

### FEATURES:

- high light output and energy efficiency
- section cut length: 50 mm
- number of LEDs: 60 LED/m
- width 8 mm
- very good optical parameters: CRI >80
- high durability and service life – over 60 000 h at 25°C
- warranty: 3 years

### APPLICATIONS:

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

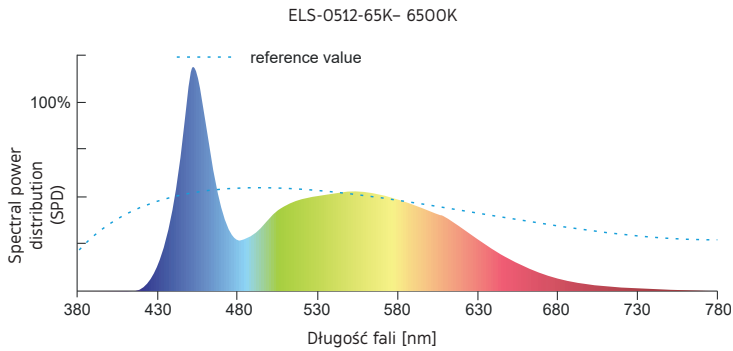
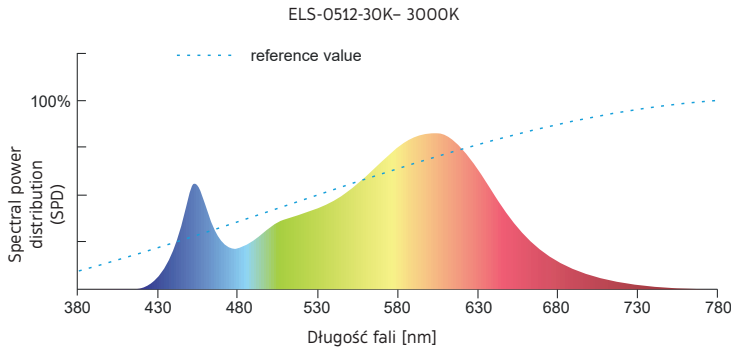


**ELS-0512** (4.4 W/m) is a low-power SMD LED strip, ideal for decorative applications where high light intensity is not required. The wide choice of colour temperatures (3000 / 4000 / 6500 K) allows the lighting to be matched precisely to different needs and conditions, providing comfort and creating the right atmosphere in any situation. The high colour rendering index (CRI > 80) ensures natural colour reproduction 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 strips guarantee a high repeatability of light emission and colour and long trouble-free operation even at elevated temperatures.

