225	17.5	2G11	10	4050300018324	B
DULUX L 18W/940	18	LUMILUX DE LUXE Cool White	1A	950	217	225	17.5	2G11	10	4050300018560	B
DULUX L 18W/954	18	LUMILUX DE LUXE Daylight	1A	950	217	225	17.5	2G11	10	4050300018423	B
DULUX L 24W/930	24	LUMILUX DE LUXE Warm White	1A	1,500	317	320	17.5	2G11	10	4050300018386	B
DULUX L 24W/940	24	LUMILUX DE LUXE Cool White	1A	1,500	317	320	17.5	2G11	10	4050300018584	B
DULUX L 24W/954	24	LUMILUX DE LUXE Daylight	1A	1,500	317	320	17.5	2G11	10	4050300018447	B
DULUX L 36W/930	36	LUMILUX DE LUXE Warm White	1A	2,350	411	415	17.5	2G11	10	4050300018393	B
DULUX L 36W/940	36	LUMILUX DE LUXE Cool White	1A	2,350	411	415	17.5	2G11	10	4050300018607	B
DULUX L 36W/954	36	LUMILUX DE LUXE Daylight	1A	2,350	411	415	17.5	2G11	10	4050300018461	B
DULUX L 40W/954 ¹	40	LUMILUX DE LUXE Daylight	1A	2,950	533	535	17.5	2G11	10	40503000315799	B
DULUX L 55W/930 ¹	55	LUMILUX DE LUXE Warm White	1A	4,000	533	535	17.5	2G11	10	40503000370705	B
DULUX L 55W/940 ¹	55	LUMILUX DE LUXE Cool White	1A	4,000	533	535	17.5	2G11	10	40503000197999	B
DULUX L 55W/954 ¹	55	LUMILUX DE LUXE Daylight	1A	4,000	533	535	17.5	2G11	10	40503000321400	B

¹ For ECG operation only.

OSRAM DULUX® L HE – FOR ELECTRONIC CONTROL GEAR (ECG)



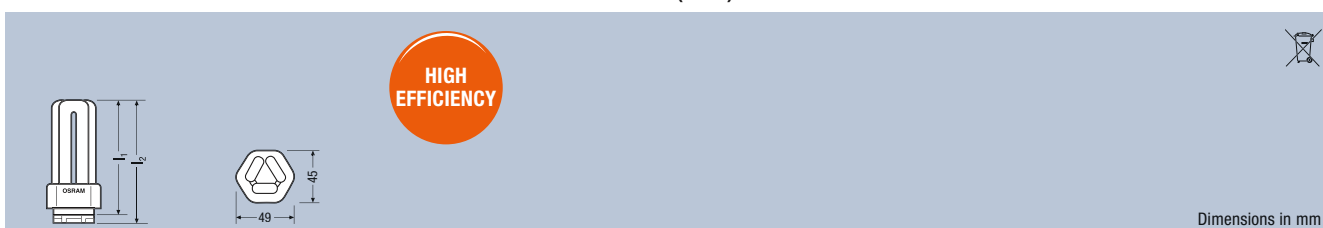
Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous ¹ flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L HE (High Efficiency)										
DULUX L 16W/830 HE ²	16	LUMILUX Warm White	1B	1,600	317	u.c.	2GX11	10	4008321507792	A
DULUX L 16W/840 HE ²	16	LUMILUX Cool White	1B	1,600	317	u.c.	2GX11	10	4008321507815	A
DULUX L 22W/830 HE ²	22	LUMILUX Warm White	1B	2,200	411	u.c.	2GX11	10	4008321507839	A
DULUX L 22W/840 HE ²	22	LUMILUX Cool White	1B	2,200	411	u.c.	2GX11	10	4008321508638	A
DULUX L 26W/830 HE ²	26	LUMILUX Warm White	1B	2,600	533	u.c.	2GX11	10	4008321508584	A
DULUX L 26W/840 HE ²	26	LUMILUX Cool White	1B	2,600	533	u.c.	2GX11	10	4008321508713	A
DULUX L 28W/830 HE	28	LUMILUX Warm White	1B	2,800	565	565	2GX11	10	4008321296719	A
DULUX L 28W/840 HE	28	LUMILUX Cool White	1B	2,800	565	565	2GX11	10	4008321296757	A

¹At an ambient temperature of +35 °C.

