

LED SPOT

SMARTLINE COB CRI 90



SMARTLINE COB – CRI 90 RECESSED MOUNTED LED SPOT

As the perfect replacement for traditional halogen spotlights, these LEDSpots with an COB LED are available with a round or square frame and are ideal for use in furnitures, shelves and false ceilings.

A LEDSpot with rounded front part that clearly sets it apart from any other spotlights.

The elegant, simple design with rounded front part makes it perfect for creating the right lighting atmosphere. This LEDSpot differs clearly from any other spotlights.

Typical applications

- Furniture lighting
- Residential Lighting
- Retail lighting



SmartLine COB - CRI 90

- COLOUR RENDERING INDEX: CRI 90
- HIGH BRIGHTNESS: > 300 LM
- DEGREE OF PROTECTION: IP40
- NARROW COLOUR TOLERANCE: 3 SDCM
- HIGH QUALITY COB TECHNOLOGY
- ROUND OR SQUARE FLANGE
- FIXATION: SNAP-IN CLIPS OR SPRINGS FOR MANY DIFFERENT APPLICATIONS AND WALL THICKNESSES
- 5 YEARS GUARANTEE
- MADE IN ITALY



SmartLine COB - CRI 90

Complete LEDspot equipped with optics, heat sink, leads and metal frame

Technical notes

Metal frame, round or square

For cut-out: Ø 56 mm

LEDspot with one LED and with thermoplastic heat sink

Beam angle: 50°

Colour accuracy initially: 3 SDCM

CRI Ra: 90

Leads: Cu tinned, stranded conductors AWG22,

PVC-insulation, length: 250 mm

Use of external LED constant-current drivers

Snap-in clips or springs for easy installation

for luminaire sheets (type LCH-017 and -020)

for ceilings (type LCH-019 and -021)

Degree of protection: IP40

Allowed ambient temperature: 0 to 35 °C

Allowed storage temperature: -30 to 60 °C

Lumen maintenance L70/B50:

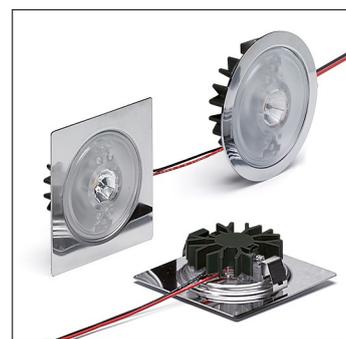
50,000 hrs. ($t_c/t_p = 70\text{ °C}$)

Max. operating temperature at t_c point: 90 °C

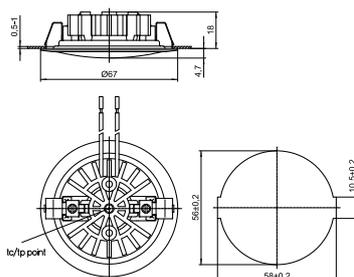
Packaging unit:

45 pcs. (type LCH-017 and -020)

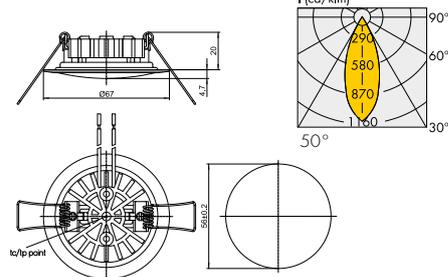
40 pcs. (type LCH-019 and -021)



