

DULUX® T/E PLUS

IMPROVED LIFE TIME & OSRAM SYSTEM+
GUARANTEE



DULUX® T/E PLUS



QTP-M 1x26-42



OSRAM System+ Guarantee

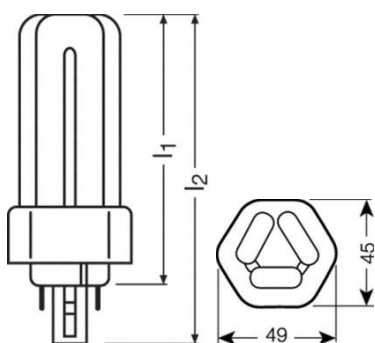
Benefits

- Extremely economical
- Good quality of light
- Excellent luminous flux
- Long service life time¹
- OSRAM System+ Guarantee LUMILUX® with OSRAM QUICKTRONIC® ECG
- Environmental friendly

Product Features

- Improved average lamp life: up to 20,000h (with QUICKTRONIC®)
- Good color rendering index 1B (R_a 80...89)
- Improved lumen maintenance
- Dimmable from 3...100%
- For operation on electronic control gear (ECG)
- Available light colors: Cool White (840), Warm White (830), Extra Warm White (827)

Dimensions



Description	Base	Max Length L1 [mm]	Max Length L1 IEC [mm]	Max Length L2 [mm]
DULUX® T/E PLUS 13 W	GX24q-1	90	90	106
DULUX® T/E PLUS 18 W	GX24q-2	101	110	117
DULUX® T/E PLUS 26 W	GX24q-3	116	130	132
DULUX® T/E PLUS 32 W	GX24d-3	132	145	148
DULUX® T/E PLUS 42 W	GX24q-4	153	155	169

¹ Service life time is the mathematical life time (maintenance multiplied with the % of failed lamps e.g. B10) for lamps in an installation after which the installation luminous flux (100 h value) decreased with 30 % (decrease in luminous flux and failed lamps) for indoor lighting. Edition 01.2014. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

Electrical Data²

Lamps operated with **HF³** reference control gear at 25 °C (100 h aged) ambient temperature

DULUX® T/E PLUS	Lamp Voltage rated [V]	Lamp Current rated [mA]	Lamp Power rated [W]
13 W	77	165	12.5
18 W	80	210	16.5
26 W	80	300	24.0
32 W	100	320	32.0
42 W	135	320	43.0

Photometrical Data at 25 °C (100 h aged) ambient temperature⁴

DULUX® T/E PLUS	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Lumi-nance (LC ⁵ 840) [cd/cm ²]	Target Color Coordinate X	Target Color Coordinate Y	Nominal Luminous Flux [lm]	Efficacy 25 °C [lm/W]
13 W	827 INTERNA	80 ... 89	4.2	0.463	0.420	900	72
13 W	830 Warm White	80 ... 89	4.2	0.440	0.403	900	72
13 W	840 Cool White	80 ... 89	4.2	0.380	0.380	900	72
18 W	827 INTERNA	80 ... 89	4.7	0.463	0.420	1200	73
18 W	830 Warm White	80 ... 89	4.7	0.440	0.403	1200	73
18 W	840 Cool White	80 ... 89	4.7	0.380	0.380	1200	73
26 W	827 INTERNA	80 ... 89	6.0	0.463	0.420	1800	75
26 W	830 Warm White	80 ... 89	6.0	0.440	0.403	1800	75
26 W	840 Cool White	80 ... 89	6.0	0.380	0.380	1800	75
32 W	827 INTERNA	80 ... 89	6.5	0.463	0.420	2400	75
32 W	830 Warm White	80 ... 89	6.5	0.440	0.403	2400	75
32 W	840 Cool White	80 ... 89	6.5	0.380	0.380	2400	75
42 W	827 INTERNA	80 ... 89	7.0	0.463	0.420	3200	74
42 W	830 Warm White	80 ... 89	7.0	0.440	0.403	3200	74
42 W	840 Cool White	80 ... 89	7.0	0.380	0.380	3200	74

