



Technical details

Product No.	A41B24080Axx	A41B24128Axx	A41B24160Axx
Led Q.ty (LEDs/m)	80	128	160
Led Type	2835	2835	2835
Power (W/M)	12	16	20
Voltage (V)	24 ±3%	24 ±3%	24 ±3%
Current (mA/M)	500mA	666mA	833mA
CRI (Ra)	≥ 80	≥ 80	≥ 80
Lenght/Reel (M)	5	5	5
Beam	120°	120°	120°
Water-proof rating	IP65	IP65	IP65

Non-directional or directional light source:	Non-directional (NDLS)
Mains or non-mains light source:	Non-mains (NMLS)
Dimmable:	Only with specific LED drivers
Cables type:	PVC 80°C 20AWG lenght 36cm (double ended)
Pcb material:	COPPER
Tape type:	3M 9080
Energy rating:	E (EU 2019/2015) *
Protection against electric shock:	Class III
Version:	Integral
Safety isolating:	See electronic controlgear
Lumen maintenance factor:	96%
Survival factor:	100%
Nominal lifetime LM-80:	L70 B50 >54000 h
Photobiological Safety (Blue light hazard) according to IEC TR 627778:	Risk Exempt (RG0 group)

*Energy class is calculated according to Spectrum test measurements

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Lumens per meter

Color Temperature	A41B24080Axx	A41B24128Axx	A41B24160Axx
2700K	1460 lm	1950 lm	2380 lm
3000K	1590 lm	2040 lm	2540 lm
4000K	1690 lm	2260 lm	2840 lm

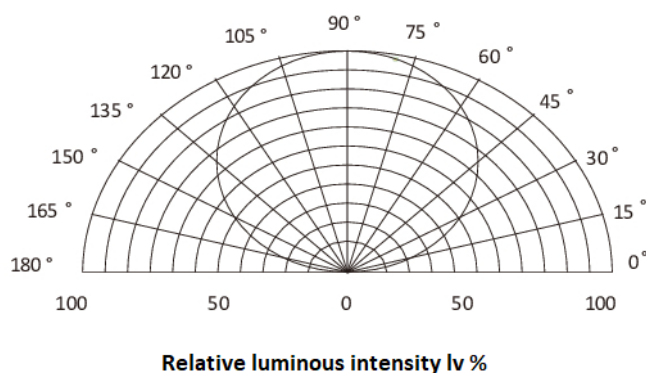
● Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Efficacy

Color Temperature	A41B24080Axx	A41B24128Axx	A41B24160Axx
2700K	122 lmW	122 lmW	119 lmW
3000K	133 lmW	128 lmW	127 lmW
4000K	141 lmW	141 lmW	142 lmW

● Note: “xx”=“27”(2700K)/“30”(3000K)/“40”(4000K)

Light distribution

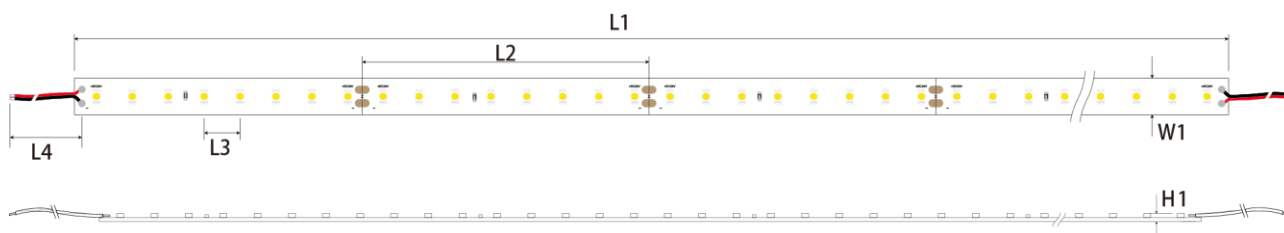


Working conditions

Working Temperature (°C)	-20 ÷ 50
Storage Temperature (°C)	-30 ÷ 80
Voltage Range (Vdc)	23 ÷ 25
Reverse Voltage (Vdc)	25
Reference temperature (Tc)	80° C

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Dimensions



Dimensions	A41B24080Axx	A41B24128Axx	A41B24160Axx	Tolerance
L1(mm)	5004	5004	5004	± 10
L2(mm)	100 (8 LED)	62,50 (8 LED)	50 (8 LED)	± 1
L3(mm)	12.5	7.8	6.3	± 0.2
L4(mm)	360	360	360	± 5
W1(mm)	10	10	10	± 0.1
H1(mm)	1.4	1.4	1.4	± 0.1

Weight/5m reel

A41B24080Axx	230 gr.
A41B24128Axx	230 gr.
A41B24160Axx	240 gr.

Energy labelling (EU 2019/2015) and Ecodesign (EU 2019/2020) regulations

Part Number	N° EPREL	EU 2019/2015 Energy rating	EU 2019/2020 Compliance
A41B24080A27 – 2700K	944759	E	COMPLIANT
A41B24080A30 – 3000K	945024	E	COMPLIANT
A41B24080A40 – 4000K	945032	E	COMPLIANT
A41B24128A27 – 2700K	946309	E	COMPLIANT
A41B24128A30 – 3000K	946340	E	COMPLIANT
A41B24128A40 – 4000K	946381	E	COMPLIANT
A41B24160A27 – 2700K	884121	E	COMPLIANT
A41B24160A30 – 3000K	884151	E	COMPLIANT
A41B24160A40 – 4000K	884174	E	COMPLIANT

The scan of the QR Code on the energy label of the product refers directly to the description of the model in the EPREL (EU Product Database for Energy Labelling) database, where it is possible to download the energy labels and the information sheet of the product.

In alternative, it is possible to access the database using the model registration number (EPREL ID), which you can obtain from the product supplier.

Just insert in the browser the link <https://eprel.ec.europa.eu/screen/product/lightsources/> and add the EPREL ID after the last slash.



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Safety warning

- Install in accordance with national standards and local electrical codes.
- This product must be installed and maintained by a qualified electrician.
- Only install it with Class 2 DC constant voltage driver, do not use this product if it does not comply with Class 2 standard.
- The power of drive must meet the output of the rated power, and do not exceed the specified output power.
- Use a cable with rated temperature at least 80 ° C and be certified for external connection of the electrical equipment.
- Improper electrical installation may cause the cable to overheat and cause a fire. Please use a suitable cable between the driver, the lamp, and the controller. When selecting a wire, the voltage and current must meet the rated values.
- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- To avoid mechanical damage, the LED modules should be mounted securely to the intended substrate. Heavy vibration should be avoided.
- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Observe correct polarity! Incorrect polarity will lead to no light emission and may cause damage of the LED module.
- Parallel connection is highly recommended as safe electrical operation mode. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED module.
- When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation at soldering points between module and the mounting surface.
- Pay attention to ESD steps when mounting the module.
- Please ensure that the power supply is of adequate power to operate the total load.
- Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable protection class.
- This product is not resistant to vulcanization, LED vulcanization damage will not be compensated. It is the responsibility of the user to provide appropriate protection against harmful sulphide components.