

BackLED Mini M CP G4

LED modules for light advertising and backlighting



Product family features

- Color consistency in 3 SDCM
- Bat-wing optics solution
- Wide CCT options available
- IP66 Rated

Product family benefits

- High module flux output up to 79 lm
- Energy saving with high efficacy
- Slim dimension for high design freedom
- Good solution to reduce system cost

Areas of application

- Channel letters



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-Mini-M-CP-830 G4	12.0 V	28.80 W	0.72 W	13 V	12...13 V	DC
BA-Mini-M-CP-840 G4	12.0 V	28.80 W	0.72 W	13 V	12...13 V	DC
BA-Mini-M-CP-865 G4	12.0 V	28.80 W	0.72 W	13 V	12...13 V	DC
BA-Mini-M-CP-871 G4	12.0 V	28.80 W	0.72 W	13 V	12...13 V	DC
BA-Mini-M-CP-810 G4	12.0 V	28.80 W	0.72 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-Mini-M-CP-830 G4	3000 K	80	Warm White	Warm white	2880 lm	72 lm	100 lm/W
BA-Mini-M-CP-840 G4	4000 K	80	Neutral White	Neutral white	3160 lm	79 lm	109.7 lm/W
BA-Mini-M-CP-865 G4	6500 K	80	Cool White	Cool white	3160 lm	79 lm	109.7 lm/W
BA-Mini-M-CP-871 G4	7100 K	80	Cool White	Cool white	3160 lm	79 lm	109.7 lm/W
BA-Mini-M-CP-810 G4	10000 K	80	Cool White	Cool white	2880 lm	72 lm	100 lm/W

Product description	Standard deviation of color matching
BA-Mini-M-CP-830 G4	≤3 sdcn
BA-Mini-M-CP-840 G4	≤3 sdcn
BA-Mini-M-CP-865 G4	≤3 sdcn
BA-Mini-M-CP-871 G4	≤3 sdcn
BA-Mini-M-CP-810 G4	≤3 sdcn

Light technical data

Product description	Beam angle
BA-Mini-M-CP-830 G4	140 °
BA-Mini-M-CP-840 G4	140 °
BA-Mini-M-CP-865 G4	140 °
BA-Mini-M-CP-871 G4	140 °
BA-Mini-M-CP-810 G4	140 °

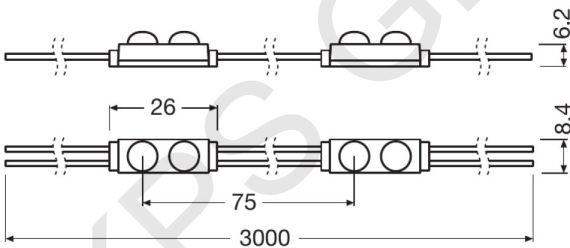
LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BA-Mini-M-CP-830 G4	2	40	1
BA-Mini-M-CP-840 G4	2	40	1
BA-Mini-M-CP-865 G4	2	40	1
BA-Mini-M-CP-871 G4	2	40	1
BA-Mini-M-CP-810 G4	2	40	1

Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-Mini-M-CP-830 G4	3000 mm	8.4 mm	6.15 mm	98.00 g
BA-Mini-M-CP-840 G4	3000 mm	8.4 mm	6.15 mm	98.00 g
BA-Mini-M-CP-865 G4	3000 mm	8.4 mm	6.15 mm	98.00 g
BA-Mini-M-CP-871 G4	3000 mm	8.4 mm	6.15 mm	98.00 g
BA-Mini-M-CP-810 G4	3000 mm	8.4 mm	6.15 mm	98.00 g

Product line drawing



BA-Mini-M-CP-830 G4, BA-Mini-M-CP-840 G4, BA-Mini-M-CP-865 G4, BA-Mini-M-CP-871 G4, BA-Mini-M-CP-810 G4

Temperatures & operating conditions

Product description	Temperature range in operation at Tc point	Temperature range at storage
BA-Mini-M-CP-830 G4	-25...80 °C	-25...85 °C
BA-Mini-M-CP-840 G4	-25...80 °C	-25...85 °C
BA-Mini-M-CP-865 G4	-25...80 °C	-25...85 °C
BA-Mini-M-CP-871 G4	-25...80 °C	-25...85 °C
BA-Mini-M-CP-810 G4	-25...80 °C	-25...85 °C

