

FEATURES:

- even light diffusion – no visible LED spots
- 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 >90
- full colour space reproduction (Colour Gamut Index): >97
- high durability and service life – over 100 000 h at 25°C
- warranty: 5 years

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

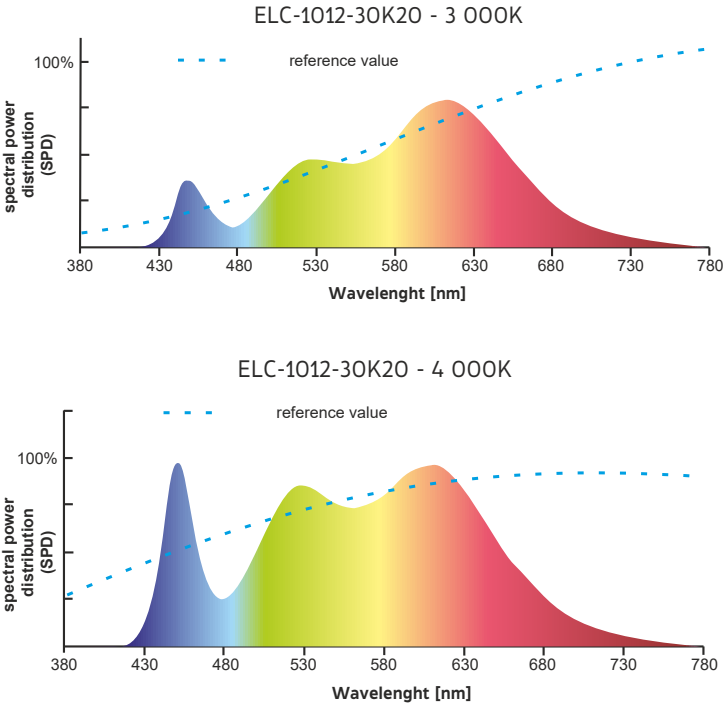


ELC-1012 LED strips are high quality strips designed for professional use. The very high colour rendering index CRI ensures faithful representation of the colours of the illuminated objects. They are made of high-quality components on a double-sided flexible laminate, which ensures longer life and better protection against mechanical damage. The COB LEDs (320 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

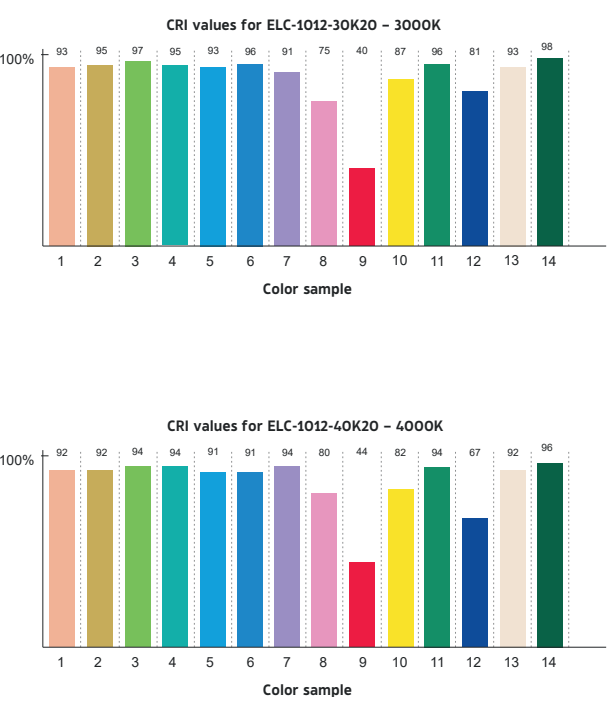
Group	Parameter	ELC-1012-30K20	ELC-1012-40K20
Electrical parameters	Rated power supply voltage	12 V	
	Power consumption for 1 meter	8.5 W/m	
	Current for 1 meter	0.7 A	
	Energy consumption during 1000 h of operation	8.5 kWh	
	Protection class against electrical shock	II	
	Works with PWM dimmers	Yes	
Optical parameters	Light color	Warm	Neutral
	Correlated color temperature (CCT)	3000 K	4000 K
	Luminous flux per meter (typical)	750 lm	820 lm
	Light output per watt (typical)	88 lm/W	96 lm/W
	Color Rendering Index CRI (min)	90	
	Red Color Reproduction Ratio (R9)	40	44
	Color space (Color Gamut Index)	98	97
	CIE1931 chromaticity (x and y) coordinates	0.4397; 0.4122	0.3807; 0.3903
	ErP energy class	F	
Mechanical features	LED type	COB	
	Number of LEDs per meter	320	
	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	
	Beam angle	120	
Environmental characteristics	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	10 m	
	Packaging	Antistatic bag - 210×235 mm	
	Manufacturing	China	
	Warranty	5 years	
	EAN	5904139613849	5904139613856

SPECTRAL ENERGY DISTRIBUTION



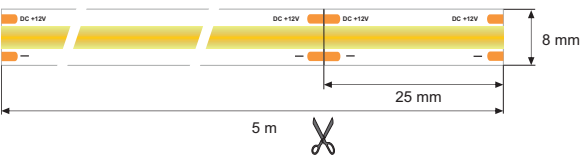
Spectral energy distribution for the ELC-1012 version.
Photometric files (e.g LDT) and measurement data of all ELC series tapes are available on request.

CRI COMPONENT VALUES



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

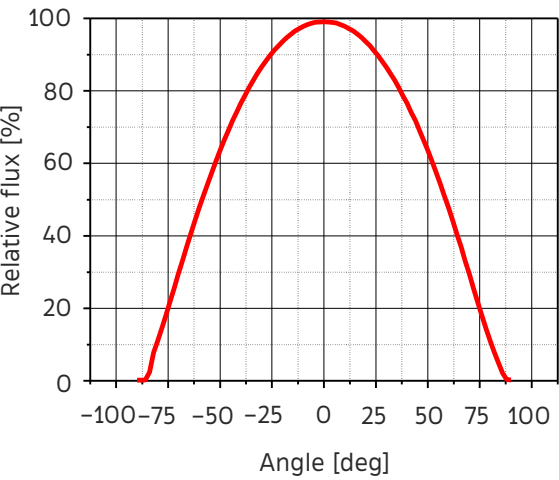
LED ARRANGEMENT ON THE TAPE



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)
ELC-0612	ELC-0612-30K20	3000 K
	ELC-0612-40K20	4000 K
ELC-1012	ELC-1012-30K20	3000 K
	ELC-1012-40K20	4000 K


LABEL

**FLEXIBLE LED STRIP LIGHTS**
PROFESSIONAL GRADE


MODEL: ELC-1012-30K20

Voltage: 12 V (CV)
Power: 8.5 W/m
Color (CCT): 3000 K, warm white
CRI: > 90 (92 typical)
Output: 750 lumens/m, 88 lm/W
Beam angle: 120°
Lifespan: L80>60 000 h @ 40°C





Size: 8 mm × 1.6 mm
Length: 10 m
Density: 320 LED/m
Dimmable: Yes
Cut points: 25 mm
Technology: COB



Scan QR for specification
or visit: <https://espe.cc/bf.pdf>



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Made in China