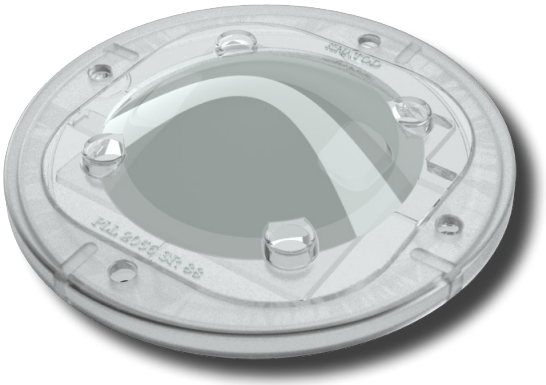
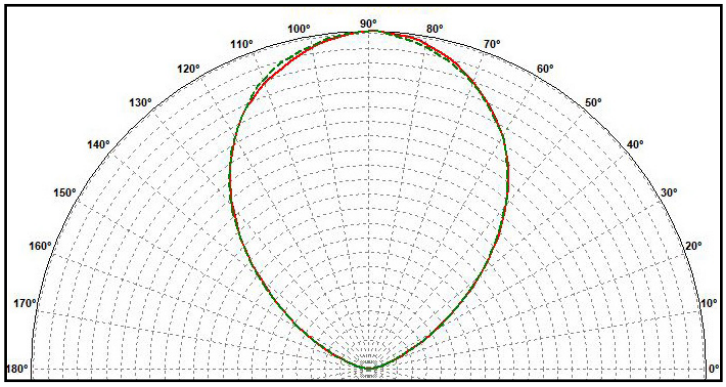
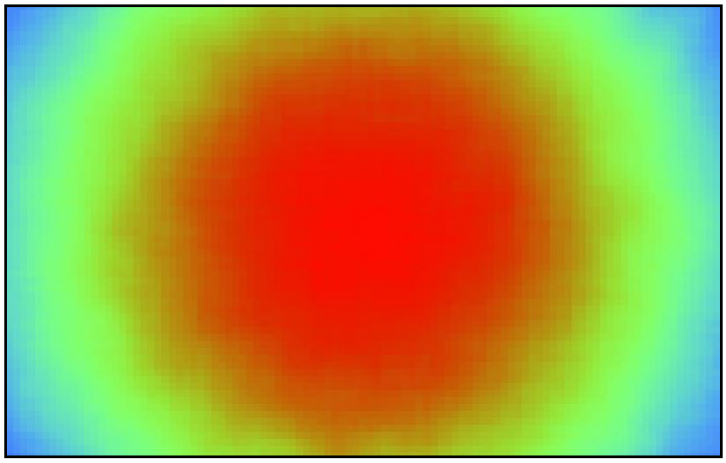
PLL2056SR88 - 90° FWHM

