

REGALINE PROFESSIONAL

LED (COB) SOLUTION



LED REGALINE PROFESSIONAL – LINEAR LED SOLUTION

VS-L-0107

Aluminum profile fitted with LUGA Line modules in COB technology, including an enclosed SELV driver (operating current: 350 mA).

Typical Applications

- Shop
- Furniture Lighting
- Office
- Kitchen
- Museum
- Show cases
- Shelf

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- **INNOVATIVE COB LUGA LINE LED SYSTEM**
- **HOMOGENEOUS LINEAR LIGHT DISTRIBUTION**
- **CORRESPONDING DRIVER ENCLOSED**
- **EXTREME LONG LIFETIME DUE TO OPTIMIZED THERMAL MANAGEMENT**
- **EASY ROTATION ADJUSTMENT OF ILLUMINATION ANGLE**
- **SYSTEM EFFICIENCY: > 100 LM/WATT**
- **LUMINAIRE DESIGN: ARNE FIEDLER**



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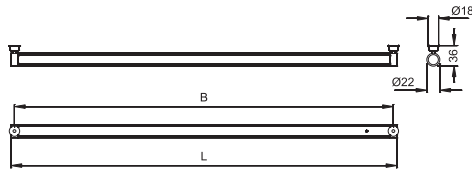
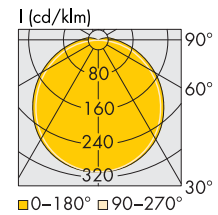


Technical Notes

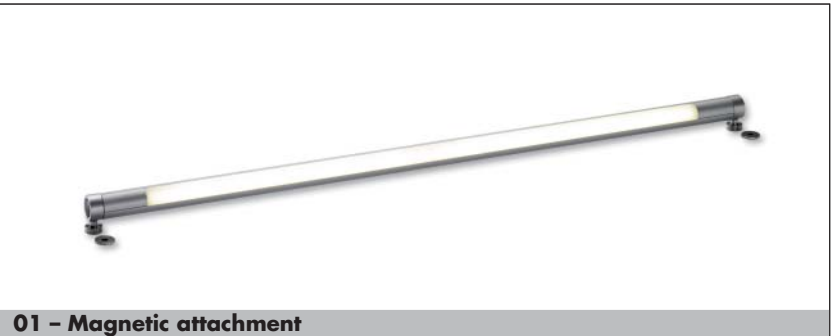
- 120° rotating LED profile
- Luminaire colour: silver
- Slim profile design: Ø 22.5 mm
- Lengths: 390 mm, 670 mm, 950 mm
- Weight: 200 g, 400 g, 600 g
- 3 step MacAdam (initial)
- 4 step MacAdam (after 50,000 h)

- Mounting options:
 - 01: Magnetic attachment
 - 02: Suspension
 - 03: Built-in
 - 04: Surface mounting

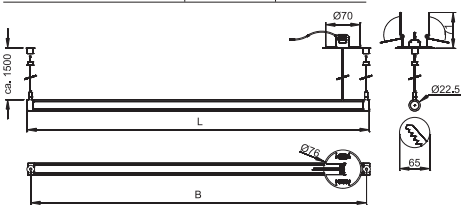
Further variants in colour temperature and length as well as dimmable versions available on request.



Dimensions/ Type	L mm	B mm
VS-L-0107-xx-390	388.5	376.5
VS-L-0107-xx-670	668.5	656.5
VS-L-0107-xx-950	948.5	936.5



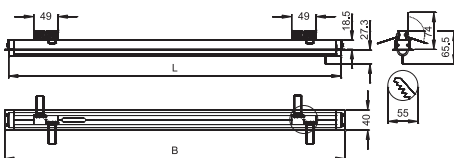
01 – Magnetic attachment



Dimensions/ Type	L mm	B mm
VS-L-0107-xx-390	388.5	376.5
VS-L-0107-xx-670	668.5	656.5
VS-L-0107-xx-950	948.5	936.5



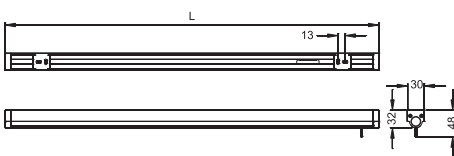
02 – Suspension



Dimensions/ Type	L mm	B mm	C mm
VS-L-0107-xx-390	400	384.5	391.5
VS-L-0107-xx-670	680	664.5	671.5
VS-L-0107-xx-950	960	944.5	951.5



