

PRODUCT FAMILY DATASHEET

LED STRIP VALUE-1400

LED strips with 1400 lm/m for general applications



AREAS OF APPLICATION

- General indoor illumination
- Private living areas

PRODUCT BENEFITS

- Great scope of design options due to long and flexible LED strips
- Easy mounting on many smooth surfaces thanks to self-adhesive tape
- Maximum flexibility due to large range of accessories
- Simple connection thanks to integrated cables on both sides

PRODUCT FEATURES

- Flexible and cuttable LED strip
- Smallest cuttable unit: 100 mm
- Lifetime (L70/B50): up to 20,000 h at Tc max.: 65°C
- Luminous flux: 1400 lm/m
- Color rendering index R_a : > 80
- Available with light color: Warm White, White, Daylight
- Dimmable with suitable drivers, see also www.ledvance.com/dim



TECHNICAL DATA

Electrical data

Product description	Rated wattage	Nominal wattage	Nominal wattage per meter	Reverse Voltage	Nominal voltage	Input voltage range
LS VAL -1400/827/5	61.00 W	61.00 W	12.0 W ¹⁾	25 V ²⁾	24 V ²⁾	23...25 V ³⁾
LS VAL -1400/830/5	61.00 W	61.00 W	12.0 W ¹⁾	25 V ²⁾	24 V ²⁾	23...25 V ³⁾
LS VAL -1400/840/5	61.00 W	61.00 W	12.0 W ¹⁾	25 V ²⁾	24 V ²⁾	23...25 V ³⁾
LS VAL -1400/865/5	61.00 W	61.00 W	12.0 W ¹⁾	25 V ²⁾	24 V ²⁾	23...25 V ³⁾

¹⁾ Value based on first meter of the product

²⁾ V_{DC}

³⁾ V_{DC}

Photometrical data

Product description	Color temperature	Standard deviation of color matching	Light color LED	Luminous flux per meter	Luminous flux	Luminous efficacy	Color rendering index Ra
LS VAL -1400/827/5	2700 K	≤6 sdc	Warm white	1400 lm ¹⁾	5440 lm	117.0 lm/W ¹⁾	>80
LS VAL -1400/830/5	3000 K	≤6 sdc	White	1420 lm ¹⁾	5511 lm	118.0 lm/W ¹⁾	>80
LS VAL -1400/840/5	4000 K	≤6 sdc	Cool white	1450 lm ¹⁾	5618 lm	121.0 lm/W ¹⁾	>80
LS VAL -1400/865/5	6500 K	≤6 sdc	Daylight	1450 lm ¹⁾	5618 lm	121.0 lm/W ¹⁾	>80

¹⁾ Value based on first meter of the product

Light technical data

Product description	Beam angle
LS VAL -1400/827/5	120 °
LS VAL -1400/830/5	120 °
LS VAL -1400/840/5	120 °
LS VAL -1400/865/5	120 °

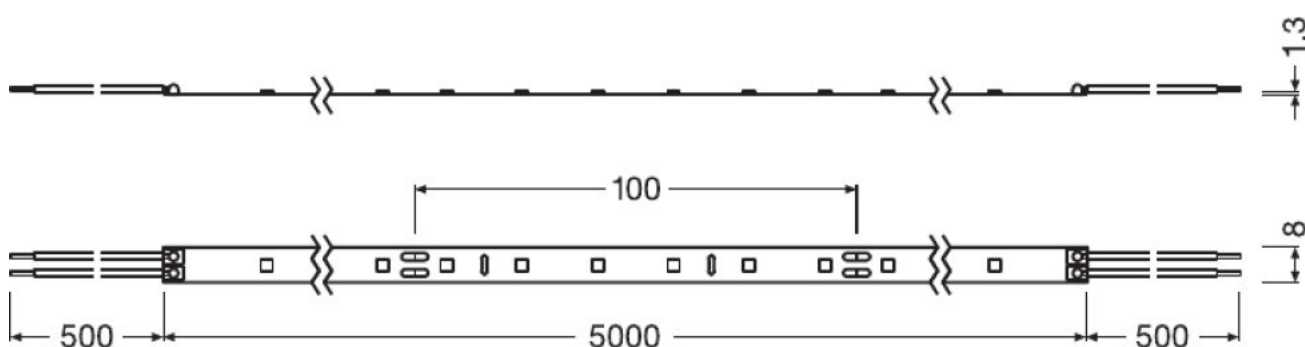
LED module information

Product description	Number of LEDs per meter	Number of LEDs per module
LS VAL -1400/827/5	70	350
LS VAL -1400/830/5	70	350
LS VAL -1400/840/5	70	350
LS VAL -1400/865/5	70	350

