

LIGHTEX innovative lighting material for custom-design lighting surfaces in automotive interiors

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□ About Brochier Technologies

- Brochier Soieries Group (since 1890)
 - *Haute Couture*
- Setting-up Brochier Technologies in 2007
- 9 personnes
- Activity growth continuously

- **Main activity:**
 - R&D in Lighting solutions using optical fiber fabric.

- **Application fields:**
 - Lighting – backlighting – design – customized systems
 - Transport industry – architecture - safety clothing - medical field

- **Business model:**
 - Lightex® technology always driven to new levels (patents, processes, reliability, reproductibility...)
 - Partnerships and technology transfers



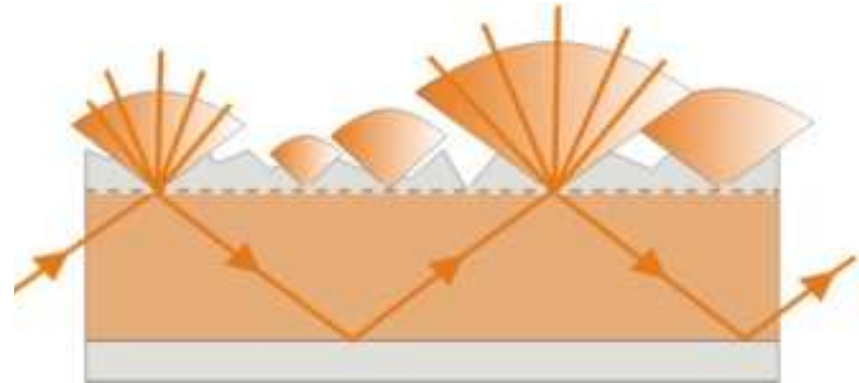
Olivier Lapidus - 1999

□ Lightex® Technology :



□ Lightex® technology :

1. Weaving the fiber optics
2. Specific side-emitting process
3. Injection of LEDs' light
4. Power supply and drivers



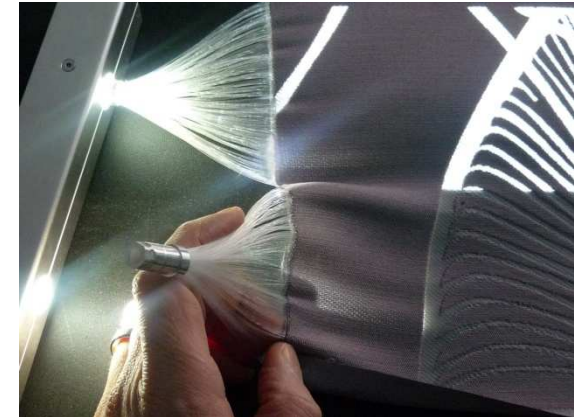
Side-emitting in optical fiber



1. Weaving



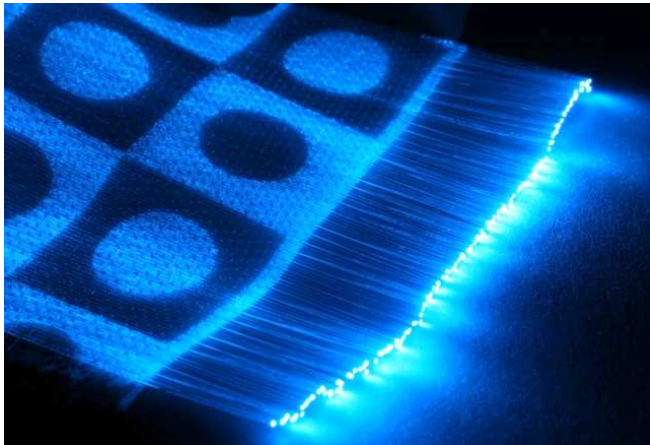
2. Side emitting process



3. Light link

□ Innovative and efficient lighting solutions

- Homogeneous distribution of light on various areas (up to several ten square meters)
- Ultra thin and ultra light weight solution (thickness <1mm ; weight < 500 g/m²)
- Remote light source and electrical parts (no heat – no EMI / RFI)
- Flexible, curved or rigid illuminated surfaces
- Combination possible with other materials (metal, glass, composites)
- Textile aspect : infinite possible patterns



□ Applications – TRANSPORTS – rail



TGV – ambiance lighting



ALSTOM



□ Applications – TRANSPORTS - aviation



Signs



Ambiance and security lighting

□ Applications – TRANSPORTS - Automobile



CITROËN – C-Airlounge (2003)



