

## PRODUCT FAMILY DATASHEET

### PrevaLED COIN 50 COB G1

LED modules with integrated optics and heat sink



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#### AREAS OF APPLICATION

- Retail outlets
- Shop lighting
- Restaurants
- Hospitality
- Museums, galleries

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#### PRODUCT FAMILY BENEFITS

- Compact design
- Compatible with conventional MR16 lamps
- High color temperature consistency throughout the whole module
- Multi-Shadow-free illumination thanks to single light source
- 5 year guarantee

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#### PRODUCT FAMILY FEATURES

- Consistent white light: < 3 SDCM
- Color rendering index Ra: >80 and >90
- Luminous flux: 980...1,500 lm (model dependent)
- Beam angle: 15° (on demand), 24°, 40°



TECHNICAL DATA

Electrical data

Product description	Nominal wattage	Rated wattage	Nominal current	Nominal voltage	Input voltage range	Type of current	Claimed equiv. conventional lamp power
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	12.30 W	12.30 W	0.35 A	35.2 V	34...37 V	DC	50 W
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	12.30 W	12.30 W	0.35 A	35.2 V	34...37 V	DC	50 W
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	12.30 W	12.30 W	0.35 A	35.2 V	34...37 V	DC	50 W
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	12.30 W	12.30 W	0.35 A	35.2 V	34...37 V	DC	50 W
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	12.90 W	12.90 W	0.35 A	36.9 V	36...39 V	DC	50 W
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	12.90 W	12.90 W	0.35 A	36.9 V	36...39 V	DC	50 W
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	12.90 W	12.90 W	0.35 A	36.9 V	36...39 V	DC	50 W
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	12.90 W	12.90 W	0.35 A	36.9 V	36...39 V	DC	50 W

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

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-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	1120 lm	88 lm/W	4000 K	Neutral White	≥90	≤3 sdc
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	1050 lm	84 lm/W	4000 K	Neutral White	≥90	≤3 sdc
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	980 lm	79 lm/W	3000 K	Warm White	≥90	≤3 sdc
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	1020 lm	82 lm/W	3000 K	Warm White	≥90	≤3 sdc
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	1510 lm	117 lm/W	4000 K	Neutral White	≥80	≤3 sdc
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	1430 lm	111 lm/W	4000 K	Neutral White	≥80	≤3 sdc
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	1360 lm	105 lm/W	3000 K	Warm White	≥80	≤3 sdc
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	1430 lm	111 lm/W	3000 K	Warm White	≥80	≤3 sdc

Product description	Luminous intensity [PIM]	Rated peak intensity	Nominal useful luminous flux 90°	Rated useful luminous flux 90°	Nom. useful luminous flux 120°
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	4587 cd	4590 cd	963 lm	963 lm	1058 lm
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	2100 cd	2100 cd	926 lm	926 lm	1018 lm
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	1965 cd	1970 cd	950 lm	855 lm	950 lm
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	4287 cd	4290 cd	990 lm	891 lm	990 lm
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	5130 cd	5130 cd	1339 lm	1339 lm	1471 lm
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	2793 cd	2790 cd	1244 lm	1244 lm	1376 lm
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	2615 cd	2620 cd	1183 lm	1183 lm	1300 lm
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	4848 cd	4850 cd	1268 lm	1268 lm	1393 lm

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

## Light technical data

Product description	Nominal beam angle	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	24 °	24.00 °	0.0 s	0.00 s

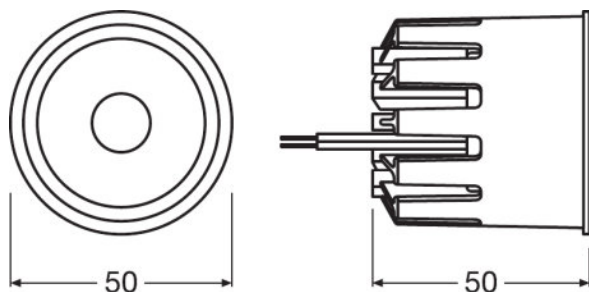
<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information (see [www.osram.com/led-systems](http://www.osram.com/led-systems))/All the technical parameters apply to the entire 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/Tolerance for optical and electrical data: +/-10%

## Dimensions &amp; weight

Product description	Diameter	Rated width	Rated height	Cable length	Product weight
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	50.0 mm	50.0 mm	52.00 mm	500 mm	90.00 g

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

**Product line drawing**



PL-CN50-COB- 900-940-24D-G1, PL-CN50-COB- 900-940-40D-G1, PL-CN50-COB- 900-930-40D-G1, PL-CN50-COB- 900-930-24D-G1, PL-CN50-COB- 1400-840-24D-G1, PL-CN50-COB- 1400-840-40D-G1, PL-CN50-COB- 1400-830-40D-G1, PL-CN50-COB- 1400-830-24D-G1

**Colors & materials**

Product description	Heatsink color
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	Silver
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	Silver

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

## Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Maximum temperature at tc test point	Ambient temperature range
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	75 °C	90 °C	-20...+40 °C
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	75 °C	90 °C	-20...+40 °C
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	75 °C	90 °C	-20...+40 °C
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	75 °C	90 °C	-20...+40 °C

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

## Lifespan

Product description	Lifespan	Nominal lamp life time	Rated lamp life time	Number of switching cycles
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	50000 h	50000 h	50000 h	100000

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

## Capabilities

Product description	Dimmable
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	Yes
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	Yes

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

**Certificates & standards**

Product description	Energy consumption	Standards	Energy efficiency class
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	14 kWh/1000h	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	A+
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	14 kWh/1000h	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	A+
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	14 kWh/1000h	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	A+
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	14 kWh/1000h	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	A+
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	15 kWh/1000h	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	A+
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	15 kWh/1000h	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	A+
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	15 kWh/1000h	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	A+
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	15 kWh/1000h	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	A+

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%

**Logistical data**

Product description	Temperature range at storage
PL-CN50-COB- 900-940-24D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 900-940-40D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 900-930-40D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 900-930-24D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 1400-840-24D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 1400-840-40D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 1400-830-40D-G1 <sup>1)</sup>	-40...80 °C
PL-CN50-COB- 1400-830-24D-G1 <sup>1)</sup>	-40...80 °C

<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/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/Tolerance for optical and electrical data: +/-10%












**APPLICATION ADVICE**

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

**SALES AND TECHNICAL SUPPORT**

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

## DOWNLOAD DATA

File	
	Certificates 685711_ENEC CUBE G3
	Declarations of conformity Declarations of conformity
	CAD data Coin50 DC COB
	IES data PL-CN50-COB-900-940-24D-G1
	IES data PL-CN50-COB-900-940-40D-G1
	IES data PL-CN50-COB-900-930-40D-G1
	IES data PL-CN50-COB-900-930-24D-G1
	IES data PL-CN50-COB-1400-840-24D-G1
	IES data PL-CN50-COB-1400-840-40D-G1
	IES data PL-CN50-COB-1400-830-40D-G1
	IES data PL-CN50-COB-1400-830-24D-G1

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899541788	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541825	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541764	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541207	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541924	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541948	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541900	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm <sup>3</sup>
4052899541887	Shipping carton box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 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.

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**DISCLAIMER**

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