# CFL SQUARE 2-Pin

## EXREMLY FLAT DESIGN & FOR UNIFORM LIGHTING

CFL SQUARE® 2-Pin

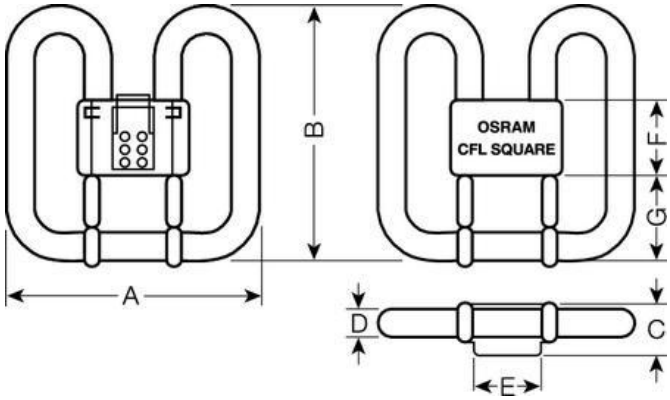
# Benefits

- Ideal for cost-effective creative illumination and decoration
- Extremly economical
- Good quality of light
- Long service life time
- Good lumen maintenance
- Environmental friendly

# Product Features

- Extremely flat dimensions
- Good color rendering ($R_a$ 80…89)
- Average life time: up to 10.000 h
- Operation with conventional control gear

# Dimensions[1]




| Description | Base | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | G [mm] |
|---|---|---|---|---|---|---|---|---|
| CFL SQUARE® 2-Pin 16W | GR8 | 138 | 141 | 27.5 | 15 | 41 | 40 | 49/51 |
| CFL SQUARE® 2-Pin 28W | GR8 | 205 | 207 | 33 | 24 | 41 | 49 | 74/77 |

# Electrical Data[2]

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

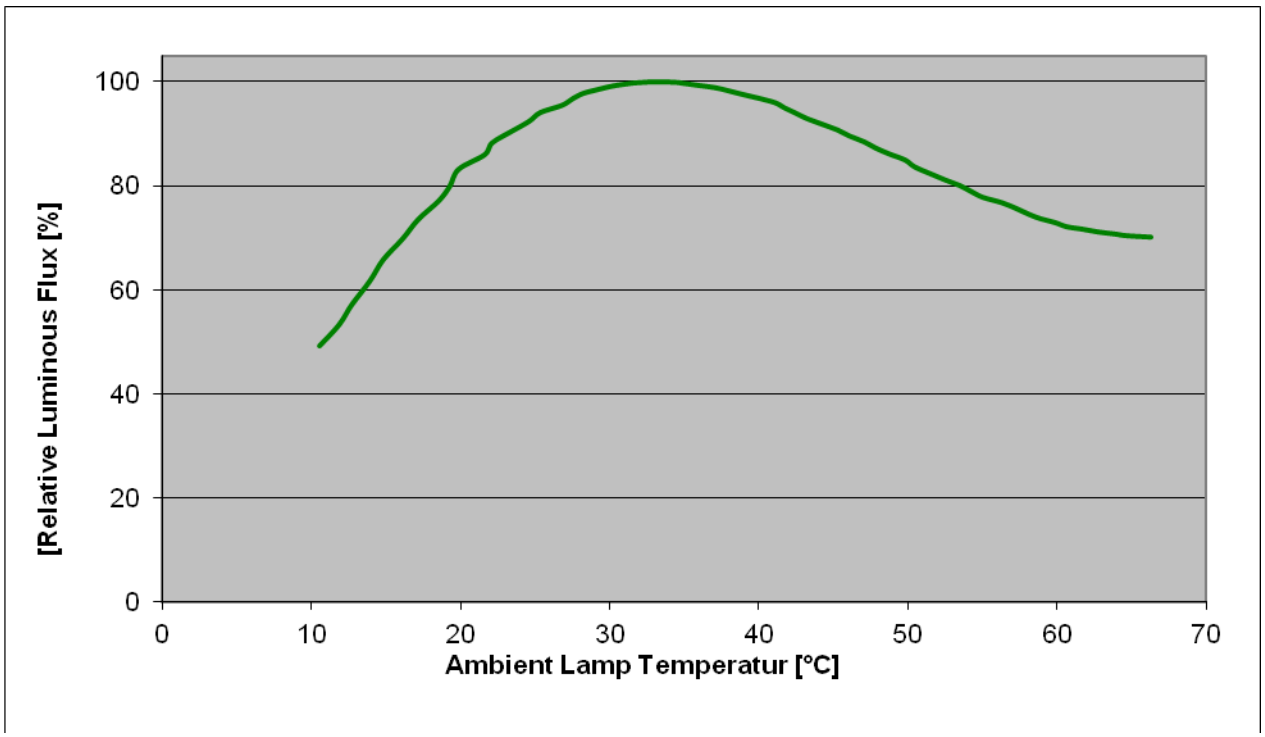
| CFL SQUARE® 2- Pin | Lamp Voltage rated [V] | Lamp Current rated [mA] | Lamp Power rated [W] |
|---|---|---|---|
| 16 W | 103 | 195 | 16 |
| 28 W | 108 | 320 | 28 |