□ Applications – **TRANSPORTS** - Automobile



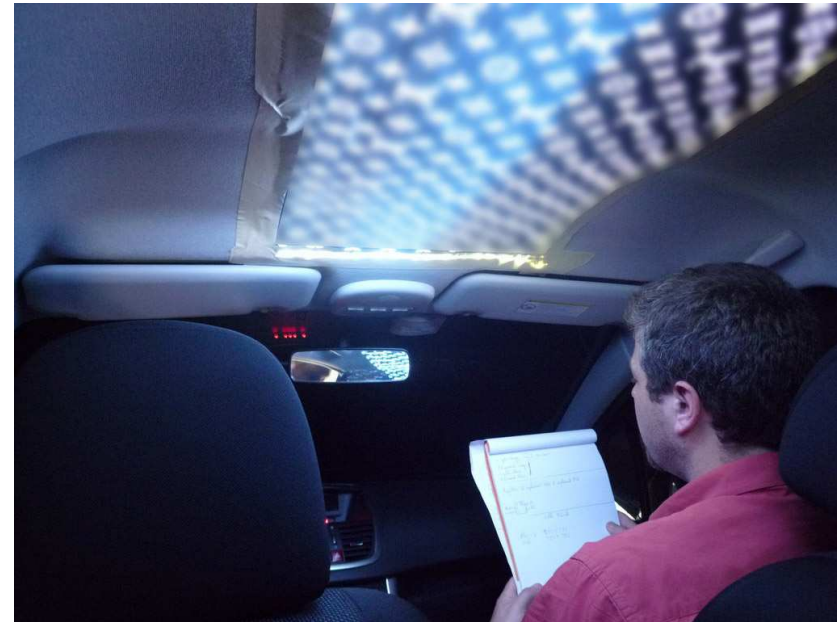
Door garniture – ambiance lighting



□ Applications – **TRANSPORTS** - Automobile



Ambiant light – existing solution



Ambiant light Lightex® prototyping

□ Applications – **TRANSPORTS** - Automobile



Backlighting applications

□ Applications – INFORMATION / SAFETY



Safety jacket



Intervention jacket - BMPM

□ Applications - **ARCHITECTURE**



CHAMBORD - L.Saksik



CHANEL MOBILE ART – D.Buren

□ Applications – INTERIOUR LAYOUT