Lifespan

Product description	Lifespan
BA-Mini-M-CP-830 G4	50000 h ¹⁾
BA-Mini-M-CP-840 G4	50000 h ¹⁾
BA-Mini-M-CP-865 G4	50000 h ¹⁾
BA-Mini-M-CP-871 G4	50000 h ¹⁾
BA-Mini-M-CP-810 G4	50000 h ¹⁾

¹⁾ L70/B50 at Tc 80 °C

Capabilities

Product description	Dimmable	Dimming range
BA-Mini-M-CP-830 G4	Yes	1...100 %
BA-Mini-M-CP-840 G4	Yes	1...100 %
BA-Mini-M-CP-865 G4	Yes	1...100 %
BA-Mini-M-CP-871 G4	Yes	1...100 %
BA-Mini-M-CP-810 G4	Yes	1...100 %

Product family datasheet

Certificates & standards

Product description	Energy consumption	Type of protection	Standards
BA-Mini-M-CP-830 G4	29 kWh/1000h	IP66	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60529/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471
BA-Mini-M-CP-840 G4	29 kWh/1000h	IP66	Acc. to EN 55015/Acc. to EN 60529/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471
BA-Mini-M-CP-865 G4	29 kWh/1000h	IP66	Acc. to EN 55015/Acc. to EN 60529/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471
BA-Mini-M-CP-871 G4	29 kWh/1000h	IP66	Acc. to EN 55015/Acc. to EN 60529/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471
BA-Mini-M-CP-810 G4	29 kWh/1000h	IP66	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60529/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 62471

Logistical data

Product description	Commodity code
BA-Mini-M-CP-830 G4	853951000000
BA-Mini-M-CP-840 G4	853951000000
BA-Mini-M-CP-865 G4	853951000000
BA-Mini-M-CP-871 G4	853951000000
BA-Mini-M-CP-810 G4	853951000000

Product family datasheet

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
BA-Mini-M-CP-830 G4	09-08-2023	4062172145695	No declarable substances contained
BA-Mini-M-CP-840 G4	09-08-2023	4062172145718	No declarable substances contained
BA-Mini-M-CP-865 G4	09-08-2023	4062172145763	No declarable substances contained
BA-Mini-M-CP-871 G4	09-08-2023	4062172145787	No declarable substances contained
BA-Mini-M-CP-810 G4	09-08-2023	4062172145800	No declarable substances contained

Product description	Declaration No. in SCIP database
BA-Mini-M-CP-830 G4	No declarable substances contained
BA-Mini-M-CP-840 G4	No declarable substances contained
BA-Mini-M-CP-865 G4	No declarable substances contained
BA-Mini-M-CP-871 G4	No declarable substances contained
BA-Mini-M-CP-810 G4	No declarable substances contained

Application advice

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

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction BackLED Mini M CP G4 User Instructions
	Brochures Technical application guide BackLED and BoxLED portfolio (EN)
	Declarations of conformity CE BA-MINI-S&M-CP-8xx-G4 BA-L-CX-8xx-G4

Product family datasheet

Ecodesign regulation information:

- 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
4062172145695	BA-Mini-M-CP-830 G4	Shipping carton box 40	350 mm x 250 mm x 230 mm	20.13 dm ³	4820.00 g
4062172145718	BA-Mini-M-CP-840 G4	Shipping carton box 40	350 mm x 250 mm x 230 mm	20.13 dm ³	4820.00 g
4062172145763	BA-Mini-M-CP-865 G4	Shipping carton box 40	350 mm x 250 mm x 230 mm	20.13 dm ³	4820.00 g
4062172145787	BA-Mini-M-CP-871 G4	Shipping carton box 40	350 mm x 250 mm x 230 mm	20.13 dm ³	4820.00 g
4062172145800	BA-Mini-M-CP-810 G4	Shipping carton box 40	350 mm x 250 mm x 230 mm	20.13 dm ³	4820.00 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.

Disclaimer

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

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