[1] Detail see IEC 60901
[2] According to IEC 60901

## Photometrical Data at 25 °C (100 h agged) ambient temperature[3]

| CFL SQUARE® 2- Pin | Light Color LUMILUX® | Color Rendering Index (CRI), Ra | Target Color Coordinate X | Target Color Coordinate Y | Nominal Luminous Flux [lm] | Efficacy 25 °C [lm/W] | Energy Efficiency Class |
|---|---|---|---|---|---|---|---|
| 16 W | 827 INTERNA | 80 … 89 | 0.455 | 0.415 | 1050 | 66 | B |
| 16 W | 835 White | 80 … 89 | 0.409 | 0.394 | 1050 | 66 | B |
| 28 W | 827 INTERNA | 80 … 89 | 0.455 | 0.415 | 2050 | 73 | B |
| 28 W | 835 White | 80 … 89 | 0.409 | 0.394 | 2050 | 73 | 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

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

# Lifetime[4]

| | CCG IEC switching cycle[5] |
|---|---|
| **B50[6]** | 10000 |
| **Service life time[7]** | 6000 |
| **LLMF[8] 2.000 h** | 0,85 |
| **LLMF 4.000 h** | 0.78 |
| **LLMF 6.000 h** | 0.76 |
| **LLMF 8.000 h** | 0.75 |
| **LLMF 10.000 h** | 0.73 |
| | |
| **LSF[9] 2.000 h** | 0.98 |
| **LSF 4.000 h** | 0.90 |
| **LSF 6.000 h** | 0.88 |
| **LSF 8.000 h** | 0.80 |
| **LSF 10.000 h** | 0.50 |

# Logistic Data

| Description | EAN 10 | EAN 40 | Packaging Unit |
|---|---|---|---|
| CFL SQUARE® 2- Pin 16W/827 | 4050300816852 | 4050300816869 | 20 |
| CFL SQUARE® 2- Pin 16W/835 | 4050300816838 | 4050300816845 | 20 |
| CFL SQUARE® 2- Pin 28W/827 | 4050300816913 | 4050300816920 | 20 |
| CFL SQUARE® 2- Pin 28W/835 | 4050300816937 | 4050300816944 | 20 |

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

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

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

[4] Measurement in accordance with IEC 60901, annex C.
[5] Switching cycle 165 min. on, 15 min. off (according to IEC)
[6] Average rated lamp life (B50) is the average value of the life values of individual lamps operated under standardized conditions (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, see annex C, IEC 60901), 50% of a sample population of lamps have failed.
[7] 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.
[8] 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
[9] Lamp Survival Factor (Lamp survival in %): Ratio of the number of electrically intact lamps to the total number of lamps