

PRODUCT DATASHEET

PL-CN50-COB- 1400-830-40D-G1

PrevaLED® COIN 50 COB G1 | LED modules with integrated optics and heat sink



TECHNICAL DATA

Electrical data

Nominal wattage	12.90 W
Construction wattage	12.90 W
Claimed equiv. conventional lamp power	50 W
Nominal voltage	36.9 V
Input voltage range	36...39 V
Type of current	DC
Nominal current	350.000 mA

Photometrical data

Total useful luminous flux [PICOS]	1360 lm
Luminous efficacy	105 lm/W
Luminous flux	1300 lm ¹⁾
Luminous intensity	2650 cd
Nom. useful luminous flux 120° [PICOS]	1300 lm
Color temperature	3000 K
Color rendering index Ra	≥80
Light color LED	White
Light color (designation)	Warm White
Standard deviation of color matching	3 sdcm
Rated peak intensity	2650 cd

1) 90 °

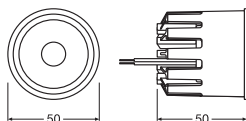
Light technical data

Beam angle	40 °
Rated beam angle (half peak value)	40.00 °
Starting time	0.0 s
Warm-up time (60 %)	0.00 s

LED MODULE INFORMATION

Number of LEDs per module	1
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Dimensions & Weight



Length	50.0 mm
Cable length	500.000
Width	50.00 mm
Height	52.00 mm
Diameter	50,0 mm
Product weight	90.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	90 °C
Temperature range in operation	-25...90 °C
Performance temp. acc. to IEC 62717	75 °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 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%
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Capabilities

Dimmable	Yes
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Certificates & 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
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Type of protection	IP20
Energy consumption	14.21 kWh/1000h
Energy efficiency class	E
Energy class of contained light source	E

LOGISTICAL DATA

Temperature range at storage	-40...80 °C
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Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
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DOWNLOAD DATA

Documents and certificates		Document name
	Declarations of conformity	Declarations of conformity
	Certificates	685711_ENEC CUBE G3

Photometric and lighting design files		Document name
	IES file (IES)	PL-CN50-COB-1400-830-40D-G1
	LDT file (Eulumdat)	PL CN50 COB 1400 830 40D G1 LDT 300420

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899541894	Folding box 1	51 mm x 51 mm x 62 mm	102.00 g	0.16 dm ³
4052899541900	Shipping box 20	268 mm x 110 mm x 138 mm	2156.00 g	4.07 dm ³

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

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