

BackLED L CP G5

LED modules for light advertising and backlighting



Product family features

- Each LED module contains 2 LEDs
- Compatible with OSRAM OPTOTRONIC constant voltage drivers / dimmers
- Color consistency in 3 SDCM
- Patented Square Lens technology
- Wide CCT and color options available
- IP66 rating
- Lifetime (L80/B10): 50,000 h (temperature at $T_c = 75^\circ\text{C}$)

Product family benefits

- Energy saving with high efficacy
- Backside injection technology for high protection level
- Flammability rating at V0

Areas of application

- Channel letters
- Signage boxes
- Luminous areas and ceilings



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-CP-810-24 -G5 ¹⁾	24.0 V	43.20 W	1.2 W	24 V	23.4...24.9 V	DC
BA-L-CP-880-24 -G5 ¹⁾	24.0 V	43.20 W	1.2 W	24 V	23.4...24.9 V	DC
BA-L-CP-871-24 -G5 ¹⁾	24.0 V	43.20 W	1.2 W	24 V	23.4...24.9 V	DC
BA-L-CP-865-24 -G5 ¹⁾	24.0 V	43.20 W	1.2 W	24 V	23.4...24.9 V	DC
BA-L-CP-840-24 -G5 ¹⁾	24.0 V	43.20 W	1.2 W	24 V	23.4...24.9 V	DC
BA-L-CP-830-24 -G5 ¹⁾	24.0 V	43.20 W	1.2 W	24 V	23.4...24.9 V	DC

¹⁾ See product remark

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color LED	Luminous flux per module chain	Luminous flux per LED module	Luminous efficacy	Standard deviation of color matching
BA-L-CP-810-24 -G5 ¹⁾	10000 K	>80	Cold white	5400 lm	150 lm	125 lm/W	≤3 sdc
BA-L-CP-880-24 -G5 ¹⁾	8000 K	>80	Cold white	5400 lm	150 lm	125 lm/W	≤3 sdc
BA-L-CP-871-24 -G5 ¹⁾	7100 K	>80	Cold white	5760 lm	160 lm	133 lm/W	≤3 sdc
BA-L-CP-865-24 -G5 ¹⁾	6500 K	>80	Cold white	5760 lm	160 lm	133 lm/W	≤3 sdc
BA-L-CP-840-24 -G5 ¹⁾	4000 K	>80	Neutral white	5760 lm	160 lm	133 lm/W	≤3 sdc
BA-L-CP-830-24 -G5 ¹⁾	3000 K	>80	Warm white		153 lm	128 lm/W	≤3 sdc

¹⁾ See product remark

Light technical data

Product description	Beam angle
BA-L-CP-810-24 -G5 ¹⁾	155 °
BA-L-CP-880-24 -G5 ¹⁾	155 °
BA-L-CP-871-24 -G5 ¹⁾	155 °
BA-L-CP-865-24 -G5 ¹⁾	155 °
BA-L-CP-840-24 -G5 ¹⁾	155 °
BA-L-CP-830-24 -G5 ¹⁾	155 °

¹⁾ See product remark

LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BA-L-CP-810-24 -G5 ¹⁾	2	36	1
BA-L-CP-880-24 -G5 ¹⁾	2	36	1
BA-L-CP-871-24 -G5 ¹⁾	2	36	1
BA-L-CP-865-24 -G5 ¹⁾	2	36	1
BA-L-CP-840-24 -G5 ¹⁾	2	36	1
BA-L-CP-830-24 -G5 ¹⁾	2	36	1

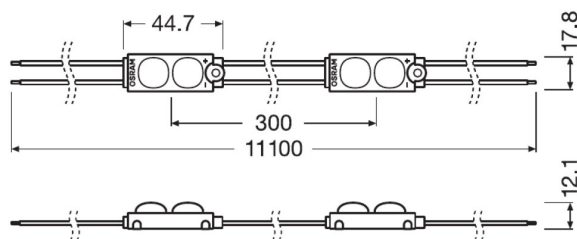
¹⁾ See product remark

Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-L-CP-810-24 -G5 ¹⁾	11100 mm	17.8 mm	12.1 mm	468.00 g
BA-L-CP-880-24 -G5 ¹⁾	11100 mm	17.8 mm	12.1 mm	468.00 g
BA-L-CP-871-24 -G5 ¹⁾	11100 mm	17.8 mm	12.1 mm	468.00 g
BA-L-CP-865-24 -G5 ¹⁾	11100 mm	17.8 mm	12.1 mm	468.00 g
BA-L-CP-840-24 -G5 ¹⁾	11100 mm	17.8 mm	12.1 mm	468.00 g
BA-L-CP-830-24 -G5 ¹⁾	11100 mm	17.8 mm	12.1 mm	468.00 g