²Planned to be available from April 2010.

OSRAM DULUX® T/E HE – FOR ELECTRONIC CONTROL GEAR (ECG)

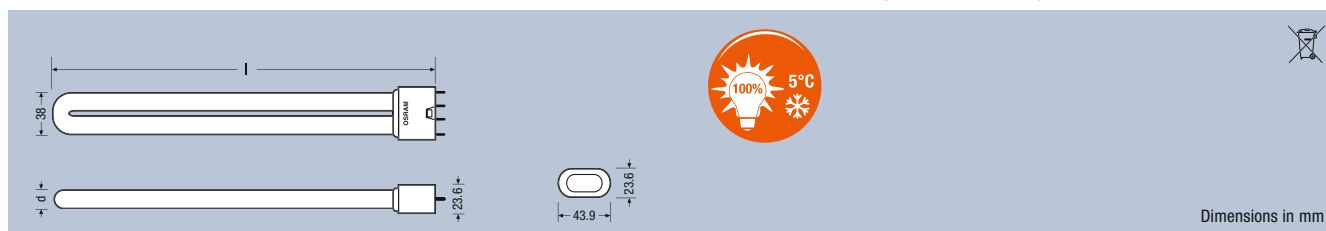


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous ¹ flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® T/E HE (High Efficiency)											
DULUX T/E 11 W/830 HE	11	LUMILUX Warm White	1B	900	105	112	120	GR14q-1	10	4008321359452	A
DULUX T/E 11 W/840 HE	11	LUMILUX Cool White	1B	900	105	112	120	GR14q-1	10	4008321359476	A
DULUX T/E 14 W/830 HE	14	LUMILUX Warm White	1B	1,200	122	129	140	GR14q-1	10	4008321290496	A
DULUX T/E 14 W/840 HE	14	LUMILUX Cool White	1B	1,200	122	129	140	GR14q-1	10	4008321290519	A
DULUX T/E 17 W/830 HE	17	LUMILUX Warm White	1B	1,500	141	146	150	GR14q-1	10	4008321290533	A
DULUX T/E 17 W/840 HE	17	LUMILUX Cool White	1B	1,500	141	146	150	GR14q-1	10	4008321290557	A

¹At an ambient temperature of +35 °C.

OSRAM DULUX® L SP – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

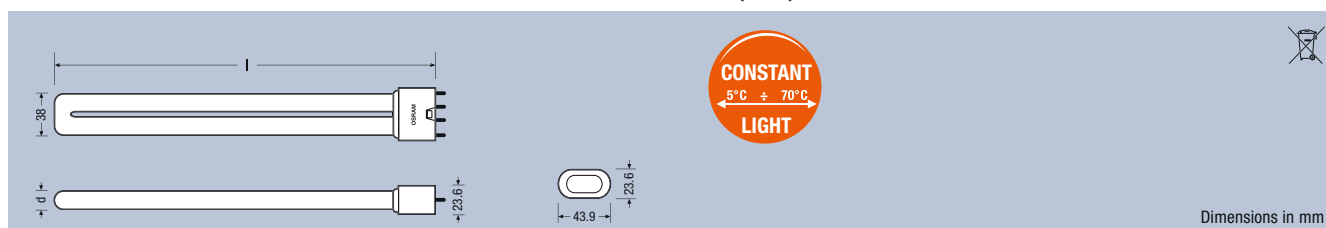


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L SP											
DULUX L 18W/830 SP	18	LUMILUX Warm White	1B	1,200	209	225	17.5	2G11	10	4050300300276	B
DULUX L 18W/840 SP	18	LUMILUX Cool White	1B	1,200	209	225	17.5	2G11	10	4008321280497	B
DULUX L 24W/830 SP	24	LUMILUX Warm White	1B	1,800	309	320	17.5	2G11	10	4050300300238	B
DULUX L 24W/840 SP	24	LUMILUX Cool White	1B	1,800	309	320	17.5	2G11	10	4008321280510	B
DULUX L 36W/830 SP	36	LUMILUX Warm White	1B	2,900	403	415	17.5	2G11	10	4008321283757	A
DULUX L 36W/840 SP	36	LUMILUX Cool White	1B	2,900	403	415	17.5	2G11	10	4008321283771	A

¹At an ambient temperature of +5 °C.

