

## PRODUCT DATASHEET

### PL-CN111-COB- 1800-930-24D-G1

PrevaLED® COIN 111 COB G1 | LED modules with integrated optics and heat sink



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## TECHNICAL DATA

### Electrical data

|                                        |            |
|----------------------------------------|------------|
| Nominal wattage                        | 18 W       |
| Construction wattage                   | 18.00 W    |
| Claimed equiv. conventional lamp power | 100 W      |
| Nominal voltage                        | 36 V       |
| Input voltage range                    | 35...38 V  |
| Type of current                        | DC         |
| Nominal current                        | 500.000 mA |

### Photometrical data

|                                        |                     |
|----------------------------------------|---------------------|
| Total useful luminous flux [PICOS]     | 1880 lm             |
| Luminous efficacy                      | 105 lm/W            |
| Luminous flux                          | 1700 lm             |
| Luminous intensity                     | 9800 cd             |
| Nom. useful luminous flux 120° [PICOS] | 1851 lm             |
| Color temperature                      | 3000 K              |
| Color rendering index Ra               | 90                  |
| Light color LED                        | White               |
| Light color (designation)              | Warm White          |
| Standard deviation of color matching   | ≤3 sdc <sub>m</sub> |
| Rated peak intensity                   | 9800 cd             |

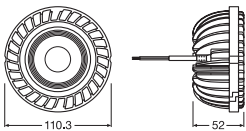
### Light technical data

|                                    |         |
|------------------------------------|---------|
| Beam angle                         | 24 °    |
| Rated beam angle (half peak value) | 24.00 ° |
| Starting time                      | 0.0 s   |
| Warm-up time (60 %)                | 0.00 s  |

### LED MODULE INFORMATION

|                           |   |
|---------------------------|---|
| Number of LEDs per module | 1 |
|---------------------------|---|

### Dimensions & Weight



|                |           |
|----------------|-----------|
| Length         | 111.0 mm  |
| Cable length   | 500.000   |
| Width          | 111.00 mm |
| Height         | 52.00 mm  |
| Diameter       | 111,0 mm  |
| Product weight | 425.00 g  |

Colors & materials

|               |       |
|---------------|-------|
| Product color | White |
|---------------|-------|

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -25...+40 °C |
| Maximum temperature at tc test point | 80 °C        |
| Temperature range in operation       | -25...80 °C  |
| Performance temp. acc. to IEC 62717  | 55 °C        |

Lifespan

|                            |         |
|----------------------------|---------|
| Nominal lamp life time     | 50000 h |
| Number of switching cycles | 100000  |

Additional product data

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product remark | Modules perfectly matched to OSRAM OPTOTRONIC® LED drivers (see relevant table) / For current photometric data and important safety, installation and application information, see <a href="http://www.osram.com/led-systems">www.osram.com/led-systems</a> . / 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 / Tolerance for optical and electrical data: +/-10% |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Capabilities

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

## Certificates &amp; Standards

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Standards               | Acc. to IEC 62471 / Acc. to IEC 60598-1 / Acc. to EN 60529 / Acc. to EN 62031 / Acc. to EN 55015 / Acc. to EN 61547 |
| Type of protection      | IP20                                                                                                                |
| Energy consumption      | 19.75 kWh/1000h                                                                                                     |
| Energy efficiency class | A+                                                                                                                  |

## LOGISTICAL DATA

|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -40...80 °C |
|------------------------------|-------------|

## DOWNLOAD DATA

| Documents and certificates                                                        |                            | Document name                                       |
|-----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------|
|   | Declarations of conformity | EU Declaration of Conformity of PL-CN COB G1 family |
|   | Certificates               | CQC certificate                                     |
|  | Certificates               | 685711_ENEC CUBE G3                                 |

| Photometric and lighting design files                                              |                     | Document name                           |
|------------------------------------------------------------------------------------|---------------------|-----------------------------------------|
|  | IES file (IES)      | PL-CN111-COB-1800-930-24D-G1            |
|  | LDT file (Eulumdat) | PL CN111 COB 1800 930 24D G1 LDT 300420 |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4052899541412 | Folding box<br>1             | 131 mm x 118 mm x 59 mm              | 463.00 g     | 0.91 dm <sup>3</sup>  |
| 4052899541429 | Shipping box<br>12           | 280 mm x 254 mm x 209 mm             | 5922.00 g    | 14.86 dm <sup>3</sup> |

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.

## DISCLAIMER

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