¹⁾ See product remark

Product line drawing



BA-L-CP-810-24 -G5, BA-L-CP-880-24 -G5, BA-L-CP-871-24 -G5, BA-L-CP-865-24 -G5, BA-L-CP-840-24 -G5, BA-L-CP-830-24 -G5

Temperatures & operating conditions

Product description	Temperature range in operation at Tc point	Temperature range at storage
BA-L-CP-810-24 -G5 ¹⁾	-25...75 °C	-25...85 °C
BA-L-CP-880-24 -G5 ¹⁾	-25...75 °C	-25...85 °C
BA-L-CP-871-24 -G5 ¹⁾	-25...75 °C	-25...85 °C
BA-L-CP-865-24 -G5 ¹⁾	-25...75 °C	-25...85 °C
BA-L-CP-840-24 -G5 ¹⁾	-25...75 °C	-25...85 °C
BA-L-CP-830-24 -G5 ¹⁾	-25...75 °C	-25...85 °C

¹⁾ See product remark

Lifespan

Product description	Lifespan
BA-L-CP-810-24 -G5 ¹⁾	50000 h ²⁾
BA-L-CP-880-24 -G5 ¹⁾	50000 h ²⁾
BA-L-CP-871-24 -G5 ¹⁾	50000 h ²⁾
BA-L-CP-865-24 -G5 ¹⁾	50000 h ²⁾
BA-L-CP-840-24 -G5 ¹⁾	50000 h ²⁾
BA-L-CP-830-24 -G5 ¹⁾	50000 h ²⁾

¹⁾ See product remark

²⁾ L80/B10 at Tc 75°C

Additional product data

Product description	Predecessor EAN
BA-L-CP-810-24 -G5 ¹⁾	
BA-L-CP-880-24 -G5 ¹⁾	
BA-L-CP-871-24 -G5 ¹⁾	
BA-L-CP-865-24 -G5 ¹⁾	4052899990425
BA-L-CP-840-24 -G5 ¹⁾	4052899990449
BA-L-CP-830-24 -G5 ¹⁾	4052899990463

¹⁾ See product remark

Capabilities

Product description	Dimmable	Dimming range
BA-L-CP-810-24 -G5 ¹⁾	Yes	1...100 %
BA-L-CP-880-24 -G5 ¹⁾	Yes	1...100 %
BA-L-CP-871-24 -G5 ¹⁾	Yes	1...100 %
BA-L-CP-865-24 -G5 ¹⁾	Yes	1...100 %
BA-L-CP-840-24 -G5 ¹⁾	Yes	1...100 %
BA-L-CP-830-24 -G5 ¹⁾	Yes	1...100 %

¹⁾ See product remark

Certificates & standards

Product description	Energy consumption	Type of protection	Standards
BA-L-CP-810-24 -G5 ¹⁾	44 kWh/1000h	IP66	Acc. to EN 62471:2008/Acc. to IEC 62031/ENEC/CE/UL
BA-L-CP-880-24 -G5 ¹⁾	44 kWh/1000h	IP66	Acc. to EN 62471:2008/Acc. to IEC 62031/ENEC/CE/UL
BA-L-CP-871-24 -G5 ¹⁾	44 kWh/1000h	IP66	Acc. to EN 62471:2008/Acc. to IEC 62031/ENEC/CE/UL
BA-L-CP-865-24 -G5 ¹⁾	44 kWh/1000h	IP66	Acc. to EN 62471:2008/Acc. to IEC 62031/ENEC/CE/UL
BA-L-CP-840-24 -G5 ¹⁾	44 kWh/1000h	IP66	Acc. to EN 62471:2008/Acc. to IEC 62031/ENEC/CE/UL
BA-L-CP-830-24 -G5 ¹⁾	44 kWh/1000h	IP66	Acc. to EN 62471:2008/Acc. to IEC 62031/ENEC/CE/UL

¹⁾ See product remark

Logistical data

Product description	Commodity code
BA-L-CP-810-24 -G5 ¹⁾	85395100000
BA-L-CP-880-24 -G5 ¹⁾	85395100000
BA-L-CP-871-24 -G5 ¹⁾	85395100000
BA-L-CP-865-24 -G5 ¹⁾	85395100000
BA-L-CP-840-24 -G5 ¹⁾	85395100000
BA-L-CP-830-24 -G5 ¹⁾	85395100000

