

## PrevaLED COIN 111 AC G1

LED modules with integrated optics and heat sink



### Areas of application

- LED replacement for high intensity discharge lamps up to 35 W
- Shop lighting
- Shopping centers
- Exhibition halls
- Museums

### Product benefits

- Easy and quick design-in for luminaire manufacturers
- Turn-key solution for projects
- 5 year guarantee

### Product features

- Integrated driver, heat sink and lens optics
- Fits into most existing traditional R111 luminaires
- Available with 24° or 40° beam angle
- Versions with different luminous flux and different color temperatures available
- Lifetime (L70/B50): 35,000 h (temperature at  $T_c = 68\text{ °C}$ )



## Product family datasheet

### Technical data

#### Electrical data

| Product description                      | Nominal wattage | Rated wattage | Nominal current | Nominal voltage | Input voltage range | Power factor $\lambda$ |
|--|-----------------|---------------|-----------------|-----------------|---------------------|------------------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 15.50 W         | 15.50 W       | 0.075 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 15.50 W         | 15.50 W       | 0.075 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 15.50 W         | 15.50 W       | 0.075 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 15.50 W         | 15.50 W       | 0.075 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 22.50 W         | 22.50 W       | 0.105 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 22.50 W         | 22.50 W       | 0.105 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 22.50 W         | 22.50 W       | 0.105 A         | 230 V           | 220...240 V         | $\geq 0.90$            |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 22.50 W         | 22.50 W       | 0.105 A         | 230 V           | 220...240 V         | $\geq 0.90$            |

| Product description                      | Type of current |
|--|-----------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | AC              |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | AC              |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems/All](http://www.osram.com/led-systems/All) the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

#### Photometrical data

| Product description                      | Total useful luminous flux | Luminous efficacy | Color temperature | Light color (designation) | Color rendering index Ra | Standard deviation of color matching |
|--|----------------------------|-------------------|-------------------|---------------------------|--------------------------|--------------------------------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 1250 lm                    | 81 lm/W           | 3000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 1250 lm                    | 81 lm/W           | 3000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 1350 lm                    | 87 lm/W           | 4000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 1350 lm                    | 87 lm/W           | 4000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 1850 lm                    | 82 lm/W           | 3000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 1850 lm                    | 82 lm/W           | 3000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 1950 lm                    | 87 lm/W           | 4000 K            | White                     | 83                       | $\leq 4$ sdc                         |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 1950 lm                    | 87 lm/W           | 4000 K            | White                     | 83                       | $\leq 4$ sdc                         |

| Product description                      | Luminous intensity | Nominal useful luminous flux 90° | Rated useful luminous flux 90° | Nom. useful luminous flux 120° | Rated useful luminous flux 120° |
|--|--------------------|----------------------------------|--------------------------------|--------------------------------|---------------------------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 4350 cd            | 1151 lm                          | 1151 lm                        | 1209 lm                        | 1209 lm                         |

## Product family datasheet

| Product description                      | Luminous intensity | Nominal useful luminous flux 90° | Rated useful luminous flux 90° | Nom. useful luminous flux 120° | Rated useful luminous flux 120° |
|--|--------------------|----------------------------------|--------------------------------|--------------------------------|---------------------------------|
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 2250 cd            | 1129 lm                          | 1129 lm                        | 1201 lm                        | 1201 lm                         |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 4700 cd            | 1243 lm                          | 1243 lm                        | 1305 lm                        | 1305 lm                         |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 2400 cd            | 1224 lm                          | 1224 lm                        | 1300 lm                        | 1300 lm                         |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 6450 cd            | 1664 lm                          | 1664 lm                        | 1777 lm                        | 1777 lm                         |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 3300 cd            | 1616 lm                          | 1616 lm                        | 1759 lm                        | 1759 lm                         |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 6800 cd            | 1759 lm                          | 1759 lm                        | 1875 lm                        | 1875 lm                         |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 3500 cd            | 1752 lm                          | 1752 lm                        | 1874 lm                        | 1874 lm                         |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Light technical data

| Product description                      | Nominal beam angle | Rated beam angle (half peak value) | Starting time |
|--|--------------------|------------------------------------|---------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 24 °               | 24.00 °                            | < 0.5 s       |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 40 °               | 40.00 °                            | < 0.5 s       |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 24 °               | 24.00 °                            | < 0.5 s       |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 40 °               | 40.00 °                            | < 0.5 s       |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 24 °               | 24.00 °                            | < 0.5 s       |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 40 °               | 40.00 °                            | < 0.5 s       |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 24 °               | 24.00 °                            | < 0.5 s       |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 40 °               | 40.00 °                            | < 0.5 s       |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

