

# DULUX<sup>®</sup> D



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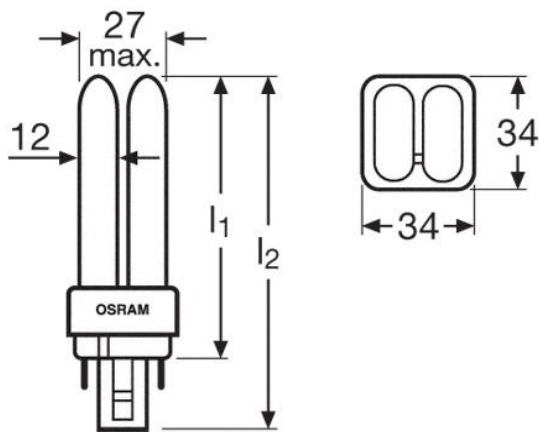
## Benefits

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

## Product Features

- Average 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 Daylight (865), Cool White (840), White (835), Warm White (830), Extra Warm White (827)

## Dimensions



Description	Base	Max Length L1 [mm]	Max Length L1 IEC [mm]	Max Length L2 [mm]
DULUX® D 10 W	G24d-1	87	95	110
DULUX® D 13 W	G24d-1	115	130	138
DULUX® D 18 W	G24d-2	130	140	153
DULUX® D 26 W	G24d-3	149	160	172

<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

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

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

DULUX® D	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]
10 W	64	190	10	2.2	-
13 W	91	175	13	1.8	-
18 W	100	220	18	2.2	1.7
26 W	105	325	26	3.2	2.5 <sup>6</sup>

## Photometrical Data at 25 °C (100 h aged) ambient temperature<sup>7</sup>

DULUX® D	Light Color LUMILUX®	Color Rendering Index (CRI), Ra	Lumi-nance (LC <sup>8</sup> 840) [cd/cm <sup>2</sup> ]	Target Color Coordinate X	Target Color Coordinate Y	Nominal Luminous Flux [lm]	Efficacy 25 °C [lm/W]
10 W	827 INTERNA	80 ... 89	4.0	0.455	0.415	600	60
10 W	830 Warm White	80 ... 89	4.0	0.440	0.403	600	60
10 W	835 White	80 ... 89	4.0	0.409	0.394	600	60
10 W	840 Cool White	80 ... 89	4.0	0.380	0.380	600	60
13 W	827 INTERNA	80 ... 89	4.0	0.455	0.415	900	69
13 W	830 Warm White	80 ... 89	4.0	0.440	0.403	900	69
13 W	835 White	80 ... 89	4.0	0.409	0.394	900	69
13 W	840 Cool White	80 ... 89	4.0	0.380	0.380	900	69
13 W	865 Cool Daylight	80 ... 89	4.0	0.313	0.337	855	69
18 W	827 INTERNA	80 ... 89	4.5	0.455	0.415	1200	67
18 W	830 Warm White	80 ... 89	4.5	0.440	0.403	1200	67
18 W	835 White	80 ... 89	4.5	0.409	0.394	1200	67
18 W	840 Cool White	80 ... 89	4.5	0.380	0.380	1200	67
18 W	865 Cool Daylight	80 ... 89	4.5	0.313	0.337	1140	67
26 W	827 INTERNA	80 ... 89	5.5	0.455	0.415	1800	69
26 W	830 Warm White	80 ... 89	5.5	0.440	0.403	1800	69
26 W	835 White	80 ... 89	5.5	0.409	0.394	1800	69
26 W	840 Cool White	80 ... 89	5.5	0.380	0.380	1800	69
26 W	865 Cool Daylight	80 ... 89	5.5	0.313	0.337	1710	69

