Areas of application

¨ General lighting

¨ Task lighting

¨ Decorative lighting

Product benefits

¨ Product tested under various conditions by accredited laboratories

¨ High quality Samsung LEDs

¨ LED lifetime tested according to LM-80 standard

¨ High LED density creates a „line of light" effect even with shallow aluminium profiles

¨ High quality light meets EU photobiological safety requirments for indoor lighting

¨ 6-year manufacturer's warranty (L80B10 ~55000 hrs. at 55°C LED strip temperature)
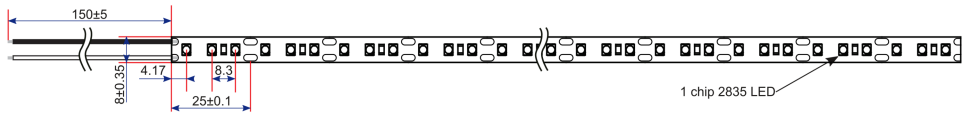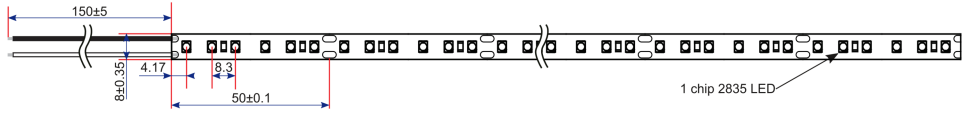
¨ Made in Europe

Product features

¨ Flexible and cuttable LED strip

¨ Rated power **18.3W per meter**

¨ Efficiency up to 106 Lm/W

¨ CRI >90

¨ IP20

¨ Dimmable

¨ 12V and 24V options available

¨ (12V) 5m—optimal strip length to avoid a voltage drop of more than 1 volt when powered at both ends

¨ (24V) 10m—optimal strip length to avoid a voltage drop of more than 2 volts when powered at both ends

¨ **Note:** Additional cooling is required for LED strips more powerful than 10 W/m.

RETECHAS
LED PROFESSIONAL

Electrical data

Item family code	Nominal voltage	Type of current	Nominal current[1]	Rated power P$_{on}$[1]
1812S12	12 V	DC	1.53 A/m	18.3 W/m
1812S24	24 V		0.76 A/m	18.3 W/m

1. Tolerance +/-5%; Data specified when product temperature is at 45ºC

Dimensions

Item family code	
1812S12	
1812S24	

12V led strip can be cut every 25 mm
24V led strip can be cut every 50mm
Wires are soldered at both ends of reel in typical product assembly

Photometric data

Item code	CCT	Color	CRI	Useful luminous flux Φ$_{use}$[2]	Efficiency[2]
1812S12K27	2700 K	Warm white	>90	1743 lm/m	95 lm/W
1812S12K30	3000K	Warm white		1821 lm/m	100 lm/W
1812S12K40	4000K	Neutral white		1938 lm/m	106 lm/W
1812S12K57	5700K	Cool White		1938 lm/m	106 lm/W

| Item code	CCT	Color	CRI	Useful luminous flux Φ$_{use}$[2]	Efficiency[2]
1812S24K27	2700 K	Warm white	>90	1743 lm/m	95 lm/W
1812S24K30	3000K	Warm white		1821 lm/m	100 lm/W
1812S24K40	4000K	Neutral white		1938 lm/m	106 lm/W
1812S24K57	5700K	Cool White		1938 lm/m	106 lm/W

2. Tolerance +/-10%; Data specified when product temperature is at 45ºC

Temperature conditions

Item family code	Ambient working temperature, t^a	Product working temperature	Storage temperature
1812S12	-30C ~ +30ºC	Less than 60ºC at 23ºC ambient temperature	-40C ~ +85ºC
1812S24			

- All information is provided considering 1 meter length. Real life performance may fluctuate due to tolerances in components used in manufacturing

