

## BackLED ECO M G2

LED modules for light advertising and backlighting



### Product family features

- Color consistency in 3 SDCM (3000 K - 6500 K), 5 SDCM (8000 K)
- Available in 3000 K, 4000 K, 5700 K, 6500 K, 8000 K, RED, Blue
- Min CRI 80

### Product family benefits

- Over-molding technology for optimal protection on LED and PCB
- Double-sided tape for pre-mounting
- IP64

### Areas of application

- Single-sided light boxes
- Channel letters



## Product family datasheet

### Technical data

Product description	Electrical data						Photometrical data
	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current	Color temperature
BA-ECO-M-880 G2	12.0 V	13.50 W	0.67 W	13 V	12...13 V	DC	8000 K
BA-ECO-M-865 G2	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC	6500 K
BA-ECO-M-857 G2	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC	5700 K
BA-ECO-M-840 G2	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC	4000 K
BA-ECO-M-830 G2	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC	3000 K
BA-ECO-M-BLUE G2	12.0 V	12.00 W	0.6 W	13 V	12...13 V	DC	457 nm K
BA-ECO-M-RED-G2	12.0 V	12.00 W	0.6 W	13 V	12...13 V	DC	622 nm K

Product description	Light technical data						Beam angle
	Color rendering index Ra	Light color (designation)	Light color LED	Luminous flux per module chain	Luminous flux per LED module	Luminous efficacy	
BA-ECO-M-880 G2	80	Cold White	White	1600 lm	76 lm	105.6 lm/W <sup>1)</sup>	120 °
BA-ECO-M-865 G2	80	Cool White	White	1600 lm	76 lm	105.6 lm/W <sup>1)</sup>	120 °
BA-ECO-M-857 G2	80	Neutral White	White	1600 lm	76 lm	105.6 lm/W <sup>1)</sup>	120 °
BA-ECO-M-840 G2	80	Neutral White	White	1600 lm	76 lm	105.6 lm/W <sup>1)</sup>	120 °
BA-ECO-M-830 G2	80	Warm White	White	1520 lm	73 lm	101.4 lm/W <sup>1)</sup>	120 °
BA-ECO-M-BLUE G2	-	Blue	Blue	230 lm	9.5 lm	15.8 lm/W <sup>1)</sup>	120 °
BA-ECO-M-RED-G2	-	Red	Red	470 lm	21 lm	35 lm/W <sup>1)</sup>	120 °

Product description	LED module information			Dimensions & weight		
	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules	Length	Width	Height
BA-ECO-M-880 G2	3	20	1	46.0 mm	12.5 mm	5.80 mm
BA-ECO-M-865 G2	3	20	1	46.0 mm	12.5 mm	5.80 mm
BA-ECO-M-857 G2	3	20	1	46.0 mm	12.5 mm	5.80 mm
BA-ECO-M-840 G2	3	20	1	46.0 mm	12.5 mm	5.80 mm
BA-ECO-M-830 G2	3	20	1	46.0 mm	12.5 mm	5.80 mm
BA-ECO-M-BLUE G2	3	20	1	46.0 mm	12.5 mm	5.80 mm
BA-ECO-M-RED-G2	3	20	1	4173 mm	12.5 mm	6.30 mm

## Product family datasheet

Product description	Product weight	Temperatures & operating conditions		Lifespan	Capabilities	Certificates & standards
		Temperature range in operation at Tc point	Temperature range at storage	Lifespan	Dimming range	Energy consumption
BA-ECO-M-880 G2	148.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	30000 h <sub>3)</sub>	1...100 %	14 kWh/1000h
BA-ECO-M-865 G2	148.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	30000 h <sub>3)</sub>	1...100 %	15 kWh/1000h
BA-ECO-M-857 G2	148.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	30000 h <sub>3)</sub>	1...100 %	15 kWh/1000h
BA-ECO-M-840 G2	148.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	30000 h <sub>3)</sub>	1...100 %	15 kWh/1000h
BA-ECO-M-830 G2	148.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	30000 h <sub>3)</sub>	1...100 %	15 kWh/1000h
BA-ECO-M-BLUE G2	148.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	30000 h <sub>3)</sub>	1...100 %	12 kWh/1000h
BA-ECO-M-RED-G2	6.50 g	-20...60 °C <sup>2)</sup>	-30...85 °C	20000 h <sub>3)</sub>	1...100 %	12 kWh/1000h