² According to IEC 60929

³ High Frequency

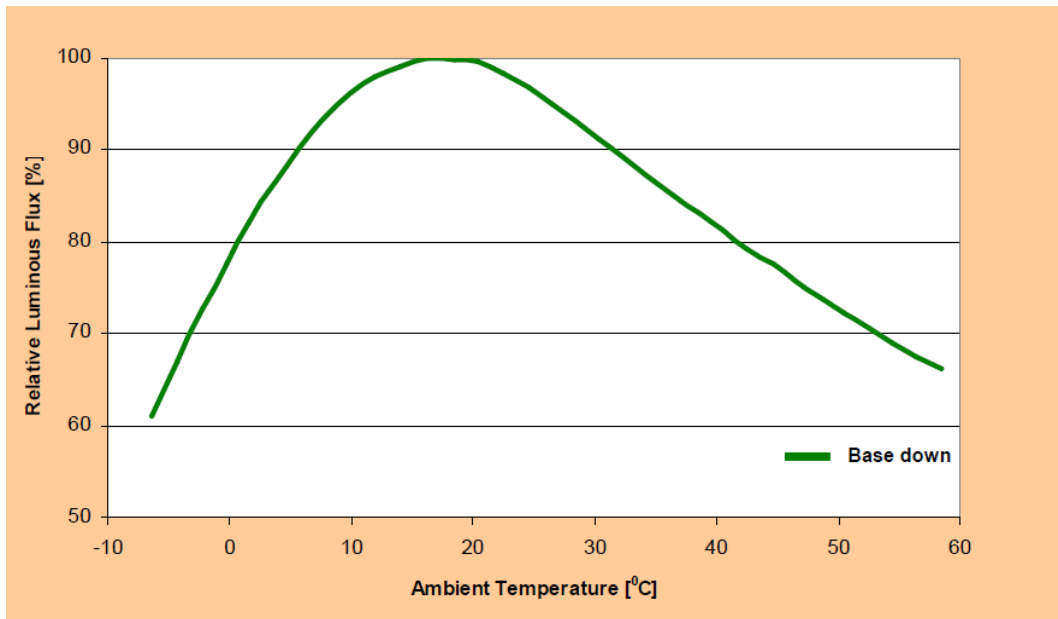
⁴ Measurement in accordance with IEC 60901, annex C and the relevant annex on rated colour characteristics in IEC 60081.

⁵ Light Color

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LP LPD MK

Relative Luminous Flux / Ambient Temperature



For more detailed information please refer to our technical guide – Compact Fluorescent Lamps. Free download at www.osram.com

Lifetime⁶

	ECG ⁷ preheated IEC switching cycle ⁸
B50⁹	20,000 h
Service life time¹⁰	13,000 h
LLMF¹¹ 2.000 h	0.90
LLMF 4.000 h	0.84
LLMF 6.000 h	0.82
LLMF 8.000 h	0.81
LLMF 12.000 h	0.78
LLMF 16.000 h	0.78
LLMF 20.000 h	0.76
LSF¹² 2.000 h	0.99
LSF 4.000 h	0.99
LSF 6.000 h	0.99
LSF 8.000 h	0.99
LSF 12.000 h	0.95
LSF 16.000 h	0.80
LSF 20.000 h	0.50

⁶ Measurement in accordance with IEC 60901

⁷ Electronic Control Gear

⁸ Switching cycle 165 min. on, 15 min. off (according to IEC)

⁹ Average rated lamp life (B50) is the average value of the life time for an entity of lamps operated under standardized conditions until 50% failure. In other words, this is the operation time at which, for a standardized 3-hour switching cycle (165 minutes on / 15 minutes off (according to IEC)), 50% of a sample population of lamps have failed.

¹⁰ Service life time is the mathematical life time (maintenance multiplied with the % of failed lamps e.g. B10) for lamps in an installation after which the installation luminous flux (100 h value) decreased by 30% (decrease in luminous flux and failed lamps) for indoor lighting

¹¹ Lamp Lumen Maintenance Factor (Lamp luminous flux in %): Ratio of the luminous flux of a specific quantity of lamps at a defined number of hours of operation to their luminous flux at 100 h

¹² Lamp Survival Factor (Lamp Survival in %): Ratio of the number of electrically intact lamps to the total number of lamps

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Energy labelling¹³

Description	Energy efficiency class	Weighted energy consumption E _c [kWh/1000h]
DULUX® T/E PLUS 13W/827	A	15
DULUX® T/E PLUS 13W/830	A	15
DULUX® T/E PLUS 13W/840	A	15
DULUX® T/E PLUS 18W/827	A	20
DULUX® T/E PLUS 18W/830	A	20
DULUX® T/E PLUS 18W/840	A	20
DULUX® T/E PLUS 26W/827	A	30
DULUX® T/E PLUS 26W/830	A	30
DULUX® T/E PLUS 26W/840	A	30
DULUX® T/E PLUS 32W/827	A	36
DULUX® T/E PLUS 32W/830	A	36
DULUX® T/E PLUS 32W/840	A	36
DULUX® T/E PLUS 42W/827	A	48
DULUX® T/E PLUS 42W/830	A	48
DULUX® T/E PLUS 42W/840	A	48

Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
DULUX® T/E PLUS 13W/827	4050300447001	4050300447018	10
DULUX® T/E PLUS 13W/830	4050300446981	4050300446998	10
DULUX® T/E PLUS 13W/840	4050300446967	4050300446974	10
DULUX® T/E PLUS 18W/827	4050300342269	4050300342276	10
DULUX® T/E PLUS 18W/830	4050300342245	4050300342252	10
DULUX® T/E PLUS 18W/840	4050300342221	4050300342238	10
DULUX® T/E PLUS 26W/827	4050300342320	4050300342337	10
DULUX® T/E PLUS 26W/830	4050300342306	4050300342313	10
DULUX® T/E PLUS 26W/840	4050300342283	4050300342290	10
DULUX® T/E PLUS 32W/827	4050300348605	4050300348612	10
DULUX® T/E PLUS 32W/830	4050300348582	4050300348599	10
DULUX® T/E PLUS 32W/840	4050300348568	4050300348575	10
DULUX® T/E PLUS 42W/827	4050300425665	4050300425672	10
DULUX® T/E PLUS 42W/830	4050300425641	4050300425658	10
DULUX® T/E PLUS 42W/840	4050300425627	4050300425634	10

¹³ According to Regulation (EU) No 874/2012 of July 12, 2012
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Lamp/ECG System Combination

Lamp	ECG	EAN 10 ECG	Luminous flux @25°C [lm]	System power [W]	I _N [A]	Power Factor ECG [λ]	System luminous efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T _a [°C]
DULUX® T/E PLUS 13 W	QTP-D/E 1x10-13	4008321181572	900	15	0.07	0.95	60	93	58	29	96	-20...+50
	QTP-D/E 2x10-13	4008321181596	1800	29	0.13	0.95	62	123	79	33	129.5	-20...+50
	QT-ECO 1x4-16/220-240 L	4050300660370	800	14	0.10	0.60c	57	150	22	22	140	-15...+50
	QT-ECO 1x4-16/220-240 S	4050300638584	800	14	0.10	0.60c	57	80	40	22	72-75	-15...+50
	DT-D/E 10-13/220-240 C	4008321181510	900	15.5	0.11	0.60c	58	68	59	-	-	-15...+50
	DT-D/E 10-13/220-240 L	4008321181497	900	15.5	0.11	0.60c	58	95	40	64	30	-15...+50
	DT-D/E 10-13/220-240 P	4008321181534	900	15.5	0.11	0.60c	58	72	59	-	-	-15...+50
DULUX® T/E PLUS 18 W	QTi DALI-T/E 1x18-57 DIM	4008321060808	1200	20	0.09	0.95	60	123	79	33	129.5	+10...+50
	QTi DALI-T/E 2x18-42 DIM	4008321060822	2400	38	0.17	0.95	63	123	79	33	129.5	+10...+50
	QTi-T/E 1x18-57 DIM	4008321060860	1200	20	0.09	0.95	60	123	79	33	129.5	+10...+50
	QTi-T/E 2x18-42 DIM	4008321060846	2400	38	0.17	0.95	63	123	79	33	129.5	+10...+50
	QTP-T/E 1x18	4008321181701	1200	19	0.08	0.99	61	103	67	31	110	-20...+50
	QTP-T/E 2x18	4008321181619	2400	38	0.16	0.99	63	123	79	33	129.5	-20...+50
	QT-ECO 1x18-21/220-240 S	4050300794907	1150	19	0.14	0.60 c	61	80	40	22	72-75	-15...+50
	QT-ECO T/E 2x18/220-240	4050300803982	2300	36.5	0.18	0.95	63	150	41	28	140	-15...+50
	DT-T/E 18/230-240 C	4050300421384	1200	20	0.10	0.85...0.9 c	60	68	59	-	-	-20...+50
	DT-T/E 18/230-240 L	4050300406404	1200	20	0.10	0.85...0.9 c	60	95	40	64	30	-20...+50
DT-T/E 18/230-240 P	4050300421421	1200	20	0.10	0.85...0.9 c	60	72	59	-	-	-20...+50	
DULUX® T/E PLUS 26 W	QTi DALI-T/E 1x18-57 DIM	4008321060808	1800	29	0.13	0.97	62	123	79	33	129.5	+10...+50
	QTi DALI-T/E 2x18-42 DIM	4008321060822	3600	56	0.25	0.98	64	123	79	33	129.5	+10...+50
	QTi-T/E 1x18-57 DIM	4008321060860	1800	29	0.13	0.97	62	123	79	33	129.5	+10...+50
	QTi-T/E 2x18-42 DIM	4008321060846	3600	56	0.25	0.98	64	123	79	33	129.5	+10...+50
	QTP-M 1x26-42	4008321329134	1750	27	0.12	0.95	65	103	67	31	110	-20...+50
	QTP-M 2x26-32	4008321329158	3500	53	0.24	0.97	66	123	79	33	129.5	-20...+50
	QTP-T/E 1x26-42, 2x26	4008321537089	1750	28	0.13	0.95	63	103	67	31	110	-20...+50
	QTP-T/E 1x26-42, 2x26 (2x)	4008321537089	3500	54	0.24	0.98	65	103	67	31	110	-20...+50
	QT-ECO 1x26/220-240 S	4008321065971	1600	23.5	0.18	0.60 c	68	80	40	22	72-75	-15...+50
	QT-ECO T/E 2x26/220-240	4050300804002	3500	53	0.25	0.95	66	150	41	28	140	-15...+50
QT-M 2x26-42/220-240 S	4008321110022	3600	54	0.23	0.97	67	123	79	33	129.5	-20...+50	

