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# Product family datasheet

## OSRAM DULUX T PLUS

CFLni, 3 tubes, with 2-pin base for CCG operation



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### Areas of application

- Offices, public buildings
- Shops
- Supermarkets and department stores
- Hotels, restaurants
- Industrial lighting

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### Product benefits

- Very economical
- Good quality of light
- Excellent luminous flux
- Long service life
- Improved maintenance

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### Product features

- Average life: 10,000 h
- Color rendering index  $R_a$ : 80...89
- Short and compact pin-base lamp with triple-turn tubes
- Single-ended two-pin plug-in GX24d base



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### Technical data

| Product description                 | Electrical data |               |                 | Photometrical data    |                           |                  |
|-------------------------------------|-----------------|---------------|-----------------|-----------------------|---------------------------|------------------|
|                                     | Nominal wattage | Rated wattage | Nominal voltage | Nominal luminous flux | Light color (designation) | Luminous flux at |
| DULUX T PLUS 13 W/830               | 13.00 W         | 13.00 W       |                 | 900 lm                | LUMILUX Warm White        | 900 lm           |
| DULUX T PLUS 13 W/840               | 13.00 W         | 13.00 W       |                 | 900 lm                | LUMILUX Cool White        | 900 lm           |
| DULUX T PLUS 18 W/827 <sup>1)</sup> | 18.00 W         | 18.00 W       | 100 V           | 1200 lm               | LUMILUX INTERNA           | 1200 lm          |
| DULUX T PLUS 18 W/830 <sup>1)</sup> | 18.00 W         | 18.00 W       | 100 V           | 1200 lm               | LUMILUX Warm White        | 1200 lm          |
| DULUX T PLUS 18 W/840 <sup>1)</sup> | 18.00 W         | 18.00 W       | 100 V           | 1200 lm               | LUMILUX Cool White        | 1200 lm          |
| DULUX T PLUS 26 W/827               | 26.00 W         | 26.50 W       |                 | 1800 lm               | LUMILUX INTERNA           | 1800 lm          |
| DULUX T PLUS 26 W/830               | 26.00 W         | 26.50 W       |                 | 1800 lm               | LUMILUX Warm White        | 1800 lm          |
| DULUX T PLUS 26 W/840               | 26.00 W         | 26.50 W       |                 | 1800 lm               | LUMILUX Cool White        | 1800 lm          |

| Product description                 | Rated luminous flux | Rated color temperature | Rated LLMF at 2,000 h | Rated LLMF at 4,000 h | Rated LLMF at 6,000 h | Rated LLMF at 8,000 h |
|-------------------------------------|---------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| DULUX T PLUS 13 W/830               | 900 lm              | 3000 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 13 W/840               | 900 lm              | 4000 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 18 W/827 <sup>1)</sup> | 1200 lm             | 2700 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 18 W/830 <sup>1)</sup> | 1200 lm             | 3000 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 18 W/840 <sup>1)</sup> | 1200 lm             | 4000 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 26 W/827               | 1800 lm             | 2700 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 26 W/830               | 1800 lm             | 3000 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |
| DULUX T PLUS 26 W/840               | 1800 lm             | 4000 K                  | 0.85                  | 0.78                  | 0.76                  | 0.75                  |

| Product description   | Color rendering index Ra | Dimensions & weight |                |          |                             |                                             |            |
|-----------------------|--------------------------|---------------------|----------------|----------|-----------------------------|---------------------------------------------|------------|
|                       |                          | Diameter            | Overall length | Length   | Length acc. to IEC standard | Length with base excl. base pins/connection | Outer bulb |
| DULUX T PLUS 13 W/830 | 80...89                  | 11.0 mm             | 111.0 mm       | 113.0 mm | 90 mm                       | 90.00 mm                                    | T12        |
| DULUX T PLUS 13 W/840 | 80...89                  | 11.0 mm             | 111.0 mm       | 113.0 mm | 90 mm                       | 90.00 mm                                    | T12        |

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| Product description                 | Color rendering index Ra | Dimensions & weight |                |          |                             |                                             |            |
|-------------------------------------|--------------------------|---------------------|----------------|----------|-----------------------------|---------------------------------------------|------------|
|                                     |                          | Diameter            | Overall length | Length   | Length acc. to IEC standard | Length with base excl. base pins/connection | Outer bulb |
| DULUX T PLUS 18 W/827 <sup>1)</sup> | 80...89                  | 12.0 mm             | 122.0 mm       | 124.0 mm | 110 mm                      | 101.00 mm                                   | T12        |
| DULUX T PLUS 18 W/830 <sup>1)</sup> | 80...89                  | 12.0 mm             | 122.0 mm       | 124.0 mm | 110 mm                      | 101.00 mm                                   | T12        |
| DULUX T PLUS 18 W/840 <sup>1)</sup> | 80...89                  | 12.0 mm             | 122.0 mm       | 124.0 mm | 110 mm                      | 101.00 mm                                   | T12        |
| DULUX T PLUS 26 W/827               | ≥80                      | 11.0 mm             | 137.0 mm       | 139.0 mm | 130 mm                      | 116.00 mm                                   | T12X3      |
| DULUX T PLUS 26 W/830               | ≥80                      | 11.0 mm             | 137.0 mm       | 139.0 mm | 130 mm                      | 116.00 mm                                   | T12X3      |
| DULUX T PLUS 26 W/840               | ≥80                      | 11.0 mm             | 137.0 mm       | 139.0 mm | 130 mm                      | 116.00 mm                                   | T12X3      |

