

# Your specialists in Optical Engineering & Manufacturing Plastic Optics

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WE SUPPORT OUR CUSTOMERS FROM  
OPTICAL ENGINEERING & PROTOTYPING  
TO SERIAL PRODUCTION



# ALL-IN OPTICS



## Collaboration of two specialists

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- ALL-IN OPTICS & OPTONOM will built up long-term partnership in the field of plastic optic production.
- Focus of this joint-venture will be injection moulding production of plastic optics in Izmir/Turkey.
- Main focus will be production of Lenses for Street Lighting market.



- Optonom bought a new Dr. BOY injection moulding machine in August 2020
- The machine is ready to use and already produced self designed LED Lighting Lenses
- We are able to offer competitive prices as a small company
- Small yearly quantities of a few hundreds or thousand pieces can be produced
- Also large quantities >100k pieces can be produced





**Lars Nakotte**

- Founder and Owner of ALL-IN OPTICS
- Background in moldsmaking and injection moulding
- Former technical manager of an optics production company



**Mehmet Kivanç**

- Founder and Owner of OPTONOM
- Background in Optical Design and Photonics
- Expertise on Optical Tests and Measurement





# ALL-IN OPTICS

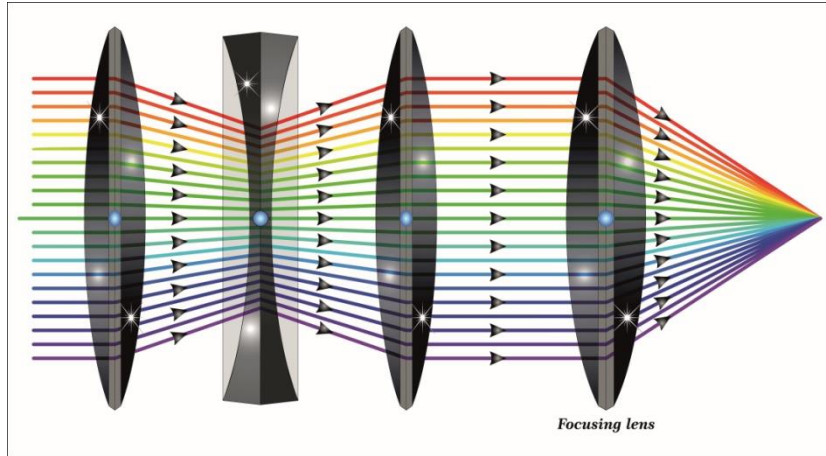
## Optical Engineering

**OPTONOM**

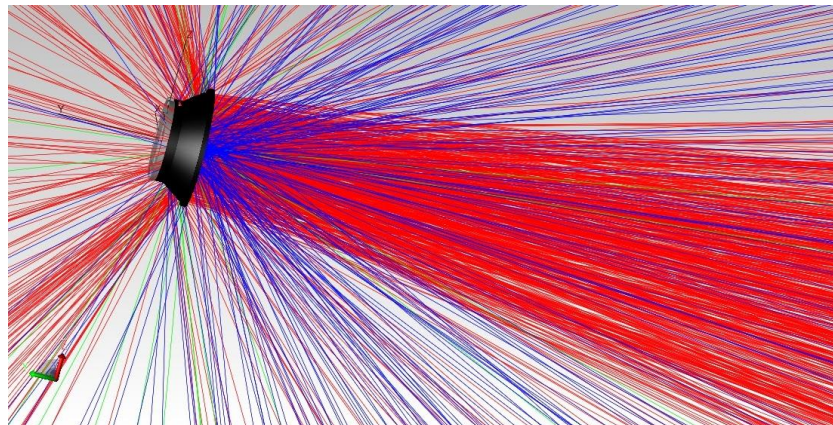
Scientific Instruments

[www.optonom.com.tr](http://www.optonom.com.tr)

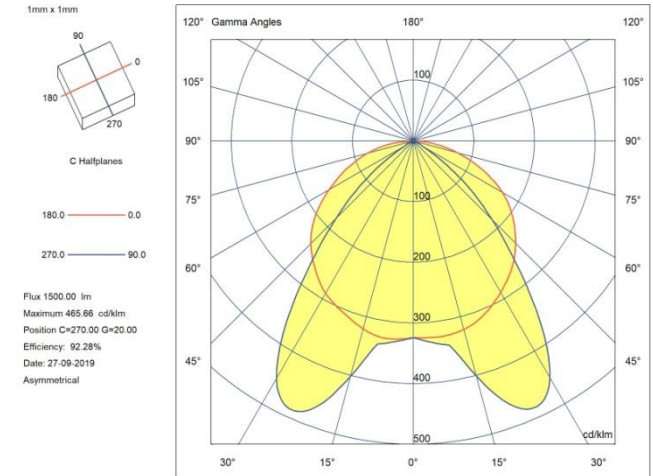
Turkey



Whatever the scale of your project, we can support you in developing & engineering the most cost effective product solution. Projects can start at customers' initial conceptual idea, where we support on all aspect of product development, through to “make to drawing” production support.