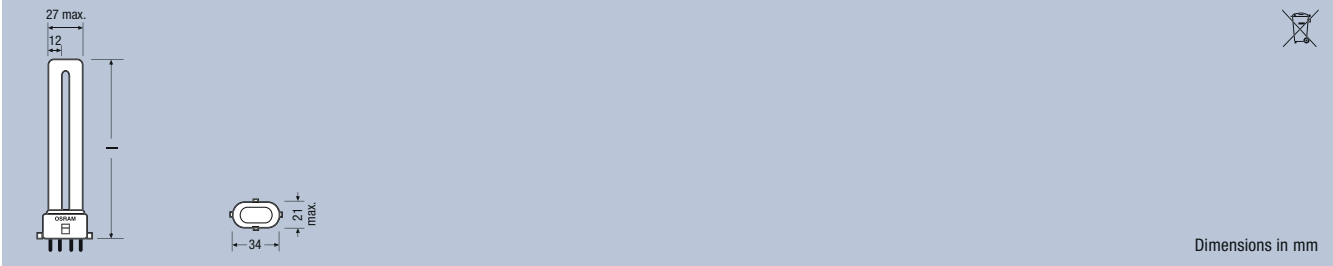
OSRAM DULUX® L CONSTANT – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Luminous flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® L CONSTANT											
DULUX L 40W/840 CONSTANT	40	LUMILUX Cool White	1B	3,500	533	535	17.5	2G11	10	4008321104823	A
DULUX L 55W/840 CONSTANT	55	LUMILUX Cool White	1B	4,800	533	535	17.5	2G11	10	4008321104847	A
DULUX L 80W/840 CONSTANT	80	LUMILUX Cool White	1B	6,500	565	565	17.5	2G11	10	4008321104861	B

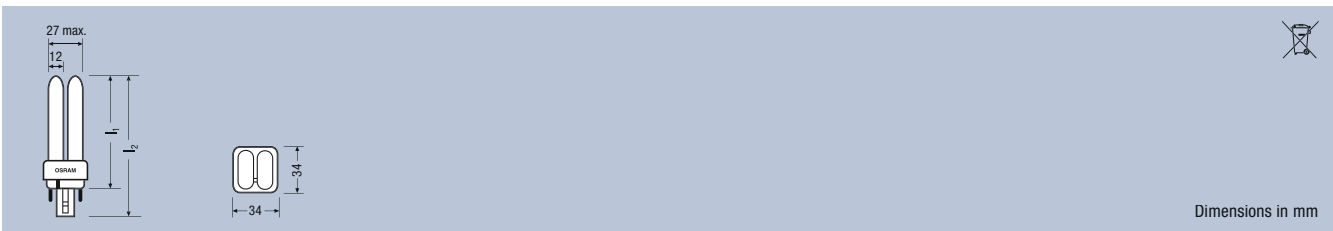
OSRAM DULUX® S/E – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering group	Luminous flux (lm)	Length l ₁ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® S/E										
DULUX S/E 7W/827	7	LUMILUX INTERNA	1B	400	114	115	2G7	10	4050300017648	B
DULUX S/E 7W/830	7	LUMILUX Warm White	1B	400	114	115	2G7	10	4050300591988	B
DULUX S/E 7W/840	7	LUMILUX Cool White	1B	400	114	115	2G7	10	4050300020167	B
DULUX S/E 9W/827	9	LUMILUX INTERNA	1B	600	144	145	2G7	10	4050300017655	A
DULUX S/E 9W/830	9	LUMILUX Warm White	1B	600	144	145	2G7	10	4050300589398	A
DULUX S/E 9W/840	9	LUMILUX Cool White	1B	600	144	145	2G7	10	4050300020174	A
DULUX S/E 11W/827	11	LUMILUX INTERNA	1B	900	214	215	2G7	10	4050300017662	A
DULUX S/E 11W/830	11	LUMILUX Warm White	1B	900	214	215	2G7	10	4050300589374	A
DULUX S/E 11W/840	11	LUMILUX Cool White	1B	900	214	215	2G7	10	4050300020181	A

