Product datasheet

# BA-AR-G1 900 540X270 940

BackLED Area White | LED modules for light advertising and backlighting



## Product family features

- 24 V constant voltage LED modules
- Color temperature: 2,700 K, 3,000 K or 4,000 K
- Color rendering index $R_a$: > 90
- Consistent white light: 3 SDCM
- Constant LED pitch even at board interconnections
- Cuttable, single board for an exact fit in any installation

## Product family benefits

- Provides homogenous light suitable for application in area luminaires
- Quick and easy mounting thanks to plastic holder
- Easy wiring with push-in connectors
- Low energy consumption and less heat generation
- Optimal operation on OPTOTRONIC 24VDC and 24VDC dimmable power supplies

## Areas of application

- Area lighting
- Light ceilings
- Hospitality, hotels, restaurants
- Museums, art galleries
- Individual and customized luminaires
- Backlighting shallow box signs





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Technical data

## Electrical data

| | |
|---|---|
| **Nominal voltage** | 24.0 V |
| **Nominal wattage per LED module** | 8,6 W |
| **Accidental reverse input voltage protection up to** | 25 V |
| **Input voltage range** | 23…25 V |
| **Type of current** | DC |
| **Rated wattage** | 8.90 W |
| **Nominal wattage** | 8.90 W |
| **Nominal current** | 0.37 A |

## Photometrical data

| | |
|---|---|
| **Light color (designation)** | Neutral White |
| **Light color LED** | Neutral white |
| **Luminous efficacy** | 110 lm/W |
| **Standard deviation of color matching** | ≤3 sdcm |
| **Color temperature** | 4000 K |
| **Color rendering index Ra** | >90 |
| **Luminous flux per LED module** | 950 lm |
| **Luminous flux per LED module at Tc 25 °C** | 950 lm |
| **Nom. useful luminous flux 120°** | 950 lm |
| **Rated useful luminous flux 120°** | 950 lm |
| **Total useful luminous flux** | 950 lm |

## Light technical data

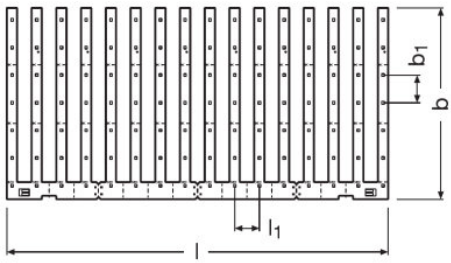
| | |
|---|---|
| **Starting time** | < 1.0 s |
| **Warm-up time (60 %)** | < 2.00 s |

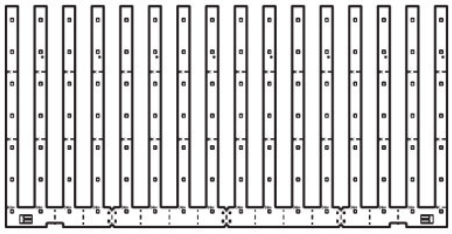
## LED module information

| | |
|---|---|
| **Number of LEDs per module** | 112 |
| **Minimum operable number of LED modules** | 1 |


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## Dimensions & weight



| | |
|---|---|
| **Product weight** | 188.00 g |
| **Length** | 540.0 mm |
| **Width** | 270.0 mm |
| **Height** | 3.00 mm |

## Temperatures & operating conditions

| | |
|---|---|
| **Temperature range in operation at Tc point** | -25…75 °C |
| **Temperature range at storage** | -30…80 °C |
| **Performance temp. acc. to IEC 62717** | 40 °C |

## Lifespan

| | |
|---|---|
| **Number of switching cycles** | 30000 |
| **Rated lamp life time** | 60000 h |
| **Nominal lamp life time** | 60000 h |

## Additional product data

| | |
|---|---|
| **ID of contained light source** | LS_TRV_285780 |

## Capabilities

| | |
|---|---|
| **Dimming range** | 1…100 % |

## Certificates & standards

| | |
|---|---|
| **Energy consumption** | 10 kWh/1000h |
| **Type of protection** | IP00 |
| **Standards** | CE |
| **Approval marks – approval** | CE |
| **Energy efficiency class of the contained light source** | F |


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## Logistical data

| | |
|---|---|
| **Commodity code** | 85395100000 |

## Environmental information

| **Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)** | |
|---|---|
| **Date of Declaration** | 23-05-2022 |
| **Primary Article Identifier** | 4062172124799 |
| **Candidate List Substance 1** | No declarable substances contained |
| **Declaration No. in SCIP database** | No declarable substances contained |

## Download Data

| | File |
|---|---|
| | User instruction<br>BackLED Area G1 |
| | Brochures<br>Technical application guide BackLED and BoxLED portfolio (EN) |

## Ecodesign regulation information:

- This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.
- Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.
- In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer.
- Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

## Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4062172124799 | BA-AR-G1 900 540X270 940 | Shipping carton box<br>16 | 605 mm x 307 mm x 333 mm | 61.85 $dm^3$ | 4938.00 g |


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## Logistical Data

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 |
|---|---|---|
| BA-AR-G1 900 540X270 940 | BA -BAR 16PICS KIT | 4062172197168 |

## Disclaimer

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


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