

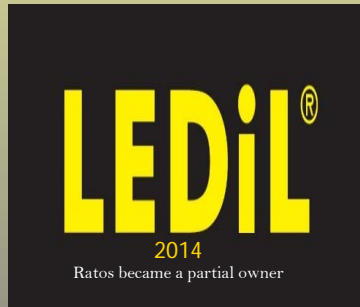
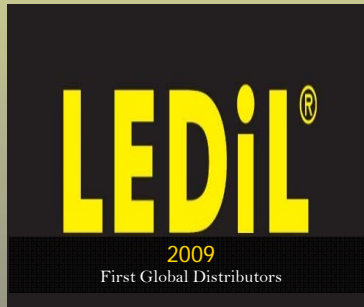
The background of the advertisement is a long-exposure photograph of a city street at night. The street is filled with light trails from cars, creating a sense of motion and energy. The buildings in the background are lit up, and the overall color palette is dominated by warm, yellowish-green tones. The LEDiL logo and slogan are centered over this background.

# LEDiL®

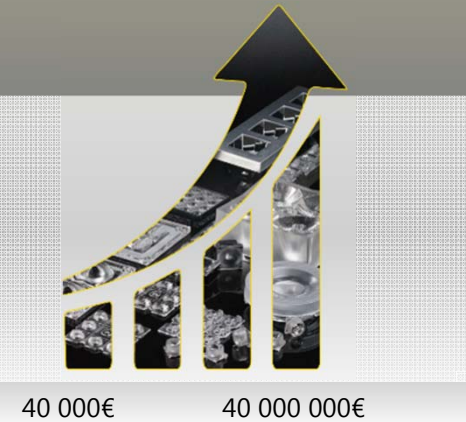
Light that is right

LEDiL® is a registered trademark of LEDiL Oy in the European Union, the U.S.A. and certain other countries. | [www.ledil.com](http://www.ledil.com)

# Company History



- The world leading supplier of standard and customized LED secondary optics
- Technology leadership in asymmetric and freeform optics
- 2002 start-up with 2 engineers today employs 130+ people
- A dynamic company constantly achieving double-digit growth
- 2016 Revenue 40M€



# Culture and People



- Creative, innovative, educated
- Multilingual & multicultural team
- Customer focused & service minded
- Experience, knowledge & confidence
- Positive can & will do attitude

2x E&Y Trade Cat. Entrepreneur  
of the Year 2011 & 2012

Internationalization Award of the President of the  
Republic 2013 (Finland)

Finnish Engineering Award 2014

Excellent Technology Award 2015



# Largest Standard Offering & Best Custom Support

## STANDARD PRODUCTS:

- Lenses, reflectors & arrays
- 4,000+ standard solutions
- Optimized for most LED's & COB's
- Roadmap with LED Ecosystem partners
- Strong local sales support and understanding of local market needs
- Numerous patents granted and pending
- Production on three continents & global supply chain support



## CUSTOM SOLUTIONS:

- Optical design and application simulation
  - Project Management for life of product
  - 20 optical designers
  - Mold shops dedicated to optics
  - Automated Flexible Manufacturing Systems completes 500 molds per year
- North America: Now offering local tech support, optical simulation, and lighting lab including goniophotometer measurements of luminaires and optics



# Efficient Production & Order Processing

- 8 factories (Europe, China, USA) have produced over 320 million optics
- Optics dedicated production areas and quality control
- Scalable capacity for optical parts and molds
- Silicone lens molding expertise along with PMMA, PC and other materials
- Localized production complements strong logistics between continents
- Ongoing research to explore new processes & manufacturing technologies
- Capacity to support reliable lead-times
- ISO 9001 & 14001 registered, RoHS & REACH compliant
- North America: Now offering local warehousing, production, & order processing

# Measurements & Testing

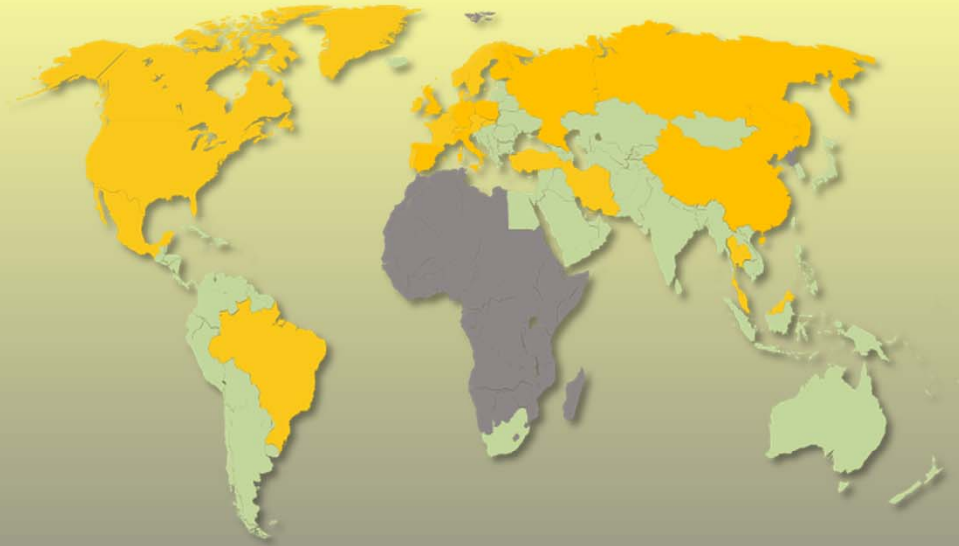
- Comprehensive optics testing capabilities on 3 continents
- UV, thermal, IP (water/dust), Impact testing
- Video microscope for mechanical measurements
- Electrical measurements and safety testing

North America: Now offering local tech support, optical simulation, and lighting lab including goniophotometer measurements of luminaires and optics

# LEDiL Globally

Dynamic forward looking vision

- Collaboration with leading LED manufacturers & connector suppliers



- ◆ LEDiL sales & support
- ◆ LEDiL distributor
- ◆ Online electronic component distributor

# LEDiL in North America

## Regional Managers and Illinois Operations

