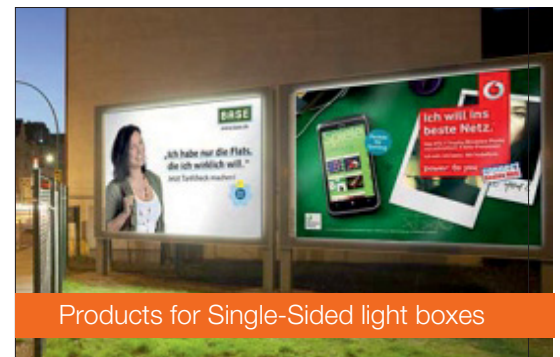


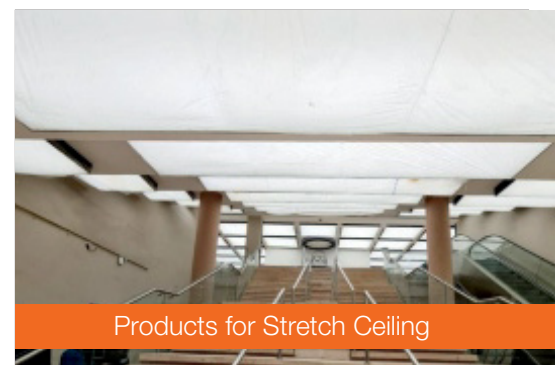
OSRAM Digital Systems is now a part of Inventronics



Products for Channel Letters



Products for Single-Sided light boxes



Products for Stretch Ceiling



Products for Double-Sided Light Boxes

Impressive Signage and Backlighting Solutions

OSRAM

Attracting attention, transforming environments: BackLED® and BoxLED® create highlights

In exterior and interior applications, Inventronics offers the most reliable and best performance product, BackLED® and BoxLED® families, to bring optimal visual experience in light boxes, channel letters and stretched ceilings.

Through continuous innovation, the advanced technology in sophisticated optics and brilliant compact module design can achieve high uniformity with precise optical control and deliver the highest design freedom to realize impressive illumination effect.





Channel letters

- Professional letter effect to strengthen brand image
- Slim letter design with ultra compact modules
- High consistency in color and brightness



Single-sided light boxes

- Homogeneous back-lighting with BackLED® technology
- High efficiency and lumen maintenance for energy saving
- Best reliability to reduce maintenance cost



Double-sided light boxes

- Homogeneous side-lighting with BoxLED® technology
- Easier installation on edges
- Best reliability to reduce maintenance cost



Stretched ceiling

- Low glare for general lighting purpose
- Flexible scene settings by changing ambience
- Human centric lighting with Tunable White solution



One-stop-shop components for optimal visual experience

A highly functional system not only requires high-performance LED modules, but also perfectly matched LED drivers, hands-on mounting accessories and an intelligent light management. For all of the above, Inventronics offers a complete portfolio, including comprehensive services and guaranteeing.

Complete systems from Inventronics: Comprehensive and reliable solutions

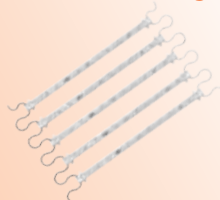
As one of the world's leading light manufacturers, Inventronics can support you during the implementation of your project: from system planning and the selection of matching components to the comprehensive product guarantee.

BackLED® for direct backlighting



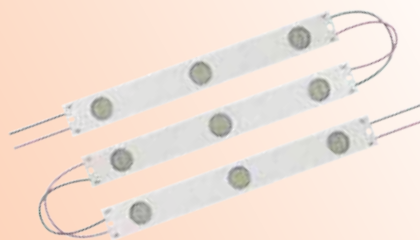
Ideally suitable for backlighting of flat and slim installation

BackLED Linear for direct backlighting



Ideally for high flux level requirement application

BoxLED® for backlighting by side injection



Designed for light boxes of various dimensions, especially for double-sided application

* Details about our terms of guarantee can be found at https://www.inventronics-light.com/Multilevel_Guarantee

Light Management Systems (LMS)



Smart light management systems for dynamic lighting scenes, human centric lighting effects and energy saving installations

OPTOTRONIC® LED drivers



Efficient constant-voltage LED drivers for 12V and 24V LED modules for indoor and outdoor areas

Service LED deSIGNer

The online tool helps calculating the necessary amount of LED modules, LED drivers and mounting profiles

High-Performance System

Accessories Mounting profiles

Mounting profiles, matched to the individual modules for quick and easy installation: they save about 25 % time in comparison to a screw connection of individual modules

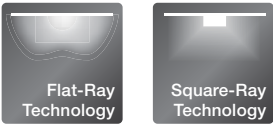


Guarantee



Comprehensive guaranteeing for best product quality and high-quality lighting systems

Innovative optics for optimal light effect



Optics improve illumination and reduce the number of required LED modules

Flat-Ray® Technology:

Optimized light distribution for optimal experience

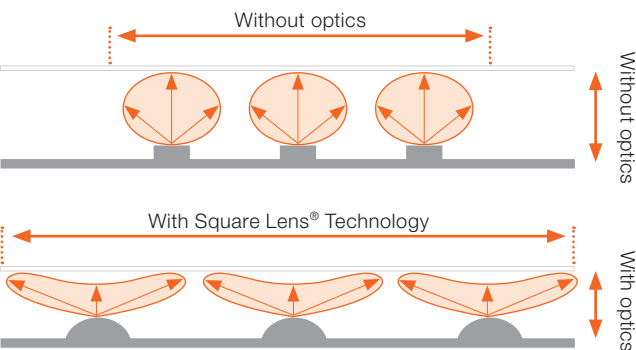
Special optics can achieve homogeneous light distribution between individual modules even when the pitch between these LEDs is large. Overall, this means less modules is required for a perfect effect, and system cost can be further optimized. Moreover, another approach is to reduce the distance between the LED module and the backlit surface, and enables a slim and compact light box design.

Square Lens® Technology:

Global patented and ideal solution for backlighting

With this premium feature from inventronics, system efficiency and light effect can be escalated to even higher level. By means of quadrant-symmetric light distribution, square lenses can achieve seamless illumination in an array and avoiding shadows appeared batwing-lens solution. This technology integrated in BackLED® Plus and CP families is an ideal solution of premium light boxes and stretched ceilings.

