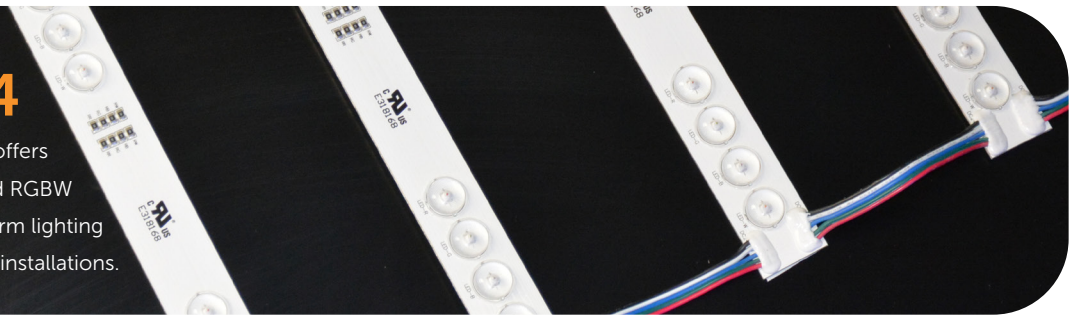
VDL-SN-24

Vivalyte's Color Backlight Series offers vibrant, energy-efficient RGB and RGBW backlight bars designed for uniform lighting in signage, displays, and creative installations.



Multi color light bar series

sn

Indoor

IP20

Beam angle

170°

Volt (DC)

24

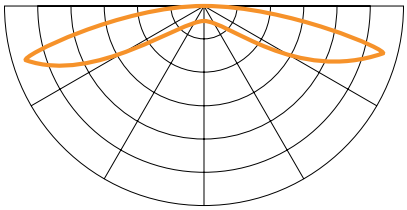
LIGHT COLOR SPECIFICATION

Product type	Control type	Color type	CCT (K)	Lumen (lm/pcs)	Efficacy (lm/W)	Power (W/pcs)	CRI
VDL-SN-24-6216-TW-27K+65K	PWM	TW	2700 + 6500	1400	90	16	70+
			2700	691	90	8	
			6500	707	92	8	
VDL-SN-24-7720-TW-27K+65K	PWM	TW	2700 + 6500	1747	90	16	70+
			2700	864	90	8	
			6500	883	92	8	
VDL-SN-24-4509-R+G+B	PWM	RGB	Red, Green, Blue	500	42	12	
VDL-SN-24-4806-RGB	PWM	RGB	Red, Green, Blue	142	29,6	5,76	
			Red	48	30	1,92	
			Green	77	48,2	1,92	
			Blue	25	15,7	1,92	
VDL-SN-24-4512-R+G+B+W-30K	PWM	RGBW	Red, Green, Blue, 3000	851	58,5	14,5	75+
			Red	68	19,2	3,5	
			Green	462	121	3,8	
			Blue	26	6,8	3,8	
			3000	319	88,1	3,6	
VDL-SN-24-4512-R+G+B+W-65K	PWM	RGBW	Red, Green, Blue, 6500	851	58,5	14,5	75+
			Red	68	19,2	3,5	
			Green	462	121	3,8	
			Blue	26	6,8	3,8	
			6500	319	88,1	3,6	

PRODUCT SPECIFICATION

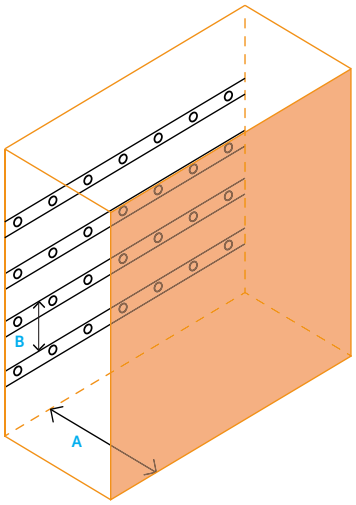
Product type	Length (mm)	LEDs /pcs	Cuttablility	Max. in serial connection	Module distance (mm)	LED type
VDL-SN-24-6216-TW-27K+65K	620	16	Not cuttable	10	180	2835
VDL-SN-24-7720-TW-27K+65K	770	20	Not cuttable	10	180	2835
VDL-SN-24-4509-R+G+B	450	9	Not cuttable	8	180	Osram
VDL-SN-24-4806-RGB	480	6	Not cuttable	3	/	2835
VDL-SN-24-4512-R+G+B+W	450	12	Not cuttable	8	100	Osram

