

# ELC-0612-30K20



- Professional COB LED strip 6 W/m, 8 mm wide

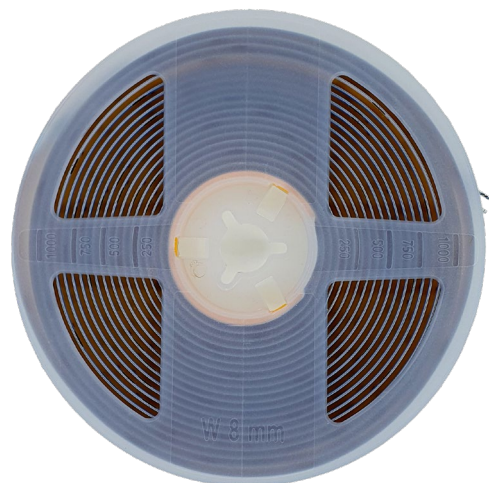
The **ELC-0612-30K20** LED strip of low power (6 W/m) of high quality is designed for professional use. A very high CRI color rendering index ensures very good reproduction of the colors of the illuminated objects. It is made of high-quality components on a double-sided flexible laminate, which ensures longer life and better protection against mechanical damage. COB LEDs (320 LEDs per meter) ensure even light distribution, no blackouts, discoloration and color artifacts. The tape guarantees a long lifetime and long trouble-free operation even at elevated temperatures.

## MAIN ADVANTAGES:

- high luminous efficiency and efficiency
- high durability and lifetime
  - over 100,000 h@25°C
- very good optical parameters
- CRI above 90
- color space (Colour Gamut Index) approx. 98

## APPLICATION:

- lighting of advertisements, shop windows, showcases, exhibitions
- edge illumination of transparent plastics
- decorative lighting, mirrors, shelves, furniture
- lighting of interiors, rooms, corridors
- lighting of plants and aquariums



PARAMETER	VALUE
POWER SUPPLY	
Rated power supply voltage	12 VDC
Power consumption for 1 meter	6 W/m
Power consumption for 1 section	0.15 W
Energy consumption during 1000 hours of operation	6 kWh/meter
Current consumption per meter	0.5 A
Protection class against electrical shock	III
Works with PWM dimmers	Yes
DESIGN FEATURES	
LED type	COB LED
Number of LEDs per meter	320
Cutting section length	25 mm
Adhesive tape type	Thermally conductive
Width	8 mm
Height	1.8 mm
FPC flexible substrate laminate (copper thickness)	0.35 mm, 3 oz
The color of the protective mask for the FPC substrate	White
Beam angle	140°
Ingress protection class	IP 20
For indoor use	Yes
Length of connecting wires	15 cm
ENVIRONMENTAL PARAMETERS	
Operating temperature range	-20 ... +45°C
Lifetime L80 at 25°C - see table	Over 100,000 h
Declarations and certificates	CE, RoHS
Number of meters per roll	10 m
Packaging	Antistatic bag
Guarantee	5 years
Manufacturer	ESPE

## OPTICAL PARAMETERS

CCT range	3000 K
The color of the light	Warm white
Correlated color temperature (CCT)	3000-3200 K
Luminous flux per meter (typical)	550 lm/m
Light output per watt (typical)	85 lm/W
Color Rendering Index CRI (typical)	92-93
Red Color Reproduction Ratio (R9) (typical)	44
Color space (Colour Gamut Index)	98
CIE1931 chromaticity (x and y) coordinates	x= 0.4340 y= 0.4071
Energy class	F

## PRODUCT LIFETIME AS A FUNCTION OF TEMPERATURE

Working temperature	Lumen drop percentage (for the 6000 h test)	Projected lifetime [hours]
25°C	L90	over 100,000
	L80	over 100,000
	L70	over 100,000
40°C	L90	25000
	L80	50000
	L70	80000
50°C	L90	8000
	L80	18000
	L70	28000

L80 means LED tape operation time until the luminous efficiency drops to 80% of the initial value, i.e. the standard value defined by LM-80-08 and IES TM-21-11

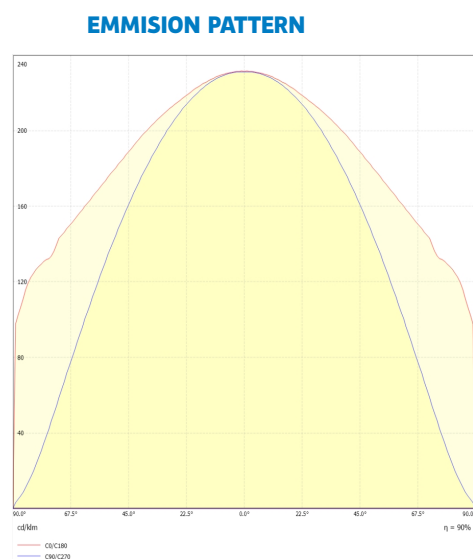
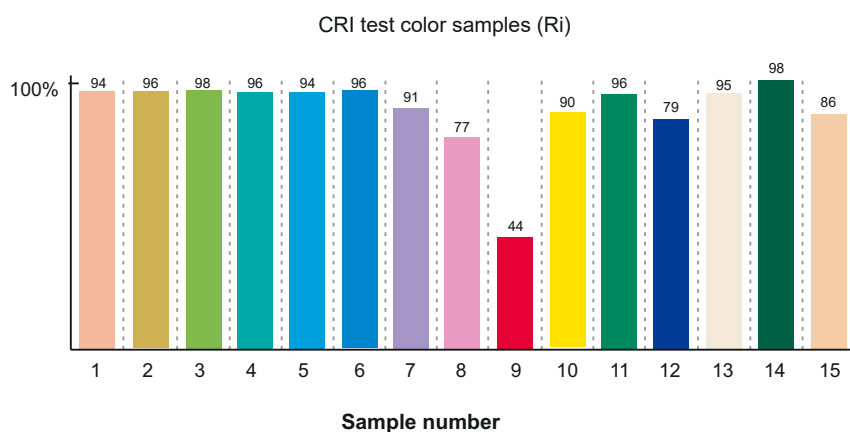
Additional data for technicians:

L90 - tape operation time until the lumen drops to 90% of the original value  
L70 - tape operation time until the lumen drops to 70% of the original value

**ENERGY**

Amicus Sp. z o.o.  
ELC-0612-30K20

The energy label features a vertical scale from A (dark green) to G (red). The 'G' class is highlighted with a red arrow. To the right of the scale, a black arrow points to the letter 'F'. Below the scale, the consumption value '6 kWh/1000h' is displayed. A QR code is located at the bottom right of the label.



Technical drawing of a 5m long cable with a cross-section. The cable has a total length of 5m and a diameter of 8mm. It features three DC +12V power lines and three ground lines. A 25mm section at the end is detailed in a cross-section view showing a 1.8mm outer layer, a 0.35mm inner layer, and a 3.3mm core diameter.