Light distribution
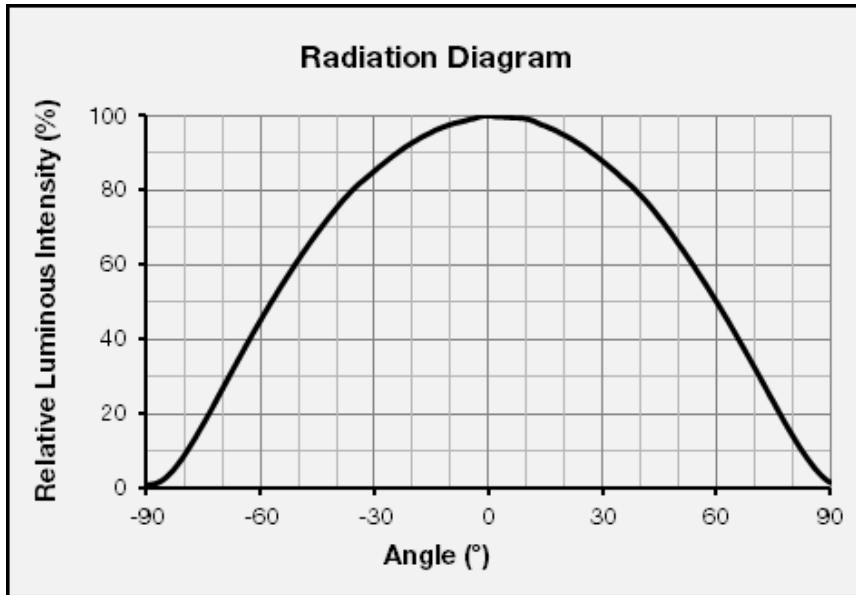
Light spectrum diagram CRI > 90
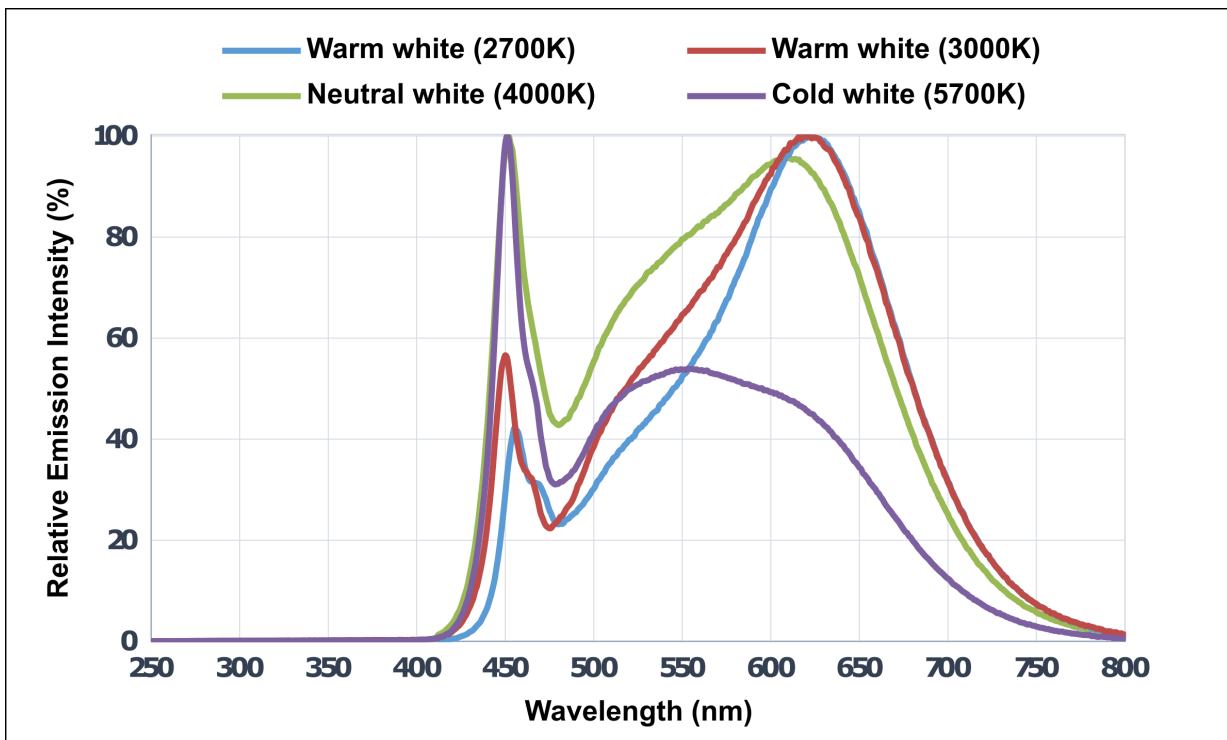
- Information on this page has been provided by the LED manufacturer.

Standards and declarations of conformity

Declarations of conformity: *CE (RoHS is part of CE)*

Meets standards: *LST EN 60598-1:2015+AC:2016+A1:2018 (9.2.7cl.,9.2.8cl.), EN 60068-2-14:2009 (IEC 60068-2-14:2009), EN 62031:2008+A1:2013+A2:2015.*

Important: *Product is assembled using LEDs that have been tested according to LM-80 for no less than 10000 hours.*

Energy label and marking

Item code	EPREL code	Energy class	Symbol
1812S12K27	997988	F	F A↑G
1812S24K27	998015		
1812S12K30	997997	F	F A↑G
1812S24K30	998018		
1812S12K40	997998	F	F A↑G
1812S24K40	998026		
1812S12K57	998008	F	F A↑G
1812S24K57	998034		

18,3 W/m	24 V DC — IP20
Naudingasis šviesos srautas/ Useful luminous flux	**1821 Lm/m** — SAMSUNG
CRI >90	3000K
Kiekis/Quantity:	5 m

ENERG⚡

Retechas
1812S24K30

A
B
C
D
E
F ◄ **F**
G

19 kWh/1000h   2019/2015

L70B50 >60000h

GARANTIJA **6** YR WARRANTY

RoHS   CE

20 PAP

WARNING
This package contains an electrostatic discharge and moisture sensitive device
Attention: Storage temperature: -40, +80 °C

Standard packaging

Product packaging is designed and manufactured based on: *EN 13427:2006*. Packaging materials can be recycled according to *EN 13430:2007*.

Packaging:

¨   Cardboard box. Size 120*121*20mm

¨   Cardboard reel. Size D=118mm h=15mm

Alternative packaging:

¨   Cardboard box. Size 180*182*20mm

¨   Cardboard reel. Size D=178mm h=15mm

LED strip length per reel—5 meters

Note: installation instructions are included in every box