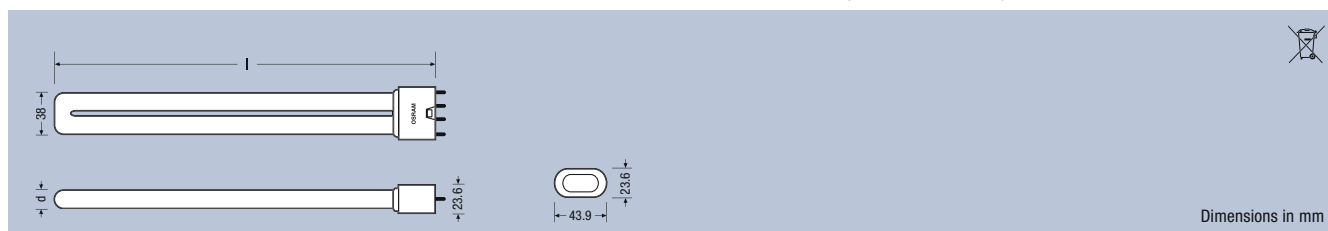
OSRAM DULUX® D/E – FOR ELECTRONIC CONTROL GEAR (ECG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering group	Luminous flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Standard pack (pcs.)	EAN	Energy label
OSRAM DULUX® D/E											
DULUX D/E 10W/827	10	LUMILUX INTERNA	1B	600	87	103	95	G24q-1	10	4050300012124	B
DULUX D/E 10W/830	10	LUMILUX Warm White	1B	600	87	103	95	G24q-1	10	4050300419435	B
DULUX D/E 10W/835	10	LUMILUX White	1B	600	87	103	95	G24q-1	10	4050300450933	B
DULUX D/E 10W/840	10	LUMILUX Cool White	1B	600	87	103	95	G24q-1	10	4050300017587	B
DULUX D/E 13W/827	13	LUMILUX INTERNA	1B	900	115	131	130	G24q-1	10	4050300012131	A
DULUX D/E 13W/830	13	LUMILUX Warm White	1B	900	115	131	130	G24q-1	10	4050300389059	A
DULUX D/E 13W/835	13	LUMILUX White	1B	900	115	131	130	G24q-1	10	4050300450957	A
DULUX D/E 13W/840	13	LUMILUX Cool White	1B	900	115	131	130	G24q-1	10	4050300017594	A
DULUX D/E 18W/827	18	LUMILUX INTERNA	1B	1,200	130	146	140	G24q-2	10	4050300012148	B
DULUX D/E 18W/830	18	LUMILUX Warm White	1B	1,200	130	146	140	G24q-2	10	4050300327211	B
DULUX D/E 18W/835	18	LUMILUX White	1B	1,200	130	146	140	G24q-2	10	4050300450971	B
DULUX D/E 18W/840	18	LUMILUX Cool White	1B	1,200	130	146	140	G24q-2	10	4050300017617	B
DULUX D/E 18W/865	18	LUMILUX Cool Daylight	1B	1,140	130	146	140	G24q-2	10	4050300564944	B
DULUX D/E 26W/827	26	LUMILUX INTERNA	1B	1,800	149	165	160	G24q-3	10	4050300012230	B
DULUX D/E 26W/830	26	LUMILUX Warm White	1B	1,800	149	165	160	G24q-3	10	4050300327235	B
DULUX D/E 26W/835	26	LUMILUX White	1B	1,800	149	165	160	G24q-3	10	4050300450995	B
DULUX D/E 26W/840	26	LUMILUX Cool White	1B	1,800	149	165	160	G24q-3	10	4050300020303	B
DULUX D/E 26W/865	26	LUMILUX Cool Daylight	1B	1,710	149	165	160	G24q-3	10	4008321185877	B

