LED SPOT





tiny – residential and furniture lighting

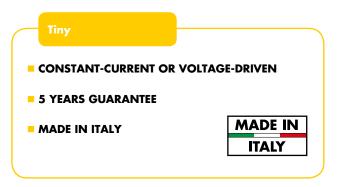
Extremely small round one-single-LED spotlight perfect for a brilliant effect on your shelves.

The LEDSpot Tiny is a powerful, high-quality, easily customizable spotlight similar to a diamond. It is ideal to give a fresh look and to simply astonish your customers.

Typical applications

- Furniture lighting
- Residential lighting
- Retail lighting (shelves)





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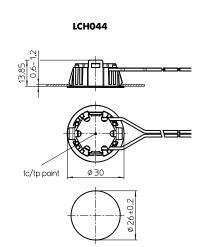
Tiny - 350 mA

Complete LEDSpot equipped with optics, leads and metal frame

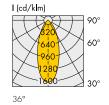
Technical notes

Metal frame: round For cut-out: Ø 26 mm Beam angle: 36° Colour accuracy: 3SDCM CRI: R_a 80 Leads: Cu tinned, stranded conductors AWG22, PVC-insulation, lengths: 250 mm Use of external LED constant-current drivers Snap-in plastic clips for easy installation Degree of protection: IP20 Allowed ambient temperature: 0 to 35 °C Allowed storage temperature: -30 to 60 °C Lumen maintenance L70/B50: 50,000 hrs. (t_c/t_p = 80 °C) Max. operating temperature at t_c/t_p point: 90 °C

Weight: 10.6 g Packaging unit: 40 pcs.







Туре	Description	Ref. No.		Colour	Correlated	Typ. luminous flux* (lm), typ.	Тур.	Beam	Light intensity	Energy
		Frame colou	ır		colour	voltage* (U _{typ.}) and typ. power	CRI	angle	at 350 mA	efficiency
		silver	white		temperature (K)	consumption* (P _{el}) at 350 mA	Ra	0	Candela	at 350 mA
Tiny - 350	Tiny – 350 mA					P _{el} = 0.98 W, U _{typ.} = 2.8 V				
LCH044	Tiny 219 3000K	563913	565884	warm white	3000	130	80	36	220	A++
LCH044	Tiny 219 4500K	563915	565885	neutral white	4500	140	80	36	240	A++

Emission data at tj = 80 °C | * Measurement tolerance of luminous flux, voltage, power consumption: ± 5% | Further colour temperatures on request

LED Drivers

You will find more information about our LED drivers on our website: **www.vossloh-schwabe.com**

Capacity range W	Output current DC mA	Output voltage DC V	Ref. No.	Туре	Dimming	Max. service life time hrs. at 70 °C	Connection	Dimensions LxWxH mm
IP20								
8.75	350	3-25	186519	ECXe 350.018	no	100,000	screw	65x30.7x21.5
11	350	2-32	186679	ECXe 350.009	no	50,000	screw	128x37x28

Please ensure you choose the correct LED driver for the module in question and that the respective output parameters (current, voltage, wattage) are correct



Tiny Kit

Kit for installation of 3–5 Tiny spots

Plug and Play kit for easy and fast connection Consisting of constant-current LED driver 186341 and 5 Tiny spots (the number of spots can be reduced to three) and connection cables Total power consumption of the kit: 6.6 W Packaging unit: 1 pcs.

Technical notes

Metal frame: white, round For cut-out: Ø 26 mm Beam angle: 36° Colour accuracy: 3SDCM CRI: R_0 80 Leads: Cu tinned, stranded conductors AWG22, PVC-insulation, lengths: 250 mm Snap-in plastic clips for easy installation Degree of protection: IP20 Allowed ambient temperature: 0 to 35 °C Allowed storage temperature: -30 to 60 °C Lumen maintenance L70/B50: 50,000 hrs. ($t_c/t_p = 80$ °C) Max. operating temperature at t_c/t_p point: 90 °C Weight of 5 spots and 1 driver: 250 g

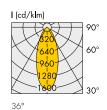
LED drivers

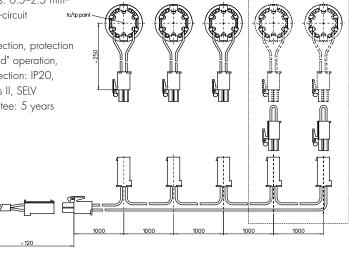
Dimensions: 122.8x45x19 mm

EasyLine LED driver 186341

Type: ECXe 350.078 Dimensions: 122.8x45x19 mm Mains voltage: 220-240 V ±10% Mains frequency: 50–60 Hz Max. output: 12.6 W Current output DC: 350 mA Voltage output DC: 8.4–36 V Power factor at full load: > 0.5 Screw terminals: 0.5–2.5 mm² Electronic short-circuit protection Overload protection, protection against "no load" operation, degree of protection: IP20, protection class II, SELV Product guarantee: 5 years







Туре	Description	Ref. No.	Colour	Correlated Typ. luminous flux* (lm), typ. T		Тур.	Beam	Light intensity	Energy
				colour	voltage* (U _{typ.}) and typ. power	CRI	angle	at 350 mA	efficiency
				temperature (K)	consumption* (P _{el}) at 350 mA	Ra	0	Candela	at 350 mA
					Pel = 0.98 W, U _{typ.} = 2.8 V				
LCH044	Tiny 219 3000K KIT	566611	warm white	3000	130**	80	36	220**	A++
LCH044	Tiny 219 4500K KIT	568434	neutral white	4500	140**	80	36	240**	A++

Emission data at $t_j = 80$ °C | * Measurement tolerance of luminous flux, voltage, power consumption: $\pm 5\%$ | ** Values for a single spot Further colour temperatures or frame colours on request

