

BoxLED L Plus G15

LED modules for light advertising and backlighting



Areas of application

- Permanent outdoor use in enclosed light boxes
- Signage and illuminated advertising
- Illumination of single and double-sided light boxes
- Wallwashing, cove lighting

Product benefits

- Uniform illumination thanks to optimized elliptical lenses
- 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
- CE marked



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Nominal wattage per LED module	Rated wattage	Reverse Voltage	Input voltage range	Type of current
BX-L-PL 830	12.0 V	7.5 W	60.00 W	13 V	12...13 V	DC

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Total useful luminous flux	Luminous flux per module chain
BX-L-PL 830	3000 K	≥80	Warm White	White	3717 lm	4350 lm

Product description	Nominal useful luminous flux 90°	Rated useful luminous flux 90°	Luminous efficacy	Rated peak intensity	Standard deviation of color matching
BX-L-PL 830	430 lm	430 lm	62 lm/W	1520 cd	≤4 sdc _m

Light technical data

Product description	Starting time	Warm-up time (60 %)	Nominal beam angle	Rated beam angle (half peak value)
BX-L-PL 830	0.1 s	0.10 s	15.0 x 53.5 °	15.00 ... 53.50 °

LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BX-L-PL 830	3	8	1

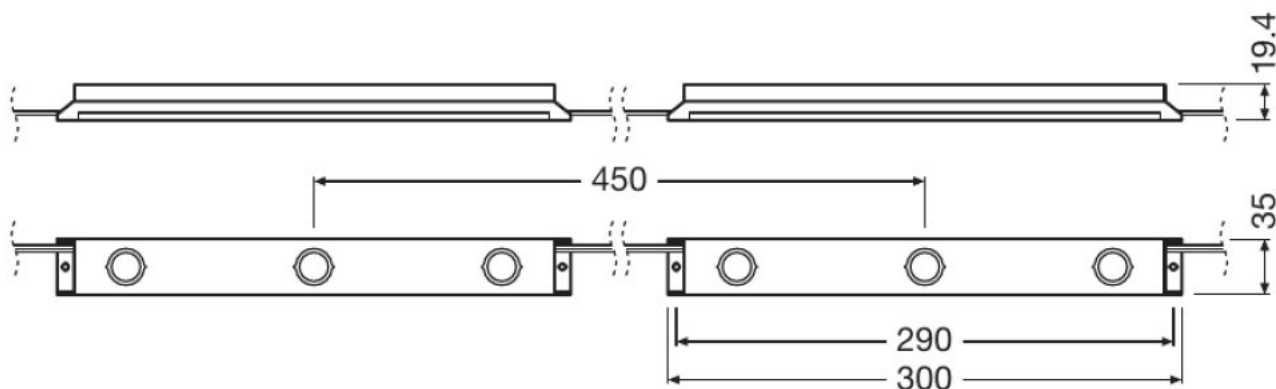
Dimensions & weight

Product description	Construction length	Rated width	Rated height	Product weight
BX-L-PL 830	3600.0 mm	35.0 mm	19.40 mm	1850.00 g ¹⁾

¹⁾ Per chain

Product family datasheet

Product line drawing



BX-L-PL 830

Temperatures & operating conditions

Product description	Temperature range in operation at T _c point
BX-L-PL 830	-25...80 °C ¹⁾

¹⁾ At the T_c point

Lifespan

Product description	Lumen main. fact. at end of nom. life time	Nominal lamp life time	Rated lamp life time	Number of switching cycles
BX-L-PL 830	0.70	50000 h ¹⁾	50000 h ¹⁾	25000

¹⁾ At T_c 80 °C

Capabilities

Product description	Dimmable	Dimming range
BX-L-PL 830	Yes	5...100 %

Product family datasheet

Certificates & standards

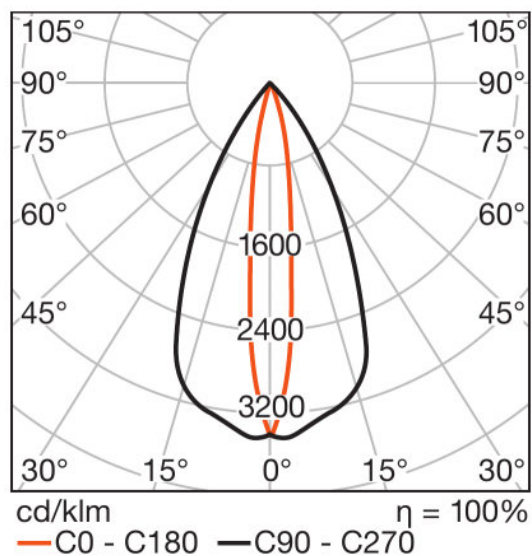
Product description	Energy consumption	Energy efficiency class	Type of protection
BX-L-PL 830	9 kWh/1000h	A	IP66

Product description	Standards
BX-L-PL 830	Acc. to IEC 62471-2/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547

Logistical data

Product description	Temperature range at storage
BX-L-PL 830	-25...85 °C

Light Distribution



BX-L-PL 830

Equipment / Accessories

- Several types of OPTOTRONIC 12 V power supplies available
- BoxLED mounting profile BX-MP

Product family datasheet

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
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC OT DIM, OT DALI DIM or OPTOTRONIC 24 V power supplies with integrated 1...10 V dimming interface.
- 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.
- 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)
- To ensure uniform illumination, a reflective matt white surface is generally recommended for all internal frame walls and back panels of light boxes.
- The insulation is designed for working voltage of 50 VDC.
- SELV or SELV-equivalent output control gear recommended.
- Optimal homogeneous backlighting through sidelighting for installation depth (distance between backplane of light box and surface) of 120 mm.
- Module contains no PVC material.
- 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

Product family datasheet

Download Data

File	
	Certificates 539633_CE declaration BoxLED L PlusG15
	Certificates 539634_Manufacturer declaration BoxLED L Plus G15
	Declarations of conformity 547364_EC-DoC BackLED L Plus G15
	Installation guide 505709_BoxLED L Plus G15
	CAD data 3-dim 544658_BX-L-PL 8XX G15 STEP
	CAD data 3-dim 544729_BX-L-PL 8XX G15 IGS
	CAD data PDF 607399_BoxLED L Plus G15 CAD PDF
	Eulumdat 547827_BoxLED L Plus 3000K G15 Eulumdat
	IES data 547475_BoxLED L Plus 3000K G15 IES

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899200517	BX-L-PL 830	Shipping carton box 5	470 mm x 264 mm x 268 mm	33.25 dm ³	11260.00 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
BX-L-PL 830	BX -MP	▶ 4008321981110

References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit

▶ www.osram.com/system-guarantee

Disclaimer

Product family datasheet

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