Dimensions & weight

Product description	Length	Width	Cable length	Product weight
LS VAL -1400/827/5	5000 mm	8.00 mm	500 mm	74.00 g
LS VAL -1400/830/5	5000 mm	8.00 mm	500 mm	74.00 g
LS VAL -1400/840/5	5000 mm	8.00 mm	500 mm	74.00 g
LS VAL -1400/865/5	5000 mm	8.00 mm	500 mm	74.00 g

Product line drawing



LS VAL -1400/827/5, LS VAL -1400/830/5, LS VAL -1400/840/5, LS VAL -1400/865/5

Temperatures & operating conditions

Product description	Ambient temperature range	Temperature range in operation
LS VAL -1400/827/5	-20...+40 °C ¹⁾	-20...+65 °C ²⁾
LS VAL -1400/830/5	-20...+40 °C ¹⁾	-20...+65 °C ²⁾
LS VAL -1400/840/5	-20...+40 °C ¹⁾	-20...+65 °C ²⁾
LS VAL -1400/865/5	-20...+40 °C ¹⁾	-20...+65 °C ²⁾

¹⁾ Providing that temperature at T_c point is below max value during operation

²⁾ At the T_c point

Lifespan

Product description	Lifespan
LS VAL -1400/827/5	20000 h ¹⁾
LS VAL -1400/830/5	20000 h ¹⁾
LS VAL -1400/840/5	20000 h ¹⁾
LS VAL -1400/865/5	20000 h ¹⁾

¹⁾ L70/B50 at Tc max. 65°C

Capabilities

Product description	Lowest bending radius	Self-adhesive	Dimmable	Reverse polarity protection
LS VAL -1400/827/5	30 mm	Yes	Yes	Yes ¹⁾
LS VAL -1400/830/5	30 mm	Yes	Yes	Yes ¹⁾
LS VAL -1400/840/5	30 mm	Yes	Yes	Yes ¹⁾
LS VAL -1400/865/5	30 mm	Yes	Yes	Yes ¹⁾

¹⁾ Up to maximum 25 V_{DC}

Certificates & standards

Product description	Energy consumption	Energy efficiency class	Type of protection
LS VAL -1400/827/5	14 kWh/1000h ¹⁾	A+ ¹⁾	IP00
LS VAL -1400/830/5	14 kWh/1000h ¹⁾	A+ ¹⁾	IP00
LS VAL -1400/840/5	14 kWh/1000h ¹⁾	A+ ¹⁾	IP00
LS VAL -1400/865/5	14 kWh/1000h ¹⁾	A+ ¹⁾	IP00

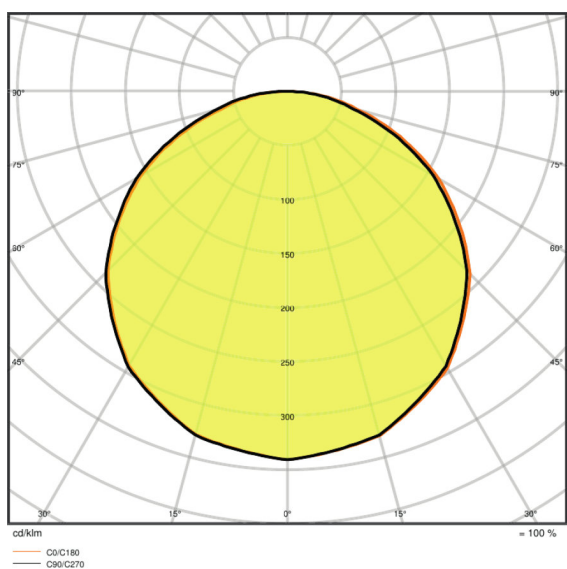
Product description	Standards
LS VAL -1400/827/5	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547
LS VAL -1400/830/5	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547
LS VAL -1400/840/5	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547
LS VAL -1400/865/5	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547