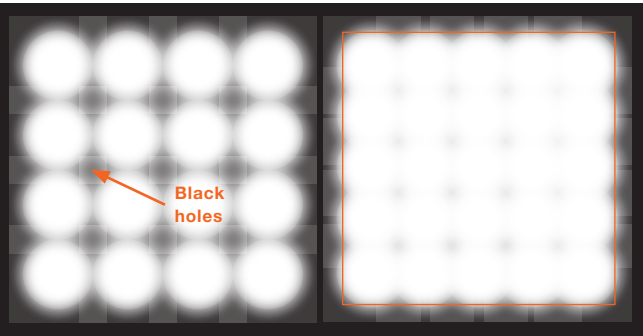
Homogeneous light distribution through OSRAM Square Lens®Technology



Installation and Design Guideline

Module Solution	Recommendation		
	Installation Min. Depth (mm)	Module Pitch (mm)	Depth: Pitch Ratio
BackLED XL CP G5	50	88-450	1:3
BackLED L CP G5	50	55-300	1:3
BackLED M-HO CP G4	40	60-200	1:2
BackLED M- HO CP G5	35	45-200	1:2
BackLED M CP G4	40	60-200	1:2
BackLED M CP G5	35	45-200	1:2
BackLED S CP G4	40	60-135	1:2
BackLED S CP G5	35	45-135	1:2
BackLED Mini-M CP G4	25	35-75	1:1.5
BackLED Mini-S CP G4	25	20-40	1:1.5
BackLED L CX G4	80	90-200	1:1.5
BackLED ECO M G2	60	60-200	1:1.1
BackLED RGBW Plus G2	100	140-400	1:2
BackLED TW CP G5	100	88-450	1:3
Dragon Wing G1	100	110-500	1:1.5

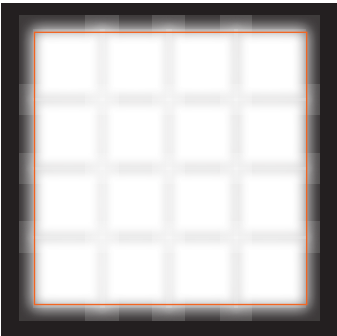
Normal lenses without special optics control



Shadow effect with black holes in 4x4 array

Improve unifomrity by adding more modules for 5x5 array in the same area

Square Lens® Technology



Homogeneous illumination without black shadow in 4x4 array

Disadvantages:

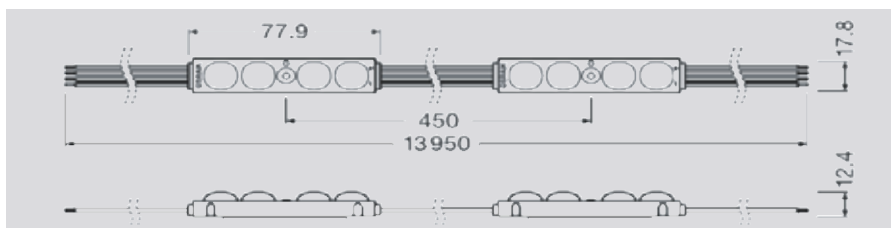
- Inhomogeneous illumincation, unless using more modules
- Highly system cost is required to achieve fairly good effect
- Higher labor cost is incurred in installation

Features:

- Homogeneous illumination, even in compact light box
- Optimized system and installation cost
- Innovative, patented lens technology from inventronics

BackLED® TW CP G5 24V

IP66



Product Description	EAN10	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-TW-CP-827.865-24-G5	4052899627253	2700K-6500K	30	450	127-150	155	24	2	60	66	50	5	10

Product Features

- Tunable CCT range: 2700K to 6500K
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Wide color gamut through color mixing
- 2 channels independently control
- Compatible with OTi DALI TW Constant voltage drivers
- Simple fixing with M3 screws
- High reliability with L70B50 Lifetime in 50Khrs
- 5 year guarantee

Applications

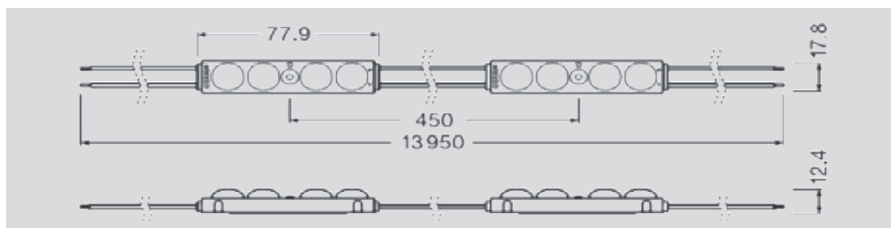
- Dynamic white backlighting
- Human centric lighting
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 150mm
- Recommended ratio of Depth : Pitch = 1 : 2

Accessories

- Mounting profile BA-MP-L-G5-2M (EAN 4052899629189)
- Cable clip BA-CLIP-L-G5 (EAN 4052899629325)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

BackLED® XL CP G5 24V

IP66



Product Description	EAN10	Color	CCT (K)*	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-XL-CP-865-24-G5	4052899627222	Cool White	6500	30	450	274	155	24	2	60	66	50	5	10
BA-XL-CP-840-24-G5	4052899627239	Neutral White	4000	30	450	274	155	24	2	60	66	50	5	10
BA-XL-CP-830-24-G5	4062172223737	Warm White	3000	30	450	277	155	24	2	60	66	50	5	10
BA-XL-CP-827-24-G5	4052899627246	Warm White	2700	30	450	254	155	24	2	60	66	50	5	10

Product Features

- High flux output: Up to 277lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 139 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 75 °C)
- 5 year guarantee

Applications

- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 100mm
- Recommended ratio of Depth : Pitch = 1 : 3

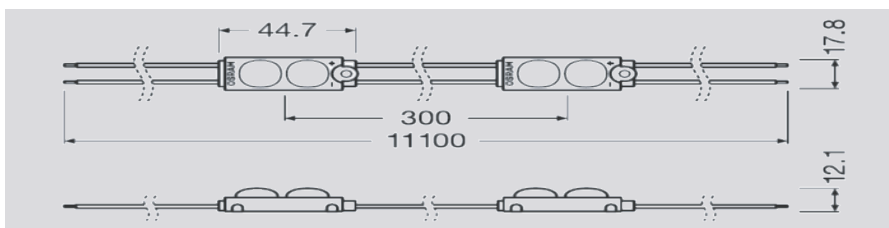
Accessories

- Mounting profile BA-MP-L-G5-2M (EAN 4052899629189)
- Cable clip BA-CLIP-L-G5 (EAN 4052899629325)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data;
All values are tested at Ta25 °C.

