

K2S SQUARE lenses for LUXEON K2 LEDs



- Designed & optimized for Luxeon K2 series of LEDs. Works also with Luxeon I and III, but is not optimized for them.
- Lens material optical grade PC with high UV and temperature resistance (120°C/248°F). Allows use of high current and temperature conditions
- Best available optical efficiency, up to 90%, with an extremely good cutoff of light
- Integrated 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.
- Fastening details: (http://www.ledil.com/datasheets/DataSheet_TAPE.pdf)
- Compact dimensions 21.6 x 21.6 mm. Square form enables easy build of matrix without any gaps between lenses.
- Easy build of a complete luminaire using K2S lens, Luxeon K2 and heat sink

LENS TYPES

NAME	ORDERING CODE	FWHM Angle
K2 SQUARE REAL SPOT*	FA10307_K2S-RS	±4°
K2 SQUARE SMOOTH SPOT*	FA10329_K2S-SS	±6°
K2 SQUARE DIFFUSER	FA10308_K2S-D	±9°
K2 SQUARE MEDIUM	FA10309_K2S-M	±15°
K2 SQUARE OVAL	FA10310_K2S-O	±7° x ±22°
K2 SQUARE OVAL TURNED 90°	4FA11129_K2S-O-90	±7° x ±22°
K2 SQUARE WIDE	FA10323_K2S-W	±19°

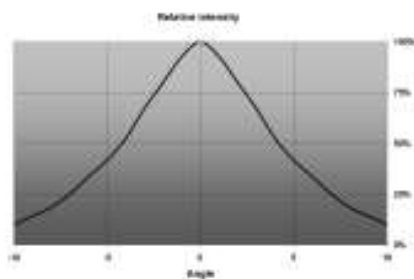
*) IMPORTANT NOTICE:

REAL SPOT lens is a highly efficient pure collimator lens, which optically functions in an excellent way, giving a high intensity. REAL SPOT lens also reveals the chip level optical structure of the LED. We recommend REAL SPOT lens for applications, where light intensity is of highest priority, while we do not recommend it for white light applications, where color uniformity is of high importance.

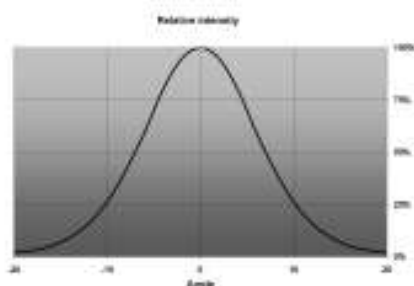
SMOOTH SPOT lens is a pure collimator lens with light mixing properties. It smoothens the beam pattern and makes a uniform color distribution over the whole beam angle. Light intensity is lower than for the REAL SPOT lens. SMOOTH SPOT lens is recommended for white light applications, where pleasant,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

MEASUREMENTS

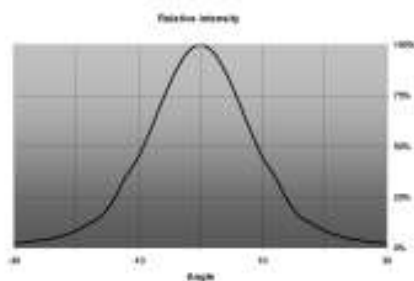
K2S-RS



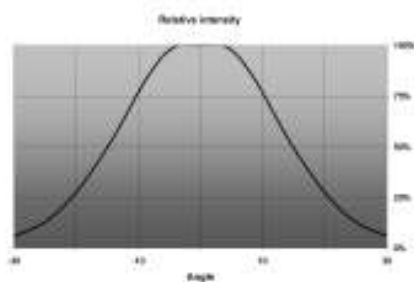
K2S-SS



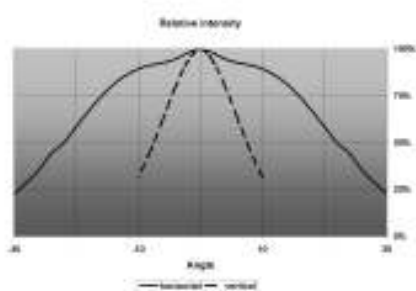
K2S-D



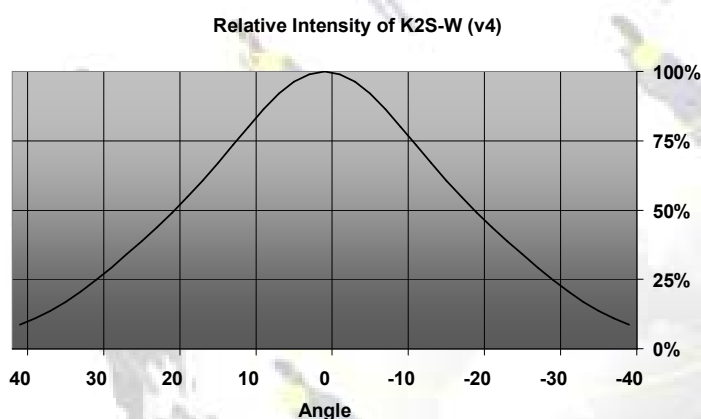
K2S-M



K2S-O



K2S-W



PHOTOS



K2S-RS



K2S-SS



K2S-D



K2S-M

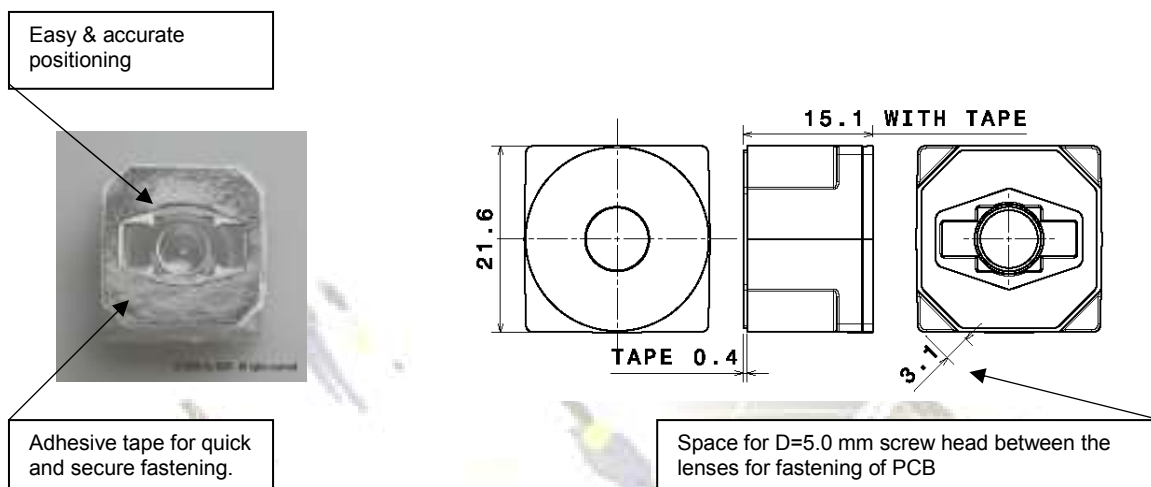


K2S-W



K2S-O

DIMENSIONS



PACKAGING



K2S lenses are delivered on adhesive tape liner sheets, each sheet containing 60 lenses.

SPECIAL VERSIONS

Special versions available on request, e.g. different lens holder colors or packaging sizes.