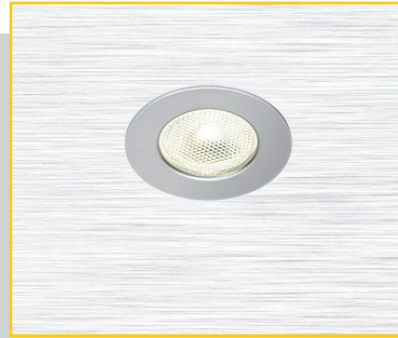


## LED SPOT

### TINY



## 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

- Replacement of residential spots with G4 lamps
- Residential lighting
- Furniture lighting
- Retail lighting (shelves)



## Tiny

**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<sub>a</sub> 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

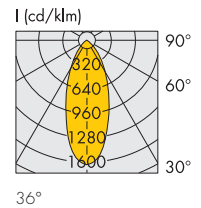
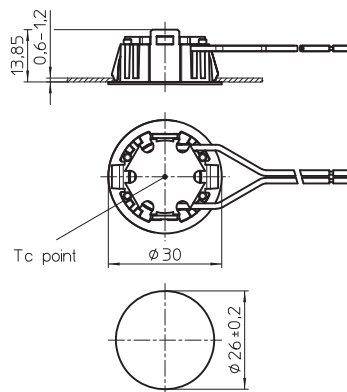
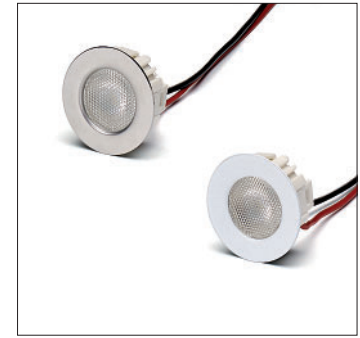
Lumen maintenance L70/B50:

50,000 hrs. (t<sub>c</sub> = 75 °C)

Max. operating temperature at t<sub>c</sub> point: 100 °C

Weight: 10.6 g

Packaging unit: 40 pcs.



Type	Description	Ref. No.	Colour	Correlated colour temperature (K)	Typ. luminous flux* (lm), typ. voltage* (U <sub>hyp.</sub> ) and typ. power consumption* (P <sub>el</sub> ) at 350 mA	Typ. CRI R <sub>a</sub>	Beam angle °	Light intensity at 350 mA Candela	Energy efficiency at 350 mA
		Frame colour silver   white			P <sub>el</sub> = 0.98 W, U <sub>hyp.</sub> = 2.8 V				
LCH044	Tiny 219 3000K 36°	<b>563913</b>   <b>565884</b>	warm white	3000	130	80	36	220	A++
LCH044	Tiny 219 4500K 36°	<b>563915</b>   <b>565885</b>	neutral white	4500	140	80	36	240	A++

Emission data at t<sub>i</sub> = 80 °C | \* Measurement tolerance of luminous flux, voltage, power consumption: ± 5% | Further colour temperatures on request

### LED Driver 350 mA

You will find more information about our LED drivers on our website: [www.vossloh-schwabe.com](http://www.vossloh-schwabe.com)

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

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

## Tiny Kit

### Kit for installation of 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.

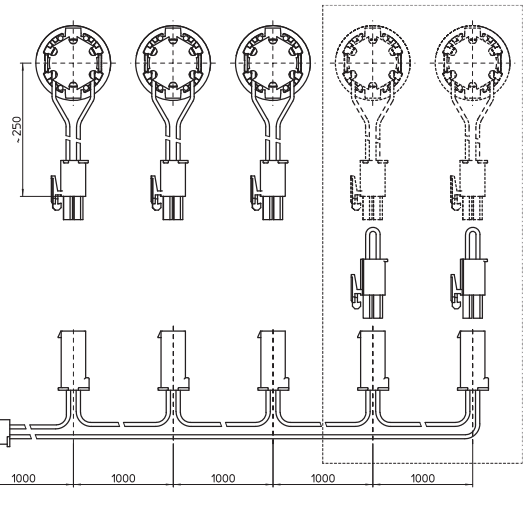
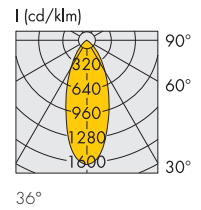


### Technical notes

Metal frame: white, round  
 For cut-out: Ø 26 mm  
 Beam angle: 36°  
 Colour accuracy: 3SDCM  
 CRI: R<sub>a</sub> 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<sub>c</sub> = 75 °C)  
 Max. operating temperature at t<sub>c</sub> point: 100 °C  
 Weight of 5 spots and 1 driver: 250 g

