

## FEATURES:

- even light diffusion
- section cut length: 25 mm
- quick and easy installation thanks to the flexible base
- high light output and energy efficiency
- very good optical parameters: CRI >80
- full colour space reproduction (Colour Gamut Index): >90
- high durability and service life – over 100 000 h at 25°C
- warranty: 3 lata

## APPLICATIONS:

- lighting for advertisements, shop windows, display cases, and exhibitions
- decorative lighting for mirrors, shelves and niches
- furniture and kitchen lighting
- interior lighting: rooms, corridors, living spaces
- illumination of false ceilings and stairs
- workstation lighting
- lighting for museum exhibitions and galleries
- interior lighting for vehicles, cabs and trailers
- decorative lighting for plants and aquaria
- edge lighting of transparent plastics

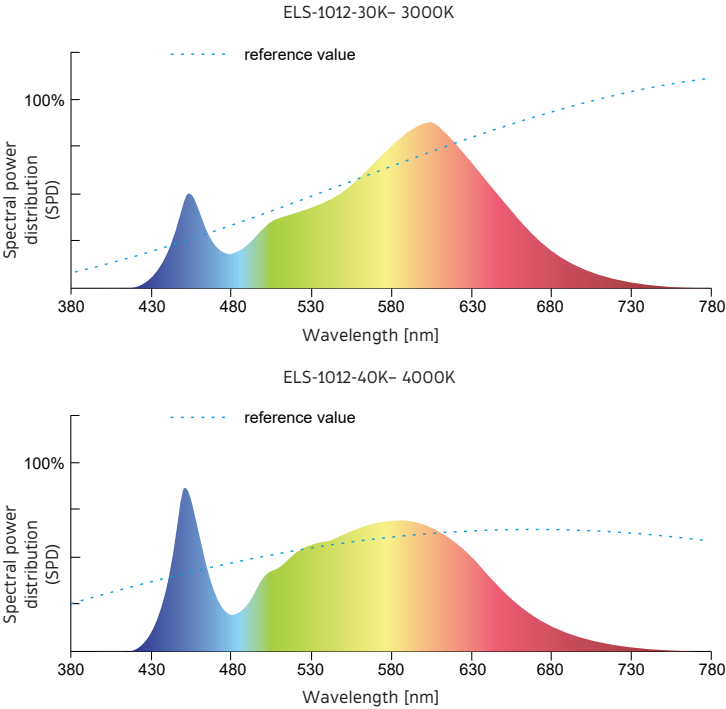


**ELS-1012** LED strips are high quality strips designed for decorative and professional purpose. The high colour rendering index CRI >80 ensures faithful representation of the colours of the illuminated objects. They are made of high-quality components on a double-sided flexible laminate, which ensures longer life and better protection against mechanical damage. The LED SMD diodes (120 per metre) ensure an even distribution of light, with no blackouts, discolouration or colour artifacts. The strips guarantee a long service life and long trouble-free operation even at elevated temperatures.

## TECHNICAL SPECIFICATION

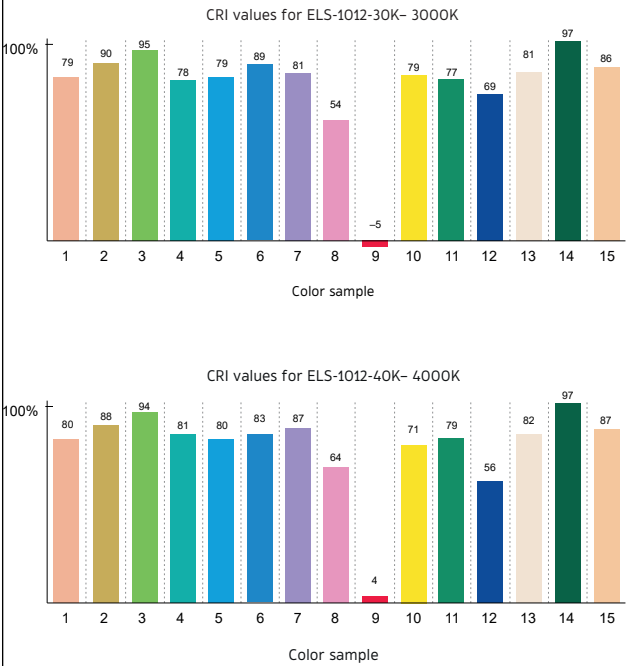
| Group                         | Parameter                                              | ELS-1012-30K20            | ELS-1012-40K20 |
|-------------------------------|--------------------------------------------------------|---------------------------|----------------|
| Electrical parameters         | Rated power supply voltage                             | 12 V                      |                |
|                               | Power consumption for 1 meter                          | 9.6 W/m                   |                |
|                               | Current for 1 meter                                    | 0.8 A                     |                |
|                               | Energy consumption during 1000 h of operation          | 9.6 kWh                   |                |
|                               | Protection class against electrical shock              | II                        |                |
|                               | Works with PWM dimmers                                 | Yes                       |                |
| Optical parameters            | Light color                                            | Warm                      | Neutral        |
|                               | Correlated color temperature (CCT)                     | 3000 K                    | 4000 K         |
|                               | Luminous flux per meter (typical)                      | 1060 lm                   | 1080 lm        |
|                               | Light output per watt (typical)                        | 110 lm/W                  | 112 lm/W       |
|                               | Color Rendering Index CRI (min)                        | 80                        |                |
|                               | Red Color Reproduction Ratio (R9)                      | -5                        | 4              |
|                               | Color space (Color Gamut Index)                        | 90                        | 91             |
|                               | CIE1931 chromaticity (x and y) coordinates             | 0.4257; 0.4028            | 0.3679; 0.3735 |
| Mechanical features           | ErP energy class                                       | F                         |                |
|                               | LED type                                               | 2835                      |                |
|                               | Number of LEDs per meter                               | 120                       |                |
|                               | Cutting section length                                 | 25 mm                     |                |
|                               | Adhesive tape type                                     | 3M thermally conductive   |                |
|                               | Tape width                                             | 8 mm                      |                |
|                               | Tape height                                            | 1.6 mm                    |                |
|                               | FPC flexible substrate laminate (copper thickness)     | 0.35 mm 3 oz              |                |
|                               | Minimum bent radius                                    | 60 mm                     |                |
|                               | The color of the protective mask for the FPC substrate | White                     |                |
| Environmental characteristics | Beam angle                                             | 120                       |                |
|                               | Ingress protection class                               | IP20                      |                |
|                               | For indoor use                                         | Yes                       |                |
|                               | Length of connecting wires                             | 12 cm                     |                |
|                               | Operating temperature range                            | -20 to 40°C               |                |
|                               | Lifetime L80 at 40°C                                   | 60000                     |                |
|                               | Lifetime L80 at temp 25°C                              | 100000                    |                |
|                               | Declarations and certificates                          | CE, RoHS, UKCA, REACH     |                |
|                               | Number of meters per roll                              | 25 m                      |                |
|                               | Packaging                                              | Antistatic bag 420×380 mm |                |
|                               | Manufacturing                                          | China                     |                |
|                               | Warranty                                               | 3 years                   |                |
|                               | EAN                                                    | 5904139613351             | 5904139613863  |