- Optical Design (ray tracing)
- Feasibility studies
- Design for Manufacturing





# ALL-IN OPTICS

## Prototyping

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Different manufacturing capabilities lead to an optical prototyped lens – such as:

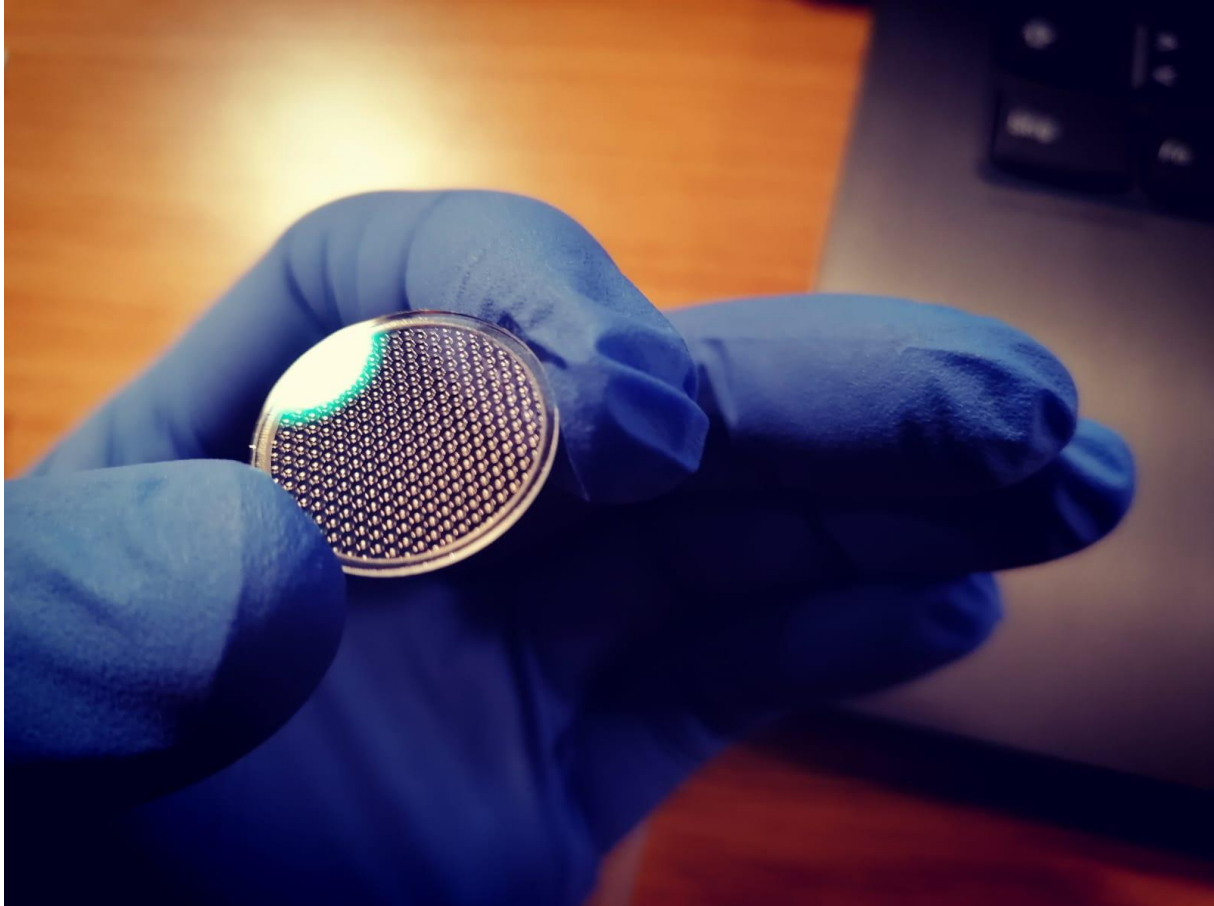
- Diamond machining
- CNC-machining
- Silicone molding
- Prototyping tools





# ALL-IN OPTICS

## Optical Coatings



You want to tune the performance of your Lens?

