



Lighting Quality
& Energy Efficiency

March 14-17, 2010
Vienna, Austria

Lets/LED go for quality - Workshop Vienna, 17th March 2010

Efforts of the European lighting Industry to deliver high quality energy efficient LED lighting solutions

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CELMA

*Federation of National Manufacturers Association for
Luminares and Electrotechnical Components for
Luminares in the European Union*



- Presentation of the European lighting Industry
- Where are we now with LED?
- Joint ELC / CELMA LED Working Group
- Informing and educating the market
- EU legislation
- Market surveillance
- ELC / CELMA LED Forum at Light+Building Fair

Your inputs from this workshop and the conference, provide valuable feedback to the LED Working Group



- 7 Member companies



GE

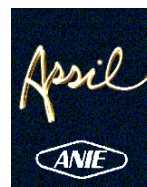


- collectively employ 50,000 people in Europe
- account for 5 billion Euro European turnover
- www.elcfed.org



- 19 National Manufacturers Associations for Luminaires and Electrotechnical Components for Luminaires in 13 EU countries
- Represents more than 1000 companies (majority of small and medium-sized companies)
- Directly employs more than 100 000 people in Europe
- Generates over 15 billion Euro annually
- www.celma.org

Clear and agreed
Mission Statement
& Objectives





Where are we now with LED?

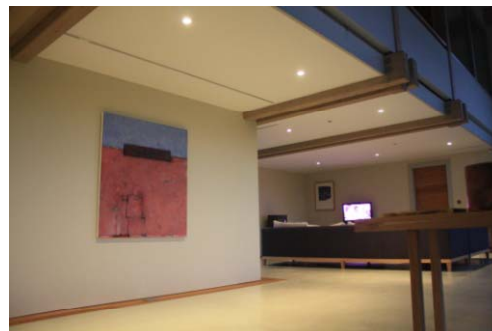
Many Effective applications now possible, with substantial energy saving benefits & paybacks. For example...



Outdoor site lighting



Outdoor spotlighting



Residential downlights



Retail applications

However, some applications are still not practical today, but will become real in future

Industry and user awareness of realistic application of LED is vital

We want to encourage and accelerate adoption, whilst maintaining realistic expectations



Joint CELMA / ELC LED Working Group

Goal: to achieve a quick(er) penetration of LED Lighting products in the market trough:

- Managing expectations on LED Lighting (FAQs and education)
- Creating one strong voice towards interest groups and stakeholders
- Actively driving new LED Lighting standards
- Safeguarding a minimum quality level of LED Lighting products in the market
- Optimizing benefits of LED Lighting products over the entire value chain (from component to user)

Work in
progress



- Joint CELMA/ELC Guide on **status of LED standards**, 1st Edition, Nov 2009
 - Industry actively driving and pushing standardisation process of LED
- CELMA Guide for OEMs and producers of **LED based luminaires**
- ELC paper about **(LED) directional retrofit light sources**
- **General LED FAQ** will be available in the next days

All available on www.celma.org and www.elcfed.org



- The European lighting industry is very active in the drafting of EU regulations affecting LED lighting products
 - The industry is welcoming the 1st steps in the EU Ecodesign Regulation 244/2009 on non-directional household lamps (part 1)
 - The industry is looking forward to see improved requirements for LED lighting products in the future EU regulation for directional household lamps (part 2)



Summary & latest status of EU EcoDesign Regulations on LED:

1) LED light sources:

- In (published) EU Regulation 244/2009 non-directional LED light sources are included but requirements are incomplete
- For future part 2 Regulation Consultant VITO has proposed functionality and performance requirements for LED lamps as requested by the ELC
- Industry input:
 - ELC paper on directional light sources (retrofit reflector-type lamps)
 - Upcoming ELC paper on LED lamps replacing fluorescent tubes
 - Present situation – unregulated sale of potentially inefficient and unsafe product – not satisfactory
 - Industry in favour of having regulation also for these lamps

2) LED modules:

- Covered by future Regulation on domestic part 2 but no requirements are proposed
- Industry input: upcoming ELC/CELMA paper about minimum performance requirements for LED modules



Summary & latest status of EU EcoDesign Regulations on LED:

3) LED luminaires:

- Proposed to be excluded for the moment at the request of CELMA
 - The reason is that LEDs luminaires are considered as a lamp (according to lamp definition in EuP Regulation 244/2009) – which is strongly opposed by the industry - and would be subject to different criteria than luminaires incorporating other technologies. It is important that an emerging technology such as LEDs (and in the future OLEDs) are not put at a disadvantage.
- CELMA suggested VITO this exception for LEDs luminaires to be reviewed in 3 years (ahead of the regular review which will happen in 5 years at the latest) when the industry has a better view of the future for the technology
- LEDs luminaires will be included in the future CELMA design guidance document for efficient domestic luminaires
- There is no harmonised way of describing the characteristics of LED lighting systems
- CELMA will ask the European Commission for an EuP Mandate to CEN/TC 169 to develop a standard for photometric data of LED lighting systems



Market Surveillance

- The industry calls urgently for market surveillance, what are regulations without market surveillance?!
- Examples of initiatives:
 - Caliper **US Department of Energy Initiative**
 - EU sounds safety alert on Christmas lights
- The industry calls for market surveillance also on performance & energy efficiency, not only on safety to ensure the compliance of LED products



Invitation to joint LED Forum Light + Building Fair

CELMA/ELC LED Forum on 14 April 2010 from 10.00 to 13.00:

- State of the art of LED luminaires
- State of the art of LED light sources
- How standardisation, regulations and other initiatives can help to fulfil customers' expectations with LED lighting solutions





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**Thank you very much
for your kind attention!**

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