03 – Built-in



Dimensions/ Type	L mm
VS-L-0107-xx-390	384.5
VS-L-0107-xx-670	664.5
VS-L-0107-xx-950	944.5



04 – Surface mounting

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Electrical Characteristics at $t_a = 25\text{ °C}$

Type	Number of LUGA Line modules	Typ. voltage DC [V] at 350 mA	Power consumption [W] at 350 mA
VS-L0107-xx-390	1	14.6	5.1
VS-L0107-xx-670	2	29.2	10.2
VS-L0107-xx-950	3	43.8	15.3

Voltage and power tolerance: $\pm 10\%$

Optical Characteristics at $t_a = 25\text{ °C}$

Type	Length mm	Colour	Correlated colour temperature* K	Typ. luminous flux* and efficiency at 350 mA		Typ. CRI* R_a	Beam angle* °
				lm	lm/W		
VS-L0107-xx-390-3000	390	warm white	3000	540	100	> 80	123°/ 113°
VS-L0107-xx-390-4000	390	neutral white	4000	580	110	> 80	123°/ 113°
VS-L0107-xx-670-3000	670	warm white	3000	1080	100	> 80	123°/ 113°
VS-L0107-xx-670-4000	670	neutral white	4000	1160	110	> 80	123°/ 113°
VS-L0107-xx-950-3000	950	warm white	3000	1620	100	> 80	123°/ 113°
VS-L0107-xx-950-4000	950	neutral white	4000	1740	110	> 80	123°/ 113°

Production tolerance of luminous flux and efficiency: $\pm 10\%$

* Due to the complex manufacturing process for modules, the above values represent statistic variables. The values do not necessarily correspond exactly to the actual parameters of every individual product and can vary from the typical specification.

Type	Length mm	Attachement	Ref. No.	Type	Length mm	Attachement	Ref. No.
01: Magnetic attachment				02: Suspension			
VS-L0107-01-390-3000	390	Magnet	560557	VS-L0107-02-390-3000	390	Cable suspension	566094
VS-L0107-01-390-4000	390	Magnet	566089	VS-L0107-02-390-4000	390	Cable suspension	566095
VS-L0107-01-670-3000	670	Magnet	566090	VS-L0107-02-670-3000	670	Cable suspension	566096
VS-L0107-01-670-4000	670	Magnet	566091	VS-L0107-02-670-4000	670	Cable suspension	566097
VS-L0107-01-950-3000	950	Magnet	566092	VS-L0107-02-950-3000	950	Cable suspension	566098
VS-L0107-01-950-4000	950	Magnet	566093	VS-L0107-02-950-4000	950	Cable suspension	566099
03: Built-in				04: Surface mounting			
VS-L0107-03-390-3000	390	Built-in	566100	VS-L0107-04-390-3000	390	Surface mounting	566106
VS-L0107-03-390-4000	390	Built-in	566101	VS-L0107-04-390-4000	390	Surface mounting	566107
VS-L0107-03-670-3000	670	Built-in	566102	VS-L0107-04-670-3000	670	Surface mounting	566108
VS-L0107-03-670-4000	670	Built-in	566103	VS-L0107-04-670-4000	670	Surface mounting	566109
VS-L0107-03-950-3000	950	Built-in	566104	VS-L0107-04-950-3000	950	Surface mounting	566110
VS-L0107-03-950-4000	950	Built-in	566105	VS-L0107-04-950-4000	950	Surface mounting	566111

Operating Lifetime

50,000 h (L90/B10); I_f 350 mA; $t_a = 35\text{ °C}$

Maximum Ratings

Exceeding the maximum ratings can lead to destruction of the module.

Type	Operation temperature at t_a		Storage temperature	
	°C min.	°C max.	°C min.	°C max.
All Types	-20	+35	-20	+55

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Assembly and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains). The following advice must be observed; non-observance can result in the destruction of the LED modules, fire and/or other hazards.

