

# LASSIE-FP7

Large Area Solid State Intelligent Efficient luminaires

= Project Summary =

FP7-ICT-2013-11  
Photonics

Starting date of the project: 01/01/2014  
Duration: 36 months



# Basic facts

## LASSIE-FP7: Large Area Solid State Intelligent Efficient luminaires

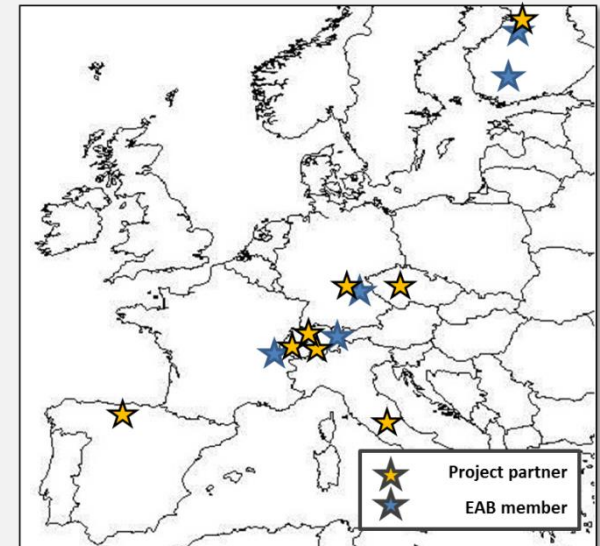
Project number:	619556
Starting date:	1 January 2014
Duration:	36 months
Call identifier:	FP7-ICT-2013-11 collaborative project, Objective ICT-2013.3.2 Photonics
Number of participants:	8 from 6 countries
Funding scheme:	STREP
Main objective:	to implement large area and low-cost intelligent SSL modules with high efficiency and high lighting quality, while assessing their environmental impact
Outcome:	a unique integrated SSL module as an alternative to the OLED technology

# Objectives

- Project addresses all the limitations of today's **solid-state lighting (SSL)** modules
- **Improvements** in terms of size (area and thickness), flexibility, efficiency, lighting quality, beam-shaping, lifetime, added intelligence production and production/installation costs
- Large-area, roll-to-roll (R2R) processes on thin **rigid to flexible** plastic substrates
- Hybrid approach combining **inorganic LEDs and organic materials**
- **Alternative to the OLED** technology
- Expected outcome: innovative large-area, high-performance, reliable, intelligent, and low-cost **LED-based module for professional and architectural lighting**

# Our team

Participant	Short name	Country	Nature
Centre Suisse d'Electronique et de Microtechnique SA	CSEM	CH	RTD
Fraunhofer-Gesellschaft	FhG	DE	RTD
Teknologian Tutkimuskeskus (VTT)	VTT	FI	RTD
REGENT Beleuchtungskörper AG	REGENT	CH	IND
BASF Schweiz AG	BASF	CH	IND
Fundacion GAIKER	GAIKER	ES	RTD
LFoundry S.r.l.	LF	IT	IND
AMIRES s.r.o.	AMI	CZ	SME



# From our work



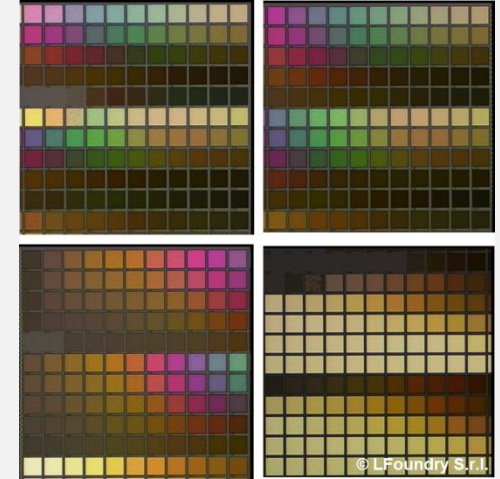
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Tesla2 pilot R2R testing machine



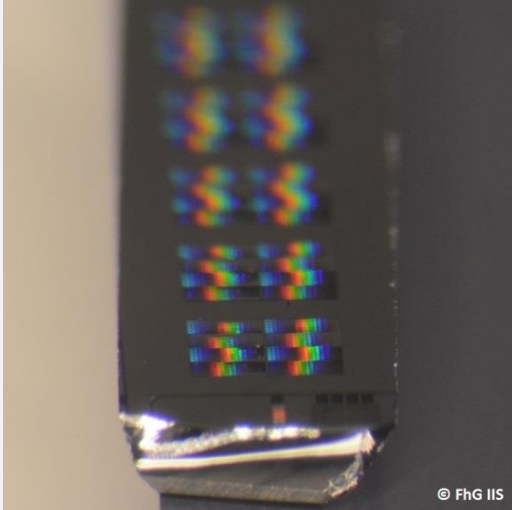
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EVO2200 R2R pilot assembly machine



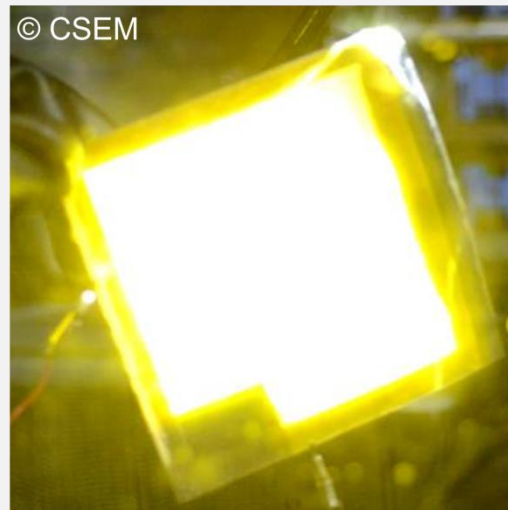
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Optical images from MPW



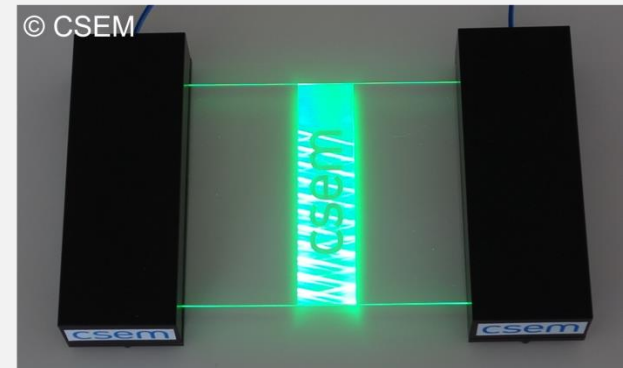
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Large area printable SSL



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Large area LED-based SSL

# Contacts

- [www.lassie-fp7.eu](http://www.lassie-fp7.eu)
- **Project Coordinator:**  
**Rolando Ferrini**  
Centre Suisse d'Electronique et de Microtechnique SA (CSEM)  
E-mail: [rolando.ferrini\(at\)csem.ch](mailto:rolando.ferrini@csem.ch)
- **Project Manager:**  
**Anežka Palková**  
AMIRES s.r.o.  
E-mail: [palkova\(at\)amires.eu](mailto:palkova@amires.eu)