Areas of application

- General lighting
- Task lighting
- Decorative lighting

Product benefits

- Product is tested under various conditions by accredited laboratories
- High quality Samsung SMD LED
- LED lifetime is tested according to LM-80 standard
- High LED density creates „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 (L70 >54 000 h)
- Made in Europe

Product features

- Flexible and cuttable LED strip
- Rated power **18W per meter**
- Efficiency up to 100 Lm/W
- CRI >90
- Dimmable
- 12V and 24V options available
- (12V) 5m—optimal length connecting from both sides to avoid voltage drop more than 1 volt per strip
- (24V) 10m—optimal length connecting from both sides to avoid voltage drop more than 2 volt per strip
- **Note:** Additional cooling is required for LED strips more powerful than 10 W/m.

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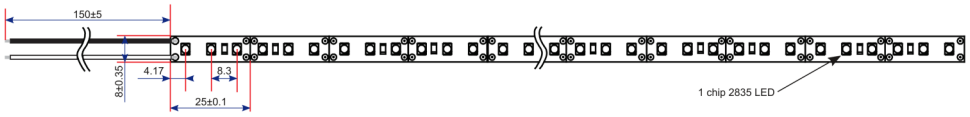
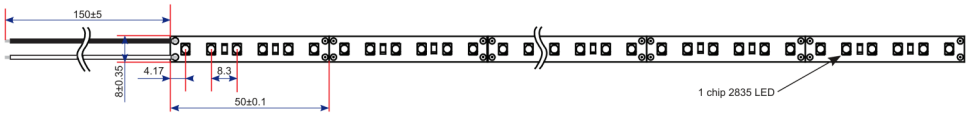
120 LED/m PRODUCT FAMILY

18 W/m TECHNICAL SPECIFICATION

Electrical data

Item family code	Nominal voltage	Type of current	Nominal current,	Rated power
1812S12	12 V	DC	1,6 A/m	18,6 W/m
1812S24	24 V		0,8 A/m	18 W/m

Dimensions

Item family code	
1812S12	
1812S24	

[1] 12V led strip can be cut every 25 mm
[2] 24V led strip can be cut every 50mm
[3] wires are soldered at both ends of reel in typical product assembly

Photometric data

Item code	CCT	Color	CRI	Light output	Efficiency
1812S12K27	2700 K	Warm white	>90	1633 lm/m	91 lm/W
1812S12K30	3000K	Warm white		1673 lm/m	93 lm/W
1812S12K40	4000K	Neutral white		1754 lm/m	97 lm/W
1812S12K57	5700K	Cool White		1794 lm/m	100 lm/W
1812S24K27	2700 K	Warm white	>90	1633 lm/m	91 lm/W
1812S24K30	3000K	Warm white		1673 lm/m	93 lm/W
1812S24K40	4000K	Neutral white		1754 lm/m	97 lm/W
1812S24K57	5700K	Cool White		1794 lm/m	100 lm/W

Temperature conditions

Item family code	Ambient working temperature, tᵃ	Product working temperature	Storage temperature
1812S12	-30C ~ +30°C	Less than 60°C at room temperature 23°C	-40C ~ +85°C
1812S24			

