

**FULLY SEALABLE SPUTNIK-Z lenses for SSC P3, P4**

- Use with Seoul Semiconductor P3 and P4 series of white and monochrome LEDs
- Lens material optical grade PMMA with high UV and temperature resistance (105°C/220°F)
- High optical efficiency, up to 90%
- NEW smooth spot and oval versions with improved efficiency and color uniformity also compatible with the new P4 package
- No lens holder. Fastening to heat sink with a PU foam adhesive tape of automotive grade
- We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the tape.
- Please check fastening details from this link:  
([http://www.ledil.com/datasheets/DataSheet\\_TAPE.pdf](http://www.ledil.com/datasheets/DataSheet_TAPE.pdf))
- Lens foot can be potted with resin without losing anything in optical efficiency (**fully sealed construction** possible)
- Diameter 26 mm (approximately 1")
- Easy build of a complete luminaire using SPUTNIK, P3 or P4 and heat sink
- Mechanical CAD models available upon request
- All lens types have the same outer dimensions, which allow a cross use of them in the same lighting fixture

**LENS TYPES**

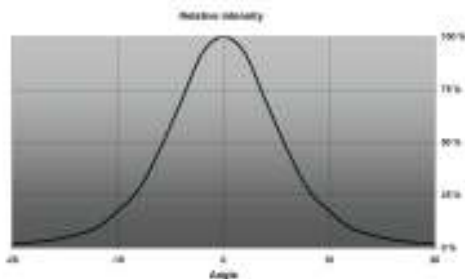
NAME	ORDERING CODE	FWHM Angle
Sputnik-Z smooth spot	CA10321_Sputnik-Z-SS	±5°
Sputnik-Z medium	CA10249_Sputnik-Z-M	±13°
Sputnik-Z oval	CA10322_Sputnik-Z-O	±7° x ±18°
Sputnik-Z wide	CA10241_Sputnik-Z-W	±32°

**SMOOTH SPOT** lens is a pure collimator lens with light mixing properties. It smoothens the beam pattern and makes a uniform color distribution over the whole beam angle. Light intensity is lower than for the REAL SPOT lens. SMOOTH SPOT lens is recommended for white light applications, where pleasant, high-quality illumination is wished.

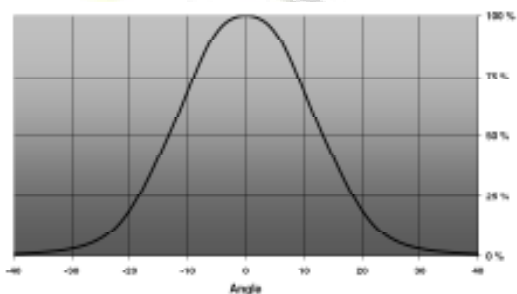
**OVAL** lens is optimal for cases where a narrow stripe of light is wished. If a wider vertical distribution is needed, please consider LEDIL SSS-O with wider vertical distribution and a color mixing structure.

## MEASUREMENTS

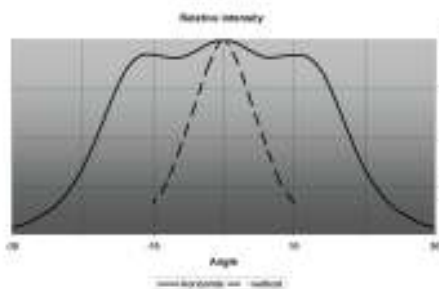
SPUTNIK-Z-SS



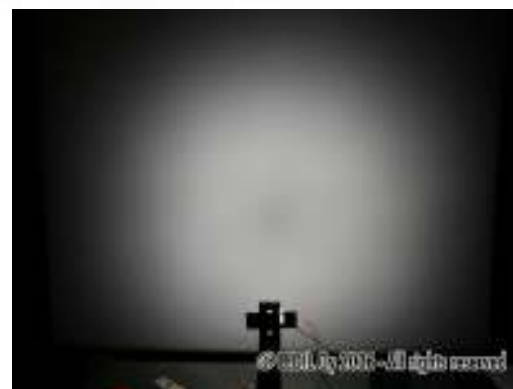
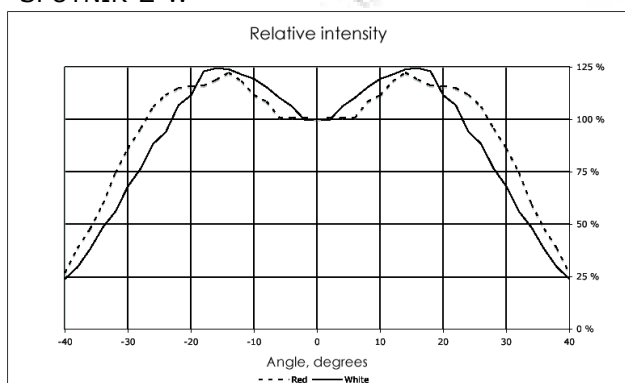
SPUTNIK-Z-M



SPUTNIK-Z-O



SPUTNIK-Z-W



© Ledil Oy - Subject to change without prior notice

## PHOTOGRAPHS



**SPUTNIK-Z-SS**



**SPUTNIK-Z-M**

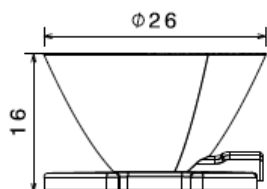


**SPUTNIK-Z-O**

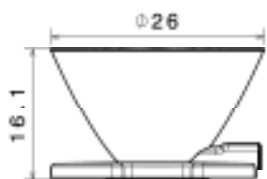


**SPUTNIK-Z-W**

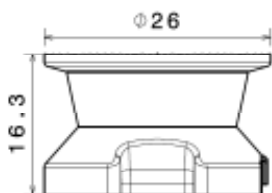
## DIMENSIONS



**SPUTNIK-Z-SS and SPUTNIK-Z-M**



**SPUTNIK-Z-O**



**SPUTNIK-Z-W**

**PACKAGING**

Lenses are packed on plastic trays of 77 lenses. One box contains 13 trays, i.e. 1001 lenses.

**SPECIAL VERSIONS**

Special versions available on request, e.g. fully metallized outer surface allowing full potting of lens up to the top surface or different packing methods.



© Ledil Oy - Subject to change without prior notice