Product description	Type of protection	Standards	Logistical data	Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
			Commodity code	Date of Declaration
BA-ECO-M-880 G2	IP64	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 61347-1/Acc. to IEC 62471/IEC TR 62778	888888888888	18-04-2022
BA-ECO-M-865 G2	IP64	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 61347-1/Acc. to IEC 62471/IEC TR 62778	888888888888	18-04-2022
BA-ECO-M-857 G2	IP64	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 61347-1/Acc. to IEC 62471/IEC TR 62778	888888888888	18-04-2022
BA-ECO-M-840 G2	IP64	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 61347-1/Acc. to IEC 62471/IEC TR 62778	888888888888	18-04-2022

## Product family datasheet

Product description	Type of protection	Standards	Logistical data	Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
			Commodity code	Date of Declaration
BA-ECO-M-830 G2	IP64	Acc. to IEC 62471/Acc. to IEC 61347-1/Acc. to IEC 60598-1/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/IEC TR 62778	888888888888	18-04-2022
BA-ECO-M-BLUE G2	IP64	Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to IEC 61347-1/Acc. to IEC 62471/IEC TR 62778	888888888888	18-04-2022
BA-ECO-M -RED-G2	IP64	Acc. to IEC 62471/Acc. to IEC 61347-1/Acc. to EN 62031/Acc. to IEC 60598-1/Acc. to EN 55015/Acc. to EN 61547	888888888888	18-04-2022

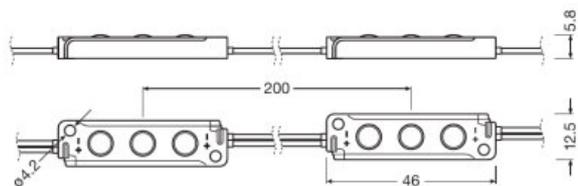
Product description	Primary Article Identifier	Declaration No. in SCIP database
BA-ECO-M-880 G2	4062172121514	In work
BA-ECO-M-865 G2	4062172121637	In work
BA-ECO-M-857 G2	4062172121972	In work
BA-ECO-M-840 G2	4062172121798	In work
BA-ECO-M-830 G2	4062172121873	In work
BA-ECO-M-BLUE G2	4062172121958	In work
BA-ECO-M -RED-G2	4052899333765	In work

1) At  $T_a = 25\text{ °C}$

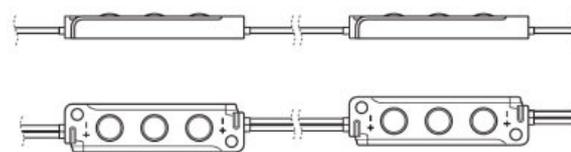
2) At the  $T_c$  point

3) L70/B50 at  $T_c = 60\text{ °C}$

## Product family datasheet



BackLED Eco M G1



BackLED Eco M G1

### Application advice

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

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

File	
	User instruction BackLED Eco M C4C G1

## 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
4062172121514	BA-ECO-M-880 G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	13116.00 g
4062172121637	BA-ECO-M-865 G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	13116.00 g
4062172121972	BA-ECO-M-857 G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	13116.00 g
4062172121798	BA-ECO-M-840 G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	13116.00 g
4062172121873	BA-ECO-M-830 G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	13116.00 g
4062172121958	BA-ECO-M-BLUE G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	13116.00 g
4052899333765	BA-ECO-M-RED-G2	Shipping carton box 80	469 mm x 282 mm x 303 mm	40.07 dm <sup>3</sup>	1756.00 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.