

PrevaLED Linear Value

Light Engines – Constant Current



Areas of application

- Retail outlets
- Car parks
- Warehouses
- Outdoor applications only in suitable luminaires

Product benefits

- SELV module for easy luminaire design
- Modules can be easily joined together to make seamless strip lighting
- Slim module (comparable to a fluorescent T8 tube)
- Quick and simple installation
- Energy saving compared to T5 or T8 fluorescent lamps
- Simple system construction
- Self-cooling, no additional heat sink required
- Homogeneous illumination without shadows

Product features

- Poke-in wire connection for 0.5 mm² wire
- VDE-certified safety
- High initial color consistency: 4 SDCM
- Geometry according to Zhaga specification
- CE marked and UL listed
- High module efficacy: up to 130 lm/W



Product family datasheet

- Lifetime (L70/B50): 50,000 h

Product family datasheet

Technical data

Electrical data

Product description	Nominal current	Nominal wattage	Rated wattage	Type of current
PLVZ1-LIN 650-830-280	0.125 A	4.60 W	4.60 W	DC
PLVZ1-LIN 650-840-280	0.125 A	4.60 W	4.60 W	DC
PLVZ1-LIN 1100-830-280	0.25 A	7.70 W	7.70 W	DC
PLVZ1-LIN 1100-840-280	0.25 A	7.70 W	7.70 W	DC
PLVZ1-LIN 1300-830-560	0.25 A	9.10 W	9.10 W	DC
PLVZ1-LIN 1300-840-560	0.25 A	9.10 W	9.10 W	DC
PLVZ1-LIN 2200-830-560	0.5 A	15.30 W	15.30 W	DC
PLVZ1-LIN 2200-840-560	0.5 A	15.30 W	15.30 W	DC

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color LED	Luminous flux	Luminous efficacy
PLVZ1-LIN 650-830-280	3000 K	> 80	white	609 lm	121 lm/W
PLVZ1-LIN 650-840-280	4000 K	> 80	white	646 lm	128 lm/W
PLVZ1-LIN 1100-830-280	3000 K	> 80	white	1016 lm	121 lm/W
PLVZ1-LIN 1100-840-280	4000 K	> 80	white	1077 lm	128 lm/W
PLVZ1-LIN 1300-830-560	3000 K	> 80	white	1218 lm	122 lm/W
PLVZ1-LIN 1300-840-560	4000 K	> 80	white	1292 lm	130 lm/W
PLVZ1-LIN 2200-830-560	3000 K	> 80	white	2031 lm	122 lm/W
PLVZ1-LIN 2200-840-560	4000 K	> 80	white	2154 lm	130 lm/W

Light technical data

Product description	Beam angle
PLVZ1-LIN 650-830-280	115 °
PLVZ1-LIN 650-840-280	115 °
PLVZ1-LIN 1100-830-280	115 °
PLVZ1-LIN 1100-840-280	115 °
PLVZ1-LIN 1300-830-560	115 °
PLVZ1-LIN 1300-840-560	115 °
PLVZ1-LIN 2200-830-560	115 °
PLVZ1-LIN 2200-840-560	115 °

LED module information

Product description	Number of LEDs per module
PLVZ1-LIN 650-830-280	12
PLVZ1-LIN 650-840-280	12