¹⁾ See product remark

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-L-CP-810-24 -G5 ¹⁾	31-03-2023	4052899627390	No declarable substances contained
BA-L-CP-880-24 -G5 ¹⁾	31-03-2023	4052899627406	No declarable substances contained
BA-L-CP-871-24 -G5 ¹⁾	31-03-2023	4052899627413	No declarable substances contained
BA-L-CP-865-24 -G5 ¹⁾	31-03-2023	4052899627420	No declarable substances contained
BA-L-CP-840-24 -G5 ¹⁾	31-03-2023	4052899627437	No declarable substances contained
BA-L-CP-830-24 -G5 ¹⁾	31-03-2023	4052899627444	No declarable substances contained

Product description	Declaration No. in SCIP database
BA-L-CP-810-24 -G5 ¹⁾	No declarable substances contained
BA-L-CP-880-24 -G5 ¹⁾	No declarable substances contained
BA-L-CP-871-24 -G5 ¹⁾	No declarable substances contained
BA-L-CP-865-24 -G5 ¹⁾	No declarable substances contained
BA-L-CP-840-24 -G5 ¹⁾	No declarable substances contained
BA-L-CP-830-24 -G5 ¹⁾	No declarable substances contained

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)./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.

Product family datasheet

Additional product information

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
 - Installation by qualified electrician only.
 - Please see the relevant application guides and instructions sheets for more detailed safety and mounting information.
- Additional information is available on request.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction BackLED CP G5 User Instruction 20210730
	Product Datasheet product datasheet BackLED L CP 24V G5
	Brochures Technical application guide BackLED and BoxLED portfolio (EN)
	Certificates ENEC of BackLED CP G5
	Certificates UL certificate of Compliance BackLED CP G5
	CAD data 3-dim 3D drawing of BackLED CP 24V G5 L
	IES data IES file of BA L CP 810 24 G5
	IES data IES file of BA L CP 880 24 G5
	IES data IES file of BA L CP 871 24 G5
	IES data IES file of BA L CP 865 24 G5
	IES data IES file of BA L CP 840 24 G5
	IES data IES file BA L CP 830 24 G5

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. In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.
- 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
4052899627390	BA-L-CP-810-24 -G5	Shipping carton box 15	355 mm x 255 mm x 240 mm	21.73 dm ³	7685.00 g
4052899627406	BA-L-CP-880-24 -G5	Shipping carton box 15	355 mm x 255 mm x 240 mm	21.73 dm ³	7685.00 g
4052899627413	BA-L-CP-871-24 -G5	Shipping carton box 15	355 mm x 255 mm x 240 mm	21.73 dm ³	7685.00 g
4052899627420	BA-L-CP-865-24 -G5	Shipping carton box 15	355 mm x 255 mm x 240 mm	21.73 dm ³	7685.00 g
4052899627437	BA-L-CP-840-24 -G5	Shipping carton box 15	355 mm x 255 mm x 240 mm	21.73 dm ³	7685.00 g
4052899627444	BA-L-CP-830-24 -G5	Shipping carton box 15	355 mm x 255 mm x 240 mm	21.73 dm ³	7685.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
BA-L-CP-810-24 -G5	BA -MP-L-G5-2M	▶ 4052899629189
BA-L-CP-810-24 -G5	BA -CLIP-L-G5	▶ 4052899629325

Product family datasheet

BA-L-CP-880-24 -G5	BA -MP-L-G5-2M	▶ 4052899629189
BA-L-CP-880-24 -G5	BA -CLIP-L-G5	▶ 4052899629325
BA-L-CP-871-24 -G5	BA -MP-L-G5-2M	▶ 4052899629189
BA-L-CP-871-24 -G5	BA -CLIP-L-G5	▶ 4052899629325
BA-L-CP-865-24 -G5	BA -MP-L-G5-2M	▶ 4052899629189
BA-L-CP-865-24 -G5	BA -CLIP-L-G5	▶ 4052899629325
BA-L-CP-840-24 -G5	BA -MP-L-G5-2M	▶ 4052899629189
BA-L-CP-840-24 -G5	BA -CLIP-L-G5	▶ 4052899629325
BA-L-CP-830-24 -G5	BA -MP-L-G5-2M	▶ 4052899629189
BA-L-CP-830-24 -G5	BA -CLIP-L-G5	▶ 4052899629325

Disclaimer

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