BackLED L CP G5 (24V)

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-L-CP-810-G5	4052899627390	Ultra-Cool white	10000	36	300	150	155	24	1.2	43.2	66	50	5	15
BA-L-CP-880-G5	4052899627406	Cool White	8000	36	300	150	155	24	1.2	43.2	66	50	5	15
BA-L-CP-871-G5	4052899627413	Cool White	7100	36	300	160	155	24	1.2	43.2	66	50	5	15
BA-L-CP-865-G5	4052899627420	Cool White	6500	36	300	160	155	24	1.2	43.2	66	50	5	15
BA-L-CP-840-G5	4052899627437	Neutral White	4000	36	300	160	155	24	1.2	43.2	66	50	5	15
BA-L-CP-830-G5	4052899627444	Warm White	3000	36	300	153	155	24	1.2	43.2	66	50	5	15

Product Features

- High flux output: Up to 160lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 133 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 75 °C)
- 5 year guarantee

Applications

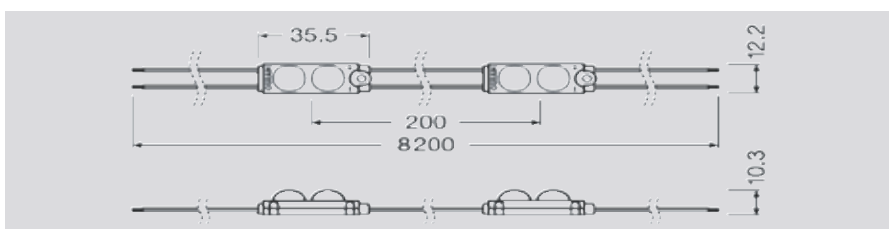
- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 80mm
- Recommended ratio of Depth : Pitch = 1 : 3

Accessories

- Mounting profile BA-MP-L-G5-2M (EAN 4052899629189)
- Cable clip BA-CLIP-L-G5 (EAN 4052899629325)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

BackLED M HO (24V)

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-M-HO-CP-810-24-G5	4052899627550	Ultra-Cool white	10000	40	200	124	155	24	1	40	66	50	5	30
BA-M-HO-CP-880-24-G5	4052899627567	Cool White	8000	40	200	129	155	24	1	40	66	50	5	30
BA-M-HO-CP-871-24-G5	4052899627574	Cool White	7100	40	200	133	155	24	1	40	66	50	5	30
BA-M-HO-CP-865-24-G5	4052899627581	Cool White	6500	40	200	135	155	24	1	40	66	50	5	30
BA-M-HO-CP-840-24-G5	4052899627598	Neutral White	4000	40	200	129	155	24	1	40	66	50	5	30
BA-M-HO-CP-830-24-G5	4052899627604	Warm White	3000	40	200	124	155	24	1	40	66	50	5	30

Product Features

- High flux output: Up to 135lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 135 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 70 °C)
- 5 year guarantee

Applications

- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Backlighting of medium light boxes
- Recommended Minimal light box depth: 60mm
- Recommended ratio of Depth : Pitch = 1 : 2

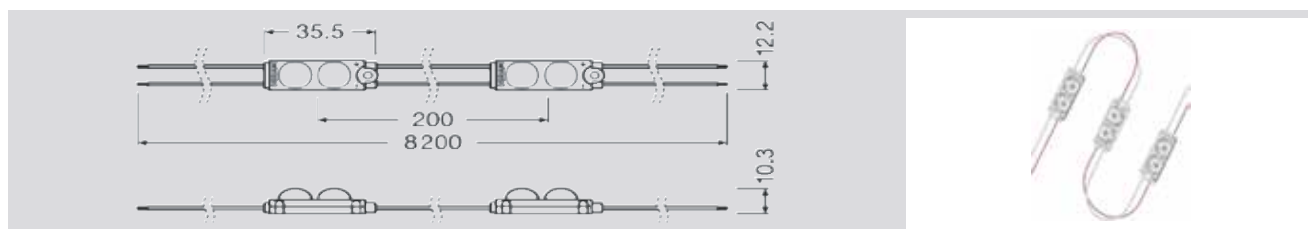
Accessories

- Mounting profile BA-MP-SM-G5-2M (EAN 4052899629196)
- Cable clip BA-CLIP-SM-G5 (EAN 4052899629349)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data;
All values are tested at Ta25 °C.

BackLED M CP G5 (24V)

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-M-CP-810-24-G5	4052899627734	Ultra-Cool White	10000	40	200	77	155	24	0.6	24	66	50	5	30
BA-M-CP-880-24-G5	4052899627741	Cool White	8000	40	200	77	155	24	0.6	24	66	50	5	30
BA-M-CP-871-24-G5	4052899627758	Cool White	7100	40	200	77	155	24	0.6	24	66	50	5	30
BA-M-CP-865-24-G5	4052899627765	Cool White	6500	40	200	83	155	24	0.6	24	66	50	5	30
BA-M-CP-840-24-G5	4052899627772	Neutral White	4000	40	200	80	155	24	0.6	24	66	50	5	30
BA-M-CP-830-24-G5	4052899627789	Warm White	3000	40	200	80	155	24	0.6	24	66	50	5	30

BackLED M CP G5 (24V)

Product Features

- High flux output: Up to 83lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Applications

- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Backlighting of medium light boxes
- Recommended Minimal light box depth: 60mm
- Recommended ratio of Depth : Pitch = 1 : 2

Product Benefits

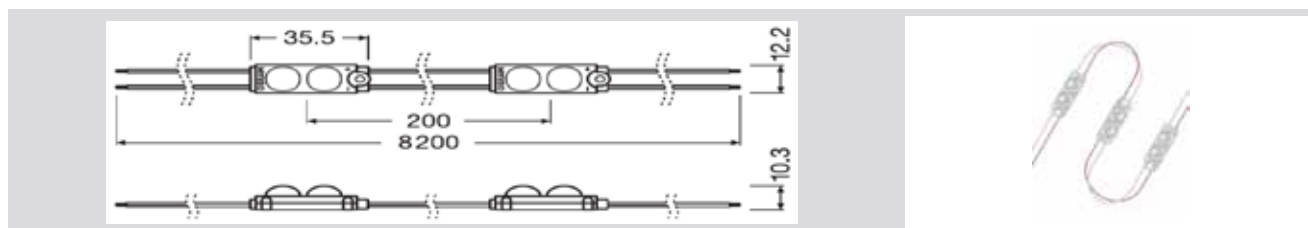
- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 138 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 70 °C)
- 5 year guarantee

