

PrevaLED COIN 50 COB G1

LED modules with integrated optics and heat sink



Areas of application

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

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

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°



Product family datasheet

Technical data

Electrical data

Product description	Nominal wattage	Rated wattage	Nominal current	Nominal voltage	Type of current	Claimed equiv. conventional lamp power
PL-CN50-COB- 900-927-15D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-927-24D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-927-40D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-930-15D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-930-24D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-930-40D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-940-15D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-940-24D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 900-940-40D-G1 ¹⁾	12.30 W	12.30 W	0.35 A	35.2 V	DC	50 W
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	12.90 W	12.90 W	0.35 A	36.9 V	DC	50 W
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	12.90 W	12.90 W	0.35 A	36.9 V	DC	50 W
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	12.90 W	12.90 W	0.35 A	36.9 V	DC	50 W
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	12.90 W	12.90 W	0.35 A	36.9 V	DC	50 W

¹⁾ See product remark

Photometrical data

Product description	Total useful luminous flux	Luminous efficacy	Light color (designation)	Standard deviation of color matching	Luminous intensity	Nominal useful luminous flux 90°
PL-CN50-COB- 900-927-15D-G1 ¹⁾	980 lm	80 lm/W	Warm White	≤3 sdc	6700 cd	912 lm
PL-CN50-COB- 900-927-24D-G1 ¹⁾	960 lm	78 lm/W	Warm White	≤3 sdc	3900 cd	876 lm
PL-CN50-COB- 900-927-40D-G1 ¹⁾	920 lm	75 lm/W	Warm White	≤3 sdc	1800 cd	846 lm
PL-CN50-COB- 900-930-15D-G1 ¹⁾	1040 lm	85 lm/W	Warm White	≤3 sdc	7495 cd	1016 lm
PL-CN50-COB- 900-930-24D-G1 ¹⁾	1020 lm	82 lm/W	Warm White	≤3 sdc	4287 cd	990 lm
PL-CN50-COB- 900-930-40D-G1 ¹⁾	980 lm	79 lm/W	Warm White	≤3 sdc	1965 cd	950 lm
PL-CN50-COB- 900-940-15D-G1 ¹⁾	1120 lm	91 lm/W	Neutral White	≤3 sdc	8036 cd	1094 lm
PL-CN50-COB- 900-940-24D-G1 ¹⁾	1090 lm	88 lm/W	Neutral White	≤3 sdc	4587 cd	963 lm
PL-CN50-COB- 900-940-40D-G1 ¹⁾	1050 lm	84 lm/W	Neutral White	≤3 sdc	2100 cd	926 lm
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	1430 lm	111 lm/W	Warm White	≤3 sdc	4848 cd	1268 lm
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	1360 lm	105 lm/W	Warm White	≤3 sdc	2615 cd	1183 lm
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	1510 lm	117 lm/W	Neutral White	≤3 sdc	5130 cd	1339 lm
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	1430 lm	111 lm/W	Neutral White	≤3 sdc	2793 cd	1244 lm

Product description	Rated useful luminous flux 90°
PL-CN50-COB- 900-927-15D-G1 ¹⁾	912 lm

Product family datasheet

Product description	Rated useful luminous flux 90°
PL-CN50-COB- 900-927-24D-G1 ¹⁾	876 lm
PL-CN50-COB- 900-927-40D-G1 ¹⁾	846 lm
PL-CN50-COB- 900-930-15D-G1 ¹⁾	813 lm
PL-CN50-COB- 900-930-24D-G1 ¹⁾	891 lm
PL-CN50-COB- 900-930-40D-G1 ¹⁾	855 lm
PL-CN50-COB- 900-940-15D-G1 ¹⁾	985 lm
PL-CN50-COB- 900-940-24D-G1 ¹⁾	963 lm
PL-CN50-COB- 900-940-40D-G1 ¹⁾	926 lm
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	1268 lm
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	1183 lm
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	1339 lm
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	1244 lm

