

LED HH-SWW120FO05W12-2835



- Professional 5-mm width LED tape 9.6 W/m

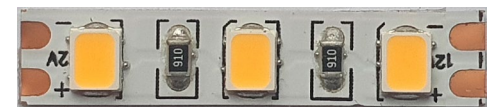
The **HH-SWW120FO05W12-2835 LED strip** of medium power (9.6 W/m) and high quality is designed for professional use. The high value of the color rendering index ensures very good reproduction of the colors of the illuminated objects. It is made of high-quality components on a double-sided flexible laminate, which ensures longer life and better protection against mechanical damage. Selected LEDs from leading manufacturers give no darkening, discoloration or color artifacts. The diodes used guarantee increased service life and long trouble-free operation even at elevated temperatures.

MAIN ADVANTAGES:

- high luminous efficiency
- high durability and lifetime
 - over 100,000 h @ 25°C
- very good optical parameters
- only 5 mm wide

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	9.6 W/m
Power consumption for 1 section	0.25 W
Energy consumption during 1000 hours of operation	9.6 kWh/meter
Current consumption per meter	0,790 A
Protection class against electrical shock	III
Works with PWM dimmers	Yes
DESIGN FEATURES	
LED type	SMD2835
Number of LEDs per meter	120
Cutting section length	25 mm
Adhesive tape type	3M thermally conductive
Width	5 mm
Height	1.25 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	120°
Ingress protection class	IP 20
For indoor use	Yes
Length of connecting wires	15 cm
ENVIRONMENTAL PARAMETERS	
Operating temperature range	-20 ... +50°C
Lifetime L80 at 25°C - see table	Over 100,000 h
Declarations and certificates	CE, RoHS
Number of meters per roll	5 m, roll 150 mm
Packaging	Antistatic bag
Guarantee	5 years
Manufacturer	Wisva Optoelectronics

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)	875 lm/m
Light output per watt (typical)	90 lm/W
Color Rendering Index CRI (typical)	82-83
Red Color Reproduction Ratio (R9) (typical)	6
Color space (Colour Gamut Index)	92
CIE1931 chromaticity (x and y) coordinates	x= 0.4269 y= 0.3949
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	22000
	L80	48000
	L70	77000
50°C	L90	7500
	L80	16000
	L70	25000

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

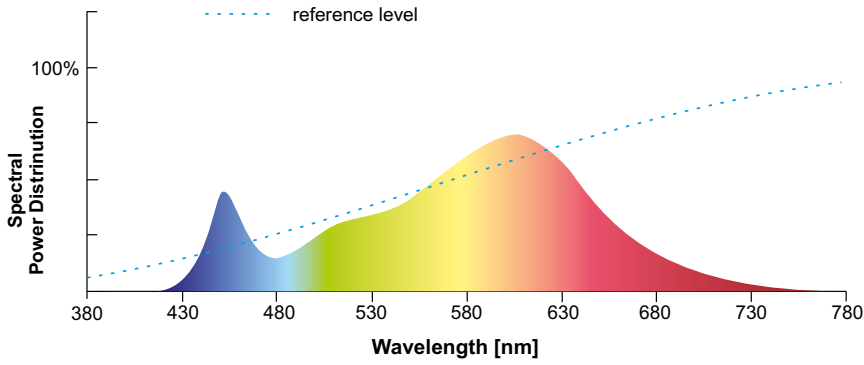
ENERGY LABEL

Amicus Sp. z o.o.
HH-SWW120F005W12-2835

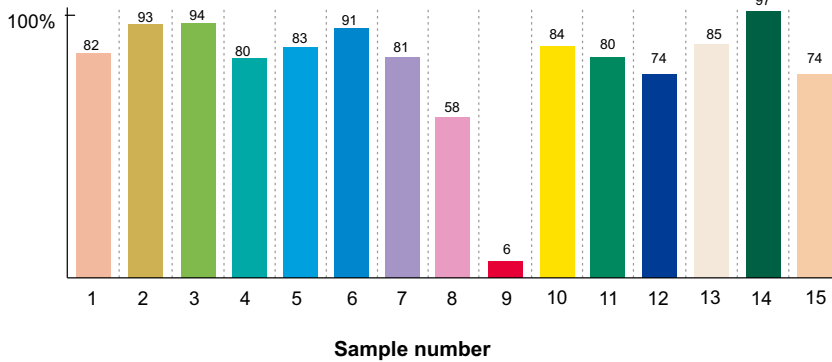
A
B
C
D
E
F
G

10
kWh/1000h

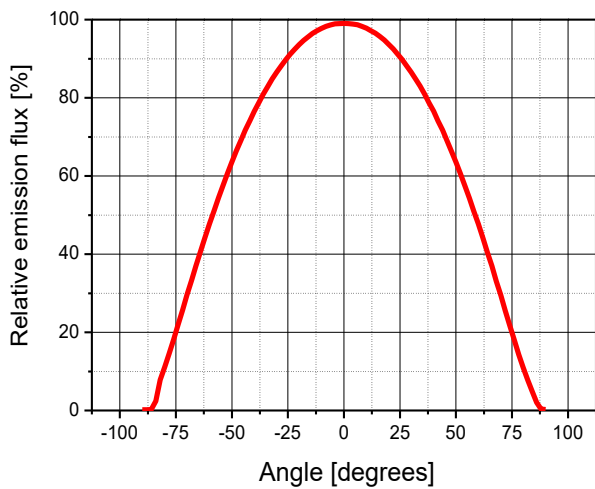
2019/2015



CRI test color samples (Ri)



EMMISSION PATTERN



CCT TAXONOMY IN LED LIGHTING

2700 K	Sunrise
3000 K	Warm white
4000 K	Moonlight, neutral white
5000 K	Daylight, cold white
6000 K	Cool white

TECHNICAL DRAWING OF LOCATION OF LEDS ON THE TAPE