Product family datasheet

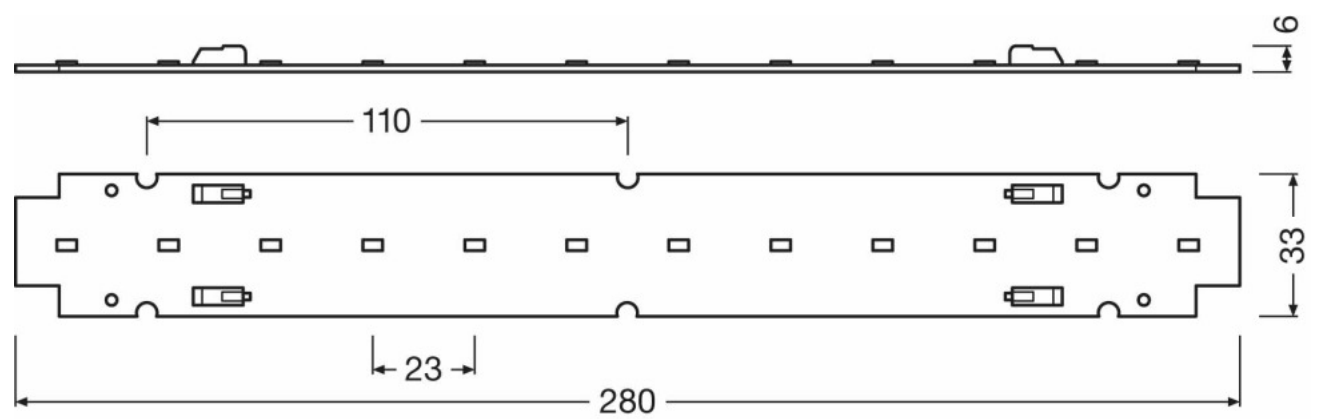
Product description	Number of LEDs per module
PLVZ1-LIN 1100-830-280	20
PLVZ1-LIN 1100-840-280	20
PLVZ1-LIN 1300-830-560	24
PLVZ1-LIN 1300-840-560	24
PLVZ1-LIN 2200-830-560	40
PLVZ1-LIN 2200-840-560	40

Dimensions & weight

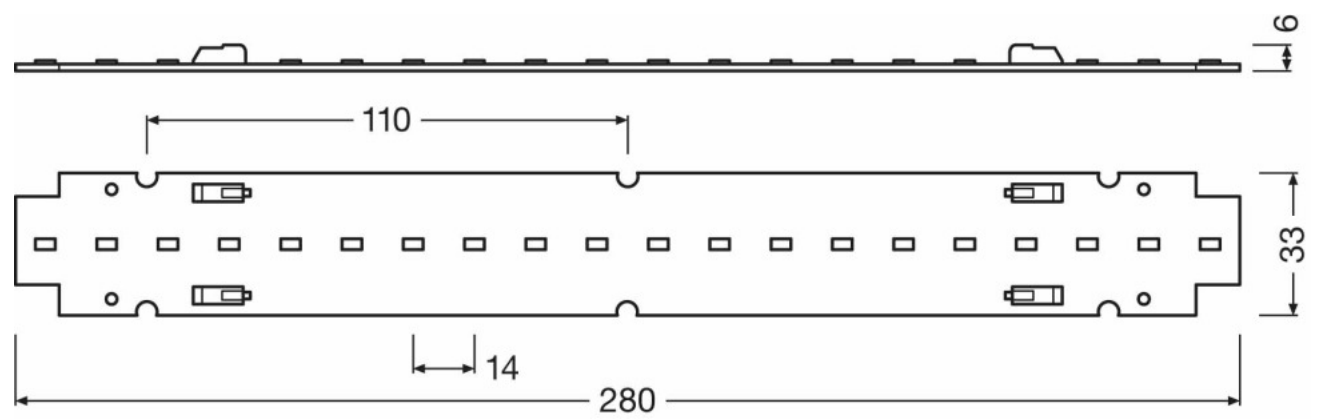
Product description	Product weight	Length
PLVZ1-LIN 650-830-280	27.00 g	280.0 mm
PLVZ1-LIN 650-840-280	27.00 g	280.0 mm
PLVZ1-LIN 1100-830-280	28.00 g	280.0 mm
PLVZ1-LIN 1100-840-280	28.00 g	280.0 mm
PLVZ1-LIN 1300-830-560	55.00 g	560.0 mm
PLVZ1-LIN 1300-840-560	55.00 g	560.0 mm
PLVZ1-LIN 2200-830-560	57.00 g	560.0 mm
PLVZ1-LIN 2200-840-560	57.00 g	560.0 mm