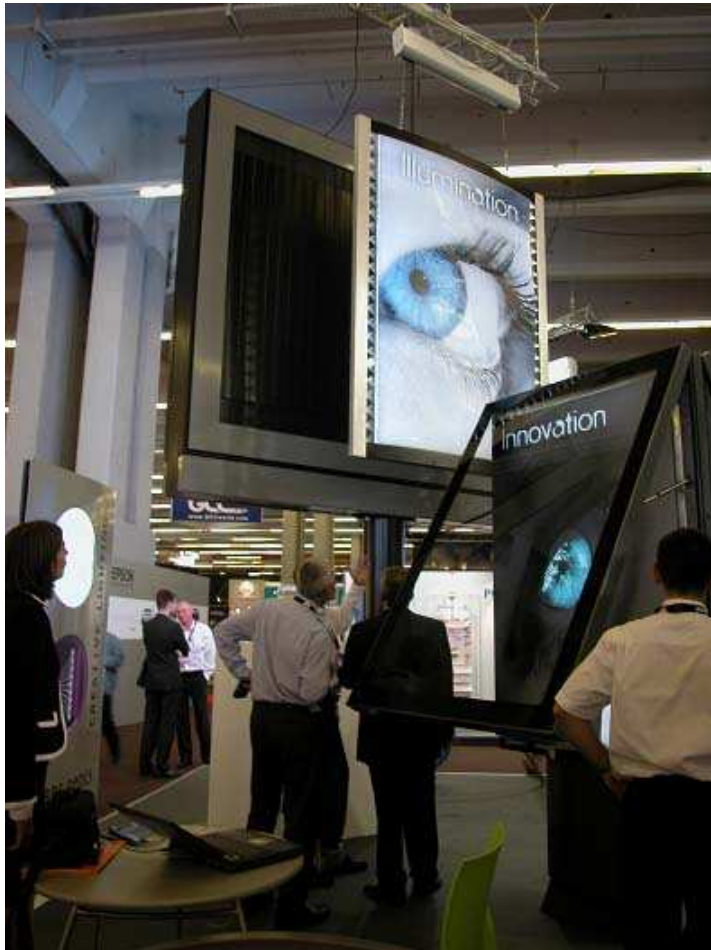


Interior layout- Illustration

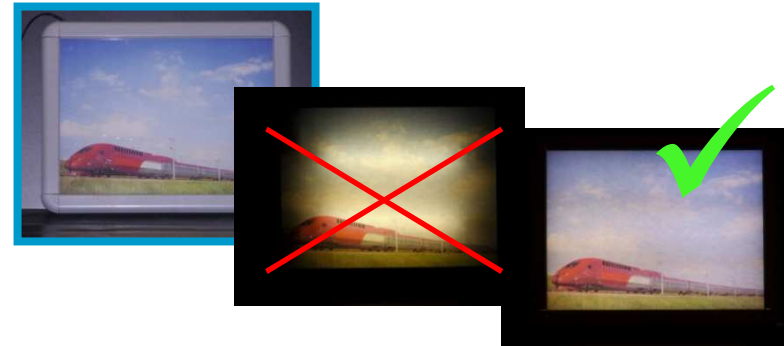



SAINT-GOBAIN

□ Applications – Billboards, communication



Advertising backlighting – Prismaflex

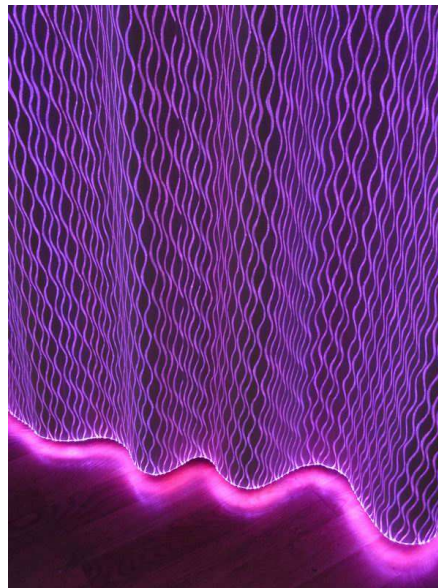
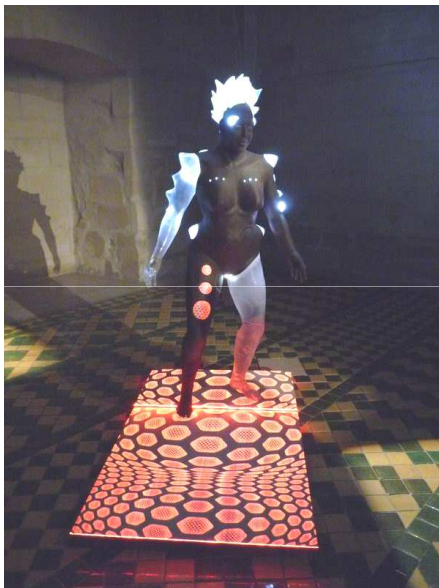


Advertising backlighting - Alstom Transport



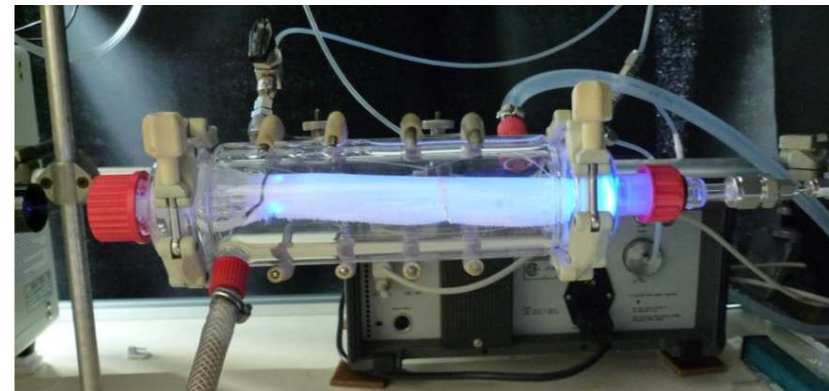
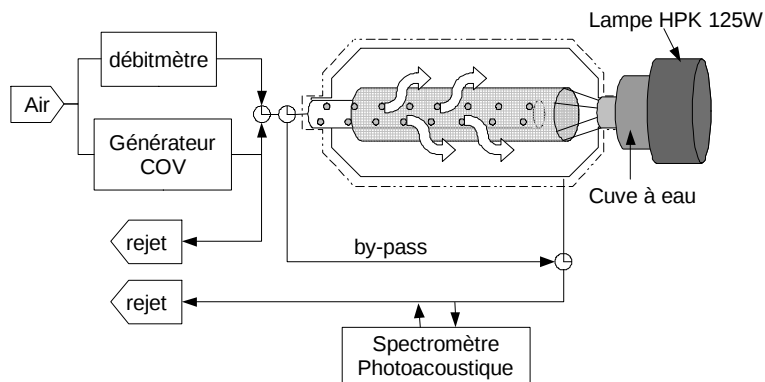
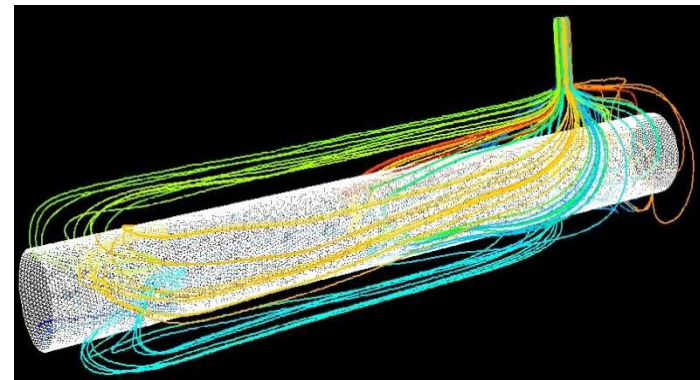
Brand name sign – Lenoir Services