¹⁾ Value based on first meter of the product

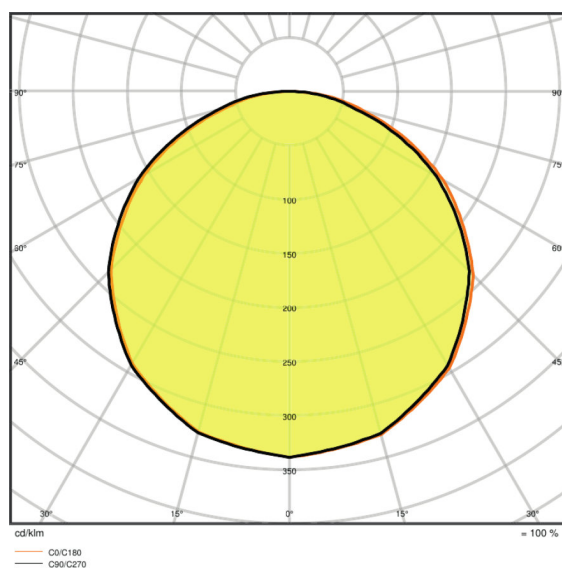
Logistical data

Product description	Temperature range at storage
LS VAL -1400/827/5	-20...+85 °C
LS VAL -1400/830/5	-20...+85 °C
LS VAL -1400/840/5	-20...+85 °C
LS VAL -1400/865/5	-20...+85 °C

