

BackLED L CX G4

LED modules for light advertising and backlighting



Product family features

- Color consistency in 3 SDCM
- Diffusive Optics technology
- Wide CCT options available
- IP66 Rated

Product family benefits

- High module flux output up to 160 lm
- Energy saving with high efficacy
- Wide beam angle for high uniformity
- Good solution to reduce system cost

Areas of application

- Backlighting



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current
BA-L-CX-830 G4	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX-840 G4	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX-865 G4	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX-871 G4	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX-810 G4	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Luminous flux per module chain	Luminous flux per LED module	Luminous efficacy
BA-L-CX-830 G4	3000 K	80	Warm White	Warm white	3000 lm	150 lm	100 lm/W
BA-L-CX-840 G4	4000 K	80	Neutral White	Neutral white	3240 lm	162 lm	108 lm/W
BA-L-CX-865 G4	6500 K	80	Cool White	Cool white	3240 lm	162 lm	108 lm/W
BA-L-CX-871 G4	7100 K	80	Cool White	Cool white	3240 lm	162 lm	108 lm/W
BA-L-CX-810 G4	10000 K	80	Cool White	Cool white	3000 lm	150 lm	100 lm/W

Product description	Standard deviation of color matching
BA-L-CX-830 G4	≤3 sdcn
BA-L-CX-840 G4	≤3 sdcn
BA-L-CX-865 G4	≤3 sdcn
BA-L-CX-871 G4	≤3 sdcn
BA-L-CX-810 G4	≤3 sdcn

Light technical data

Product description	Beam angle
BA-L-CX-830 G4	160 °
BA-L-CX-840 G4	160 °
BA-L-CX-865 G4	160 °
BA-L-CX-871 G4	160 °
BA-L-CX-810 G4	160 °

Product family datasheet

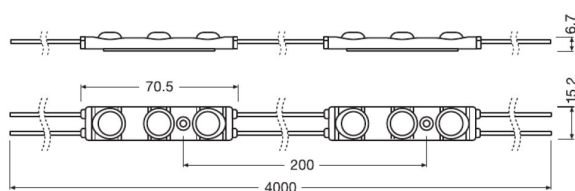
LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BA-L-CX-830 G4	3	20	1
BA-L-CX-840 G4	3	20	1
BA-L-CX-865 G4	3	20	1
BA-L-CX-871 G4	3	20	1
BA-L-CX-810 G4	3	20	1

Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-L-CX-830 G4	4000 mm	15.2 mm	6.68 mm	240.00 g
BA-L-CX-840 G4	4000 mm	15.2 mm	6.68 mm	240.00 g
BA-L-CX-865 G4	4000 mm	15.2 mm	6.68 mm	240.00 g
BA-L-CX-871 G4	4000 mm	15.2 mm	6.68 mm	240.00 g
BA-L-CX-810 G4	4000 mm	15.2 mm	6.68 mm	240.00 g

Product line drawing



BA-L-CX-830 G4, BA-L-CX-840 G4, BA-L-CX-865 G4, BA-L-CX-871 G4, BA-L-CX-810 G4

Product family datasheet

Temperatures & operating conditions

Product description	Temperature range in operation at T _c point	Temperature range at storage
BA-L-CX-830 G4	-25...75 °C ¹⁾	-25...85 °C
BA-L-CX-840 G4	-25...75 °C ¹⁾	-25...85 °C
BA-L-CX-865 G4	-25...75 °C ¹⁾	-25...85 °C
BA-L-CX-871 G4	-25...75 °C ¹⁾	-25...85 °C
BA-L-CX-810 G4	-25...75 °C ¹⁾	-25...85 °C

¹⁾ At the T_c point

Lifespan

Product description	Lifespan
BA-L-CX-830 G4	30000 h ¹⁾
BA-L-CX-840 G4	30000 h ¹⁾
BA-L-CX-865 G4	30000 h ¹⁾
BA-L-CX-871 G4	30000 h ¹⁾
BA-L-CX-810 G4	30000 h ¹⁾

¹⁾ L70/B50 at T_c 75 °C

Additional product data

Product description	ID of contained light source
BA-L-CX-830 G4	LS_SHZ_600383
BA-L-CX-840 G4	LS_SHZ_600384
BA-L-CX-865 G4	LS_SHZ_600385
BA-L-CX-871 G4	LS_SHZ_600386
BA-L-CX-810 G4	LS_SHZ_600387

Capabilities

Product description	Dimmable	Dimming range
BA-L-CX-830 G4	Yes	1...100 %
BA-L-CX-840 G4	Yes	1...100 %
BA-L-CX-865 G4	Yes	1...100 %
BA-L-CX-871 G4	Yes	1...100 %
BA-L-CX-810 G4	Yes	1...100 %

Product family datasheet

Certificates & standards

Product description	Energy consumption	Type of protection	Standards
BA-L-CX-830 G4	30 kWh/1000h	IP66	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 61547/Acc. to EN 55015/CE
BA-L-CX-840 G4	30 kWh/1000h	IP66	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 61547/Acc. to EN 55015/CE
BA-L-CX-865 G4	30 kWh/1000h	IP66	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 61547/Acc. to EN 55015/CE
BA-L-CX-871 G4	30 kWh/1000h	IP66	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 61547/Acc. to EN 55015/CE
BA-L-CX-810 G4	30 kWh/1000h	IP66	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 61547/Acc. to EN 55015/CE

Logistical data

Product description	Commodity code
BA-L-CX-830 G4	940540399000
BA-L-CX-840 G4	940540399000
BA-L-CX-865 G4	940540399000
BA-L-CX-871 G4	940540399000
BA-L-CX-810 G4	940540399000

Application advice



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

Sales and Technical Support

Product family datasheet

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction BackLED L CX G4 User Instruction
	Declarations of conformity CE BA-MINI-S&M-CP-8xx-G4 BA-L-CX-8xx-G4

Ecodesign regulation information:

ul>This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015. Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.

In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer.

Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172145596	BA-L-CX-830 G4	Shipping carton box 30	350 mm x 250 mm x 230 mm	20.13 dm ³	8000.00 g
4062172145619	BA-L-CX-840 G4	Shipping carton box 30	350 mm x 250 mm x 230 mm	20.13 dm ³	8000.00 g
4062172145633	BA-L-CX-865 G4	Shipping carton box 30	350 mm x 250 mm x 230 mm	20.13 dm ³	8000.00 g
4062172145657	BA-L-CX-871 G4	Shipping carton box 30	350 mm x 250 mm x 230 mm	20.13 dm ³	8000.00 g
4062172145671	BA-L-CX-810 G4	Shipping carton box 30	350 mm x 250 mm x 230 mm	20.13 dm ³	8000.00 g

Product family datasheet

Logistical Data

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.