Accessories

- Mounting profile BA-MP-SM-G5-2M (EAN 4052899629196)
- Cable clip BA-CLIP-SM-G5 (EAN 4052899629349)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

BackLED M CP G5 HF (24V)

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-M-CP-810-24-G5-HF	4052899627888	Ultra-Cool White	10000	40	200	77	155	24	0.6	24	66	50	5	30
BA-M-CP-880-24-G5-HF	4052899627895	Cool White	8000	40	200	77	155	24	0.6	24	66	50	5	30
BA-M-CP-871-24-G5-HF	4052899627901	Cool White	7100	40	200	77	155	24	0.6	24	66	50	5	30
BA-M-CP-865-24-G5-HF	4052899627918	Cool White	6500	40	200	83	155	24	0.6	24	66	50	5	30
BA-M-CP-840-24-G5-HF	4052899627925	Neutral White	4000	40	200	80	155	24	0.6	24	66	50	5	30
BA-M-CP-830-24-G5-HF	4052899627932	Warm White	3000	40	200	80	155	24	0.6	24	66	50	5	30

Product Features

- LED chain comprising 40 LED modules connected by flexible cables
- Each LED module contains 2 LEDs
- LED module pitch variable between 60 and ~ 200 mm
- Compatible with OSRAM OPTOTRONIC constant voltage drivers / dimmers
- Color consistency in 3 SDCM
- Patented Square Lens technology
- Wide CCT and color options available
- IP66 rating
- Lifetime (L80/B10): 50,000 h (temperature at Tc= 70 °C)
- 5-year warranty @ Ta = 70 °C

Product Benefits

- High module efficacy: up to 135 lm/W
- Uniform light pattern design for 60-200 mm lightbox depth
- Backside injection technology for high protection level
- Halogen free without gas hazard
- Flammability resistance material selection fit UL-94 V0

Applications

- Channel letters
- Signage boxes
- Luminous areas and ceilings

*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data; All values are tested at Ta25 °C.

BackLED M-HO CP G5 12V

IP66



Product Description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current
BA-M-HO-CP -810-12-G5	12.0 V	25.00 W	1 W	13 V	12.1~12.9 V	DC
BA-M-HO-CP -830-12-G5	12.0 V	25.00 W	1 W	13 V	12.1~12.9 V	DC
BA-M-HO-CP -840-12-G5	12.0 V	25.00 W	1 W	13 V	12.1~12.9 V	DC
BA-M-HO-CP -865-12-G5	12.0 V	25.00 W	1 W	13 V	12.1~12.9 V	DC
BA-M-HO-CP -871-12-G5	12.0 V	25.00 W	1 W	13 V	12.1~12.9 V	DC
BA-M-HO-CP -880-12-G5	12.0 V	25.00 W	1 W	13 V	12.1~12.9 V	DC



Product Features

- LED chain comprising 40 LED modules connected by flexible cables
- Each LED module contains 2 LEDs
- LED module pitch variable between 60 and ~ 200 mm
- Compatible with OSRAM OPTOTRONIC constant voltage drivers / dimmers
- Color consistency in 3 SDCM
- Patented Square Lens technology
- Wide CCT and color options available
- IP66 rating
- Lifetime (L80/B10): 50,000 h (temperature at Tc= 70 °C)
- 5-year warranty @ Ta = 70 °C

Product Benefits

- High module efficacy: up to 135 lm/W
- Uniform light pattern design for 60-200 mm lightbox depth
- Backside injection technology for high protection level

Applications

- Channel letters
- Signage boxes
- Luminous areas and ceilings

BackLED M CP G5 12V

IP66



Product Description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current
BA-M-CP -810-12-G5	12.0 V	24.00 W	0.6 W	13 V	12.1~12.9 V	DC
BA-M-CP -830-12-G5	12.0 V	24.00 W	0.6 W	13 V	12.1~12.9 V	DC
BA-M-CP -840-12-G5	12.0 V	24.00 W	0.6 W	13 V	12.1~12.9 V	DC
BA-M-CP -865-12-G5	12.0 V	24.00 W	0.6 W	13 V	12.1~12.9 V	DC
BA-M-CP -871-12-G5	12.0 V	24.00 W	0.6 W	13 V	12.1~12.9 V	DC
BA-M-CP -880-12-G5	12.0 V	24.00 W	0.6 W	13 V	12.1~12.9 V	DC



Product Features

- LED chain comprising 40 LED modules connected by flexible cables
- Each LED module contains 2 LEDs
- LED module pitch variable between 60 and ~ 200 mm
- Compatible with OSRAM OPTOTRONIC constant voltage drivers / dimmers
- Color consistency in 3 SDCM
- Patented Square Lens technology
- Wide CCT and color options available
- IP66 rating
- Lifetime (L80/B10): 50,000 h (temperature at Tc= 70 °C)
- 5-year warranty @ Ta = 70 °C

Product Benefits

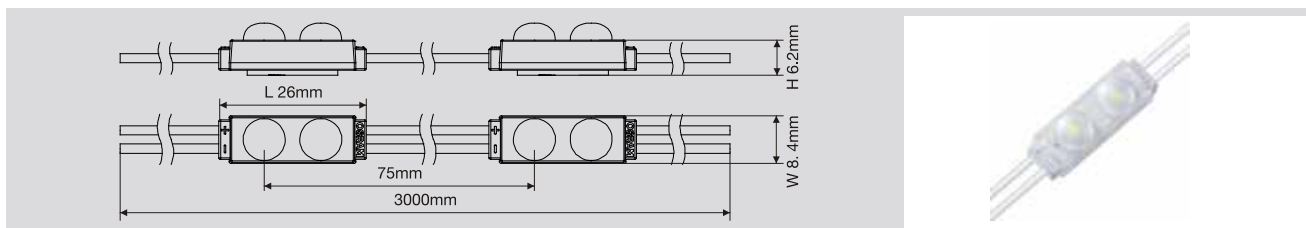
- High module efficacy: up to 135 lm/W
- Uniform light pattern design for 60-200 mm lightbox dept
- Backside injection technology for high protection level

Applications

- Channel letters
- Signage boxes
- Luminous areas and ceilings

BackLED® Mini-M CP G4 (12V)