□ Applications – customized systems

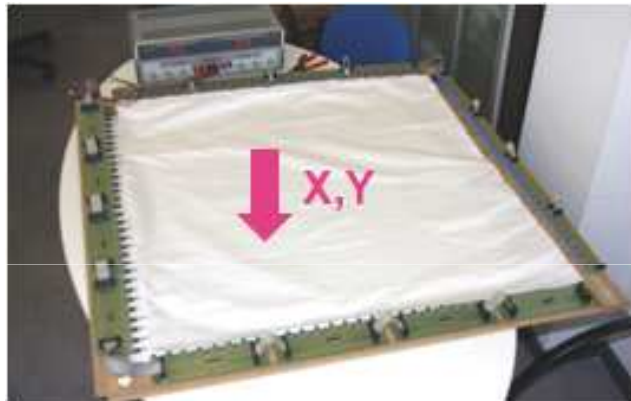


□ Applications - PHOTOCATALYSE

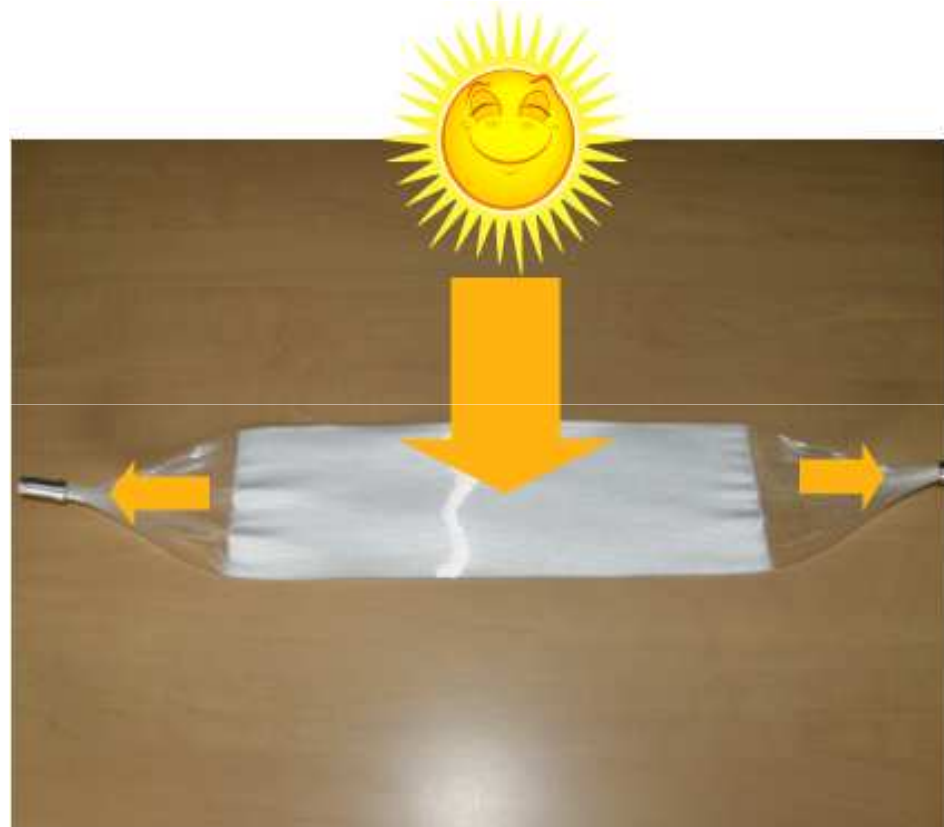
- Air and water depollution



□ Applications – DETECTION

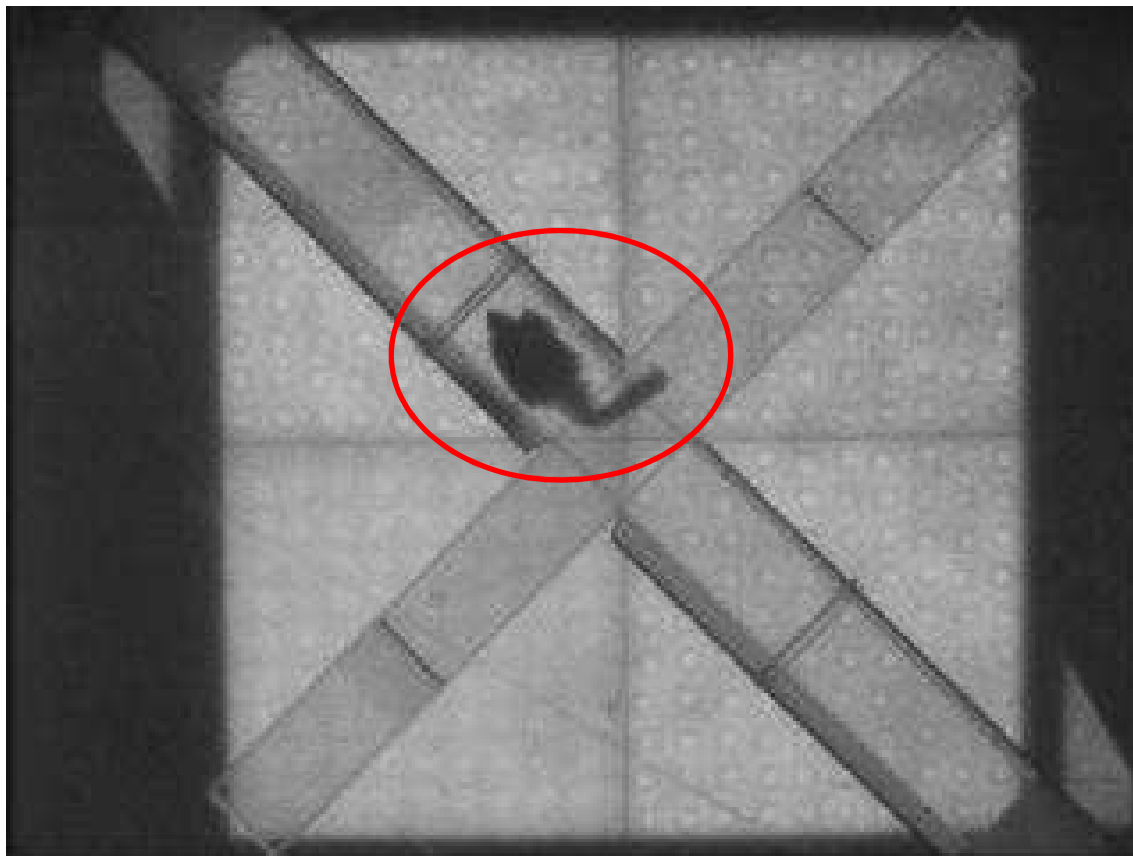


Position/pressure detector



Light collector

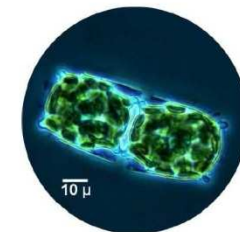
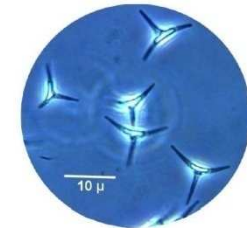
