

# DULUX<sup>®</sup> T PLUS



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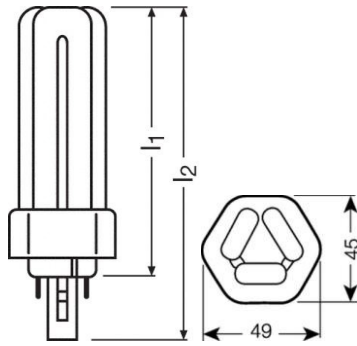
## Benefits

- Extremely economical
- Good quality of light
- Excellent luminous flux
- Long service life time<sup>1</sup>

## Product Features

- Average lamp life time: up to 10,000 h
- Good color rendering index 1B (R<sub>a</sub> 80...89)
- Good lumen maintenance
- For operation on conventional control gear (CCG)
- 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 PLUS 13 W	GX24d-1	90	90	113
DULUX® T PLUS 18 W	GX24d-2	101	110	124
DULUX® T PLUS 26 W	GX24d-3	116	130	139

## Electrical Data<sup>2</sup>

Lamps operated with **50Hz** reference ballast at 25 °C (100 h aged) ambient temperature

DULUX® T PLUS	Lamp Voltage rated [V]	Lamp Current rated [mA]	Lamp Power rated [W]	Compensation parallel Capacitor CCG <sup>3</sup> mode <sup>4</sup> [μF]	Compensation series Capacitor CCG mode <sup>5</sup> [μF]
13 W	91	175	13.0	1.8	-
18 W	100	225	18.0	2.3	1.7

<sup>1</sup> 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

<sup>2</sup> According to IEC 60921

<sup>3</sup> Conventional Control Gear

<sup>4</sup> For cos phi = 0.95; Dielectric strength of the capacitor 250V AC; capacitive tolerance +/- 10%

<sup>5</sup> Dielectric strength of the capacitor 450V AC

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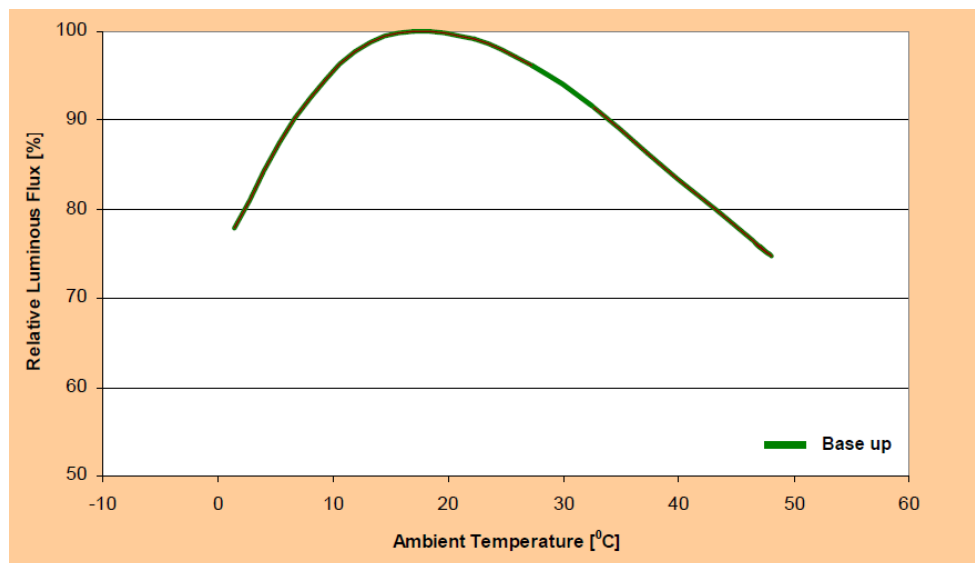
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26 W	105	325	26.5	3.3	2.5 <sup>6</sup>
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## Photometrical Data at 25 °C (100 h aged) ambient temperature <sup>7</sup>

DULUX® T PLUS	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Luminance (LC <sup>8</sup> 840) [cd/cm²]	Target Color Coordinate X	Target Color Coordinate Y	Nominal Luminous Flux [lm]	Efficacy 25 °C [lm/W]	Energy Efficiency Class
13 W	830 Warm White	80 ... 89	4.2	0.440	0.403	900	69	A
13 W	840 Cool White	80 ... 89	4.2	0.380	0.380	900	69	A
18 W	827 INTERNA	80 ... 89	4.7	0.455	0.415	1200	67	B
18 W	830 Warm White	80 ... 89	4.7	0.440	0.403	1200	67	B
18 W	840 Cool White	80 ... 89	4.7	0.380	0.380	1200	67	B
26 W	827 INTERNA	80 ... 89	6.0	0.455	0.415	1800	69	B
26 W	830 Warm White	80 ... 89	6.0	0.440	0.403	1800	69	B
26 W	840 Cool White	80 ... 89	6.0	0.380	0.380	1800	69	B

## Relative Luminous Flux / Ambient Temperature



For more detailed information please refer to our technical guide – Compact Fluorescent Lamps. Free download at [www.osram.com](http://www.osram.com)

<sup>6</sup> 24-26 W CCG for CFLs (2,7 µF for 18 W CCG for fluorescent lamp).

<sup>7</sup> Measurement in accordance with IEC 60901, annex C and the relevant annex on rated colour characteristics in IEC 60081.

<sup>8</sup> Light Color

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## Lifetime<sup>9</sup>

	CCG <sup>10</sup> IEC switching cycle <sup>11</sup>
<b>B50<sup>12</sup></b>	10,000 h <sup>13</sup>
<b>Service life time<sup>14</sup></b>	6,500 h
<b>LLMF<sup>15</sup> 2.000 h</b>	0.85
<b>LLMF 4.000 h</b>	0.78
<b>LLMF 6.000 h</b>	0.76
<b>LLMF 8.000 h</b>	0.76
<b>LSF<sup>16</sup> 2.000 h</b>	0.99
<b>LSF 4.000 h</b>	0.98
<b>LSF 6.000 h</b>	0.97
<b>LSF 8.000 h</b>	0.88

## Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
DULUX® T PLUS 13W/830	4050300446929	4050300446936	10
DULUX® T PLUS 13W/840	4050300446905	4050300446912	10
DULUX® T PLUS 18W/827	4050300333502	4050300333519	10
DULUX® T PLUS 18W/830	4050300333489	4050300333496	10
DULUX® T PLUS 18W/840	4050300333465	4050300333472	10
DULUX® T PLUS 26W/827	4050300342085	4050300342092	10
DULUX® T PLUS 26W/830	4050300342061	4050300342078	10
DULUX® T PLUS 26W/840	4050300342047	4050300342054	10

In case of lamp breakage: [www.osram.com/brokenlamp](http://www.osram.com/brokenlamp)

For more information technical Information see Technical guide. Free download at [www.osram.com](http://www.osram.com)

<sup>9</sup> Measurement in accordance with IEC 60901

<sup>10</sup> Conventional Control Gear

<sup>11</sup> Switching cycle 165 min. on, 15 min. off (according to IEC)

<sup>12</sup> 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.

<sup>13</sup> Different lifetime for single lamps: DULUX® T PLUS 13W: 3,200 h and DULUX® T PLUS 18W 3,900 h

<sup>14</sup> 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

<sup>15</sup> 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

<sup>16</sup> Lamp Survival Factor (Lamp Survival in %): Ratio of the number of electrically intact lamps to the total number of lamps Edition 01.2013. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

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