IP66



Product Description	EAN10	Color	Wave length (nm) CCT(K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-Mini-M-CP-810-G4	4062172145800	Ultra Cool White	10000K	40	75	72	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-871-G4	4062172145787	Cool White	7100K	40	75	79	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-865-G4	4062172145763	Cool White	6500K	40	75	79	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-840-G4	4062172145718	Neutral White	4000K	40	75	79	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-830-G4	4062172145695	Warm White	3000K	40	75	72	140	12	0.72	28.8	66	50	5	40

Product Features

- Module flux output: 79lm/module
- Ultra slim form factor: 8.4mm in width
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to Ultra Cool White 10,000K
- High color consistency: < 3 SDCM
- CE marked, BIS certified

Product Benefits

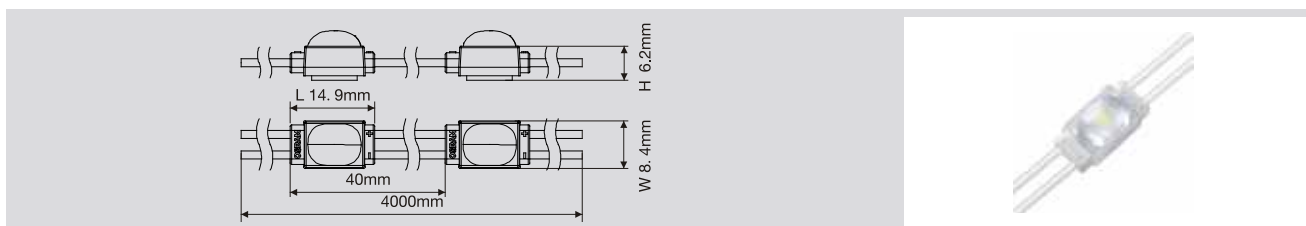
- Flat Ray Lens technology to achieve good uniformity
- Deliver the highest freedom in slim channel letter design
- Efficacy up to 110 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 80 °C)
- 5 year guarantee

Applications

- Slim channel letters, width >9mm
- Recommended Minimal letter depth: 25mm
- Recommended ratio of Depth : Pitch = 1:1.5

BackLED® Mini-S CP G4 (12V)

IP66



Product Description	EAN10	Color	CCT(K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-Mini-S-CP-810-G4	4062172145909	Ultra Cool White	10000K	100	40	36	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-871-G4	4062172145886	Cool White	7100K	100	40	39	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-865-G4	4062172145862	Cool White	6500K	100	40	39	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-840-G4	4062172145848	Neutral White	4000K	100	40	39	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-830-G4	4062172145824	Warm White	3000K	100	40	36	160x120	12	0.36	36	66	50	5	40

Product Features

- Module flux output: 39lm/module
- Ultra slim form factor: 8.4mm in width
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to Ultra Cool White 10,000K
- High color consistency: < 3 SDCM
- CE marked, BIS certified

Product Benefits

- Oval Lens technology to achieve high uniformity along slim letters
- Deliver the highest freedom in slim channel letter design
- Efficacy up to 108 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 80 °C)
- 5 year guarantee

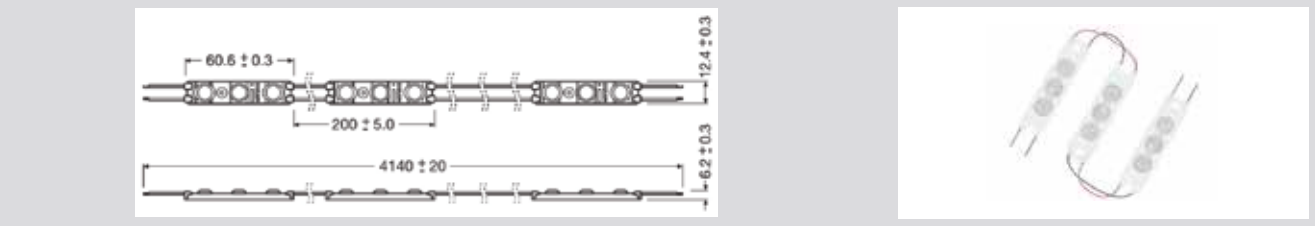
Applications

- Slim channel letters, width >9mm
- Recommended Minimal letter depth: 25mm
- Recommended ratio of Depth : Pitch = 1:1.5

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All values are tested at Ta25 °C.

BackLED L CX G5

IP66



Product Description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current
BA-L-CX -810-G5 1)	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX -880-G5 1)	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX -865-G5 1)	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX -840-G5 1)	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC
BA-L-CX -830-G5 1)	12.0 V	30.00 W	1.5 W	13 V	12...13 V	DC

Product Features

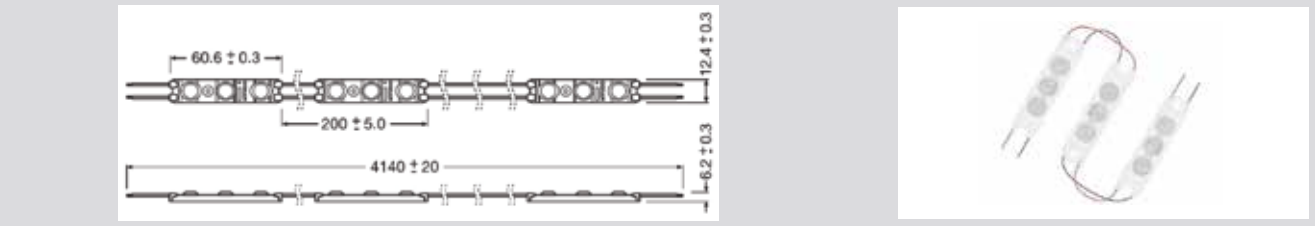
- Color consistency in 3 SDCM
- Diffusive Optics technology
- Wide CCT options available
- IP66 Rated

Product Benefits

- High module flux output up to 162 lm
- 5 year warranty
- Wide beam angle for high uniformity
- Good solution to reduce system cost

BackLED M CX G5

IP66



Product Description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current
BA-M-CX -810-G5 1)	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC
BA-M-CX -880-G5 1)	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC
BA-M-CX -865-G5 1)	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC
BA-M-CX -840-G5 1)	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC
BA-M-CX -830-G5 1)	12.0 V	14.40 W	0.72 W	13 V	12...13 V	DC

Product Features

- Color consistency in 3 SDCM
- Diffusive Optics technology
- Wide CCT options available
- IP66 Rated

Product Benefits

- High module flux output up to 80 lm
- 5 year warranty
- Wide beam angle for high uniformity
- Good solution to reduce system cost