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

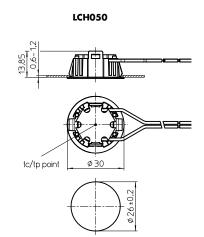
Tiny - 12 V DC

Complete LEDSpot equipped with optics, leads and metal frame

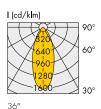
Technical notes

Metal frame: round For cut-out: Ø 26 mm LEDSpot with 3 LEDs Beam angle: 36° CRI: R_a 80 Leads: Cu tinned, stranded conductors AVVG22, PVC-insulation, lengths: 250 mm Use of external LED constant-voltage converter Snap-in plastic clips for easy installation Degree of protection: IP20 Allowed ambient temperature: 0 to 35 °C Allowed storage temperature: -30 to 60 °C Lumen maintenance L70/B50: 50,000 hrs. (t_c/t_p = 80 °C) Max. operating temperature at t_c/t_p point: 90 °C

Max. operating temperature at t_c/t_p point: 90 °C Weight: 10.6 g Packaging unit: 40 pcs.







Туре	Description	Ref. No.		Colour	Correlated	Max. power	Typ. luminous	Тур.	Beam	Light intensity	Energy
		Frame colour			colour	consumption	flux	CRI	angle		efficiency
		silver	white		temperature (K)	\sim	lm	Ra	0	Candela	
Tiny - 12	V DC										
LCH050	Tiny Wi 12 V	569263	569264	warm white	3000	1.1	100	80	36	170	A++
LCH050	Tiny Wi 12 V	568264	569265	neutral white	4000	1.1	105	80	36	180	A++

Emission data at tj = 80 °C | * Measurement tolerance of luminous flux, voltage, power consumption: ± 5% | Further colour temperatures on request

LED Converters

You will find more information about our LED drivers on our website: **www.vossloh-schwabe.com**

Capacity range	Mains voltage	Output current	Ref. No.	Version	Max. service	Service	Connection	Dimensions
	50–60 Hz				life time	life time		LxWxH
\sim	V ±10 %	A			hrs.	at °C		mm
12 V								
6	220-240	0-0.5	186412	EasyLine	50,000	55	Preassembled leads	81.6x42.5x23
12	220-240	0-1	186204	ComfortLine	100,000	65	Screw terminals	103.5x36x22
20	220-240	0-1.68	186620	EasyLine	50,000	65	Screw terminals	123x45x19
60	220-240	0–5	186621	EasyLine	50,000	70 / 80	Screw terminals	180x52x30
75	220-240	0-6.25	186622	EasyLine	50,000	75	Screw terminals	180x52x30
100	220-240	0-8.4	186623	EasyLine	50,000	70 / 80	Screw terminals	300x40x30

Please ensure you choose the correct LED driver for the module in question and that the respective output parameters (current, voltage, wattage) are correct

Tiny – Installation Instruction

General safety information

- VS product may only be installed and commissioned by authorised and fully qualified staff.
- These instructions must be carefully read before installing and commissioning the system, as this is the only way to ensure safe and correct handling.
- An external driver for 350 mA or 12 V converter are required (included with the Tiny Kit Ref. No.: 566611/568434).
- Before any work is carried out on the equipment, it must be disconnected from the mains.
- All valid safety and accident-prevention regulations must be observed.
- The products should never be inexpertly opened. Repairs may only be undertaken by the manufacturer.
- Dimming: The dimming characteristics of the installed driver have to be observed.
- The photo biological safety of the LED modules is classified into risk groups in accordance with EN 62471: 2008 and IEC TR 62778: risk group 1.
- Do not use LEDSpots Tiny in locations containing a bath or shower; LEDSpots Tiny are IP20 protected.

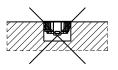
See drawing and cut out for each product on previous pages

Built-in

Correct position







All VS LED Spots at a glance

Tiny

EffectLine

or 38°

Versions: CC

FlatLine

and metal frame

For cut-out: Ø 56 mm

Beam angle: 60°, 70°

SmartLine COB

leads and metal frame

For cut-out: Ø 56 mm Beam angle: 40°

Versions: CC

SmartLine SMD

leads and metal frame

For cut-out: Ø 56 mm

Beam angle: 36°, 40°

Lumen output: max. 250 lm Versions: CC, CV

Lumen output: max. 270 lm

Versions: CC, CV, TW, Kit

LEDSpot with optics, heat sink,

Lumen output: max. 330 lm

LEDSpot with optics, heat sink,

leads and metal frame

For cut-out: Ø 37 mm

LEDSpot with optics, leads

LEDSpot with optics, leads and metal frame For cut-out: Ø 26 mm Beam angle: 36° Lumen output: max. 140 lm Versions: CC, CV, Kit











StartLine

LEDSpot with optics, heat sink, leads and frame For cut-out: Ø 56 mm Beam angle: 30°, 36°, 38° Lumen output: max. 250 lm Versions: CC, CV

IPLine

LEDSpot IP54 with optics, heat sink, leads and metal frame For cut-out: Ø 56 mm Beam angle: 40° Lumen output: max. 330 lm Versions: CC

DiscLine

LEDSpot with optics, heat sink, leads and metal frame For cut-out: Ø 56 mm Beam angle: 45°, 55° Lumen output: max. 220 lm Versionen CC

SoftLine LEDSpot with heat sink, leads and metal frame For cut-out: Ø 56 mm Beam angle: 90° Lumen output: max. 225 lm Versions: CV

Revo

LEDSpot with optics and frame For cut-out: 67.5x25x5 mm Beam angle: 60°, 70° Lumen output: max. 255 lm Versions: CC, CV, TW