¹⁾ See product remark

Light technical data

Product description	Nominal beam angle	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
PL-CN50-COB- 900-927-15D-G1 ¹⁾	15 °	15.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-927-24D-G1 ¹⁾	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-927-40D-G1 ¹⁾	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-930-15D-G1 ¹⁾	15 °	15.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-930-24D-G1 ¹⁾	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-930-40D-G1 ¹⁾	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-940-15D-G1 ¹⁾	15 °	15.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-940-24D-G1 ¹⁾	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 900-940-40D-G1 ¹⁾	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	40 °	40.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	24 °	24.00 °	0.0 s	0.00 s
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	40 °	40.00 °	0.0 s	0.00 s

¹⁾ See product remark

Product family datasheet

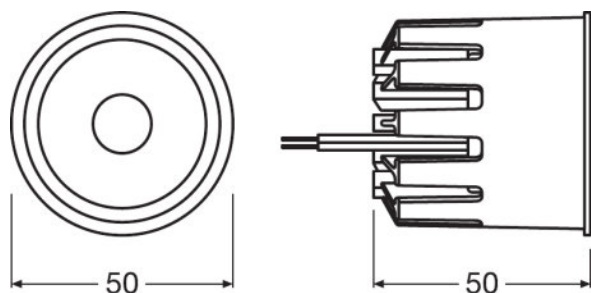
Dimensions & weight

Product description	Diameter	Rated height	Product weight
PL-CN50-COB- 900-927-15D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-927-24D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-927-40D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-930-15D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-930-24D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-930-40D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-940-15D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-940-24D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 900-940-40D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	50.0 mm	52.00 mm	90.00 g

¹⁾ See product remark

Product family datasheet

Product line drawing



PL-CN50-COB- 900-927-15D-G1, PL-CN50-COB- 900-927-24D-G1, PL-CN50-COB- 900-927-40D-G1, PL-CN50-COB- 900-930-15D-G1, PL-CN50-COB- 900-930-24D-G1, PL-CN50-COB- 900-930-40D-G1, PL-CN50-COB- 900-940-15D-G1, PL-CN50-COB- 900-940-24D-G1, PL-CN50-COB- 900-940-40D-G1, PL-CN50-COB- 1400-830-24D-G1, PL-CN50-COB- 1400-830-40D-G1, PL-CN50-COB- 1400-840-24D-G1, PL-CN50-COB- 1400-840-40D-G1

Colors & materials

Product description	Heatsink color
PL-CN50-COB- 900-927-15D-G1 ¹⁾	Silver
PL-CN50-COB- 900-927-24D-G1 ¹⁾	Silver
PL-CN50-COB- 900-927-40D-G1 ¹⁾	Silver
PL-CN50-COB- 900-930-15D-G1 ¹⁾	Silver
PL-CN50-COB- 900-930-24D-G1 ¹⁾	Silver
PL-CN50-COB- 900-930-40D-G1 ¹⁾	Silver
PL-CN50-COB- 900-940-15D-G1 ¹⁾	Silver
PL-CN50-COB- 900-940-24D-G1 ¹⁾	Silver
PL-CN50-COB- 900-940-40D-G1 ¹⁾	Silver
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	Silver
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	Silver
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	Silver
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	Silver

Product family datasheet

¹⁾ See product remark

Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Maximum temperature at tc test point	Ambient temperature range
PL-CN50-COB- 900-927-15D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-927-24D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-927-40D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-930-15D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-930-24D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-930-40D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-940-15D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-940-24D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 900-940-40D-G1 ¹⁾	75 °C	85 °C	-20...+40 °C
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	75 °C	90 °C	-20...+40 °C
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	75 °C	90 °C	-20...+40 °C
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	75 °C	90 °C	-20...+40 °C
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	75 °C	90 °C	-20...+40 °C

¹⁾ See product remark

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-CN50-COB- 900-927-15D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-927-24D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-927-40D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-930-15D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-930-24D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-930-40D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-940-15D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-940-24D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 900-940-40D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	0.70	50000 h	50000 h	50000 h	100000