Applications

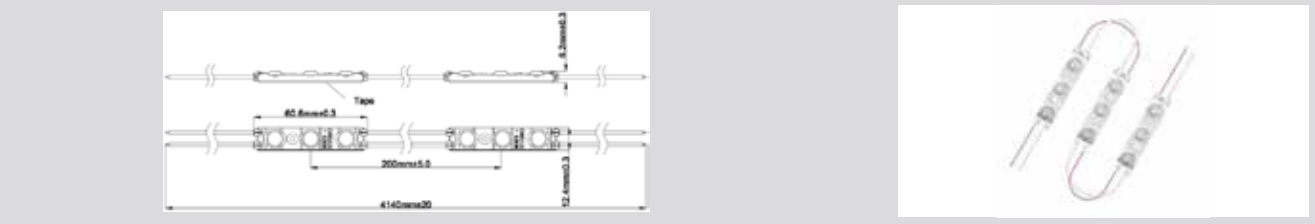
- Slim channel letters, width >9mm
- Recommended Minimal letter depth: 25mm
- Recommended ratio of Depth : Pitch = 1:1.5

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BackLED L-HO Core Basic G1

12 V Backlighting modules

IP66



Product Description	Order Code [EAN10]	Color	CCT [K]	Voltage [V DC]	Power [W]	Lum. Flux [lm]	Modules per chain
BA-L-HO-CB-810-G1	4062172374101	Ultra-Cool White	10000	12	30	3000	20
BA-L-HO-CB-871-G1	4062172374125	Ultra-Cool White	7100	12	30	3240	20
BA-L-HO-CB-865-G1	4062172374149	Cool White	6500	12	30	3240	20
BA-L-HO-CB-857-G1	4062172374163	Cool White	5700	12	30	3240	20
BA-L-HO-CB-840-G1	4062172374187	Neutral White	4000	12	30	3240	20
BA-L-HO-CB-830-G1	4062172374200	Warm White	3000	12	30	3000	20

Product Features

- LED chain comprising 20 LED modules connected by flexible cables
- Each LED module contains 3 LEDs
- LED module pitch variable between 70 ~ 200 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

Product Description

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

Product Benefits

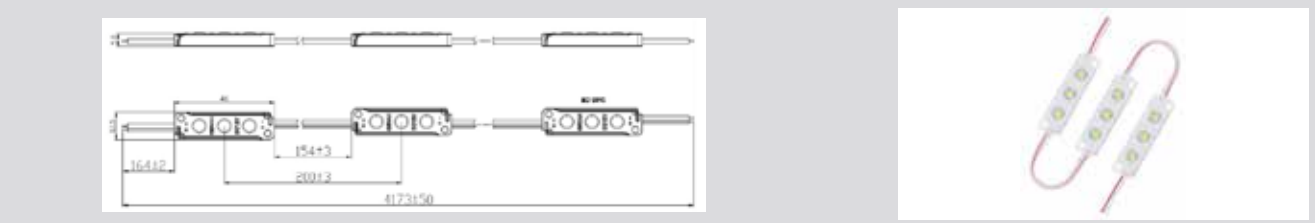
- Upgraded flux output up to 162 lm.
- Uniform light pattern design for 80-200 mm light-box depth.

Applications

- Signage boxes
- Channel letters
- Luminous areas and ceilings.

BackLED ECO M G2

IP64



Description	No. of LED's	Color Temp. (K)	Wattage	Beam Angle	Lumens
BA-ECO-M-RED	3	RED	0.60W	120°	21lm
BA-ECO-M-BLUE	3	BLUE	0.60W	120°	21lm

Product Features

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

Product Benefits

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

Product Description

- Compatible with OSRAM OPTOTRONIC drivers
- Lifetime L70B50 30khrs @ Tc 60°C
- System warranty up to 3 years

DRAGON WING I 5 Year Warranty

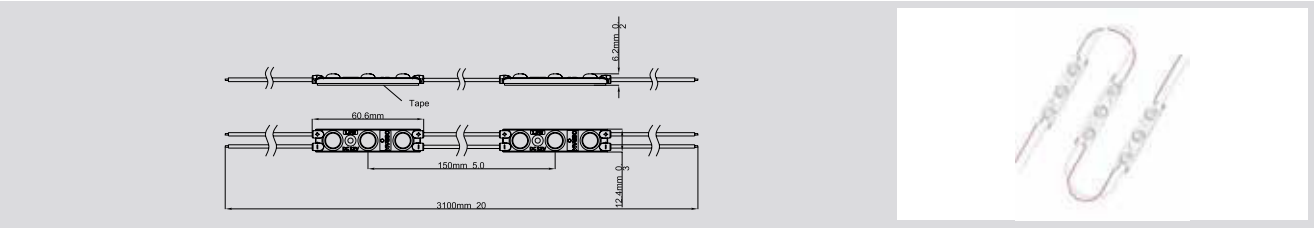
IP65



Description	Length	Color Temp. (K)	Wattage	Beam Angle	Lumens
WD1000-G1-15	1450mm	8000K, 6500K	16.8W	150°X110°	1600lm
WD1000-G1-12	1150mm	8000K, 6500K	13.4W	150°X110°	1280lm
WD1000-G1-06	550mm	8000K, 6500K	6.7W	150°X110°	630lm

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BackLED® L Core Basic G1



Product Description	(EAN10)	Color	Color Temp[K]*	Module Qty per Chain (pcs)	Module Pitch (mm)"	Flux per Module (lm)"	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)"	(pcs) S-Unit
BA-L-CB-810-G1	4062172285216	Cool White	10000K	20	150	100	160 °	12	1	20	66	30	3	60
BA-L-CB-880-G1	4062172285230	Cool White	8000K	20	150	100	160 °	12	1	20	66	30	3	60
BA-L-CB-865-G1	4052899629639	Cool White	6500K	20	150	110	160 °	12	1	20	66	30	3	60
BA-L-CB-840-G1	4052899629646	Neutral White	4000K	20	150	110	160 °	12	1	20	66	30	3	60
BA-L-CB-830-G1	4052899629653	Warm White	3000K	20	150	100	160 °	12	1	20	66	30	3	60

Product Features

- Module flux output: up to 110lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to 10,000K
- High color consistency: < 5 SDCM
- CE/CQC marked, BIS certified