LIGHT DISTRIBUTION GRAPH



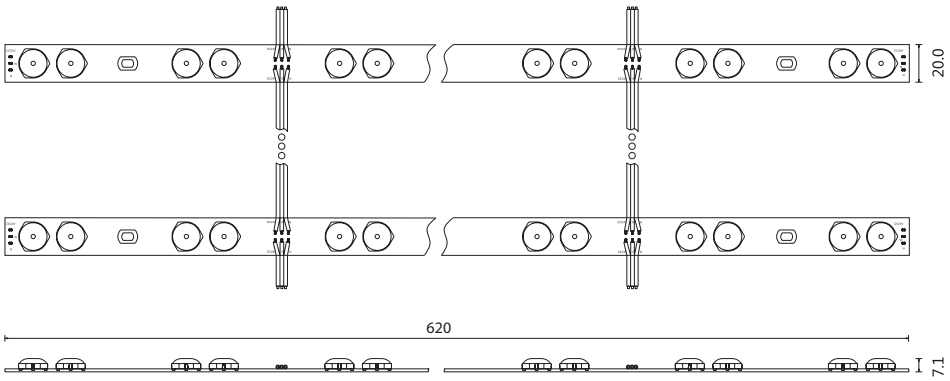
PRODUCT SPECIFICATION

Product type	A Depth (mm)	Illumination (lux)	Uniformity	B Density (pcs/m²)	Spacing (mm)	Power (W/m²)
VDL-SN-24-7720-TW-27K+65K	60	12340-14520	0,85	7	140	134
	80	9950-11850	0,84	6	160	115
	100	7650-9220	0,83	5	200	96
	120	7090-8250	0,86	5	200	96
	150	6210-7050	0,88	5	200	96
	180	5320-5890	0,9	5	200	96
VDL-SN-24-4509-R+G+B	100			13	70	156
	120			12	80	144
	150			7	140	84
	180			6	160	72
	200			5	180	60
VDL-SN-24-4806-RGB	70			24	80	138
	80			24	80	138
	90			24	80	138
	100			24	80	138

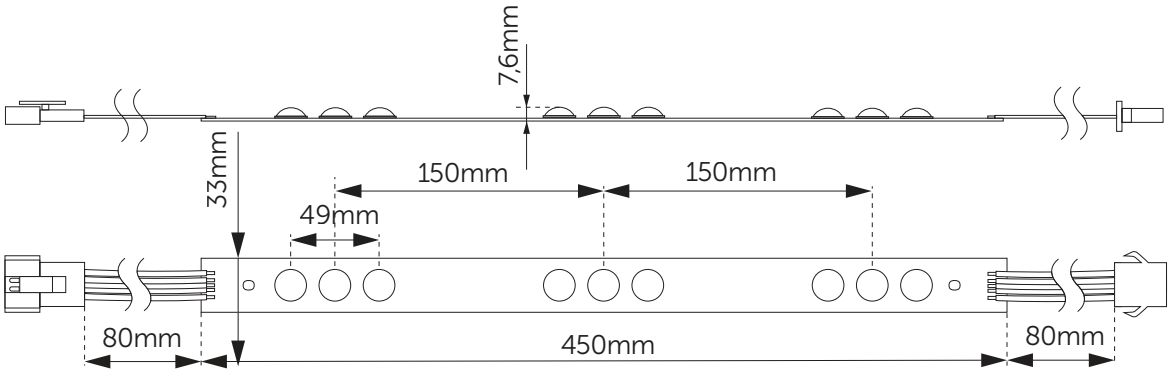


Note *:
1. Distance "B" is measured center to center
2. All test was using a pure white reflective backplane and white light-box fabrics as example.
3. Performance can vary when products are used in different environment.
   The reflectivity of back panel and transmissive characteristics of the front diffuser play vital role in the result.

