

Light is OSRAM

OSRAM

BackLED M Core Basic G1

12 V Backlighting modules

SPECIFICATION DATASHEET

Product Description

BackLED M CB G1 family delivers the cost effective and optical effect for reliable outdoor advertising light box and channel letter designs.

Benefits

Upgraded flux output up to 80 lm.
Uniform light pattern design for 60-200 mm light-box depth.



Applications

Signage boxes, channel letters, luminous areas and ceilings.



Approvals



When not printed on product label, they are under evaluation.

Product Features

- LED chain comprising 20 LED modules connected by flexible cables
- Each LED module contains 3 LEDs
- LED module pitch variable between 60 ~ 150 mm
- Compatible with OSRAM OPTOTRONIC constant voltage drivers / dimmers
- Wide CCT and color options available
- IP66 rating
- Lifetime L70B50 30,000 h @ Tc 70°C
- 3 years warranty

TECHNICAL INFORMATION DATA FOR ENTIRE CHAIN

Product Name	Order Code [EAN10]	Color	CCT [K]	Voltage [V DC]	Power [W]	Lum. Flux [lm]	Modules per chain
BA-M-CB-810-G1	4062172285193	Ultra-Cool White	10000	12	14.4	1360	20
BA-M-CB-880-G1	4062172285179	Cool White	8000	12	14.4	1360	20
BA-M-CB-865-G1	4052899629608	Cool White	6500	12	14.4	1600	20
BA-M-CB-840-G1	4052899629615	Neutral White	4000	12	14.4	1530	20
BA-M-CB-830-G1	4052899629622	Warm White	3000	12	14.4	1360	20

TECHNICAL OPERATING DATA FOR SINGLE MODULE

Product Name	CCT [K]	CRI	Power [W]	Flux Output [lm]	Efficacy [lm/W]	Beam Angle [° FWHM]
BA-M-CB-810-G1	10000	>80	0.72	68	95	160
BA-M-CB-880-G1	8000	>80	0.72	68	95	160
BA-M-CB-865-G1	6500	>80	0.72	80	110	160
BA-M-CB-840-G1	4000	>80	0.72	76.5	106	160
BA-M-CB-830-G1	3000	>80	0.72	68	95	160

GENERAL

Dimmable	Yes 1%...100%, via Pulse Width Modulation (PWM)
Lifetime	up to 30,000 h (L70B50, @ Tc max)
Warranty	3 years ¹⁾
Ingress protection	IP66 ²⁾
Adhesive tape on backside	Yes

¹⁾: Three-year warranty is provided only when the module is installed with proper screws or other suggested installation methods (e.g. mounting profile) on back plane.

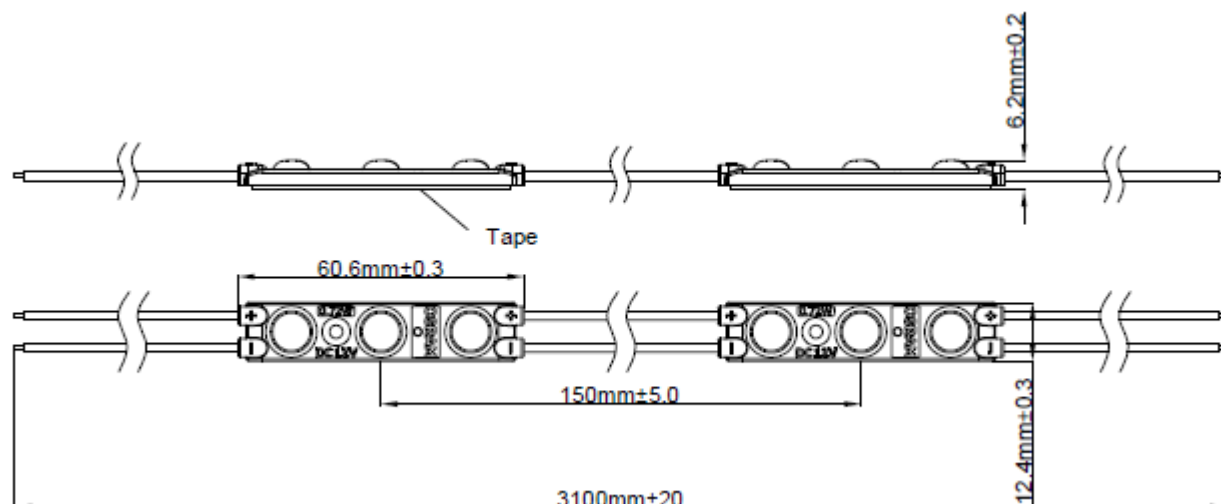
²⁾: The LED modules must not be operated in places which are directly exposed to atmospheric conditions. For outdoor applications, hence the LED module must be protected by appropriate sealed enclosures or covers. Operation in or under water is prohibited.

OPERATING CONDITIONS

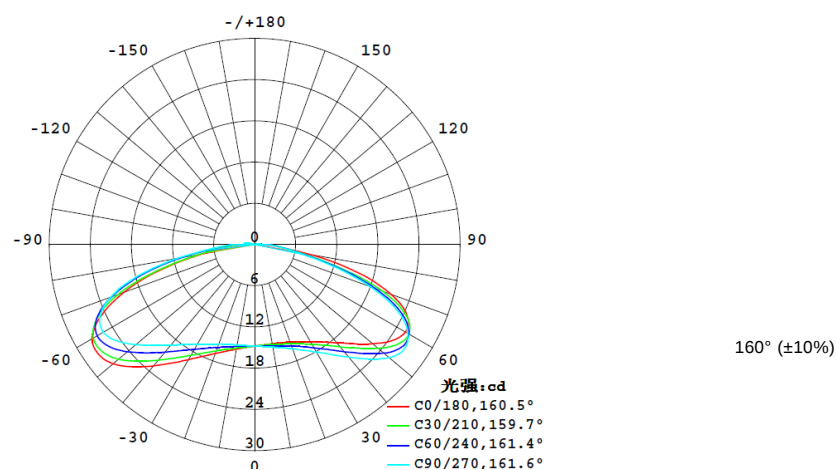
	BA-M-CB-8xx-G1
Operating temperature Tc-Max (measured at Tc-Point) [°C]	-25...+70
Storage temperature [°C]	-25...+85
Voltage range [V DC]	12...13
Reverse voltage protection [V DC]	13

- Exceeding maximum ratings for operating and storage temperature will reduce the expected lifetime or destroy the LED modules.
- Exceeding maximum ratings for operating voltage will cause hazardous overload and will likely destroy the LED modules.

MECHANICAL DRAWINGS AND DIMENSIONS



LIGHT DISTRIBUTION



ORDERING CODES

Description	EAN10*	EAN40	S-UNIT** (pcs)
BA-M-CB-810-G1	4062172285193	4062172285209	60(Chain)
BA-M-CB-880-G1	4062172285179	4062172285186	60(Chain)
BA-M-CB-865-G1	4052899629608	4052899629660	60(Chain)
BA-M-CB-840-G1	4052899629615	4052899629677	60(Chain)
BA-M-CB-830-G1	4052899629622	4052899629684	60(Chain)

* EAN 10: Ordering number per single sale unit bag

** S-Unit: Chain (EAN10) number per shipping unit (EAN40)