| Product description                 | Maximum diameter | Lifespan             |              |                                       |                                       |                                       |
|-------------------------------------|------------------|----------------------|--------------|---------------------------------------|---------------------------------------|---------------------------------------|
|                                     |                  | Rated lamp life time | Service life | Rated lamp survival factor at 2,000 h | Rated lamp survival factor at 4,000 h | Rated lamp survival factor at 6,000 h |
| DULUX T PLUS 13 W/830               | 12.0 mm          | 10000 h              | 8000 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 13 W/840               | 12.0 mm          | 10000 h              | 8000 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 18 W/827 <sup>1)</sup> |                  | 10000 h              | 6500 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 18 W/830 <sup>1)</sup> |                  | 10000 h              | 6500 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 18 W/840 <sup>1)</sup> |                  | 10000 h              | 6500 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 26 W/827               | 12.0 mm          | 10000 h              | 6500 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 26 W/830               | 12.0 mm          | 10000 h              | 6500 h       | 0.99                                  | 0.99                                  | 0.95                                  |
| DULUX T PLUS 26 W/840               | 12.0 mm          | 10000 h              | 6500 h       | 0.99                                  | 0.99                                  | 0.95                                  |

| Product description                 | Rated lamp survival factor at 8,000 h | Operation mode LLMF/LSF | Nominal lamp life time | Lifespan              | Additional product data     |                 |
|-------------------------------------|---------------------------------------|-------------------------|------------------------|-----------------------|-----------------------------|-----------------|
|                                     |                                       |                         |                        |                       | Base (standard designation) | Mercury content |
| DULUX T PLUS 13 W/830               | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-1                     | 1.7 mg          |
| DULUX T PLUS 13 W/840               | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-1                     | 1.7 mg          |
| DULUX T PLUS 18 W/827 <sup>1)</sup> | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-2                     | 1.7 mg          |

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|                                     |                                       |                         |                        |                       | Additional product data     |                 |
|-------------------------------------|---------------------------------------|-------------------------|------------------------|-----------------------|-----------------------------|-----------------|
| Product description                 | Rated lamp survival factor at 8,000 h | Operation mode LLMF/LSF | Nominal lamp life time | Lifespan              | Base (standard designation) | Mercury content |
| DULUX T PLUS 18 W/830 <sup>1)</sup> | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-2                     | 1.7 mg          |
| DULUX T PLUS 18 W/840 <sup>1)</sup> | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-2                     | 1.7 mg          |
| DULUX T PLUS 26 W/827               | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-3                     | 1.7 mg          |
| DULUX T PLUS 26 W/830               | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-3                     | 1.7 mg          |
| DULUX T PLUS 26 W/840               | 0.81                                  | 50 Hz                   | 10000 h                | 10000 h <sup>2)</sup> | GX24d-3                     | 1.7 mg          |

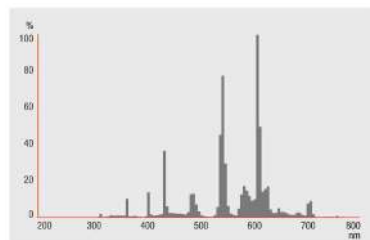
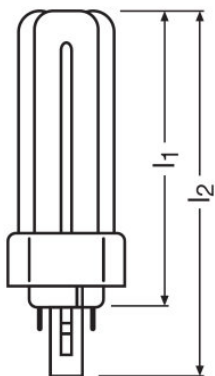
  