OSRAM DULUX® L – FOR CONVENTIONAL AND ELECTRONIC CONTROL GEAR (CCG AND ECG)

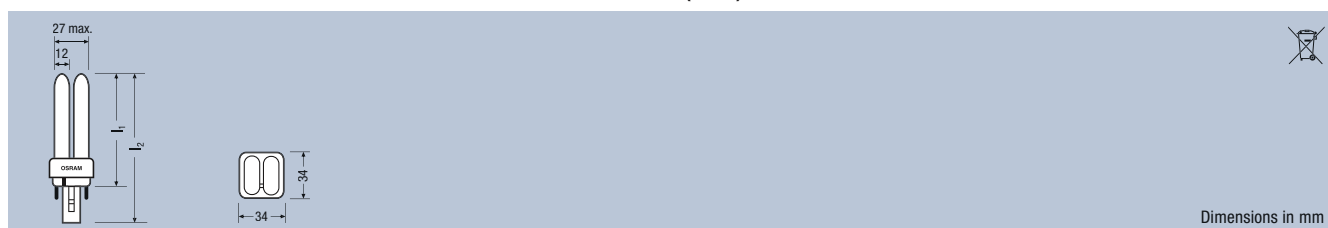


Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Lumino- flux (lm)	Length l max. (mm)	Length to IEC l max. (mm)	Tube diameter d (mm)	Base	Stand- ard pack (pcs.)	EAN	Ener- gy label
OSRAM DULUX® L LUMILUX®											
DULUX L 18W/827	18	LUMILUX INTERNA	1B	1,200	217	225	17.5	2G11	10	4050300010748	B
DULUX L 18W/830	18	LUMILUX Warm White	1B	1,200	217	225	17.5	2G11	10	4050300010731	B
DULUX L 18W/835	18	LUMILUX White	1B	1,200	217	225	17.5	2G11	10	4050300295893	B
DULUX L 18W/840	18	LUMILUX Cool White	1B	1,200	217	225	17.5	2G11	10	4050300010724	B
DULUX L 24W/827	24	LUMILUX INTERNA	1B	1,800	317	320	17.5	2G11	10	4050300010779	B
DULUX L 24W/830	24	LUMILUX Warm White	1B	1,800	317	320	17.5	2G11	10	4050300010762	B
DULUX L 24W/835	24	LUMILUX White	1B	1,800	317	320	17.5	2G11	10	4050300295916	B
DULUX L 24W/840	24	LUMILUX Cool White	1B	1,800	317	320	17.5	2G11	10	4050300010755	B
DULUX L 36W/827	36	LUMILUX INTERNA	1B	2,900	411	415	17.5	2G11	10	4050300010809	A
DULUX L 36W/830	36	LUMILUX Warm White	1B	2,900	411	415	17.5	2G11	10	4050300010793	A
DULUX L 36W/835	36	LUMILUX White	1B	2,900	411	415	17.5	2G11	10	4050300295930	A
DULUX L 36W/840	36	LUMILUX Cool White	1B	2,900	411	415	17.5	2G11	10	4050300010786	A
DULUX L 36W/865	36	LUMILUX Cool Daylight	1B	2,750	411	415	17.5	2G11	10	4050300328263	B
DULUX L 36W/880	36	LUMILUX SKYWHITE	1B	2,600	411	415	17.5	2G11	10	4008321185891	B
DULUX L 40W/827 ¹	40	LUMILUX INTERNA	1B	3,500	533	535	17.5	2G11	10	4050300322285	A
DULUX L 40W/830 ¹	40	LUMILUX Warm White	1B	3,500	533	535	17.5	2G11	10	4050300298894	A
DULUX L 40W/835 ¹	40	LUMILUX White	1B	3,500	533	535	17.5	2G11	10	4050300295954	A
DULUX L 40W/840 ¹	40	LUMILUX Cool White	1B	3,500	533	535	17.5	2G11	10	4050300279909	A
DULUX L 40W/865 ¹	40	LUMILUX Cool Daylight	1B	3,325	533	535	17.5	2G11	10	4050300592008	A
DULUX L 40W/880 ¹	40	LUMILUX SKYWHITE	1B	3,150	533	535	17.5	2G11	10	4008321185914	B
DULUX L 55W/827 ¹	55	LUMILUX INTERNA	1B	4,800	533	535	17.5	2G11	10	4050300315881	A
DULUX L 55W/830 ¹	55	LUMILUX Warm White	1B	4,800	533	535	17.5	2G11	10	4050300298917	A
DULUX L 55W/835 ¹	55	LUMILUX White	1B	4,800	533	535	17.5	2G11	10	4050300295978	A
DULUX L 55W/840 ¹	55	LUMILUX Cool White	1B	4,800	533	535	17.5	2G11	10	4050300295879	A
DULUX L 55W/865 ¹	55	LUMILUX Cool Daylight	1B	4,550	533	535	17.5	2G11	10	4050300553900	B
DULUX L 55W/880 ¹	55	LUMILUX SKYWHITE	1B	4,300	533	535	17.5	2G11	10	4008321185938	B
DULUX L 80W/830 ¹	80	LUMILUX Warm White	1B	6,500	565	565	17.5	2G11	10	4050300665467	B
DULUX L 80W/840 ¹	80	LUMILUX Cool White	1B	6,500	565	565	17.5	2G11	10	4050300665481	B
DULUX L 80W/880 ¹	80	LUMILUX SKYWHITE	1B	5,850	565	565	17.5	2G11	10	4008321185952	B