- ESD (electrostatic discharge) protection measures must be observed when handling and installing the LED modules. See VS's application notes on ESD protection.
- LED modules must not be subjected to any undue mechanical stress, e. g.:
 - do not treat as bulk cargo
 - avoid shear and compressive forces during handling and installation
 - do not touch the yellow phosphorus layer
- Safe operation only possible by the use of external constant current sources.
- Operation only with SELV-class power supply units that feature the following protection:
 - Short-circuit protection
 - Overload protection
 - Overheating protection
- Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- Safety regulations acc. to EN 60598 (or further standards) has to be observed if the maximum output voltage exceed the permitted touchable value
- When operating devices will be selected care has been taken to ensure that the maximum values (see table "Maximum Ratings") will not be exceeded.
- In the event of outdoor applications or applications in damp locations, care must be taken to protect LED modules against humidity, splashes and jets of water. Any corrosion damage resulting from humidity or contact with condensation will not be recognised as a defect or manufacturing fault. LED modules are not specially protected against foreign bodies or dust. Depending on the type of application, further protection must be ensured to prevent dust and foreign bodies from entering.
- The photobiological safety of the LED modules must be classified into risk groups in accordance with EN 62471: 2008.
 - general lighting: Free group
 - other applications: Free group

In order to avoid physical injury to persons or damage to property the notes in this chapter has to be observed.

- **Product specification:** These indoor luminaires have been designed only for commercial use in stationary, immovable rooms. Any other use can endanger human beings.
- In the event of use not for the intended purpose the manufacturer's liability shall expire. Luminaires are tested for dry rooms with an ambient temperature of 25 °C. The observance of the safety-relevant standards is guaranteed only with the power supply equipment offered by Vossloh-Schwabe for this luminaire. Product certificates

and technical information in these instructions refer only to the supply units offered by Vossloh-Schwabe.

- **Preparation of the product for use:** Before mounting disconnect from the supply. This luminaire may only be installed by authorized skilled personnel. The regional installation regulations are to be observed. In the event of modifications of luminaires the manufacturer's liability expires. Please also ask for our installation instructions or look at www.vossloh-schwabe.com.
- **Operating instructions:** Flammable materials must be kept away from the luminaire. If the luminaire is mounted on or recessed in combustible materials, the ambient temperature must not be higher than 25 °C. Irradiation by sunlight can increase the ambient temperature. Children must not play with or near the luminaire. The product is approved only for an application in accordance with degree of protection IP20. Parts of the luminaire which can be touched can reach high temperatures (danger of burns)!
- **Approved accessories:** The accessories may only be used with luminaires from the Vossloh-Schwabe range. In the event of non-observance, overheating can be caused (fire hazard).
- **Supply units:** Leads must not lie up against or on the luminaire/supply unit. The luminaire/supply unit must not be covered by heat-insulating covers or similar material.
- **Maintenance and cleaning:** Before cleaning disconnect the luminaire from supply. Maintenance and cleaning may be carried out only by authorized skilled personnel.
- **General notes on cleaning and care:** Note the resistance of the materials of chemical attack. The cold luminaire can be cleaned with a damp cloth. Before putting it into operation allow by all means the complete luminaire to dry. Appropriate local regulations on servicing are to be observed. If necessary, the intervals in the luminaire servicing schedule are to be taken into account. During operation do not use any combustible cleaning liquids (fire hazard).
- **General information:** Note chemical resistance of materials. Cold luminaire can be cleaned with a damp cloth. Be sure to allow to dry before operating the luminaire. Corresponding local regulations regarding the maintenance should be observed. If necessary, intervals of the luminaire maintenance plan have to be considered. During operation, do not use flammable cleaning liquids (fire hazard).
- **Fault diagnostic – repairs:** Answers to technical questions can be found on our Website www.vossloh-schwabe.com or ask the technical department. Moreover, our service department is at your disposal to answer any queries and can be reached by dialing the number +49 (0) 2842 980 700. Please observe as a matter of principle: Repairs to luminaire may only be carried out by skilled personal authorized by Vossloh-Schwabe. Repaired luminaires must be checked in accordance with the appropriate local standards. This also applies to the fitting of spare parts, only original spare parts from Vossloh-Schwabe being allowed to be used. All spare parts and connecting lines must match the parts replaced. Any possible changes to the luminaire can endanger operational safety. In every such case every claim under the warranty shall become null and void.

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