¹⁾ See product remark

Product family datasheet

Capabilities

Product description	Dimmable
PL-CN50-COB- 900-927-15D-G1 ¹⁾	Yes
PL-CN50-COB- 900-927-24D-G1 ¹⁾	Yes
PL-CN50-COB- 900-927-40D-G1 ¹⁾	Yes
PL-CN50-COB- 900-930-15D-G1 ¹⁾	Yes
PL-CN50-COB- 900-930-24D-G1 ¹⁾	Yes
PL-CN50-COB- 900-930-40D-G1 ¹⁾	Yes
PL-CN50-COB- 900-940-15D-G1 ¹⁾	Yes
PL-CN50-COB- 900-940-24D-G1 ¹⁾	Yes
PL-CN50-COB- 900-940-40D-G1 ¹⁾	Yes
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	Yes
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	Yes
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	Yes
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	Yes

¹⁾ See product remark

Product family datasheet

Certificates & standards

Product description	Energy consumption	Energy efficiency class	Standards
PL-CN50-COB- 900-927-15D-G1 ¹⁾	14 kWh/1000h	A	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
PL-CN50-COB- 900-927-24D-G1 ¹⁾	14 kWh/1000h	A	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
PL-CN50-COB- 900-927-40D-G1 ¹⁾	14 kWh/1000h	A	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
PL-CN50-COB- 900-930-15D-G1 ¹⁾	14 kWh/1000h	A+	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
PL-CN50-COB- 900-930-24D-G1 ¹⁾	14 kWh/1000h	A+	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
PL-CN50-COB- 900-930-40D-G1 ¹⁾	14 kWh/1000h	A	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
PL-CN50-COB- 900-940-15D-G1 ¹⁾	14 kWh/1000h	A+	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
PL-CN50-COB- 900-940-24D-G1 ¹⁾	14 kWh/1000h	A+	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
PL-CN50-COB- 900-940-40D-G1 ¹⁾	14 kWh/1000h	A+	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
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	15 kWh/1000h	A+	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
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	15 kWh/1000h	A+	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
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	15 kWh/1000h	A+	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
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	15 kWh/1000h	A+	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

¹⁾ See product remark

Product family datasheet

Logistical data

Product description	Temperature range at storage
PL-CN50-COB- 900-927-15D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-927-24D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-927-40D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-930-15D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-930-24D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-930-40D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-940-15D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-940-24D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 900-940-40D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 1400-830-24D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 1400-830-40D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 1400-840-24D-G1 ¹⁾	-40...80 °C
PL-CN50-COB- 1400-840-40D-G1 ¹⁾	-40...80 °C

¹⁾ See product remark

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



Application advice

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











Sales and Technical Support

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Download Data

File
 Certificates 685711_ENEC certificate
 Declarations of conformity Declarations of conformity

Product family datasheet

	IES data IES file for PL-CN50-COB-900-930-15D-G1
	IES data PL-CN50-COB-900-930-24D-G1
	IES data PL-CN50-COB-900-930-40D-G1
	IES data PL-CN50-COB-900-940-15D-G1 20X1
	IES data PL-CN50-COB-900-940-24D-G1
	IES data PL-CN50-COB-900-940-40D-G1
	IES data PL-CN50-COB-1400-830-24D-G1
	IES data PL-CN50-COB-1400-830-40D-G1
	IES data PL-CN50-COB-1400-840-24D-G1
	IES data PL-CN50-COB-1400-840-40D-G1

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899583603	PL-CN50-COB- 900-927-15D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899583627	PL-CN50-COB- 900-927-24D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899583641	PL-CN50-COB- 900-927-40D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541153	PL-CN50-COB- 900-930-15D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541191	PL-CN50-COB- 900-930-24D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541757	PL-CN50-COB- 900-930-40D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541795	PL-CN50-COB- 900-940-15D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541771	PL-CN50-COB- 900-940-24D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541818	PL-CN50-COB- 900-940-40D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541870	PL-CN50-COB- 1400-830-24D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899541894	PL-CN50-COB- 1400-830-40D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541917	PL-CN50-COB- 1400-840-24D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g
4052899541931	PL-CN50-COB- 1400-840-40D-G1	Shipping carton box 20	268 mm x 110 mm x 138 mm	4.07 dm ³	2156.00 g

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.

References / Links

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

▶ www.osram.com/system-guarantee

Disclaimer

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