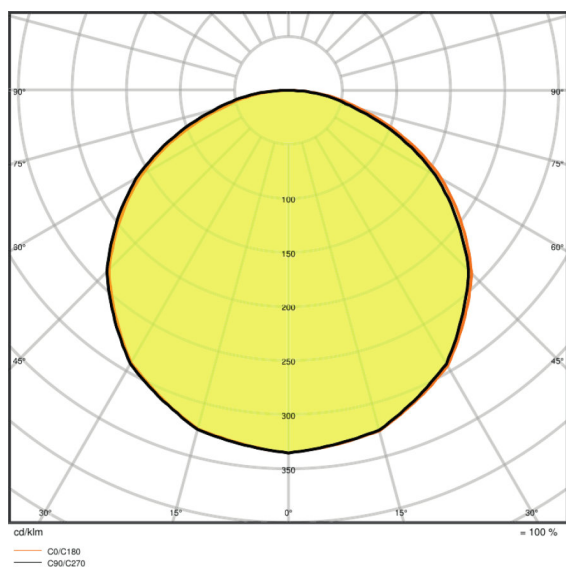
Light Distribution



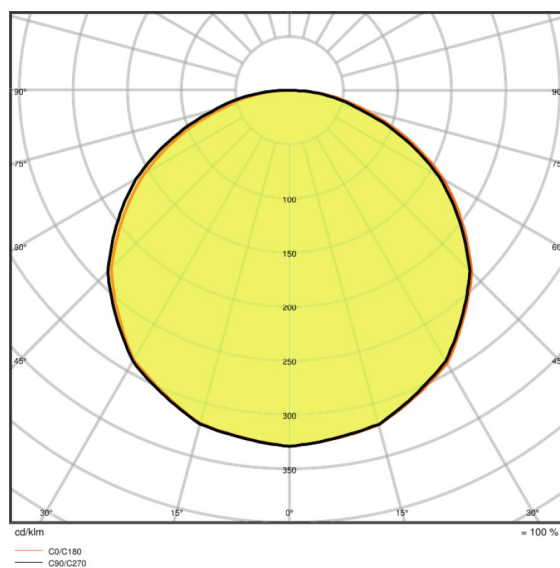
LS VAL -1400/827/5



LS VAL -1400/830/5



LS VAL -1400/840/5



LS VAL -1400/865/5

APPLICATION ADVICE

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

ADDITIONAL PRODUCT INFORMATION

- All the technical parameters apply to the entire LED module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.
- All LED strips have a self-adhesive tape on the reverse side. LED strips can be attached to suitable materials, e.g. aluminum profiles. The surface of the material must be free of grease, oil, silicone and dirt particles. The adhesive tape can be used only one time, if the LED strip will be removed from the mounting surface, there could be a damage of the LED strips and the mounting material. The surface temperature of the mounting material should be in the temperature range of 18°C...35°C. Complete adhesion takes up to 72 h.
- According IPC 6013C – Use A the LED strips are designed for static installation. Vibrations, respective torsion and elongation/compression must be considered.
- In a wide temperature range operation field (e.g. outdoor installation) and a LED strip length with more than 2m suitable mounting surface is required. To avoid stress due to mismatch in expansion of the different materials, there should be an extra thicker adhesive tape between LED strip and mounting surface. Additionally, the LED strip should have enough space for thermal expansion at higher temperatures.
- Compensation due to chemical corrosion is excluded. A suitable protection against corrosive agents such as moisture, condensation etc. must be provided. Hydrogen sulfide (H₂S) will cause an accelerated corrosion which leads to shortened lifetime or premature failure.
- IP00 LED strips have not surface coating. Consequently, they have no protection against contact and corrosion.
- Installation of the LED strip has to be done by a qualified electrician.
- Handle with care to avoid mechanical product damage
- If the maximum operating and storage temperature ratings will be exceeded, the expected lifetime will be reduced or even the LED strip will be destroyed. It is not allowed to operate the LED strip over the specified T_c temperature (acc. EN 60598-1 under steady state conditions)

- It is not allowed to exceed the maximum operation voltage. This could cause a hazardous overload and will destroy the LED strip.
- The applicable electrical and safety standards have to be maintained for a LED strip installations
- Pay attention on correct polarity. Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.
- Galvanic Insulation between LED strip and mounting surface must be ensured. This Insulation is needed especially in the area of connections or cut ends.
- In installations of LED strips ESD safety must be taken in account. Adequate precautions during installation and operation for the products are required.
- LED strip can be operated only by a SELV LED driver, which comply with the applicable lighting standards and fits to LED strips rating. A safety operation of the LED strips require a SELV LED driver with an electronically stabilized power supply protection against short circuits, overload and overheating.
- To avoid a damage of the LED strip, the unmounted LED strip should be handled and stored only in the original LEDVANCE packaging (wheel / ESD bag). Repacking is not allowed. Cutted IP 6x LED strips can be stored only with mounted endcaps.

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

COUNTRY SPECIFIC INFORMATION

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
LS VAL -1400/827/5	4058075296848	-	-	4246050	-
LS VAL -1400/830/5	4058075296879	-	-	4246051	-
LS VAL -1400/840/5	4058075296909	-	-	4246052	-
LS VAL -1400/865/5	4058075296961	-	-	4246053	-

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075296855	Shipping carton box 10	260 mm x 260 mm x 265 mm	3041.00 g	17.91 dm ³
4058075296886	Shipping carton box 10	260 mm x 260 mm x 265 mm	3041.00 g	17.91 dm ³
4058075296916	Shipping carton box 10	260 mm x 260 mm x 265 mm	3041.00 g	17.91 dm ³
4058075296978	Shipping carton box 10	260 mm x 260 mm x 265 mm	3041.00 g	17.91 dm ³

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.

ACCESSORIES MANDATORY

Product description	Accessory name	Accessory code
LS VAL -1400/827/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075240025
LS VAL -1400/827/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -100/220-240/24/P	▶ 4058075240087