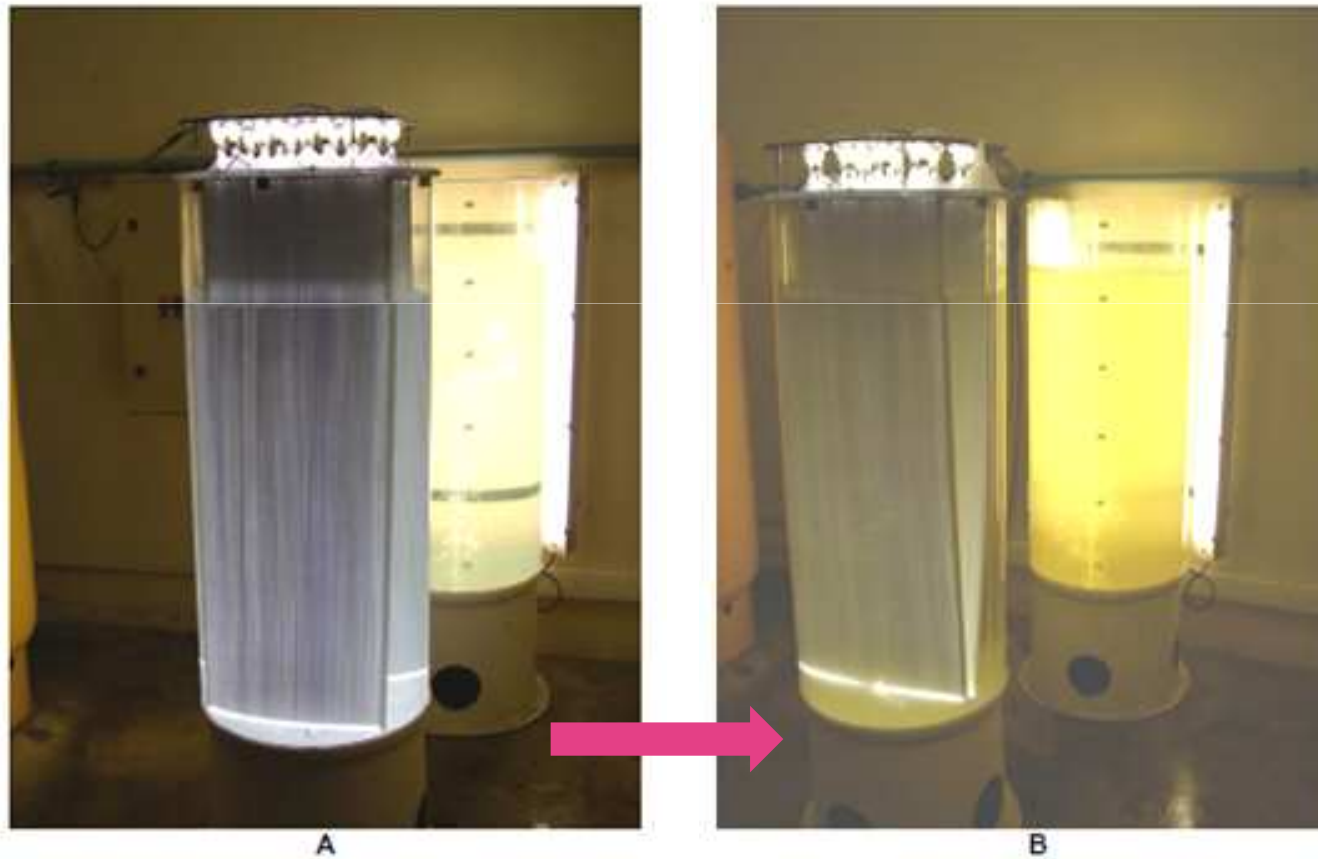
□ Applications – **IMAGING**



Mouvements analysis – IR Backlighting

□ Applications – PHOTOSYNTHESIS

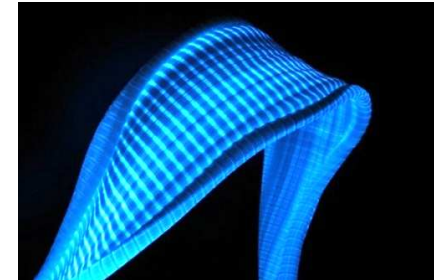
- micro-seaweed culture



□ Lightex® : complementary to LED technology

A high efficiency light guide !

- Change a single light spot into an illuminating surface
 - *New focus on comfort and well-being*
 - *Thin and light weight*
- Remote light source
 - *Inert illuminating area (no EMI/RFI – no heat)*
 - *ultra thin solution*
- Processes knowledge ensures controlled light distribution
 - *Uniform lighting surfaces or patterns*
 - *small to very large surfaces possible*
- Unique textile properties



□ Contact

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