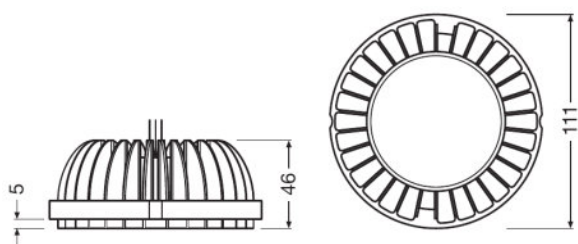
### Dimensions & weight

| Product description                      | Diameter | Rated height | Cable length | Product weight |
|--|----------|--------------|--------------|----------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 110.7 mm | 50.00 mm     | 500.0 mm     | 340.00 g       |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

## Product family datasheet

### Product line drawing



PL-CN 111AC-1200-830 24 G1, PL-CN 111AC-1200-830 40 G1, PL-CN 111AC-1200-840 24 G1, PL-CN 111AC-1200-840 40 G1, PL-CN 111AC-1800-830 24 G1, PL-CN 111AC-1800-830 40 G1, PL-CN 111AC-1800-840 24 G1, PL-CN 111AC-1800-840 40 G1

### Colors & materials

| Product description                      | Heatsink color |
|--|----------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | Grey           |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | Grey           |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems). All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

## Product family datasheet

### Temperatures & operating conditions

| Product description                      | Performance temp. acc. to IEC 62717 | Maximum temperature at tc test point |
|--|-------------------------------------|--------------------------------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 68 °C                               | 80 °C                                |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Lifespan

| Product description                      | Lumen main. fact. at end of nom. life time | Lifespan | Nominal lamp life time | Rated lamp life time | Number of switching cycles |
|--|--|----------|------------------------|----------------------|----------------------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 0.70                                       | 35000 h  | 35000 h                | 35000 h              | 100000                     |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Capabilities

| Product description                      | Dimmable |
|--|----------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | No       |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | No       |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily

## Product family datasheet

correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Certificates & standards

| Product description                      | Energy consumption | Standards  |
|--|--------------------|--|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | 16 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | 16 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | 16 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | 16 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | 23 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | 23 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | 23 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | 23 kWh/1000h       | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471/CE/ROHS/UL-94 |

| Product description                      | Energy efficiency class |
|--|-------------------------|
| PL-CN 111AC-1200-830 24 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1200-830 40 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1200-840 24 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1200-840 40 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1800-830 24 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1800-830 40 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1800-840 24 G1 <sup>1)</sup> | A                       |
| PL-CN 111AC-1800-840 40 G1 <sup>1)</sup> | A                       |

<sup>1)</sup> For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

### Application advice












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

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

## Product family datasheet

| File  |  |
|---|--|
|    | Product Datasheet<br>498131_Data Sheet PrevaLED COIN 111 AC                      |
|    | Certificates<br>505712_ENEC Marks Approval 40038544                              |
|    | Declarations of conformity<br>EU Declaration of Conformity PL COIN 111 G1 family |
|    | Eulumdat<br>540295_PL-CN111AC-G1 1200-830 24                                     |
|    | Eulumdat<br>540296_PL-CN111AC-G1 1200-830 40                                     |
|    | Eulumdat<br>540298_PL-CN111AC-G1 1200-840 24                                     |
|    | Eulumdat<br>540300_PL-CN111AC-G1 1200-840 40                                     |
|    | Eulumdat<br>540305_PL-CN111AC-G1 1800-830 24                                     |
|    | Eulumdat<br>540304_PL-CN111AC-G1 1800-830 40                                     |
|   | Eulumdat<br>540299_PL-CN111AC-G1 1800-840 24                                     |
|  | Eulumdat<br>540297_PL-CN111AC-G1 1800-840 40                                     |

## Logistical Data

| Product code  | Product description           | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|-------------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899165533 | PL-CN 111AC-1200-830<br>24 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 5003.00 g    |
| 4052899165618 | PL-CN 111AC-1200-830<br>40 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 4938.00 g    |
| 4052899165557 | PL-CN 111AC-1200-840<br>24 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 5003.00 g    |
| 4052899165632 | PL-CN 111AC-1200-840<br>40 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 5003.00 g    |
| 4052899165571 | PL-CN 111AC-1800-830<br>24 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 5007.00 g    |
| 4052899165656 | PL-CN 111AC-1800-830<br>40 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 4992.00 g    |
| 4052899165595 | PL-CN 111AC-1800-840<br>24 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 5098.00 g    |
| 4052899165670 | PL-CN 111AC-1800-840<br>40 G1 | Shipping carton box<br>12    | 280 mm x 254 mm x 224 mm             | 15.93 dm <sup>3</sup> | 5003.00 g    |

## Product family datasheet

| 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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### References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit

- ▶ [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

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### Disclaimer

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