¹ For ECG operation only.

OSRAM DULUX® D ES – FOR CONVENTIONAL CONTROL GEAR (CCG)



Dimensions in mm

Reference	Nominal wattage (Watt)	Light color	Color rendering (group)	Lumino- flux (lm)	Length l ₁ max. (mm)	Length l ₂ max. (mm)	Length to IEC l ₁ max. (mm)	Base	Stand- ard pack (pcs.)	EAN	Ener- gy label
OSRAM DULUX® D ES											
DULUX D 16W/827 ES	16	LUMILUX INTERNA	1B	1,150	130	153	140	G24d-2	10	4008321940773	A
DULUX D 16W/830 ES	16	LUMILUX Warm White	1B	1,150	130	153	140	G24d-2	10	4008321940797	A
DULUX D 16W/840 ES	16	LUMILUX Cool White	1B	1,150	130	153	140	G24d-2	10	4008321940810	A
DULUX D 23W/827 ES	23	LUMILUX INTERNA	1B	1,750	149	172	160	G24d-3	10	4008321940759	A
DULUX D 23W/830 ES	23	LUMILUX Warm White	1B	1,750	149	172	160	G24d-3	10	4008321940711	A
DULUX D 23W/840 ES	23	LUMILUX Cool White	1B	1,750	149	172	160	G24d-3	10	4008321940735	A

