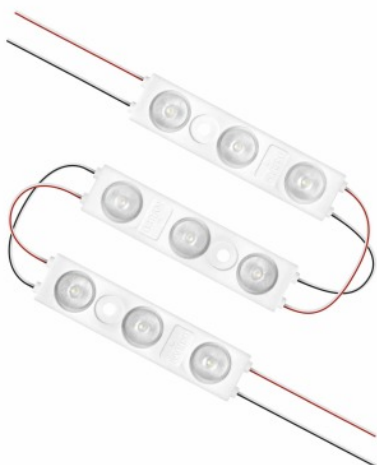


BackLED L Plus G15

LED modules for light advertising and backlighting



Areas of application

- Signage and illuminated advertising
- Backlighting of single and double-sided light boxes (backlighting)
- Permanent outdoor use in enclosed light boxes
- Decorative applications

Product benefits

- Uniform illumination at high LED pitches thanks to Flat Ray technology
- Click and Play: quick and easy click-in of the LED modules, no tools needed
- Excellent module efficacy
- Very long lifetime
- 5 year guarantee

Product features

- Connected with flexible cables
- Type of protection (modules): IP66
- Color rendering index R_a : > 80
- Special robust encapsulation
- CE marked and UL listed



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Nominal wattage	Nominal wattage per LED module	Reverse Voltage	Input voltage range
BA-L-PL -865	12.0 V	50.0 W	1.56 W	13 V	12...13 V
BA-L-PL -840	12.0 V	50.0 W	1.56 W	13 V	12...13 V
BA-L-PL -830	12.0 V	50.0 W	1.56 W	13 V	12...13 V

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
BA-L-PL -865	6500 K	>70	Cold White	White	4800 lm	150 lm
BA-L-PL -840	4000 K	>80	Daylight	White	4680 lm	145 lm
BA-L-PL -830	3000 K	>80	Warm White	White	4350 lm	135 lm

Product description	Luminous efficacy	Standard deviation of color matching
BA-L-PL -865	94 lm/W	≤3 sdcn
BA-L-PL -840	90 lm/W	≤3 sdcn
BA-L-PL -830	84 lm/W	≤3 sdcn

Light technical data

Product description	Beam angle
BA-L-PL -865	155 °
BA-L-PL -840	155 °
BA-L-PL -830	155 °

LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BA-L-PL -865	3	32	1
BA-L-PL -840	3	32	1
BA-L-PL -830	3	32	1

Product family datasheet

Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-L-PL -865	9600 mm ¹⁾	17.5 mm	7.4 mm	16.00 g ²⁾
BA-L-PL -840	9600 mm ¹⁾	17.5 mm	7.4 mm	16.00 g ²⁾
BA-L-PL -830	9600 mm ¹⁾	17.5 mm	7.4 mm	16.00 g ²⁾

¹⁾ Maximum LED pitch 300 mm

²⁾ Per chain

Temperatures

Product description	Temperature range in operation	Temperature range at storage
BA-L-PL -865	-25...75 °C ¹⁾	-25...85 °C
BA-L-PL -840	-25...75 °C ¹⁾	-25...85 °C
BA-L-PL -830	-25...75 °C ¹⁾	-25...85 °C

¹⁾ At the T_c point

Lifespan

Product description	Lifespan
BA-L-PL -865	50000 h ¹⁾
BA-L-PL -840	50000 h ¹⁾
BA-L-PL -830	50000 h ¹⁾

¹⁾ L70/B50 at T_c 75 °C

Capabilities

Product description	Dimmable	Dimming range
BA-L-PL -865	Yes	5...100 %
BA-L-PL -840	Yes	5...100 %
BA-L-PL -830	Yes	5...100 %

Certificates & standards

Product description	Energy consumption	Energy efficiency class	Type of protection
BA-L-PL -865	2 kWh/1000h	A+	IP66
BA-L-PL -840	2 kWh/1000h	A+	IP66
BA-L-PL -830	2 kWh/1000h	A+	IP66

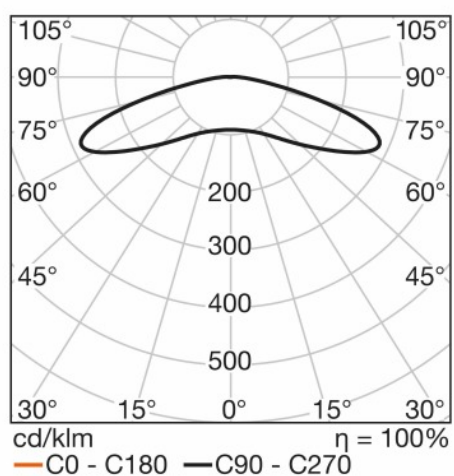
Product family datasheet

Product description	Standards
BA-L-PL -865	Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384
BA-L-PL -840	Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384
BA-L-PL -830	Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384

