

KHATOD®

Optical Solutions for LED Lighting

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Material

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Viewing Angle (FWHM) ...

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Required Application

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Accessories

Box for PCB and Electronic Components

Cover for Reflectors

Heatsinks

PCB for testing

Protective Lens for Seoul® Acriche2

Certifications & Statement

ISO 9001:2008 Certifications

RoHS Compliance

REACH Compliance

Conflict Mineral Statement

KHATOD LENS Use and Maintenance

Reserved Area

Versione 1.9.6_ev3_u4_B

PL1771SR Ultra Clear Silicone Lenses for LG 17W COB LEDs; 100,00mm x 111,00mm side, 33,11mm height; Type IV

PL1771SR

SIO3 Silicone Lenses



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Description

Ultra Clear Silicone Lenses for LG 17W COB LEDs
100,00mm x 111,00mm side - 33,11mm height
Type IV

BENEFITS:

- Lenses material: Silicone

- Ring Material: PC

- Full angle at 50%: ~ 150° x 155°

- Full angle at 10%: ~ 165° x 165°

- The light spots here represented refer to tests carried out with CoBs with 23mm LES, ~5225lm

SIO3 Silicone Lens is supplied without the holder. The holder is optional and will be supplied only on request under the KE177614 (Material: PC) part number or under the KE177614ALU (Material: Aluminium) part number.

SIO3 Silicone Lens is supplied without the holder with connector. The holder with connector by Bender-Wirth is optional, available only on request.

----- Part Number -----

PL1771SR [SIO3 Silicone Lens Type IV]

PL1771SR + KE177614 [SIO3 Silicone Lens Type IV + Holder in PC material]

PL1771SR + KE177614ALU [SIO3 Silicone Lens Type IV + Holder in Aluminium material]

Why now a lens made of SILICONE?

The LEDs of latest generation - High Brightness LEDs - and COB LEDs - achieve very high temperatures which could put strain on the conventional polymers such as PMMA, PMMA and PC.

The typical features of silicone make silicone lenses perfect for outdoor applications or indoor applications in damp and wet environments:

▪ High temperature resistant; considerably reduce the yellowing effect.

▪ NO need for extra protection: glass or gasket for IP.

▪ As an isotropic material, silicone provides the lenses with high flexibility allowing easy fit to the final application.

▪ As an elastomer, silicone provides the lens with an excellent compensation capability that well meets the requirements of construction mechanical tolerances in the final application.

Optimized for most popular HB LEDs and COB LEDs. Designed for Street Light applications, comply with IESNA Standards: Type I - Type II - Type III - Type IV - Type V, Short or Medium light distribution depending on the LED used; ME3a. Excellent in any application in Wide Area Lighting, Outdoor and Indoor. Preserve and enhance the typical characteristics of silicone.

Optic type: FREE FORM LENSES, engineered by using new optical techniques; manufactured by using the latest in cold injection-moulding.

Beam Angles: 1 rotosymmetrical, 3 asymmetric, 1 axially symmetrical in x, y (rectangular spot).

Optic Features: excellent transparency; high optical efficiency; no birefringence; high temperature resistant; flexibility at low temperatures; UV-resistant; no yellowing effect; easy fit to the final application; no need for extra protection such as glass or gasket for IP in case of head-pole; micro-crack resistant under harsh environmental conditions; immersion-proof; explosion-proof.

Product images are for illustrative purposes only.

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Only the Part Numbers stated in Khatod order confirmations are the valid and active ones.

PL1771SR

SIO3 Silicone Lenses



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PL1771SR

SIO3 Silicone Lenses with Holder



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KE177614

Lens Holder for SIO3 Silicone Lenses



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KE177614ALU

Lens Holder for SIO3 Silicone Lenses in ALU (Aluminium Ring)



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Bender-Wirth Holder

with connector for SIO3 Silicone Lenses



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KE177614

Lens Holder for SIO3 Silicone Lenses



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KE177614ALU

Lens Holder for SIO3 Silicone Lenses in ALU (Aluminium Ring)



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Bender-Wirth Holder

with connector for SIO3 Silicone Lenses



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 pl1771sr sio3 silicone lenses product brief

 pl1771sr technical detail

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