Product family datasheet

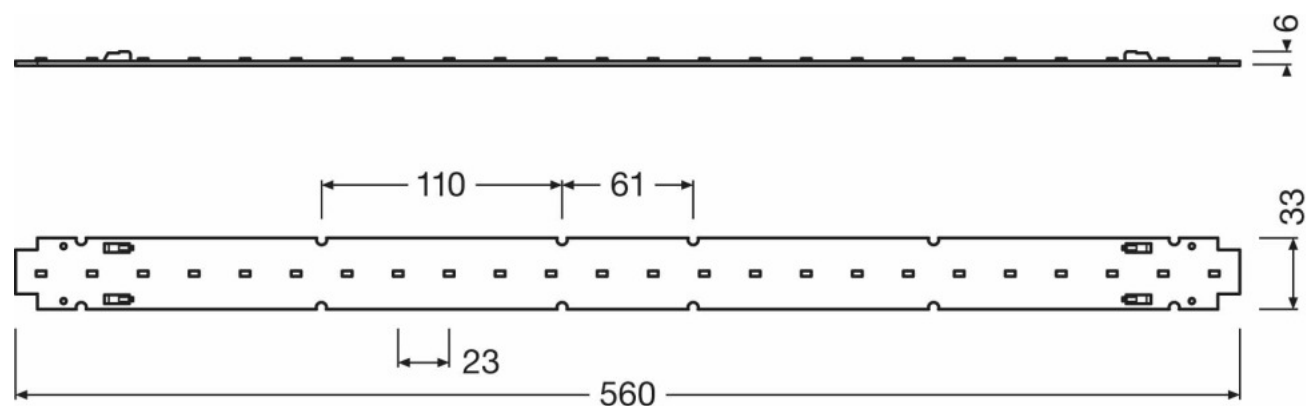
Product line drawing



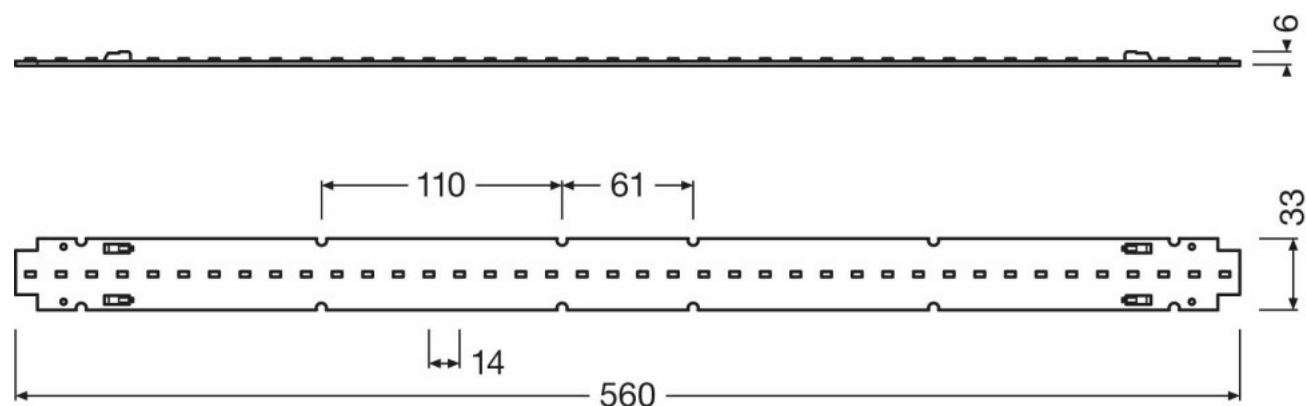
PLVZ1-LIN 650-830-280, PLVZ1-LIN 650-840-280



PLVZ1-LIN 1100-830-280, PLVZ1-LIN 1100-840-280



PLVZ1-LIN 1300-830-560, PLVZ1-LIN 1300-840-560



PLVZ1-LIN 2200-830-560, PLVZ1-LIN 2200-840-560

Temperatures

Product description	Maximum temperature at tc test point	Ambient temperature range	Temperature range at storage
PLVZ1-LIN 650-830-280	70 °C	-20...+45 °C	-20...85 °C

Product family datasheet

Product description	Maximum temperature at tc test point	Ambient temperature range	Temperature range at storage
PLVZ1-LIN 650-840-280	70 °C	-20...+45 °C	-20...85 °C
PLVZ1-LIN 1100-830-280	70 °C	-20...+45 °C	-20...85 °C
PLVZ1-LIN 1100-840-280	70 °C	-20...+45 °C	-20...85 °C
PLVZ1-LIN 1300-830-560	70 °C	-20...+45 °C	-20...85 °C
PLVZ1-LIN 1300-840-560	70 °C	-20...+45 °C	-20...85 °C
PLVZ1-LIN 2200-830-560	70 °C	-20...+45 °C	-20...85 °C
PLVZ1-LIN 2200-840-560	70 °C	-20...+45 °C	-20...85 °C