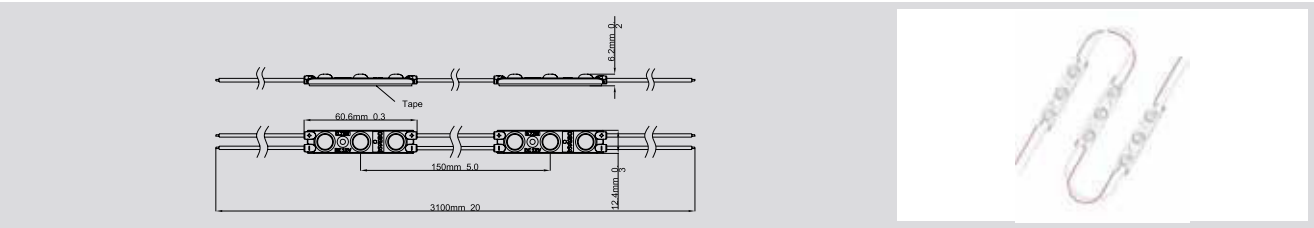
Product Benefits

- Module flux output: up to 110lm/module
- High reliability with L70B50 Lifetime in 30Khrs (at Tc 60 °C)
- 3 year guarantee

Applications

- Backlighting of small to medium size light boxes
- Recommended Minimal light box depth: 50mm
- Recommended ratio of Depth : Pitch = 1 : 1.5

BackLED® M Core Basic G1



Product Description	(EAN10)	Color	Color Temp[K]*	Module Qty per Chain (pcs)	Module Pitch (mm)"	Flux per Module (lm)"	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)"	(pcs) S-Unit
BA-M-CB-810-G1	4062172285193	Cool White	10000K	20	150	68	160 °	12	0.72	14.4	66	30	3	60
BA-M-CB-880-G1	4062172285179	Cool White	8000K	20	150	68	160 °	12	0.72	14.4	66	30	3	60
BA-M-CB-865-G1	4052899629608	Cool White	6500K	20	150	80	160 °	12	0.72	14.4	66	30	3	60
BA-M-CB-840-G1	4052899629615	Neutral White	4000K	20	150	76.5	160 °	12	0.72	14.4	66	30	3	60
BA-M-CB-830-G1	4052899629622	Warm White	3000K	20	150	68	160 °	12	0.72	14.4	66	30	3	60

Product Features

- Module flux output: up to 80lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to 10,000K
- High color consistency: < 5 SDCM
- CE/CQC marked, BIS certified

Product Benefits

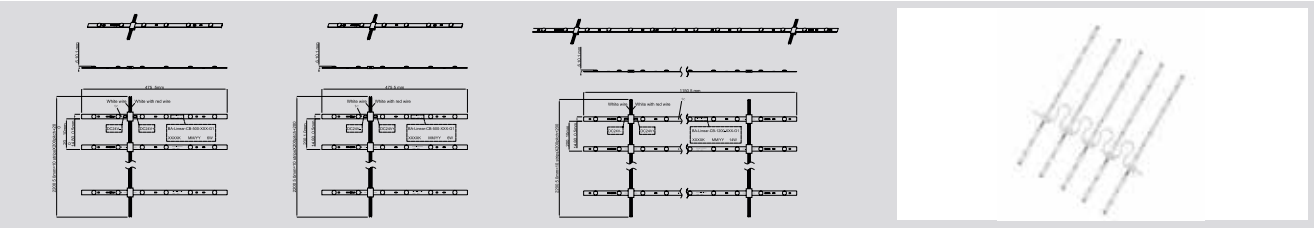
- Efficacy up to 110 lm/W for energy saving
- High reliability with L70B50 Lifetime in 30Khrs (at Tc 60 °C)
- 3 year guarantee

Applications

- Backlighting of small to medium size light boxes
- Recommended Minimal light box depth: 50mm
- Recommended ratio of Depth : Pitch = 1 : 1.5

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BackLED® Linear Core Basic G1 (Indoor)



Product Description	(EAN10)	Color	Color Temp[K]*	Module Qty per Chain (pcs)	Module Pitch (mm)"	Flux per Module (lm)"	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)*	(pcs) S-Unit
BA-LINEAR-CB-500-880-G1	4052899629752	Cool White	8000K	10	200	630	180°	24	6	60	20	30	3	10 Chain
BA-LINEAR-CB-1000-880-G1	4052899629769	Cool White	8000K	10	200	1250	180°	24	12	120	20	30	3	10 Chain
BA-LINEAR-CB-1200-880-G1	4052899629776	Cool White	8000K	10	200	1440	180°	24	14	140	20	30	3	10 Chain
BA-LINEAR-CB-500-865-G1	4052899629721	Cool White	6500K	10	200	660	180°	24	6	60	20	30	3	10 Chain
BA-LINEAR-CB-1000-865-G1	4052899629738	Cool White	6500K	10	200	1300	180°	24	12	120	20	30	3	10 Chain
BA-LINEAR-CB-1200-865-G1	4052899629745	Cool White	6500K	10	200	1495	180°	24	14	140	20	30	3	10 Chain

Product Features

- Module flux output: up to 1495lm/module
- Type of protection (modules): IP20
- Color rendering index Ra: > 80
- CCT 8000K & 6500K available
- High color consistency: < 3 SDCM
- CE/CQC marked, BIS certified

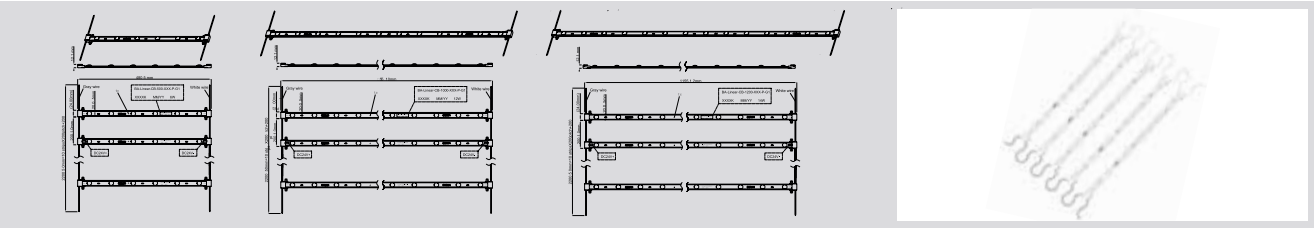
Product Benefits

- Efficacy up to 108 lm/W for energy saving
- High reliability with L70B50 Lifetime in 30Khrs (at Tc 60 °C)
- 3 year guarantee

Applications

- Backlighting of small to medium size light boxes
- Recommended Minimal light box depth: 55mm
- Recommended ratio of Depth : Pitch = 1 : 1.5

BackLED® Linear Core Basic G1 (Outdoor)