SPECTRAL ENERGY DISTRIBUTION



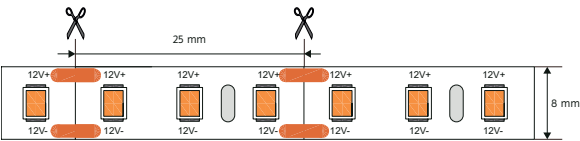
Spectral energy distribution for the ELS-1012 version.  
Photometric files (e.g LDT) and measurement data of all ELS series tapes are available on request.

CRI COMPONENT VALUES



CRI component values for two ELS tapes.  
Data for other versions are available on request.

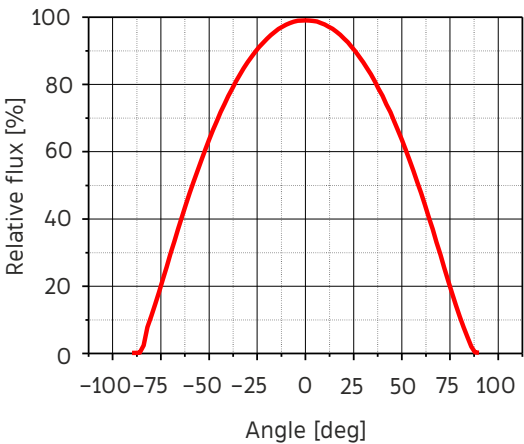
LED ARRANGEMENT ON THE TAPE



WHITE LIGHT NAMES AND CCT

| Shades of white light and their names |                          |                                                 |
|---------------------------------------|--------------------------|-------------------------------------------------|
| 2300 K                                | Ultrawarm                | Warm light perfect for home comfort             |
| 2700 K                                | Sunrise                  | Very warm light creating a cozy atmosphere      |
| 3000 K                                | Warm white               | Warm light perfect for home comfort             |
| 3500 K                                | Ultrawarm                | A subtle balance between warm and neutral light |
| 4000 K                                | Moonlight, neutral white | Neutral light conducive to concentration        |
| 5000 K                                | Daylight, cold white     | Bright, cool light that enlivens the space      |
| 6000 K                                | Coolwhite                | Cool, intense light resembling daylight         |

LIGHT EMISSION ANGLE



AVAILABLE VARIANTS

| Variant  | Model          | Correlated color temperature (CCT) |
|----------|----------------|------------------------------------|
| ELS-0512 | ELS-0512-30K20 | 3000 K                             |
|          | ELS-0512-40K20 | 4000 K                             |
|          | ELS-0512-65K20 | 6 500 K                            |
| ELS-1012 | ELS-1012-30K20 | 3000 K                             |
|          | ELS-1012-40K20 | 4000 K                             |

LABEL

**FLEXIBLE LED STRIP LIGHTS**  
PROFESSIONAL GRADE

**MODEL: ELS-1012-30K20**

Voltage: 12 V (CV)  
Power: 9.6 W/m  
Color (CCT): 3000 K, warm white  
CRI: > 80  
Output: > 1060 lumens/m, 110 lm/W  
Beam angle: 120°  
Lifespan: L80>60 000 h @ 40°C

Size: 8 mm × 1.5 mm  
Length: 25 m  
Density: 120 LED/m  
Dimmable: Yes  
Cut points: 25 mm  
Technology: SMD 2835

**IP20**

Amicus sp. z o.o. 19 Kwietnia 31  
05-090 Raszyn-Rybie, Poland  
Batch code: A0025.1925