Lifespan

Product description	Lifespan
PLVZ1-LIN 650-830-280	50000 h
PLVZ1-LIN 650-840-280	50000 h
PLVZ1-LIN 1100-830-280	50000 h
PLVZ1-LIN 1100-840-280	50000 h
PLVZ1-LIN 1300-830-560	50000 h
PLVZ1-LIN 1300-840-560	50000 h
PLVZ1-LIN 2200-830-560	50000 h
PLVZ1-LIN 2200-840-560	50000 h

Capabilities

Product description	Dimmable
PLVZ1-LIN 650-830-280	Yes
PLVZ1-LIN 650-840-280	Yes
PLVZ1-LIN 1100-830-280	Yes
PLVZ1-LIN 1100-840-280	Yes
PLVZ1-LIN 1300-830-560	Yes
PLVZ1-LIN 1300-840-560	Yes
PLVZ1-LIN 2200-830-560	Yes
PLVZ1-LIN 2200-840-560	Yes

Application advice

For more detailed application information and graphics please see product datasheet.

Additional product information

- Please see the relevant application guides and instructions sheets for more detailed safety and mounting information. Additional information is available on request.
- The LED engine needs to be built into a luminaire.
- Complies with IEC/EN 60598-1
- Complies with IEC/EN 62031
- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2

Product family datasheet

- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 62717
- Do not look directly or with optical aids into the light source (complies with IEC/EN 62471, risk group RG II).
- Do not look directly or with optical aids into the light source (complies with IEC/EN 62471, risk group RG III).
- Not suitable for operation with line voltage.
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- In order to operate OSRAM LED modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply that protects against short circuits, overload and overheating.
- In case other power supplies than OSRAM OPTOTRONIC are used, compliance to the necessary operating parameters (voltage, current, power) has to be ensured.
- Pay attention to polarity! Wrong polarity can cause destruction or malfunction of the module.
- ESD precautions have to be observed for mounting.
- The LED module itself and all its components must not be stressed mechanically.
- The module must not be attached to wood or other flammable materials.
- Operation in or under water is prohibited.
- Protect against splashes!
- The LED modules must not be operated in damp conditions without housing. Hence the LED module has to be protected by suitable housings.
- The module, as manufactured, has no inherent protection against corrosion. It is the user's responsibility to provide suitable protection against corrosive agents, such as moisture, condensation and other harmful elements.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- In case that the LED module is equipped with a pre-mounted double-sided adhesive tape, OSRAM assumes no liability and provides no guarantee for a permanent adherence of the modules to the surface. OSRAM recommends fixation of the modules by means of suitable screws.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	Product Family Datasheet PrevaLED Linear Value Preliminary Datasheet
	Declarations of conformity EC-DoC PLVZ1-LIN
	CAD data PLVZ1-Lin-650_LEP+650(STP+file)
	CAD data PLVZ1-Lin-1100_LEP+1100(STP+file)
	CAD data PLVZ1-Lin-1300_LEP+1300(STP+file)
	CAD data PLVZ1-Lin-2200_LEP+2200(STP+file)

Product family datasheet

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899914797	PLVZ1-LIN 650-830-280	Shipping carton box 40	364 mm x 251 mm x 102 mm	9.32 dm ³	1756.00 g
4052899914810	PLVZ1-LIN 650-840-280	Shipping carton box 40	364 mm x 251 mm x 102 mm	9.32 dm ³	1756.00 g
4052899914834	PLVZ1-LIN 1100-830-280	Shipping carton box 40	364 mm x 251 mm x 102 mm	9.32 dm ³	1796.00 g
4052899914858	PLVZ1-LIN 1100-840-280	Shipping carton box 40	364 mm x 251 mm x 102 mm	9.32 dm ³	1796.00 g
4052899914872	PLVZ1-LIN 1300-830-560	Shipping carton box 40	644 mm x 276 mm x 102 mm	18.13 dm ³	3421.00 g
4052899914896	PLVZ1-LIN 1300-840-560	Shipping carton box 40	644 mm x 276 mm x 102 mm	18.13 dm ³	3421.00 g
4052899914919	PLVZ1-LIN 2200-830-560	Shipping carton box 40	644 mm x 276 mm x 102 mm	18.13 dm ³	3501.00 g
4052899914933	PLVZ1-LIN 2200-840-560	Shipping carton box 40	644 mm x 276 mm x 102 mm	18.13 dm ³	3501.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.