

## BackLED M HO CP G5

LED modules for light advertising and backlighting



### Product family features

- LED chain comprising 40 LED modules connected by flexible cables
- Each LED module contains 2 LEDs
- LED module pitch variable between 60 and ~ 200 mm
- 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 (L70/B50): 50,000 h (temperature at  $T_c = 70\text{ }^\circ\text{C}$ )
- 5-year warranty @  $T_a = 70\text{ }^\circ\text{C}$

### Product family benefits

- High module efficacy: up to 135 lm/W
- Uniform light pattern design for 60-200 mm lightbox depth
- Backside injection technology for high protection level

### 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-M-HO-CP-810-24 -G5 <sup>1)</sup>	24.0 V	40.00 W	1 W	25 V	23.4...24.9 V	DC
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	24.0 V	40.00 W	1 W	25 V	23.4...24.9 V	DC
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	24.0 V	40.00 W	1 W	25 V	23.4...24.9 V	DC
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	24.0 V	40.00 W	1 W	25 V	23.4...24.9 V	DC
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	24.0 V	40.00 W	1 W	25 V	23.4...24.9 V	DC
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	24.0 V	40.00 W	1 W	25 V	23.4...24.9 V	DC

<sup>1)</sup> 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-M-HO-CP-810-24 -G5 <sup>1)</sup>	10000 K	80	Cool white	4960 lm	124 lm	124 lm/W	≤3 sdc
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	8000 K	80	Cool white	5160 lm	129 lm	129 lm/W	≤3 sdc
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	7100 K	80	Cool white	5320 lm	133 lm	133 lm/W	≤3 sdc
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	6500 K	80	Cool white	5400 lm	135 lm	135 lm/W	≤3 sdc
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	4000 K	80	Neutral white	5160 lm	129 lm	129 lm/W	≤3 sdc
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	3000 K	80	Warm white	4960 lm	124 lm	124 lm/W	≤3 sdc

<sup>1)</sup> See product remark

### Light technical data

Product description	Beam angle
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	155 °
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	155 °
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	155 °
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	155 °
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	155 °
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	155 °

<sup>1)</sup> See product remark

## 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-M-HO-CP-810-24 -G5 <sup>1)</sup>	2	40	1
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	2	40	1
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	2	40	1
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	2	40	1
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	2	40	1
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	2	40	1

<sup>1)</sup> See product remark

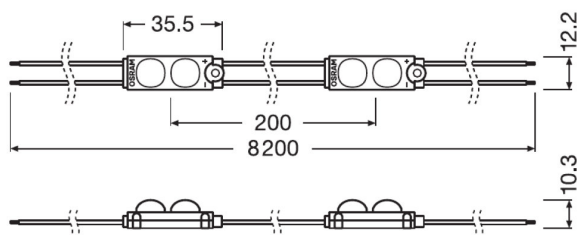
### Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	8200 mm	12.2 mm	10.3 mm	225.00 g
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	8200 mm	12.2 mm	10.3 mm	225.00 g
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	8200 mm	12.2 mm	10.3 mm	225.00 g
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	8200 mm	12.2 mm	10.3 mm	225.00 g
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	8200 mm	12.2 mm	10.3 mm	225.00 g
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	8200 mm	12.2 mm	10.3 mm	225.00 g

<sup>1)</sup> See product remark

## Product family datasheet

### Product line drawing



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

### Temperatures & operating conditions

Product description	Temperature range in operation at Tc point	Temperature range at storage
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	-25...70 °C	-25...85 °C
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	-25...70 °C	-25...85 °C
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	-25...70 °C	-25...85 °C
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	-25...70 °C	-25...85 °C
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	-25...70 °C	-25...85 °C
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	-25...70 °C	-25...85 °C

<sup>1)</sup> See product remark

## Product family datasheet

### Lifespan

Product description	Lifespan
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	50000 h
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	50000 h
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	50000 h
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	50000 h
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	50000 h
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	50000 h

<sup>1)</sup> See product remark

### Additional product data

Product description	ID of contained light source
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	LS_SHZ_600819
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	LS_SHZ_600829
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	LS_SHZ_600827
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	LS_SHZ_600825
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	LS_SHZ_600823
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	LS_SHZ_600821

<sup>1)</sup> See product remark

### Capabilities

Product description	Dimmable	Dimming range
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	Yes	1...100 %
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	Yes	1...100 %
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	Yes	1...100 %
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	Yes	1...100 %
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	Yes	1...100 %
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	Yes	1...100 %