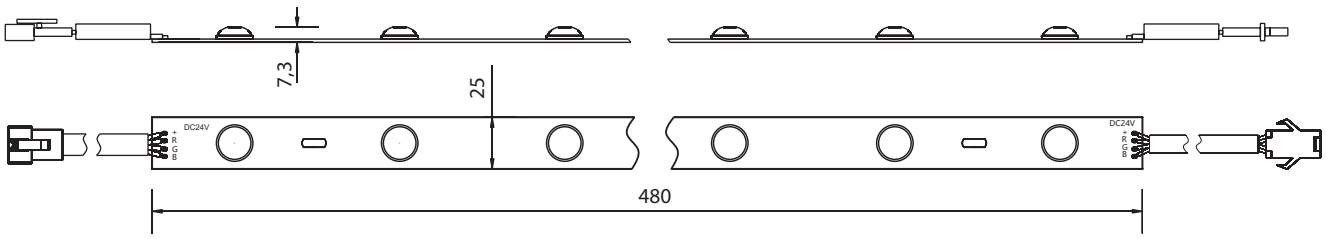
VDL-SN-24-6216-TW



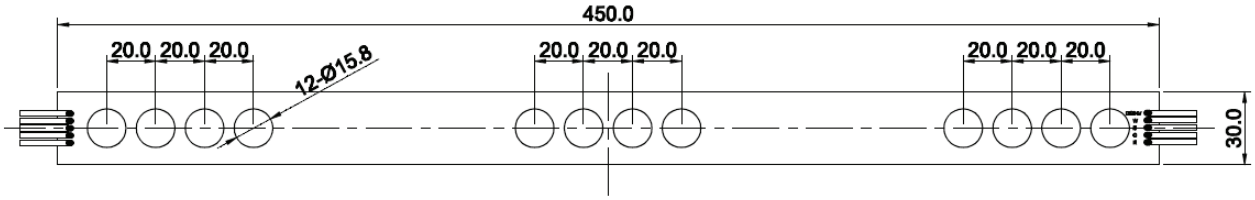
VDL-SN-24-4509-R+G+B



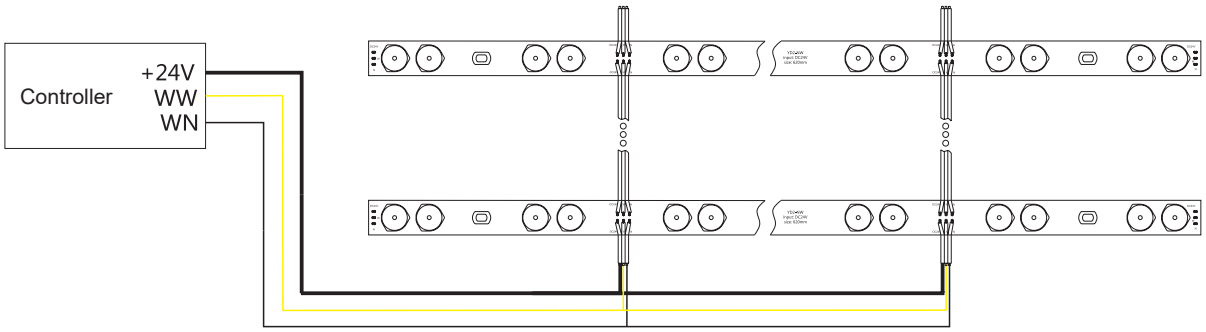
VDL-SN-24-4806-RGB



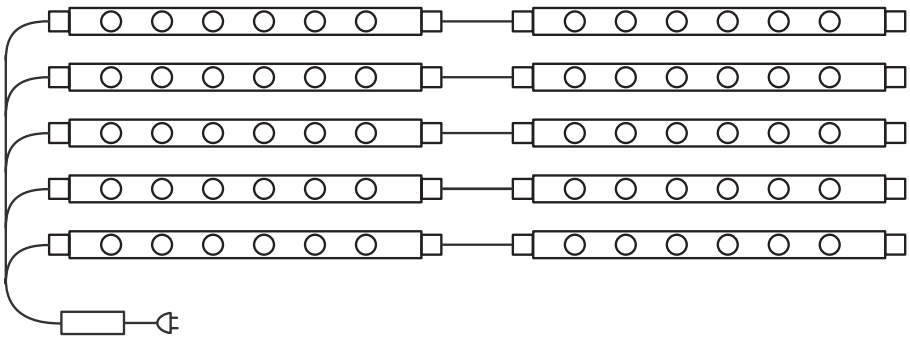
VDL-SN-24-4512-RGBW



VDL-SN-24-6216-TW

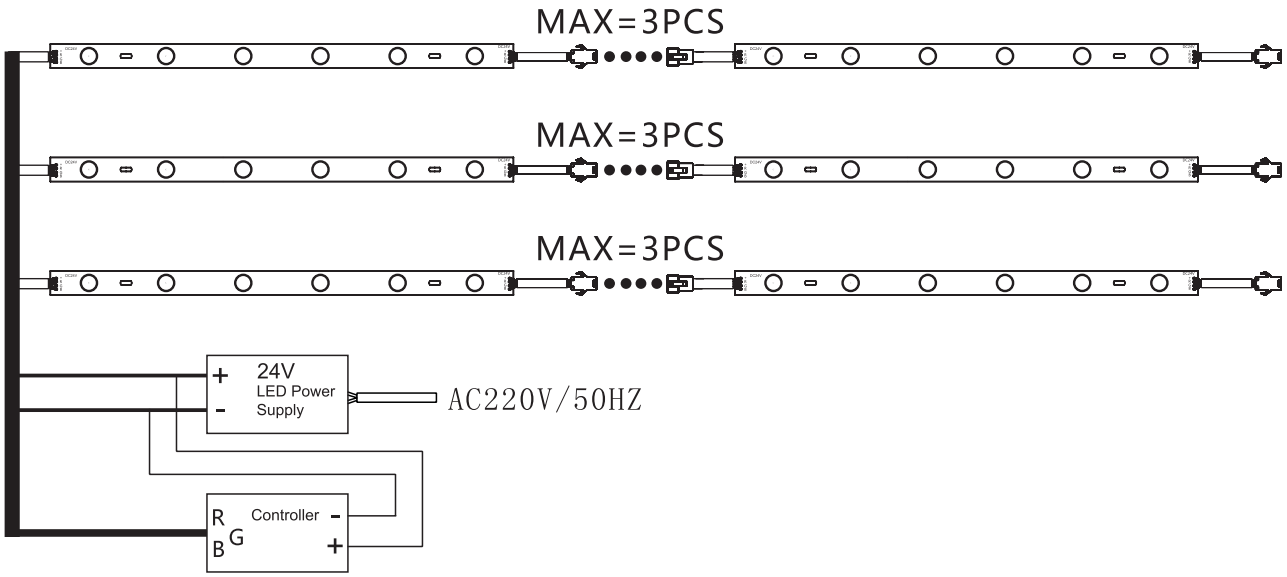


VDL-SN-24-4509-R+G+B

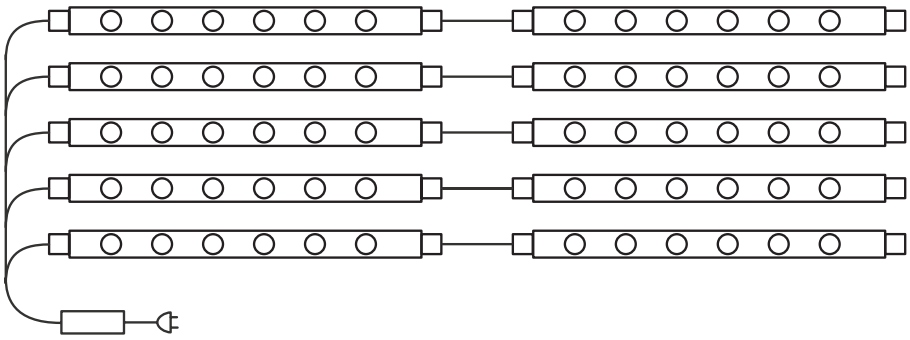


The VDL-SN-24-XXXX-RGB backlit bars are interconnected with 5-pin connectors. Additional extension cables are available in 50cm and 150cm.

VDL-SN-24-4806-RGB



VDL-SN-24-4512-RGBW



SAFETY & OPERATION INSTRUCTIONS

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specificationsor product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation,waterproof and anti-corrosive treatment.
- Storage temperature: -20~+70°C
- Working temperature: -20~+60°C
- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

WARNING

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof and anti-corrosion in the installation.
- Use 18AwG (0.75mm2 cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

STATEMENT

The parameters given in this manual are typical values and for reference only.
All illustrations and drawings in this manual are for reference.
This product is subject to change without notice.


info@vivalyte.com
www.vivalyte.com
+32 56 42 65 35
VAT: BE05006111159
May 2025

Kouterstraat 6, Wevelgem, B-8560, Belgium