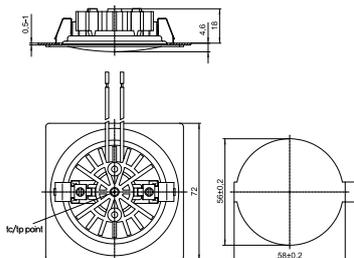
LCH-017



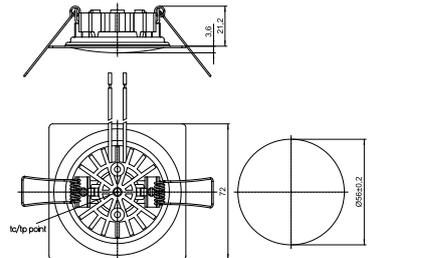
LCH-019



LCH-020



LCH-021



Type	Description	LEDspot Version		Colour	Correlated colour temperature K	Luminous flux (lm) and typical voltage ($U_{typ.}$) and power consumption (P_{el}) * 350 mA typ. $P_{el} = 2.9\text{ W}$, $U_{typ.} = 8.4\text{ V}$	Light intensity at max. current Candela	Frame shape	
		for luminaire sheets	ceilings					round	square
All types	Smart COB 930 50°	A	C	warm white	3000	320	380	round	square
All types	Smart COB 940 50°	B	D	neutral white	4000	345	440	round	square

Emission data at $t_c = 25\text{ °C}$ | *Production tolerance of luminous flux, voltage and power consumption: ±5% | Further colour temperatures on request

Frame colour	For luminaire sheets (LCH-017 and LCH-020)				For ceilings (LCH-019 and LCH-021)			
	Ref. No. A (warm white)		Ref. No. B (neutral white)		Ref. No. C (warm white)		Ref. No. D (neutral white)	
silver	572426	on request	572428	on request	on request	on request	on request	on request
white	572427	on request	572429	on request	on request	on request	573149	on request

Silver brushed or further colours on request

LED driver

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

Voltage	Output power	Output current DC	Output voltage DC	Ref. No.	Version	Current setting	Dimming	Max. service life time in hrs.	Max. operating temperature in °C	Dimensions: mm (LxWxH)
50–60 Hz	W	mA	V							
350 mA										
120–277	0.7–13	350mA	2–38	187260	EasyLine	-	-	85,000	75	150x43x25
220–240	0.7–11	350mA	2–32	187259	EasyLine	Dip Switch	-	50,000	70	150x43x25
220–240	1.0–15.4	350mA	3–44	187215	ComfortLine	Dip Switch	-	50,000	80	141,6x79x30
220–240	0.7–8.75	350mA	2–25	186519	ComfortLine	-	-	50,000	80	65x30,7x21,5
220–240	0.7–14	350mA	2–40	186229	ComfortLine	-	-	50,000	80	146,8x21x18

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.



SmartLine COB CRI 90 – 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.
- 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.

See drawing and cut out for each product on previous pages

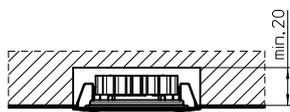
Packaging unit

Type	Packaging unit pcs	Box dimensions mm	Weight per pcs. g	Gross weight packaging unit g
LCH-017	45	380x380x80	54	2820
LCH-019	40	600x400x80	56	2720
LCH-020	45	380x380x80	62	3180
LCH-021	40	600x400x80	64	3040

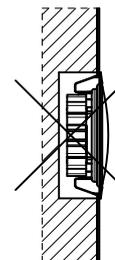
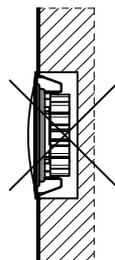
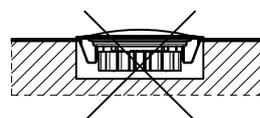
EPREL information

Containing product	Light source		
Type	Type	EPREL Reg.No.	EE Class
LCH-017-930	BXRE-30G0400-B 8x	869601	F
LCH-019-930			
LCH-020-930			
LCH-021-930			
LCH-017-940	BXRE-40G0400-B 8x	870281	F
LCH-019-940			
LCH-020-940			
LCH-021-940			

Built-in



Correct position



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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: max. 140 lm
Versions: CC, CV, Kit



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



SmartLine COB

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



SmartLine SMD

LEDSpot with optics, heat sink, leads and metal frame
For cut-out: Ø 56 mm
Beam angle: 36°, 40°
Lumen output: max. 250 lm
Versions: CC, 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



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