|                                     |                                   |                                                      | Certificates & standards |                    | Country specific categorizations |
|-------------------------------------|-----------------------------------|------------------------------------------------------|--------------------------|--------------------|----------------------------------|
| Product description                 | Appropriate disposal acc. to WEEE | Product remark                                       | Energy efficiency class  | Energy consumption | ILCOS                            |
| DULUX T PLUS 13 W/830               | Yes                               |                                                      | A                        | 17 kWh/1000h       | FSM-13/830-I-GX24d-1             |
| DULUX T PLUS 13 W/840               | Yes                               |                                                      | A                        | 17 kWh/1000h       | FSM-13/840-I-GX24d-1             |
| DULUX T PLUS 18 W/827 <sup>1)</sup> | Yes                               | Suitable only for operation with 0.22 A control gear | B                        | 23 kWh/1000h       | FSM-18/827-I-GX24d-2             |
| DULUX T PLUS 18 W/830 <sup>1)</sup> | Yes                               | Suitable only for operation with 0.22 A control gear | B                        | 23 kWh/1000h       | FSM-18/830-I-GX24d-2             |
| DULUX T PLUS 18 W/840 <sup>1)</sup> | Yes                               | Suitable only for operation with 0.22 A control gear | B                        | 23 kWh/1000h       | FSM-18/840-I-GX24d-2             |
| DULUX T PLUS 26 W/827               | Yes                               |                                                      | A                        | 32 kWh/1000h       | FSM-26/827-I-GX24d-3             |
| DULUX T PLUS 26 W/830               | Yes                               |                                                      | A                        | 32 kWh/1000h       | FSM-26/830-I-GX24d-3             |
| DULUX T PLUS 26 W/840               | Yes                               |                                                      | A                        | 32 kWh/1000h       | FSM-26/840-I-G2X4d-3             |

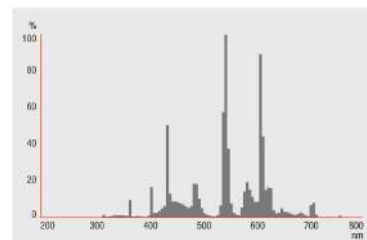
<sup>1)</sup> Suitable only for operation with 0.22 A control gear

<sup>2)</sup> With CCG/LLCG

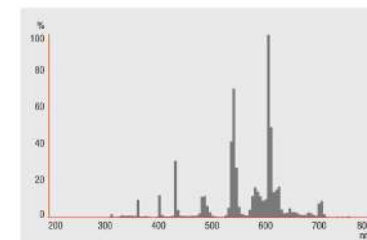
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DULUX T PLUS 13 W/830, DULUX T PLUS 13 W/840, DULUX T PLUS 18 W/827, DULUX T PLUS 18 W/830, DULUX T PLUS 18 W/840, DULUX T PLUS 26 W/827, DULUX T PLUS 26 W/830, DULUX T PLUS 26 W/840



DULUX T PLUS 13 W/840, DULUX T PLUS 18 W/830, DULUX T PLUS 26 W/840



DULUX T PLUS 18 W/827, DULUX T PLUS 26 W/827

### Equipment / Accessories

- Suitable for operation on conventional control gear
- Suitable for 0.22 A control gear only (DULUX T 18 W PLUS)

## Product family datasheet

### Safety advice

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

### Application advice

For more detailed application information and graphics please see product datasheet.

### Logistical Data

| Product code  | Product description   | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|-----------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4050300446929 | DULUX T PLUS 13 W/830 | Shipping carton box<br>10    | 256 mm x 139 mm x 104 mm             | 3.70 dm <sup>3</sup> | 710.00 g     |
| 4050300446905 | DULUX T PLUS 13 W/840 | Shipping carton box<br>10    | 181 mm x 139 mm x 182 mm             | 4.58 dm <sup>3</sup> | 781.50 g     |
| 4050300333502 | DULUX T PLUS 18 W/827 | Shipping carton box<br>10    | 240 mm x 128 mm x 123 mm             | 3.78 dm <sup>3</sup> | 832.00 g     |
| 4050300333489 | DULUX T PLUS 18 W/830 | Shipping carton box<br>10    | 240 mm x 135 mm x 114 mm             | 3.69 dm <sup>3</sup> | 832.00 g     |
| 4050300333465 | DULUX T PLUS 18 W/840 | Shipping carton box<br>10    | 256 mm x 141 mm x 119 mm             | 4.30 dm <sup>3</sup> | 773.00 g     |
| 4050300342085 | DULUX T PLUS 26 W/827 | Shipping carton box<br>10    | 256 mm x 161 mm x 103 mm             | 4.25 dm <sup>3</sup> | 874.00 g     |
| 4050300342061 | DULUX T PLUS 26 W/830 | Shipping carton box<br>10    | 228 mm x 161 mm x 128 mm             | 4.70 dm <sup>3</sup> | 874.00 g     |
| 4050300342047 | DULUX T PLUS 26 W/840 | Shipping carton box<br>10    | 240 mm x 155 mm x 125 mm             | 4.65 dm <sup>3</sup> | 907.00 g     |

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| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|--------------|---------------------|------------------------------|--------------------------------------|--------|--------------|
|--------------|---------------------|------------------------------|--------------------------------------|--------|--------------|

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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