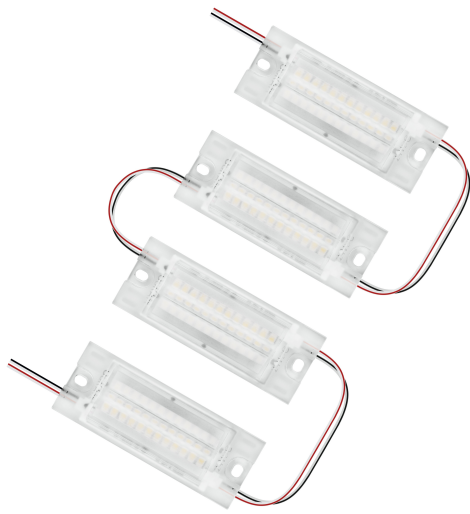


PRODUCT DATASHEET

BX-M-PL 830

BoxLED® M Plus G3 | LED modules for light advertising and backlighting



Areas of application

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

Product benefits

- Modules are compatible with the BoxLED mounting profile
- Uniform illumination thanks to optimized elliptical lenses
- Several options for quick and simple mounting: bolting or snap-in
- Excellent module efficacy
- Consistent white light (Standard Deviation of Color Matching SDCM: < 3)
- Very long lifetime
- ENEC certified
- 5 year guarantee

Product features

- Chain of 32 linear LED modules
- Connected with flexible cables



- Maximum length of one chain: 9.60 m
- Type of protection (modules): IP66/IP68
- CE marked, ENEC certified, UL recognized component
- Fully integrated heat sink

TECHNICAL DATA

Electrical data

Nominal wattage	96.00 W
Construction wattage	96.00 W
Nominal wattage per LED module	3,0 W
Nominal voltage	24 V
Input voltage range	23...25 V
Reverse Voltage	25 V
Type of current	DC
Nominal current	5000.000 mA

Photometrical data

Total useful luminous flux [PICOS]	6311 lm
Luminous efficacy	102 lm/W / 88.5 lm/W ¹⁾
Luminous flux	10200 lm
Luminous intensity	461 cd
Luminous flux per module chain	9760 lm
Color temperature	3000 K
Color rendering index Ra	> 80
Light color LED	White
Light color (designation)	Warm White
Standard deviation of color matching	≤3 sdcM
Rated peak intensity	461 cd

1) Cool conditions (T_c = 25 °C) / Steady state (T_a = 25 °C)

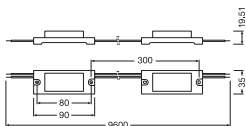
Light technical data

Beam angle	12 ° x 70 °
Rated beam angle (half peak value)	12.00 ... 70.00 °
Starting time	0 s

LED MODULE INFORMATION

Number of LEDs per module	12
Number of LED modules per chain	32
Minimum operable number of LED modules	1

Dimensions & Weight



Length	90.0 mm
Width	35.00 mm
Height	19.50 mm
Product weight	1600.00 g

Temperatures & operating conditions

Ambient temperature range	-25...55 °C
Maximum temperature at tc test point	-25...55 °C
Temperature range in operation	-25...55 °C

Lifespan

Nominal lamp life time	50000 h
Number of switching cycles	15000

Additional product data

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 . / All the technical parameters apply to the entire module. 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
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Capabilities

Dimmable	Yes
Dimming range	1...100 %

Certificates & Standards

Approval marks – approval	CE / ENEC / UL recognized component
Standards	Acc. to IEC 62471 / Acc. to IEC 60598-1 / Acc. to EN 60529 / Acc. to EN 62031 / Acc. to EN 55015 / Acc. to EN 61547 / ENEC
Type of protection	IP66/IP68

Energy class of contained light source	G
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LOGISTICAL DATA



Temperature range at storage	-25...85 °C
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EQUIPMENT / ACCESSORIES

- Several types of OPTOTRONIC 24 V power supplies available
- BoxLED mounting profile BX-MP

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction	User Instruction BoxLED M Plus G3
	Addon Technical Information	Technical application guide BackLED® and BoxLED® portfolio (EN)
	Declarations Of Conformity CE	Manufacturer declaration BoxLED M Plus G3
	Declarations Of Conformity CE	Declaration of conformity BoxLED M Plus G3
	Certificates	UL Certificate BX-M-PL G3 and BXI-L-PL G3
	Certificates	ENEC Certificate BoxLED M Plus G3

Photometric and lighting design files		Document name
	IES file (IES)	Eulumdat BoxLED M Plus G3 IES
	LDT file (Eulumdat)	Eulumdat BoxLED M Plus G3 LDT

CAD/BIM files		Document name
	CAD data 3D PDF	CAD PDF BoxLED M Plus G3

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899493193	Folding box 1	408 mm x 329 mm x 48 mm	1930.00 g	6.44 dm ³
4052899493209	Shipping box 5	423 mm x 260 mm x 353 mm	10296.00 g	38.82 dm ³

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.