LS VAL -1400/827/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -150/220-240/24/P	▶ 4058075240124
LS VAL -1400/827/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -250/220-240/24/P	▶ 4058075240162
LS VAL -1400/827/5	LED DRIVER VALUE, -60/220-240/24	▶ 4058075240100
LS VAL -1400/827/5	LED DRIVER VALUE, -120/220-240/24	▶ 4058075240148
LS VAL -1400/827/5	LED DRIVER VALUE, -150/220-240/24	▶ 4058075240186
LS VAL -1400/827/5	LED DRIVER OUTDOOR PERFORMANCE, -100/220-240/24/P	▶ 4058075239944
LS VAL -1400/827/5	LED DRIVER OUTDOOR PERFORMANCE, -150/220-240/24/P	▶ 4058075239982
LS VAL -1400/827/5	LED DRIVER OUTDOOR PERFORMANCE, -250/220-240/24/P	▶ 4058075240049
LS VAL -1400/827/5	LED DRIVER OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075239920
LS VAL -1400/830/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075240025
LS VAL -1400/830/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -100/220-240/24/P	▶ 4058075240087
LS VAL -1400/830/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -150/220-240/24/P	▶ 4058075240124
LS VAL -1400/830/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -250/220-240/24/P	▶ 4058075240162
LS VAL -1400/830/5	LED DRIVER VALUE, -60/220-240/24	▶ 4058075240100
LS VAL -1400/830/5	LED DRIVER VALUE, -120/220-240/24	▶ 4058075240148
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LS VAL -1400/830/5	LED DRIVER OUTDOOR PERFORMANCE, -250/220-240/24/P	▶ 4058075240049
LS VAL -1400/830/5	LED DRIVER OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075239920
LS VAL -1400/840/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075240025
LS VAL -1400/840/5	LED DRIVER 1-10 V DIM OUTDOOR PERFORMANCE, -100/220-240/24/P	▶ 4058075240087
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LS VAL -1400/840/5	LED DRIVER OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075239920
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LS VAL -1400/865/5	LED DRIVER OUTDOOR PERFORMANCE, -60/220-240/24/P	▶ 4058075239920

ACCESSORIES OPTIONAL

Product description	Accessory name	Accessory code
LS VAL -1400/827/5	LED Strip Profiles Wide, -PW01/U/26X8/14/1	▶ 4058075278127
LS VAL -1400/827/5	LED Strip Profiles Wide, -PW02/UW/39X26/14/1	▶ 4058075278158
LS VAL -1400/827/5	LED Strip Profiles Wide, -PW03/U/26X26/14/1	▶ 4058075278189
LS VAL -1400/827/5	LED Strip Profiles Flat, -PF01/UW/22X6/10/1	▶ 4058075278219
LS VAL -1400/827/5	LED Strip Profiles Flat, -PF02/U/16X5/10/1	▶ 4058075278240
LS VAL -1400/827/5	LED Strip Profiles Flat, -PF03/UW/25X7/12/1	▶ 4058075278271
LS VAL -1400/827/5	LED Strip Profiles Flat, -PF04/U/17X7/12/1	▶ 4058075278301
LS VAL -1400/827/5	LED Strip Profiles Medium, -PM01/UW/21,5X12/10/1	▶ 4058075278332
LS VAL -1400/827/5	LED Strip Profiles Medium, -PM02/R/18X15,5/10/1	▶ 4058075278363
LS VAL -1400/827/5	LED Strip Profiles Medium, -PM03/E/19X19/10/1	▶ 4058075278394
LS VAL -1400/827/5	LED Strip Profiles Medium, -PM04/UW/23X15,5/10/1	▶ 4058075278424
LS VAL -1400/827/5	LED Strip Profiles Medium, -PM05/U/17,5X14,5/10/1	▶ 4058075279292
LS VAL -1400/827/5	LED Strip Profiles Medium, -PM06/E/18X18/12/1	▶ 4058075279322
LS VAL -1400/830/5	LED Strip Profiles Wide, -PW01/U/26X8/14/1	▶ 4058075278127
LS VAL -1400/830/5	LED Strip Profiles Wide, -PW02/UW/39X26/14/1	▶ 4058075278158
LS VAL -1400/830/5	LED Strip Profiles Wide, -PW03/U/26X26/14/1	▶ 4058075278189
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LS VAL -1400/865/5	LED Strip Profiles Medium, -PM04/UW/23X15,5/10/1	▶ 4058075278424
LS VAL -1400/865/5	LED Strip Profiles Medium, -PM05/U/17,5X14,5/10/1	▶ 4058075279292
LS VAL -1400/865/5	LED Strip Profiles Medium, -PM06/E/18X18/12/1	▶ 4058075279322

DISCLAIMER

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