



### Technical details

| Product No.        | A41H240700xx | A41H241400xx | A41H242100xx | A41H242520xx |
|--------------------|--------------|--------------|--------------|--------------|
| Led Q.ty (LEDs/m)  | 70           | 140          | 210          | 252          |
| Led Type           | 2835         | 2835         | 2835         | 2835         |
| Power (W/M)        | 4,8          | 9,6          | 14,4         | 18           |
| Voltage (V)        | 24 ±3%       | 24 ±3%       | 24 ±3%       | 24 ±3%       |
| Current (mA/M)     | 200          | 400          | 600          | 750          |
| 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:   | <b>F/E/D/C</b> (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

### Lumens per meter

| Color Temperature | A41H240700xx | A41H241400xx | A41H242100xx | A41H242520xx |
|-------------------|--------------|--------------|--------------|--------------|
| 2200K             | //           | 970 lm       | //           | //           |
| 2400K             | 580 lm       | 1250 lm      | //           | 2280 lm      |
| 2700K             | 630 lm       | 1306 lm      | 1890 lm      | 2320 lm      |
| 3000K             | 658 lm       | 1332 lm      | 1970 lm      | 2360 lm      |
| 4000K             | 732 lm       | 1380 lm      | 2040 lm      | 2460 lm      |
| 5000K             | //           | 1800 lm      | //           | //           |
| 6000K             | 690 lm       | 1700 lm      | 2210 lm      | 2520 lm      |

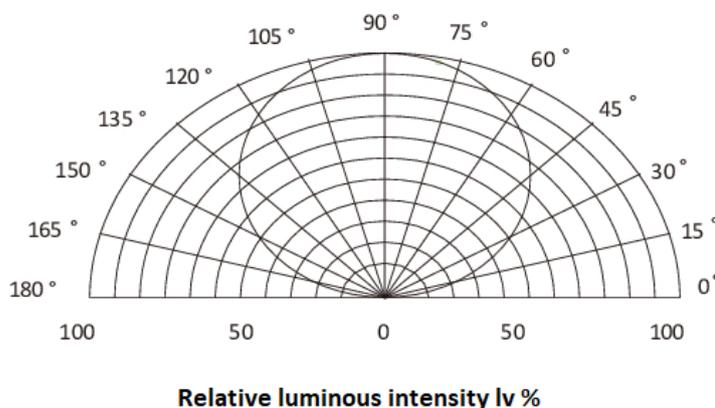
• Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

### Efficacy

| Color Temperature | A41H240700xx | A41H241400xx | A41H242100xx | A41H242520xx |
|-------------------|--------------|--------------|--------------|--------------|
| 2200K             | //           | 101 lmW      | //           | //           |
| 2400K             | 121 lmW      | 130 lmW      | //           | 127 lmW      |
| 2700K             | 131 lmW      | 136 lmW      | 131 lmW      | 129 lmW      |
| 3000K             | 137 lmW      | 139 lmW      | 137 lmW      | 131 lmW      |
| 4000K             | 153 lmW      | 144 lmW      | 142 lmW      | 137 lmW      |
| 5000K             | //           | 188 lmW      | //           | //           |
| 6000K             | 144 lmW      | 177 lmW      | 153 lmW      | 140 lmW      |

• Note: "xx"=CCT "22"(2200K)/"24"(2400K)/"27"(2700K)/"30"(3000K)/"40"(4000K)/"50"(5000K) / "60"(6000K)

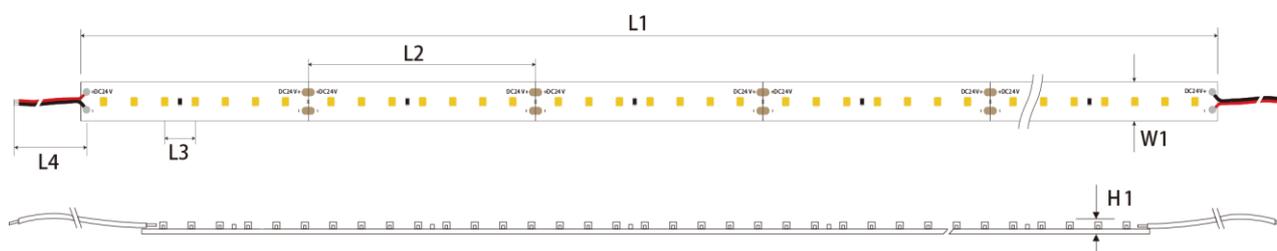
### Light distribution



## 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    |

## Dimensions



| Dimensions | A41H240700xx | A41H241400xx | A41H242100xx | A41H242520xx | Tolerance |
|------------|--------------|--------------|--------------|--------------|-----------|
| L1(mm)     | 5004         | 5004         | 5004         | 5004         | ± 10      |
| L2(mm)     | 100 (7 LED)  | 50 (7 LED)   | 33.3 (7 LED) | 27.8 (7 LED) | ± 1       |
| L3(mm)     | 14.3         | 7.1          | 4.8          | 4.0          | ± 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

|              |         |
|--------------|---------|
| A41H240700xx | 100 gr. |
| A41H241400xx | 125 gr. |
| A41H242100xx | 150 gr. |
| A41H242520xx | 175 gr. |

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

| <b>Part Number</b>   | <b>N° EPREL</b> | <b>EU 2019/2015<br/>Energy rating</b> | <b>EU 2019/2020<br/>Compliance</b> |
|----------------------|-----------------|---------------------------------------|------------------------------------|
| A41H24070024 – 2400K | 994915          | E                                     | COMPLIANT                          |
| A41H24070027 – 2700K | 890553          | E                                     | COMPLIANT                          |
| A41H24070030 – 3000K | 842232          | E                                     | COMPLIANT                          |
| A41H24070040 – 4000K | 842251          | D                                     | COMPLIANT                          |
| A41H24070060 – 6000K | 890561          | E                                     | COMPLIANT                          |
| A41H24140022 – 2200K | 998466          | F                                     | COMPLIANT                          |
| A41H24140024 – 2400K | 994940          | E                                     | COMPLIANT                          |
| A41H24140027 – 2700K | 842507          | E                                     | COMPLIANT                          |
| A41H24140030 – 3000K | 842511          | E                                     | COMPLIANT                          |
| A41H24140040 – 4000K | 842533          | E                                     | COMPLIANT                          |
| A41H24140050 – 5000K | 890646          | C                                     | COMPLIANT                          |
| A41H24140060 – 6000K | 842972          | C                                     | COMPLIANT                          |
| A41H24210027 – 2700K | 842577          | E                                     | COMPLIANT                          |
| A41H24210030 – 3000K | 842591          | E                                     | COMPLIANT                          |
| A41H24210040 – 4000K | 842602          | E                                     | COMPLIANT                          |
| A41H24210060 – 6000K | 892713          | D                                     | COMPLIANT                          |
| A41H24252024 – 2400K | 994969          | E                                     | COMPLIANT                          |
| A41H24252027 – 2700K | 842625          | E                                     | COMPLIANT                          |
| A41H24252030 – 3000K | 842635          | E                                     | COMPLIANT                          |
| A41H24252040 – 4000K | 894342          | E                                     | COMPLIANT                          |
| A41H24252060 – 6000K | 894367          | 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.

## 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.