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

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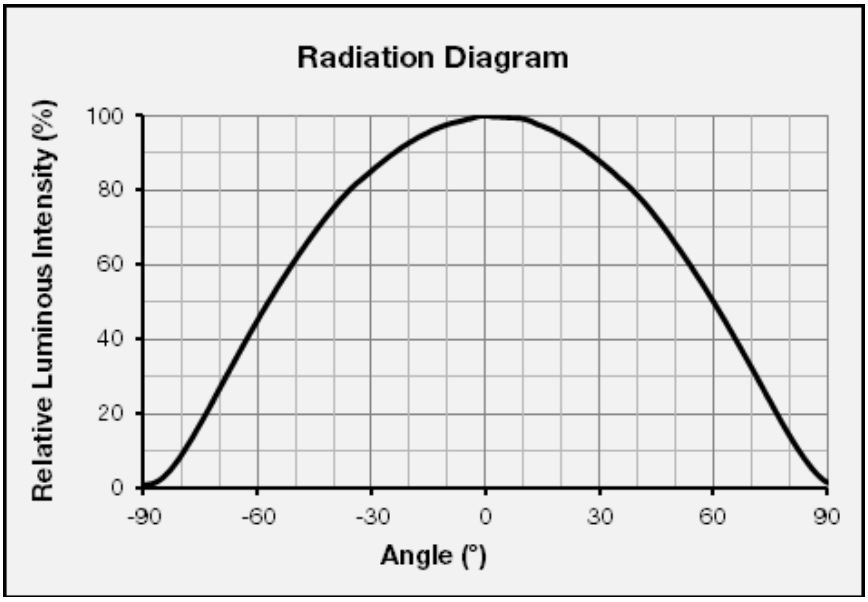
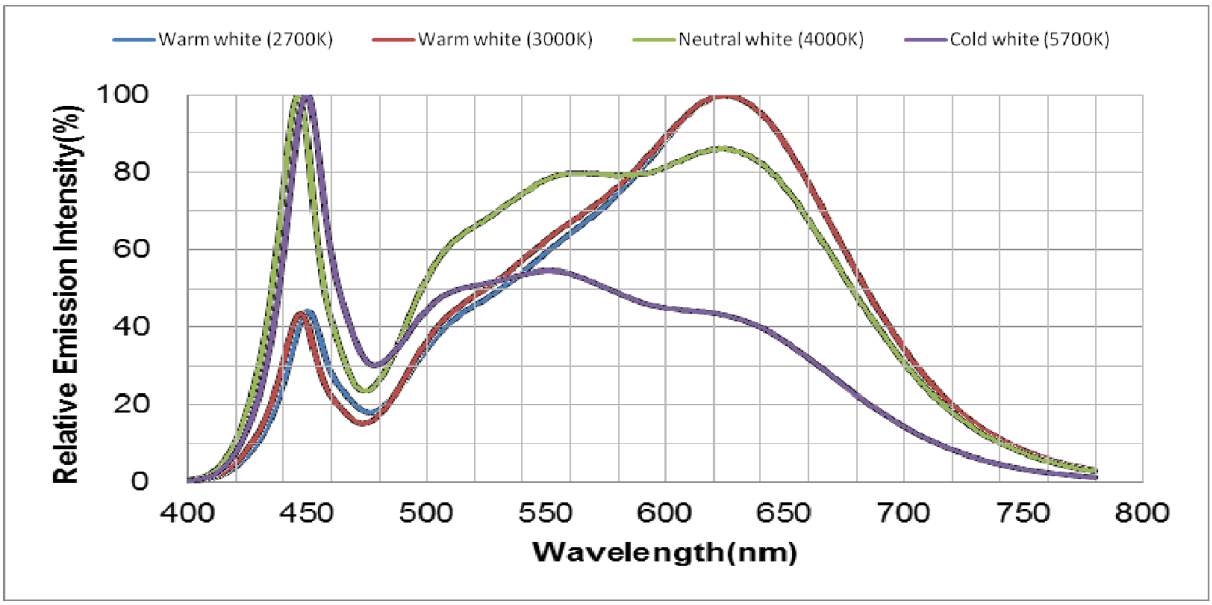
Light distribution



Light spectrum diagram CRI > 90



* Information here is provided by LED manufacturer.

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Standards and declarations of conformity

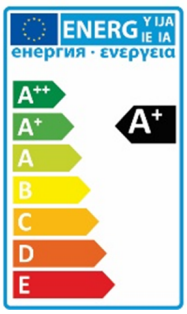
Declarations of conformity: *CE (RoHS is part of CE)*

Meets standards: *LST EN 60598-1:2009, IEC / EN 60068-2-14:2009, EN 62031:2008, EN 62031:2008/A1:2013, EN 62031:2008/A2:2015, EN/IEC 60068-2-14:2009.*

Important: Product is assembled using LEDs that have been tested according to LM-80 for no less than 9000 hours.

Energy label and marking

Modelis/Model:	1812S12K57				EEI
18 W/m	**12V** DC	**5700K**	**1794** Lm/m	**5**m	
SAMSUNG	**6** metų garantija	CRI > 90	IP20	RoHS	CE
ĮSPĖJIMAS	Šioje pakuotėje yra elektrostatiniam krūviui ir drėgmei jautrus įrenginys				
DĖMESIO	Laikymo temperatūra: -40, +80 °C				



Standard packaging

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

Cardboard box. Size 187*183*20mm

Cardboard reel. Size D=190mm h=15mm

LED strip length per reel—5 meters

Note: installation instructions are included in every box

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