



Technical details

Product No.	A41ES24600xx	A41ES24120xx	A41ES24180xx	A41ES24240xx
Led Q.ty (LEDs/m)	60	120	180	240
Led Type	2835	2835	2835	2835
Power (W/M)	4,8	9,6	14,4	19,2
Voltage (V)	24 ±3%	24 ±3%	24 ±3%	24 ±3%
Current (mA/M)	200	400	600	800
CRI (Ra)	≥ 80	≥ 80	≥ 80	≥ 80
Lenght/Reel (M)	5	5	5	5
Beam	120°	120°	120°	120°
Water-proof rating	IP20	IP20	IP20	IP20

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:	F (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 62778:	Risk Exempt (RG0 group)

*Energy class is calculated according to Spectrum test measurements

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Lumens per meter

Color Temperature	A41ES24600xx	A41ES24120xx	A41ES24180xx	A41ES24240xx
3000K	540 lm	1050 lm	1550 lm	2060 lm
4000K	560 lm	1120 lm	1630 lm	2160 lm

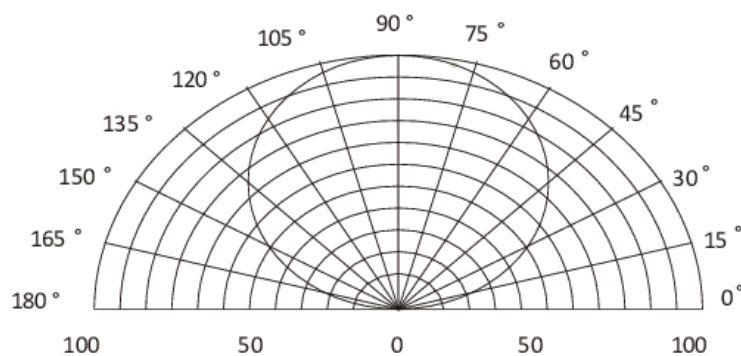
● Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Efficacy

Color Temperature	A41ES24600xx	A41ES24120xx	A41ES24180xx	A41ES24240xx
3000K	113 lmW	109 lmW	108 lmW	107 lmW
4000K	117 lmW	117 lmW	113 lmW	113 lmW

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

Light distribution



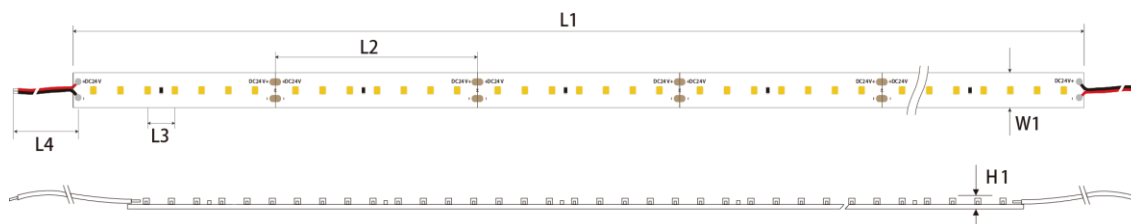
Relative luminous intensity lv %

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	A41ES24600xx	A41ES24120xx	A41ES24180xx	A41ES24240xx	Tolerance
L1(mm)	5004	5004	5004	5004	± 10
L2(mm)	100	50	33.3	25	± 1
L3(mm)	16.7	8.3	5.6	4.2	± 0.2
L4(mm)	360	360	360	360	± 5
W1(mm)	8	8	10	10	± 0.1
H1(mm)	1.4	1.4	1.4	1.4	± 0.1

Weight/5m reel

A41ES24600xx	100 gr.
A41ES24120xx	105 gr.
A41ES24180xx	135 gr.
A41ES24240xx	155 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
A41ES2460030 – 3000K	982345	F	COMPLIANT
A41ES2460040 – 4000K	982347	F	COMPLIANT
A41ES2412030 – 3000K	949018	F	COMPLIANT
A41ES2412040 – 4000K	949065	F	COMPLIANT
A41ES2418030 – 3000K	949068	F	COMPLIANT
A41ES2418040 – 4000K	949071	F	COMPLIANT
A41ES2424030 – 3000K	982326	F	COMPLIANT
A41ES2424040 – 4000K	982327	F	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.



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

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.