

Prof. Susanne Brenninkmeijer

All-Rounder LED?

Speakers Profile

Born January 9, 1968; Euskirchen, Germany

Education

Student of Interior Design, Dusseldorf College

Final examination: Diploma

Post graduate studies „Application of Light“

Technical University Ilmenau / Thuringen,

Post Graduate

Employment

February 1994 - October 1996

Licht Kunst Licht GmbH, Bonn

as lighting designer / project leader

December 1996 – January 2003

a•g Licht, Cologne

as lighting designer / project leader

March 2003 – May 2012

Professor at “University of Applied Sciences”,

Wismar for “Interior Design, Colour,

Materials and Light under consideration of

human perception” and for “Lighting Design”

January 2008 – February 2012

Editor of “Professional Lighting Design”

Since 2002

L + RC Licht + Raum Consultants

own office

As well as several Tuitional Activities,
Lectures, Seminar activities and Publications.

Abstract

Since their invention white LEDs have developed rapidly in leaps and bounds. Efficiency is improving fast and every month we are witness to new developments and technologies. At the world’s biggest light fairs in 2012, 90 per cent of the light sources used were LEDs and the majority of luminaire manufacturers only displayed their latest LED-adapted products. LED suppliers are providing the industry with improved products by the day: state-of-the-art LEDs are more effective, have a longer service life and enhanced colour rendering properties, and they are becoming more cost-effective. The market is full of new products from all over the world. This ensuing



variety means that the market offers a wide choice. This, in turn, leaves luminaire manufacturers and especially lighting designers and clients feeling unclear and insecure about how to make that choice.

Although we are all happy to have an alternative for fluorescent lamps, which claim to be economically and qualitatively equally good, we have come to a point when we need to verify the facts. Besides product quality, a thorough comparison of conventional light sources with LEDs will need to focus more on human perception than we have done till now. We also need to define new criteria for the calculation and evaluation of light quantity and quality.

The presentation will attempt to address these topics from a consultant’s perspective: compare LEDs with other light sources, examine their functionality in different situations and make a statement as to their benefits. Two very different projects, a museum and a home for handicapped people, will demonstrate what difficulties can arise during the planning process.

Are LEDs really the all-round solution they are made out to be?

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