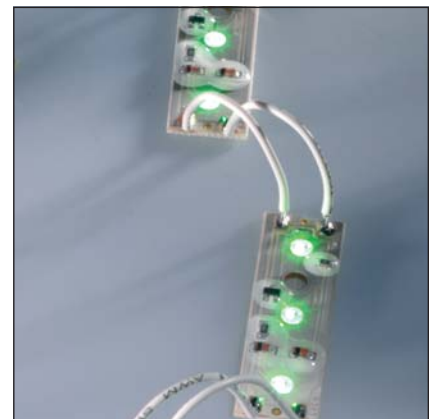
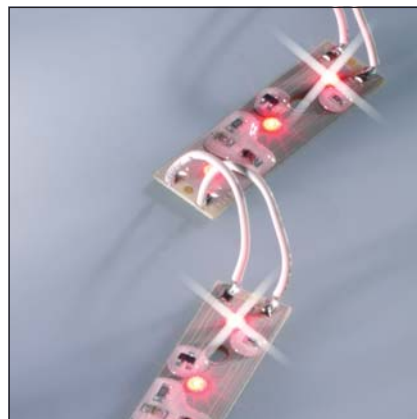




A New Lighting Experience



- high quality due to Chip-on-Board technology
- available in different colours
- low heat development
- lead-free soldered
- resistant against shock and vibrations

## ChainLED

### WU-M-275

#### Typical Applications

- Illumination of complex structures
- Marking paths, stairs, etc.
- Furniture lighting
- Border lighting
- Entertainment, shop design
- Architectural illumination

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# ChainLED

## Technical Notes

- 30 modules per chain; cable distance between the modules approx. 50 mm
- Divisible in different lengths as required
- 3 highly efficient LED per module
- LED-chips are driven by constant current sources
- Wide radiation angle (140°) due to Chip-on-Board technology
- Voltage supply: 12 V DC

## Electrical Characteristics

at ambient temperature  $t_a = 25\text{ °C}$

All parameters refer to one single module.

Type	Ref. No.	Colour	Number of LEDs	Current* mA	VoltageDC* V	Power* mW
WU-M-275-S0	<b>533046</b>	Red	3	30	12	360
WU-M-275-SG	<b>533045</b>	Green	3	35	12	420
WU-M-275-SB	<b>533044</b>	Blue	3	35	12	420
WU-M-275-SY	<b>533047</b>	Yellow	3	30	12	360
WU-M-275-W-54	<b>533050</b>	White	3	35	12	420

## Maximum Ratings

Exceeding the maximum ratings can lead to reduction of lifetime or destruction of the modules.

Type	Voltage DC		Operation temperature range at $t_c$ -point		Storage temperature range		Reverse voltage DC V
	V min.	V max.	°C min.	°C max.	°C min.	°C max.	
All types	11	14	-20	+70	-20	+85	5

## Optical Characteristics

at ambient temperature  $t_a = 25\text{ °C}$

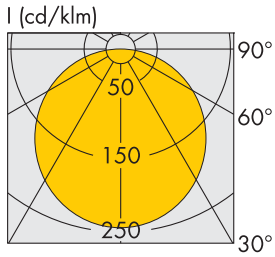
All parameters refer to one single module.

Type	Ref. No.	Colour	Dom. wavelength* (nm) Colour temperature* (K)	Luminous flux* lm	Radiation angle* °
WU-M-275-S0	<b>533046</b>	Red	625	6	140
WU-M-275-SG	<b>533045</b>	Green	530	8	140
WU-M-275-SB	<b>533044</b>	Blue	470	4	140
WU-M-275-SY	<b>533047</b>	Yellow	590	7	140
WU-M-275-W-54	<b>533050</b>	White	5400 K $\pm$ 500 K	9	140

\* On account of the complex manufacturing process of the modules the above values only represent statistical variables.

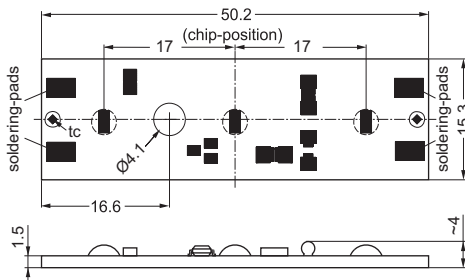
The values do not necessarily correspond exactly to the actual parameters of every single product which can vary from the typical specification.

## Light Distribution Curve



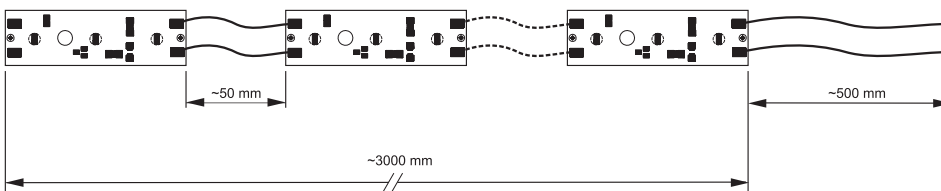
**WU-M-275-W, -SO, -SG, -SB, -SY**

## Mechanical Dimensions



**WU-M-275-W**

## ChainLED (30 modules)



## Assembly and Safety Information

- LED modules and all PCB components must not be subjected to undue mechanical stress.
- The circuit path must not be damaged or interrupted.
- Power supply units must be used for operation, in which the following protective measures are ensured:
  - Short-circuit protection
  - Overload protection
  - Overheating protection
  - SELV equiv. (Safety Extra Low Voltage)
- Please ensure the correct polarity of the leads prior to commissioning (see markings on the backside of the modules). Reversed polarity can destroy the modules.
- The maximum output of the power supply must be observed.
- The modules are not suitable for outdoor applications.
- Please ensure standard ESD (electrostatic discharge) protection measures are employed when handling and installing LED modules. Electrostatic discharge can damage LEDs.
- The maximum length of the ChainLED must not exceed 3.5 m (30 modules) when the power is applied at one side.
- A fixing hole ( $\varnothing 4.1$  mm) is integrated in the PCB for easy assembly. To avoid short circuits or damage please use only plastic bolts (recommended  $\varnothing 3$  mm) for assembly. Make sure not to destroy the PCB during fixing.
- Contact with chemicals containing acid or acetic acid can permanently damage LEDs. Substances and materials containing acid or acetic acid must therefore not be used for cleaning, maintaining and installing LED modules or LED luminaires. The vapours produced by such chemicals alone can damage LEDs.

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification. Please find further detailed information at [www.vossloh-schwabe.com](http://www.vossloh-schwabe.com).