We've got access to PVD coating possibilities

Apply coating to different lens materials:

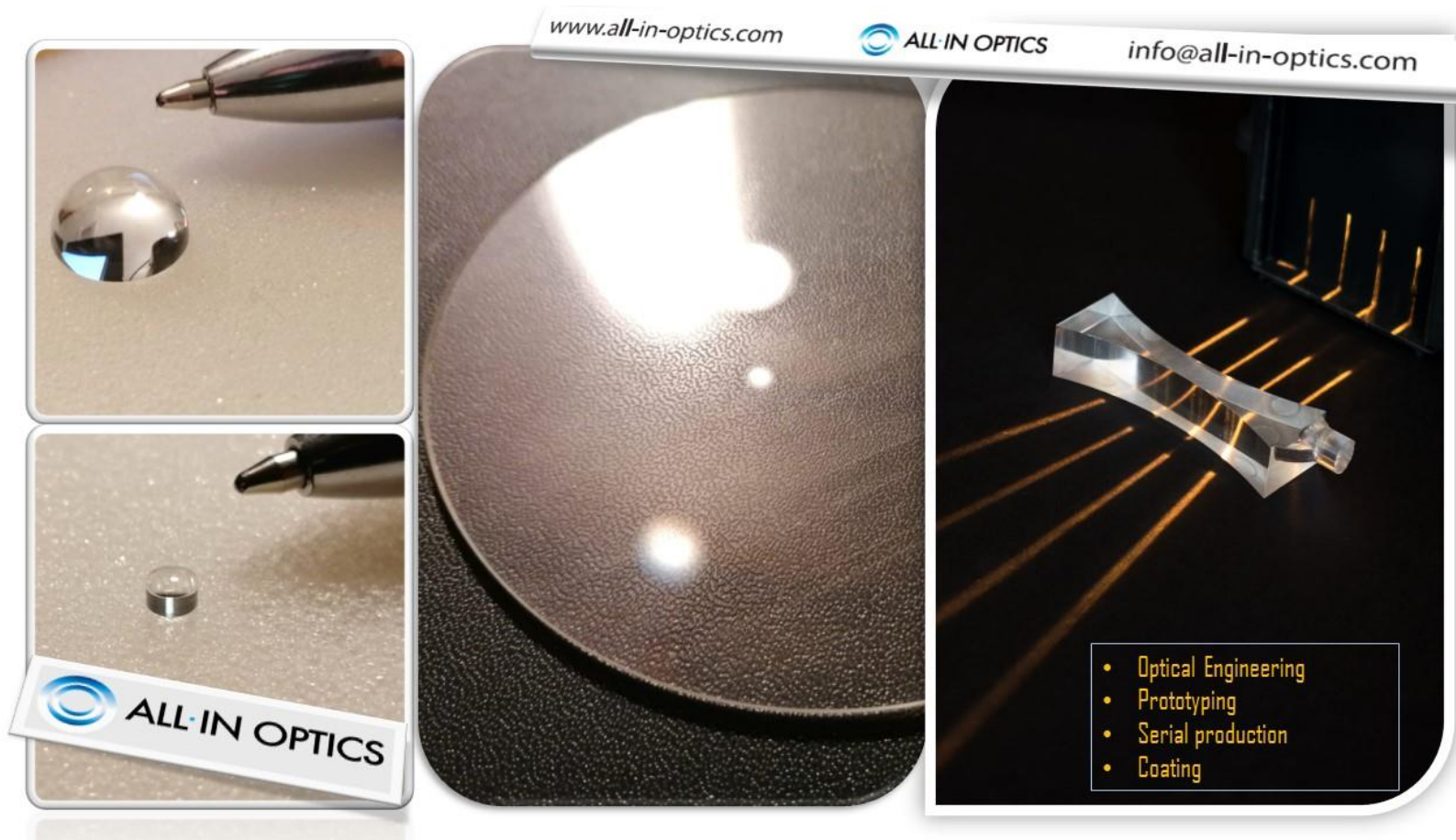
PMMA, PC, COC, COP, glass etc.

- AR coatings
- Reflective coatings
- Anti-scratch coatings
- Other coatings



# ALL-IN OPTICS

## Example Pictures







# ALL-IN OPTICS

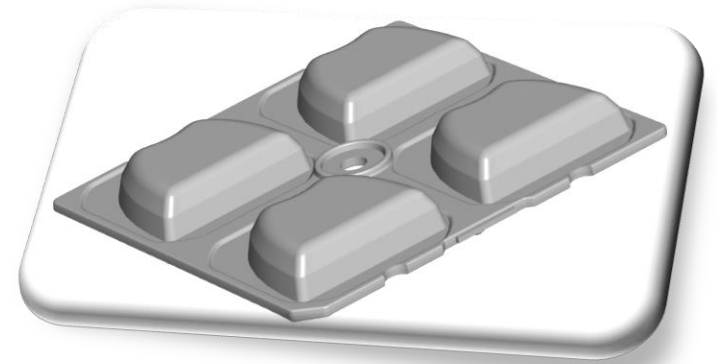
## Example Pictures

**OPTONOM**

Scientific Instruments

[www.optonom.com.tr](http://www.optonom.com.tr)

Turkey





# ALL-IN OPTICS

## ADD Offer for Streetlight LED Lens

- Within this new partnership it will be possible for us to quote for your requested freeform Lens
- We will quote for:
  - Tooling price
  - Part price – for a production of 250.000 pcs/year



Your contact at ALL-IN OPTICS:

***Lars Nakotte***

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Your contact at OPTONOM

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