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Lamp	ECG	EAN 10 ECG	Luminous flux @25°C [lm]	System power [W]	I _N [A]	Power Factor ECG [λ]	System luminous efficacy [lm/W]	Length [mm]	Width [mm]	Height [mm]	Distance between holes [mm]	T _a [°C]
DULUX® T/E PLUS 32 W	QTi DALI-T/E 1x18-57 DIM	4008321060808	2400	36	0.16	0.98	67	123	79	33	129.5	+10...+50
	QTi DALI-T/E 2x18-42 DIM	4008321060822	4800	69	0.30	0.99	70	123	79	33	129.5	+10...+50
	QTi-T/E 1x18-57 DIM	4008321060860	2400	36	0.16	0.98	67	123	79	33	129.5	+10...+50
	QTi-T/E 2x18-42 DIM	4008321060846	4800	69	0.30	0.99	70	123	79	33	129.5	+10...+50
	QTP-M 1x26-42	4008321329134	2400	35	0.16	0.97	69	103	67	31	110	-20...+50
	QTP-M 2x26-32	4008321329158	4800	68	0.30	0.97	71	123	79	33	129.5	-20...+50
	QTP-T/E 1x26-42, 2x26	4008321537089	2400	35	0.15	0.95	69	103	67	31	110	-20...+50
	QT-M 2x26-42/220-240 S	4008321110022	4800	70	0.30	0.97	69	123	79	33	129.5	-20...+50
DULUX® T/E PLUS 42 W	QTi DALI-T/E 1x18-57 DIM	4008321060808	3200	47	0.21	0.99	68	123	79	33	129.5	+10...+50
	QTi DALI-T/E 2x18-42 DIM	4008321060822	6400	90	0.39	0.99	71	123	79	33	129.5	+10...+50
	QTi-T/E 1x18-57 DIM	4008321060860	3200	47	0.21	0.99	68	123	79	33	129.5	+10...+50
	QTi-T/E 2x18-42 DIM	4008321060846	6400	90	0.39	0.99	71	123	79	33	129.5	+10...+50
	QTP-M 1x26-42	4008321329134	3200	46	0.20	0.97	70	103	67	31	110	-20...+50
	QTP-M 2x26-32	4008321329158	3200	46	0.20	0.97	70	123	79	33	129.5	-20...+50
	QTP-T/E 1x26-42, 2x26	4008321537089	3200	45	0.20	0.95	71	103	67	31	110	-20...+50
	QT-M 2x26-42/220-240 S	4008321110022	6400	92	0.39	0.97	70	123	79	33	129.5	-20...+50

For more information on ECG refer to <http://www.osram.com/ecg>

For more information on System Guarantee refer to <http://www.osram.com/guarantee>

In case of lamp breakage: www.osram.com/brokenlamp

For more information technical Information see Technical guide. Free download at www.osram.com