TECHNICAL DATA

Lamp	Lamp voltage		Lamp current		System wattage ECG operation ¹ (W)	Luminance cd/cm ² LF 827,830,840	Compensation	
	at 50/60Hz (V)	for HF operation (V)	at 50/60Hz (mA)	in HF operation (mA)			Parallel capacitor ² CCG operation 230V/50Hz µF	Series capacitor ³ CCG opera- tion µF
CFL SQUARE 16 W	103	84	195	180	–	–	–	–
CFL SQUARE 28 W	108	97	320	280	–	–	–	–
CFL SQUARE 38 W	110	96	430	380	–	–	–	–
DULUX [®] S 5 W	35	–	180	–	–	2.5	2.2	–
DULUX [®] S 7 W	47/45	–	175/180	–	–	2.6	2.1	–
DULUX [®] S 9 W	60/59	–	170/180	–	–	2.8	2.0	–
DULUX [®] S 11 W	91/–	–	155/–	–	–	2.7	1.7	–
DULUX [®] D 10 W	64	–	190	–	–	4.0	2.2	1.4
DULUX [®] D 13 W	91	–	175	–	–	4.0	1.8	1.4
DULUX [®] D 18 W	100	–	220	–	–	4.5	2.2	1.7
DULUX [®] D 26 W	105	–	325	–	–	5.5	3.2	2.5
DULUX [®] D ES 16 W	85	–	235	–	–	4.3	2.2	1.7
DULUX [®] D ES 23 W	90	–	340	–	–	4.3	3.2	2.5
DULUX [®] T 13 W	91	–	175	–	–	4.2	1.8	1.4
DULUX [®] T 18 W	100	–	225	–	–	4.7	2.3	1.7
DULUX [®] T 26 W	105	–	325	–	–	6.0	3.3	2.5
DULUX [®] S/E 7 W	–	37	–	175	9	2.6	–	–
DULUX [®] S/E 9 W	–	48	–	170	12	2.8	–	–
DULUX [®] S/E 11 W	–	75	–	150	14	2.7	–	–
DULUX [®] D/E 10 W	–	51	–	190	12	4.0	–	–
DULUX [®] D/E 13 W	–	77	–	165	14	4.0	–	–
DULUX [®] D/E 18 W ⁴	–	80	–	210	20	4.5	–	–
DULUX [®] D/E 26 W ⁴	–	80	–	300	28	5.5	–	–
DULUX [®] T/E 13 W	–	77	–	165	14	4.2	–	–
DULUX [®] T/E 18 W	–	80	–	210	20	4.7	–	–
DULUX [®] T/E 26 W ⁵	–	80	–	300	28	6.0	–	–
DULUX [®] T/E 32 W ^{4,5}	–	100	–	320	35	6.5	–	–
DULUX [®] T/E 42 W ^{4,5}	–	135	–	320	46	7.0	–	–
DULUX [®] T/E HE 11 W	–	80	–	150	13.5	3.0	–	–
DULUX [®] T/E HE 14 W	–	100	–	150	17.1	3.0	–	–
DULUX [®] T/E HE 17 W	–	120	–	150	18.8	3.0	–	–
DULUX [®] L 18 W ^{4,6}	58	50	375	320	19	2.1	4.2	2.7
DULUX [®] L 24 W ^{4,6}	87	75	345	300	27	2.1	3.6	2.7
DULUX [®] L 36 W ^{4,6}	106	90	435	360	39	2.8	4.4	3.4
DULUX [®] L 40 W ⁵	–	126	–	320	45	2.3	–	–
DULUX [®] L 55 W ^{4,5}	–	101	–	550	61	3.2	–	–
DULUX [®] L 80 W ⁵	–	145	–	555	86	3.7	–	–
DULUX [®] L HE 16 W	–	u.c.	–	170	u.c.	u.c.	–	–
DULUX [®] L HE 22 W	–	u.c.	–	170	u.c.	u.c.	–	–
DULUX [®] L HE 26 W	–	u.c.	–	170	u.c.	u.c.	–	–
DULUX [®] L HE 28 W	–	146	–	190	31	1.9	–	–
DULUX [®] F 18 W	58	50	375	320	19	2.4	4.2	2.7
DULUX [®] F 24 W	87	75	345	300	27	2.5	3.6	2.7
DULUX [®] F 36 W	106	90	435	360	39	3.0	4.4	3.4

¹ ECG also available in two-lamp version.

For detailed technical information see the "Technical Guides".

² Design for $\cos \phi = 0.95$, dielectric strength of the capacitors 250 V ac, capacitance tolerance $\pm 10\%$.

³ To maintain the specified operating and preheating values, closetolerance capacitors ($\pm 2\%$) and series reactors ($\pm 1.5\%$) are required for series compensation. Check the product ranges of leading manufacturers. Dielectric strength of the capacitors 450 V ac.

⁴ Also applies to the XT version.

⁵ Also applies to the CONSTANT version.

⁶ Also applies to the SP version at $+5^\circ\text{C}$.