<sup>1)</sup> See product remark

## Product family datasheet

### Certificates & standards

Product description	Energy consumption	Type of protection	Standards
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	40 kWh/1000h	IP66	IEC/TR 62778/IEC/EN 61347-1/IEC/EN 60529/IEC/EN 62031/IEC/EN 60598-1/IEC/EN 61547/IEC TR 62778
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	40 kWh/1000h	IP66	IEC/EN 60529/IEC/EN 60598-1/IEC/EN 61347-1/IEC/EN 61547/IEC/EN 62031/IEC/TR 62778/IEC TR 62778
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	40 kWh/1000h	IP66	IEC/EN 60529/IEC/EN 60598-1/IEC/EN 61347-1/IEC/EN 61547/IEC/EN 62031/IEC/TR 62778/IEC TR 62778
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	40 kWh/1000h	IP66	IEC/EN 60529/IEC/EN 60598-1/IEC/EN 61347-1/IEC/EN 61547/IEC/EN 62031/IEC/TR 62778/IEC TR 62778
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	40 kWh/1000h	IP66	IEC/EN 60529/IEC/EN 60598-1/IEC/EN 61347-1/IEC/EN 61547/IEC/EN 62031/IEC/TR 62778/IEC TR 62778
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	40 kWh/1000h	IP66	IEC/EN 60529/IEC/EN 60598-1/IEC/EN 61347-1/IEC/EN 61547/IEC/EN 62031/IEC/TR 62778/IEC TR 62778

<sup>1)</sup> See product remark

### Logistical data

Product description	Commodity code
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	853951000000
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	853951000000
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	853951000000
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	853951000000
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	853951000000
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	853951000000

<sup>1)</sup> See product remark

## 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-M-HO-CP-810-24 -G5 <sup>1)</sup>	23-05-2022	4052899627550	No declarable substances contained
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	23-05-2022	4052899627567	No declarable substances contained
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	23-05-2022	4052899627574	No declarable substances contained
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	23-05-2022	4052899627581	No declarable substances contained
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	23-05-2022	4052899627598	No declarable substances contained
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	23-05-2022	4052899627604	No declarable substances contained

Product description	Declaration No. in SCIP database
BA-M-HO-CP-810-24 -G5 <sup>1)</sup>	No declarable substances contained
BA-M-HO-CP-880-24 -G5 <sup>1)</sup>	No declarable substances contained
BA-M-HO-CP-871-24 -G5 <sup>1)</sup>	No declarable substances contained
BA-M-HO-CP-865-24 -G5 <sup>1)</sup>	No declarable substances contained
BA-M-HO-CP-840-24 -G5 <sup>1)</sup>	No declarable substances contained
BA-M-HO-CP-830-24 -G5 <sup>1)</sup>	No declarable substances contained

<sup>1)</sup> 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](http://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](http://www.osram.com)

### Download Data

File	
	User instruction BackLED CP G5 User Instruction 20210730
	Product Datasheet product datasheet BackLED M-HO 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 MHOHFS
	IES data IES file of BA M HO CP 810 24 G5
	IES data IES file of BA M HO CP 880 24 G5
	IES data IES file of BA M HO CP 871 24 G5
	IES data IES file of BA M HO CP 865 24 G5
	IES data IES file of BA M HO CP 840 24 G5
	IES data IES file of BA M HO CP 830 24 G5

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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## Product family datasheet

### Logistical Data

4052899627550	BA-M-HO-CP-810-24 -G5	Shipping carton box 30	355 mm x 255 mm x 240 mm	21.73 dm <sup>3</sup>	7490.00 g
4052899627567	BA-M-HO-CP-880-24 -G5	Shipping carton box 30	355 mm x 255 mm x 240 mm	21.73 dm <sup>3</sup>	7490.00 g
4052899627574	BA-M-HO-CP-871-24 -G5	Shipping carton box 30	355 mm x 255 mm x 240 mm	21.73 dm <sup>3</sup>	7490.00 g
4052899627581	BA-M-HO-CP-865-24 -G5	Shipping carton box 30	355 mm x 255 mm x 240 mm	21.73 dm <sup>3</sup>	7490.00 g
4052899627598	BA-M-HO-CP-840-24 -G5	Shipping carton box 30	355 mm x 255 mm x 240 mm	21.73 dm <sup>3</sup>	7490.00 g
4052899627604	BA-M-HO-CP-830-24 -G5	Shipping carton box 30	355 mm x 255 mm x 240 mm	21.73 dm <sup>3</sup>	7490.00 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-M-HO-CP-810-24 -G5	BA -MP-SM-G5-2M	▶ 4052899629196
BA-M-HO-CP-810-24 -G5	BA -CLIP-SM-G5	▶ 4052899629349
BA-M-HO-CP-880-24 -G5	BA -MP-SM-G5-2M	▶ 4052899629196
BA-M-HO-CP-880-24 -G5	BA -CLIP-SM-G5	▶ 4052899629349
BA-M-HO-CP-871-24 -G5	BA -MP-SM-G5-2M	▶ 4052899629196
BA-M-HO-CP-871-24 -G5	BA -CLIP-SM-G5	▶ 4052899629349
BA-M-HO-CP-865-24 -G5	BA -MP-SM-G5-2M	▶ 4052899629196
BA-M-HO-CP-865-24 -G5	BA -CLIP-SM-G5	▶ 4052899629349
BA-M-HO-CP-840-24 -G5	BA -MP-SM-G5-2M	▶ 4052899629196
BA-M-HO-CP-840-24 -G5	BA -CLIP-SM-G5	▶ 4052899629349
BA-M-HO-CP-830-24 -G5	BA -MP-SM-G5-2M	▶ 4052899629196
BA-M-HO-CP-830-24 -G5	BA -CLIP-SM-G5	▶ 4052899629349

### Disclaimer

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