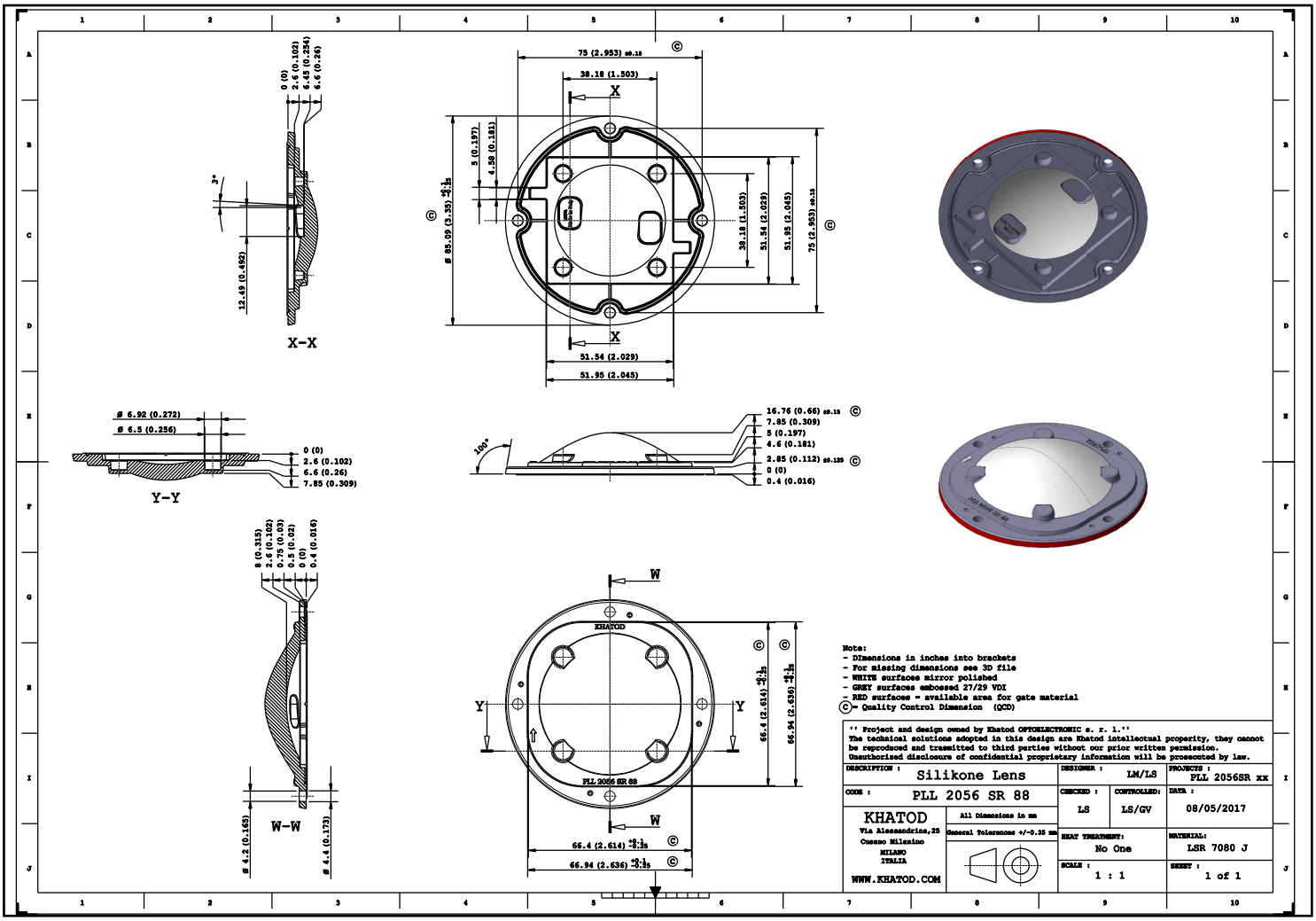






PATENT PENDING

- Material = **SILICONE for Lens,** PC For Holder KEL2056
- Full angle at 50% from maximum: ~ 90°
- Full angle at 10% from maximum: ~ 130°
- The light spots here represented refer to tests carried out with CoBs 13mm LES, ~2420lm@LED



IP X5 Test

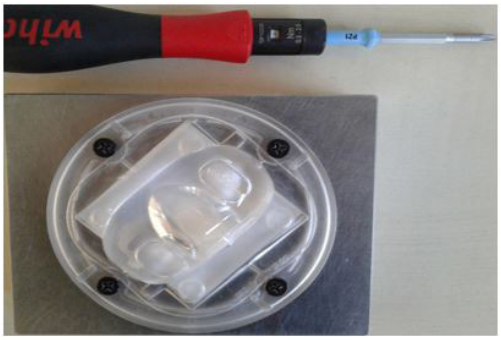
Note
The present document is an internal document showing the tests carried out by Khatod in its laboratory.
The tests, photos and videos presented in this document are made available for demonstration purposes only.
Khatod, with its laboratory, is not a certification body.

If customers need IP accredited certifications, they have to apply to the appointed Certification Bodies, under their sole care and responsibility.

Data and Analysis

The sample has been subjected to the water-penetration resistance test as follows:

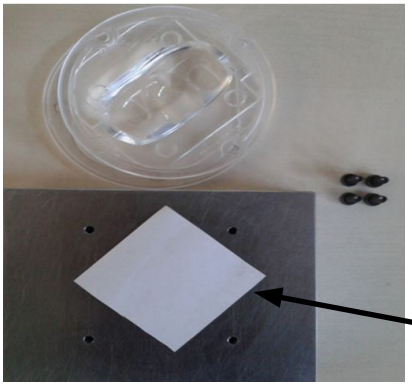
- Assembly of the components to test :
  A moisture indicator paper sheet has been interposed between the lens and the clamping base
- Positioning of the assembled sample under the device of watering with nozzle Ø 6.3 millimeters
- Water flow: 12.5 l/min ± 5%
- Water pressure: 30 kPa @ distance of 3m
- Duration of water spraying test on the wrap surface per m² : 1 min
- Minimum duration of the test: 3 min
- Distance between the nozzle and the wrap surface: 2.5 Meters


assembly

Testing under water jet

Testing under water jet

Conclusion


The test paper sheet is dry

As shown in the photo, the test paper sheet is completely dry after disassembling the system.

Based on the water penetration resistance test, PLL2056SRxx proved to be fit for purpose.
The product has passed the Khatod test.

Materials

Material	Top
SILICONE for Lens	-40°...150°C
PC for Holder KEL2056	-40°...120°C

Notes:

- Intensity (I) and illuminance (E) data are normalized by 1000 lm
- The optical values shown are the result of optical simulations carried out with ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples. On request, by supplying your PCB, we can provide the measurement photometric file.

Use and Maintenance

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.
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