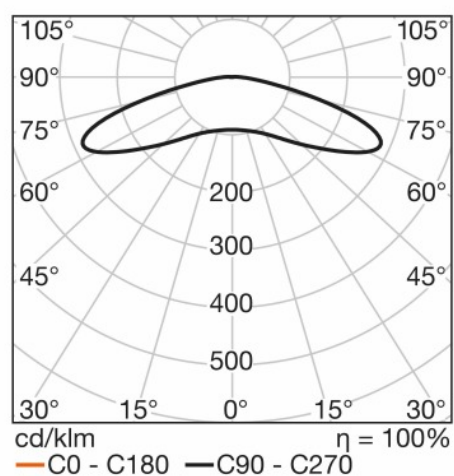
Logistical data

Product description	Temperature range at storage
BA-L-PL -865	-25...85 °C
BA-L-PL -840	-25...85 °C
BA-L-PL -830	-25...85 °C

Light Distribution

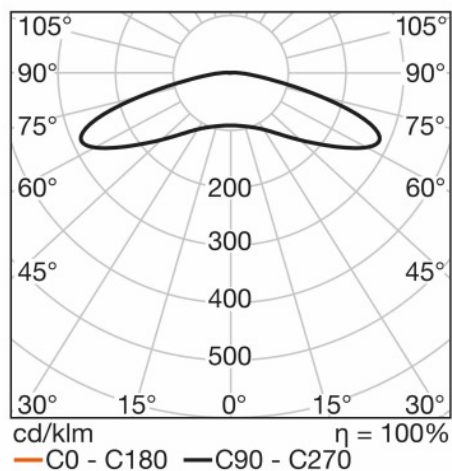


BA-L-PL -865



BA-L-PL -840

Product family datasheet



BA-L-PL -830

Equipment / Accessories

- BackLED mounting profile
- Several types of OPTOTRONIC 12 V power supplies available

Application advice

For more detailed application information and graphics please see product 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.
- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2
- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 61347-1
- Complies with IEC/EN 61347-2-13
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is strongly discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload and damage the LED module.
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- In order to operate OSRAM LED modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply that protects against short circuits, overload and overheating.
- In case other power supplies than OSRAM OPTOTRONIC are used, compliance to the necessary operating parameters (voltage, current, power) has to be ensured.










Product family datasheet

- Pay attention to polarity! Wrong polarity can cause destruction or malfunction of the module.
- Conducting paths on the circuit board must not be damaged or destroyed during installation.
- The LED module itself and all its components must not be stressed mechanically.
- Operation in or under water is prohibited.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- In case that the LED module is equipped with a pre-mounted double-sided adhesive tape, OSRAM assumes no liability and provides no guarantee for a permanent adherence of the modules to the surface. OSRAM recommends fixation of the modules by means of suitable screws.
- Complies with IEC 61347-1 cl. 18.3, cl. 18.4, IEC 60695-2-10, IEC 60695-11-5, IEC 60695-11-10 (classification V-0)
- All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values 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.
- Module contains no PVC material.
- To ensure uniform illumination, a reflective matt white surface is generally recommended for all internal frame walls and back panels of light boxes.
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC OT DIM or OPTOTRONIC 24 V power supplies with integrated 1...10 V dimming interface.
- The module may cause noises during dimming. If a dimming operation is required, it is recommended to check the dimming operation for noises before final installation.


Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	Brochures Technical application guide - IP codes in accordance with IEC 60529 (GB)
	Brochures Technical Application Guide BackLED PlusBasic G15 and BoxLED Plus G15 (GB)
	Brochures Impressive backlighting for signage and presentation (GB)
	Declarations of conformity EC-DoC BackLED L Plus G15
	Declarations of conformity Manufacturer-DoC BackLED L Plus G15
	Installation guide Installation instruction BackLED L Plus G15
	Installation guide Instruction Manual BackLED SML Plus G15
	CAD data BA03LA-W4F-8XX G15
	CAD data BA03LA-W4F-8XX G15 IGS

Product family datasheet

	CAD data PDF BackLED L Plus G15 CAD PDF
	Eulumdat BackLED L Plus 865 G15 Eulumdat
	Eulumdat BackLED L Plus 840 G15 Eulumdat
	Eulumdat BackLED L Plus 830 G15 Eulumdat

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899240872	BA-L-PL -865	Shipping carton box 5	398 mm x 284 mm x 198 mm	22.38 dm ³	3783.00 g
4052899240896	BA-L-PL -840	Shipping carton box 5	398 mm x 284 mm x 198 mm	22.38 dm ³	3783.00 g
4052899240919	BA-L-PL -830	Shipping carton box 5	398 mm x 284 mm x 198 mm	22.38 dm ³	3783.00 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.

References / Links

For Guarantee see

▶ www.osram.com/guarantee

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