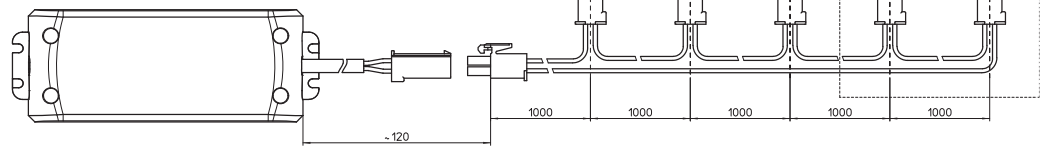
### EasyLine LED driver 186341

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 mm<sup>2</sup>  
 Electronic short-circuit protection,  
 Overload protection, protection  
 against "no load" operation,  
 degree of protection: IP20,  
 protection class II, SELV  
 Product guarantee: 5 years



### LED drivers

Dimensions: 122.8x45x19 mm



Type	Description	Ref. No.	Colour	Correlated colour temperature (K)	Typ. luminous flux* (lm), typ. voltage* (U <sub>typ.</sub> ) and typ. power consumption* (P <sub>el</sub> ) at 350 mA	Typ. CRI R <sub>a</sub>	Beam angle °	Light intensity at 350 mA Candela	Energy efficiency at 350 mA
LCH044	Tiny 219 3000K 36° KIT	<b>566611</b>	warm white	3000	130**	80	36	220**	A++

Emission data at t<sub>j</sub> = 80 °C | \* Measurement tolerance of luminous flux, voltage, power consumption: ± 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.

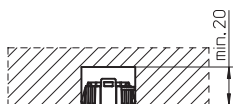
## Tiny – Installation Instruction

### General safety information

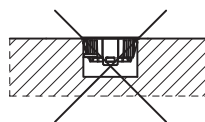
- VS product may only be installed and commissioned by authorised and fully qualified staff.
- These instructions must be carefully read before installing and commissioning the system, as this is the only way to ensure safe and correct handling.
- An external driver for 350 mA is required. (Included with the Tiny Kit Ref. No.: 566611.)
- 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



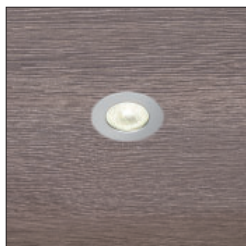
### Correct position



## All VS LED Spots at a glance

### Tiny

LEDSpot with optics, leads and metal frame  
For cut-out Ø 26 mm  
Beam angle 36°  
Lumen output 140/130 lm



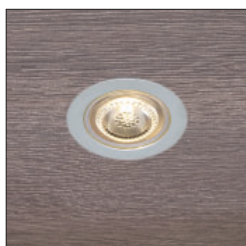
### StartLine

LEDSpot with optics, heat sink, leads and frame  
For cut-out Ø 56 mm  
Beam angle 30° or 36°  
Lumen output 220 lm



### EffectLine

LEDSpot with optics, heat sink, leads and metal frame  
For cut-out Ø 37 mm  
Beam angle 10°, 16°, 28° or 38°  
Lumen output 250 lm



### IPLine

LEDSpot IP54 with optics, heat sink, leads and metal frame  
For cut-out Ø 56 mm  
Beam angle 40° or 50°  
Lumen output 320/220 lm



### FlatLine

LEDSpot with optics, leads and metal frame  
For cut-out Ø 56 mm  
Beam angle 60°  
Lumen output 260/140 lm



### DisLine SMD

LEDSpot with optics, heat sink, leads and metal frame  
For cut-out Ø 56 mm  
Beam angle 35° or 50°  
Lumen output 230 lm



### SmartLine COB

LEDSpot with optics, heat sink, leads and metal frame  
For cut-out Ø 56 mm  
Beam angle 40°  
Lumen output 320 lm



### SoftLine

LEDSpot with heat sink, leads and metal frame  
For cut-out Ø 56 mm  
Beam angle 65°  
Lumen output 205/225 lm



### SmartLine SMD

LEDSpot with optics, heat sink, leads and metal frame  
For cut-out Ø 56 mm  
Beam angle 40°  
Lumen output 220 lm



### Revo

LEDSpot with optics and frame  
For cut-out 67.5x25x5 mm  
Beam angle 60°  
Lumen output 250/130 lm