Product Description	(EAN10)	Color	Color Temp[K]*	Module Qty per Chain (pcs)	Module Pitch (mm)"	Flux per Module (lm)"	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)*	(pcs) S-Unit
BA-LINEAR-CB-500-880-P-G1	4052899629813	Cool White	8000K	10	200	620	180°	24	6	60	66	30	3	5 Chain
BA-LINEAR-CB-1000-880-P-G1	4052899629820	Cool White	8000K	10	200	1270	180°	24	12	120	66	30	3	5 Chain
BA-LINEAR-CB-1200-880-P-G1	4052899629837	Cool White	8000K	10	200	1450	180°	24	14	140	66	30	3	5 Chain
BA-LINEAR-CB-500-865-P-G1	4052899629783	Cool White	6500K	10	200	650	180°	24	6	60	66	30	3	5 Chain
BA-LINEAR-CB-1000-865-P-G1	4052899629790	Cool White	6500K	10	200	1270	180°	24	12	120	66	30	3	5 Chain
BA-LINEAR-CB-1200-865-P-G1	4052899629806	Cool White	6500K	10	200	1450	180°	24	14	140	66	30	3	5 Chain

Product Features

- Module flux output: up to 1450lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- CCT 8000K & 6500K available
- High color consistency: < 3 SDCM
- CE/CQC marked, BIS certified

Product Benefits

- Efficacy up to 108 lm/W for energy saving
- High reliability with L70B50 Lifetime in 30Khrs (at Tc 60 °C)
- 3 year guarantee

Applications

- Backlighting of small to medium size light boxes
- Recommended Minimal light box depth: 65mm
- Recommended ratio of Depth : Pitch = 1 : 1.3

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* Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Flexible Strips

Indoor Application

IP20  Length 5 m

Description	Color Temp.(K)	Watt/Meter	Lumen/meter	LED/meter
BF500-IN	6500K,4000K,3000K	5W/m	500 lm/m	60
BF1200-IN	6500K,4000K,3000K	12W/m	1200 lm/m	120
BF400s-G3	6500K, 4000K, 3000K, 2700K	3.5W/m	430 lm/m	120
BF800s-G3	6500K, 4000K, 3000K, 2700K	6.5W/m	830 lm/m	120
BF1200s-G3	6500K, 4000K, 3000K, 2700K	9.5W/m	1170 lm/m	120
BF1500s-G3	8000K,6500K,4000K,3000K,2700K	12.5W/m	1530 lm/m	120



Outdoor Application | 3 year warranty

IP65  Length 5 m

Description	Color Temp.(K)	Watt/Meter	Lumen/meter	LED/meter
BFP400s-G3	6500K,4000K,3000K , 2700K	3.5W/m	400 lm/m	120
BFP800s-G3	6500K,4000K,3000K , 2700K	6.5W/m	770 lm/m	120
BFP1200s-G3	6500K,4000K,3000K , 2700K	9.5W/m	1090 lm/m	120
BFP1500s-G3	8000K,6500K,4000K,3000K,2700K	12.5W/m	1420 lm/m	120

Power Supply

Indoor Application

Description	Volt.	Wattage	IP	Warranty
Fighter Neo LD24/220-240	12V / 24V	24W	IP120	2 Year
Fighter Neo LD24/220-240	12V / 24V	60W	IP120	2 Year
Element 30/220-240	12V / 24V	30W	IP120	3 Year
Element 60/220-240	12V / 24V	60W	IP120	3 Year
Element 120/220-240	12V / 24V	120W	IP120	3 Year
Element 180/220-240	12V / 24V	180W	IP120	3 Year



Outdoor Application

Description	Volt.	Wattage	IP	Warranty
Fighter Pro 60/220-240/12EP	12V	60W	IP65	3 Year
Fighter Pro 100/220-240/12EP	12V	100W	IP65	3 Year
Fighter Pro 150/220-240/12EP	12V	150W	IP65	3 Year
OT 40/220-240	24V	40W	IP67	5 Year
OT FIT 60/220-240	12V	60W	IP67	5 Year
OT FIT 80/220-240	24V	80W	IP67	5 Year
OT FIT 150/220-240	12V/24V	150W	IP67	5 Year
OT FIT 200/220-240	24V	200W	IP67	5 Year
OT FIT 300/220-240	12V/24V	300W	IP67	5 Year



SPD

Surge Protection Device

Description	Surge Protection	IP Rating	Application
	10KV	IP66	Outdoor
	20KV	IP66	Outdoor



Bringing Magic into light boxes: BoxLED® Plus

Brilliant side-lighting technology for single-sided and double-sided light boxes



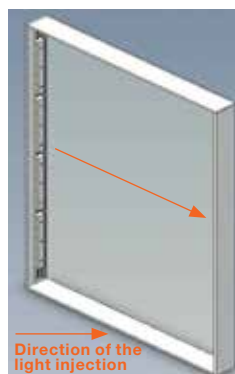
BoxLED® Plus* modules were developed for side injection into single-sided and double-sided light boxes which are painted or coated matt white inside, while elliptical optics provide homogeneous light distribution in the interior. Precise optical control also avoids hot spots and color rings at edges.

According to the size of the light boxes and the required amount of light, the modules can be placed on one side, on two sides or even around all four sides (see the illustrations below).

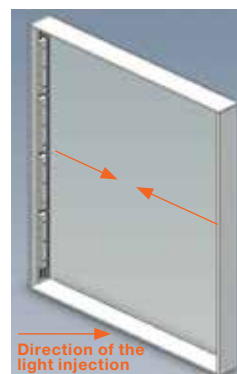
The product range at a glance:

BoxLED® M Plus G3

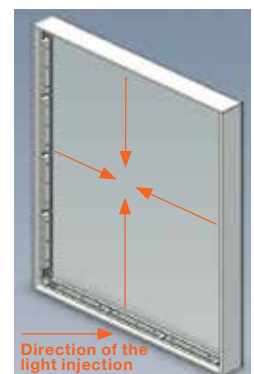
BoxLED® XS Plus G3



Single-sided light injection
For low luminance



Double-sided light injection
For medium luminance



Four-sided light injection
For high luminance

* All products of the BoxLED® Plus family comply with energy efficiency class A or higher

* Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.



LED deSIGNer

By entering only some basic data in the online software LED deSIGNer automatically calculates the exact number of components of LED modules, LED drivers and mounting profiles for a given application.

Tool [https : //www.inventronics-light.com/online-tools](https://www.inventronics-light.com/online-tools)

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