<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

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

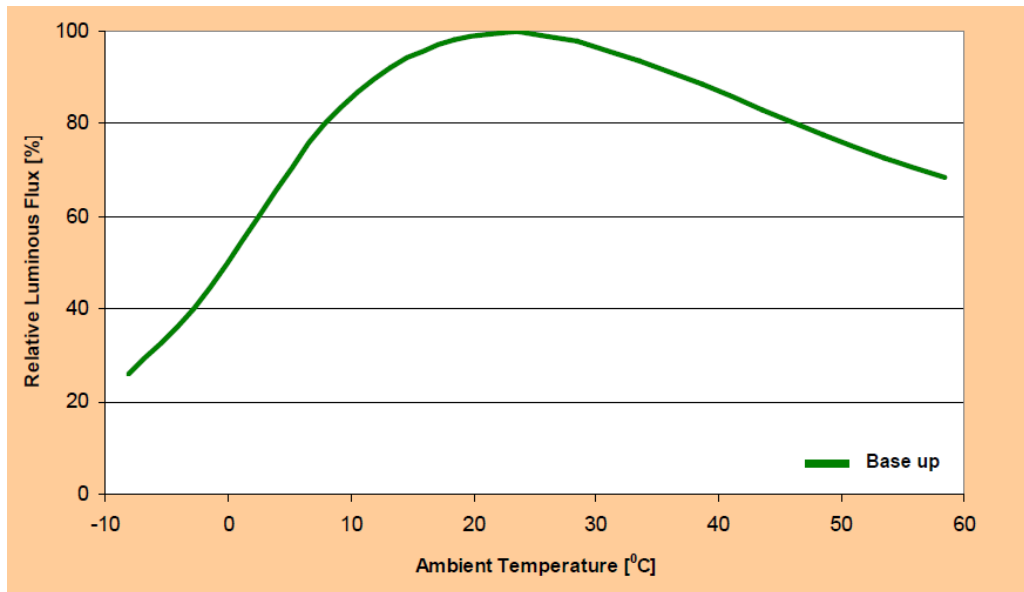
<sup>7</sup> Measurement in accordance with IEC 60901, annex C and the relevant annex on rated colour characteristics in IEC 60081.

<sup>8</sup> Light Color

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## 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)

## Lifetime<sup>9</sup>

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

<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> 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>14</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>15</sup> Lamp Survival Factor (Lamp Survival in %): Ratio of the number of electrically intact lamps to the total number of lamps Edition 01.2014. Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

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## Energy labelling<sup>16</sup>

Description	Energy efficiency class	Weighted energy consumption E <sub>c</sub> [kWh/1000h]
DULUX® D 10W/827	A	13
DULUX® D 10W/830	A	13
DULUX® D 10W/835	A	13
DULUX® D 10W/840	A	13
DULUX® D 13W/827	A	17
DULUX® D 13W/830	A	17
DULUX® D 13W/835	A	17
DULUX® D 13W/840	A	17
DULUX® D 13W/865	A	17
DULUX® D 18W/827	A	23
DULUX® D 18W/830	A	23
DULUX® D 18W/835	A	23
DULUX® D 18W/840	A	23
DULUX® D 18W/865	B	23
DULUX® D 26W/827	A	32
DULUX® D 26W/830	A	32
DULUX® D 26W/835	A	32
DULUX® D 26W/840	A	32
DULUX® D 26W/865	B	32

<sup>16</sup> According to Regulation (EU) No 874/2012 of July 12, 2012  
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## Logistic Data

Description	EAN 10	EAN 40	Packaging Unit
DULUX® D 10W/827	4050300008110	4050300238449	10
DULUX® D 10W/830	4050300025681	4050300257952	10
DULUX® D 10W/835	4050300028835	4050300028842	10
DULUX® D 10W/840	4050300010595	4050300240985	10
DULUX® D 13W/827	4050300008127	4050300238487	10
DULUX® D 13W/830	4050300025698	4050300257969	10
DULUX® D 13W/835	4050300028859	4050300028866	10
DULUX® D 13W/840	4050300010625	4050300241005	10
DULUX® D 13W/865	4050300487106	4050300939414	10
DULUX® D 18W/827	4050300011462	4050300242767	10
DULUX® D 18W/830	4050300025704	4050300257976	10
DULUX® D 18W/835	4050300028873	4050300028880	10
DULUX® D 18W/840	4050300012056	4050300245409	10
DULUX® D 18W/865	4050300487120	4050300487137	10
DULUX® D 26W/827	4050300011912	4050300244228	10
DULUX® D 26W/830	4050300025711	4050300027036	10
DULUX® D 26W/835	4050300028897	4050300028903	10
DULUX® D 26W/840	4050300012049	4050300245386	10
DULUX® D 26W/865	4050300486987	4050300486994	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)