### TECHNICAL SPECIFICATION

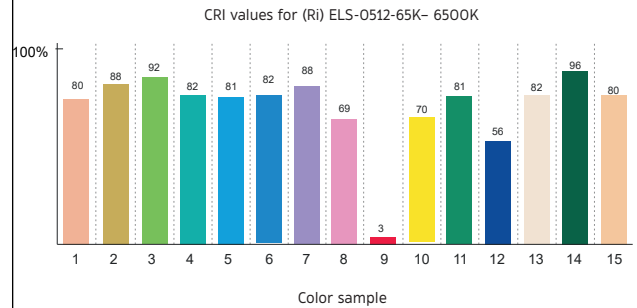
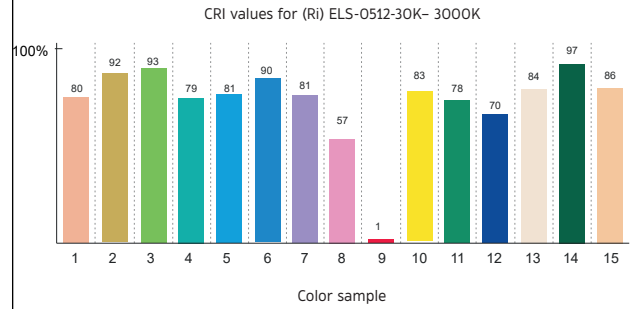
Group	Parameter	ELS-0512-30K20	ELS-0512-40K20	ELS-0512-65K20
Electrical parameters	Rated power supply voltage	12 V		
	Power consumption for 1 meter	4,4 W		
	Current for 1 meter	0.365 A		
	Energy consumption during 1000 h of operation	5 kWh		
	Protection class against electrical shock	II		
	Works with PWM dimmers	Yes		
Optical parameters	Light color	Warm	Neutral	Cold
	Correlated color temperature (CCT)	3000 K	4000 K	6500 K
	Luminous flux per meter (typical)	480	490	465
	Light output per watt (typical)	110	112	105
	Color Rendering Index CRI (min)	80	80	80
	Red Color Reproduction Ratio (R9)	1	-2	3
	Color space (Color Gamut Index)	90	90	89
	CIE1931 chromaticity (x and y) coordinates	0.4159 0.3945	0.3742 0.3821	0.3045 0.3260
ErP energy class	E			
Mechanical features	LED type	2835		
	Number of LEDs per meter	60		
	Cutting section length	50 mm		
	Adhesive tape type	3M 55230H		
	Tape width	8 mm		
	Tape height	1.6		
	FPC flexible substrate laminate (copper thickness)	2 ounces		
	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	36000 h		
	Lifetime L80 at temp 25°C	60000 h		
	Declarations and certificates	CE, RoHS, UKCA, REACH		
	Number of meters per roll	50 m		
	Packaging	Antistatic bag		
	Manufacturing	China		
Warranty	3 years			
EAN	5904139614594	5904139614600	5904139614617	

## SPECTRAL ENERGY DISTRIBUTION



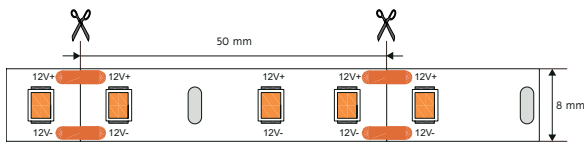
Spectral energy distribution for ELS-0512-30K-3000K and ELS-0512-65K-6500K. Photometric files (e.g LDT) and measurement data of all ELS-0512 series tapes are available on request.

## CRI COMPONENT VALUES



CRI component values for ELS-0512-30K-3000K and ELS-0512-65K-6500K Data for other versions are available on request.

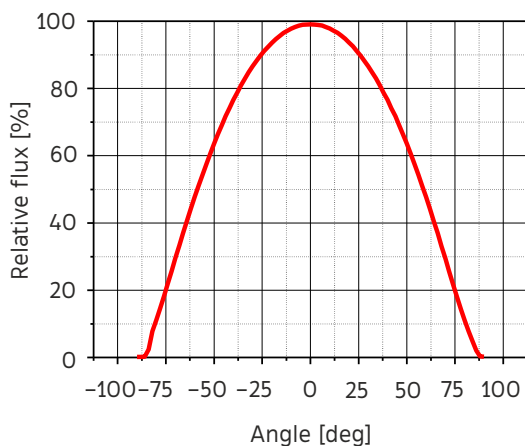
## LED ARRANGEMENT ON THE TAPE



## 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	6500 K
ELS-1012	ELS-1012-30K20	3000 K
	ELS-1012-40K20	4000 K

## LABEL

**FLEXIBLE LED STRIP LIGHTS**  
PROFESSIONAL GRADE

Amicus Sp. z o.o.  
ELS-0512-30K20

**MODEL: ELS-0512-30K20**

Scan QR for specification or visit: <https://espe.co.uk/pdf>

Voltage: 12 V (CV)  
Power: 4.4 W/m  
Color (CCT): 3000 K, warm white  
CRI: > 80  
Output: 480 lumens/m, 110 lm/W  
Beam angle: 120°  
Lifespan: L80>36000 h @ 40°C

Size: 8 mm × 1.5 mm  
Length: 50 m  
Density: 60 LED/m  
Dimmable: Yes  
Cut points: 50 mm  
Technology: SMD 2835

Made in China

Batch code: A08E28E5