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Presentation title:	***Efficient Indoor Lighting Design***	

Standards in lighting design are changing rapidly. With the advent of LEDs there are much more parameters for the lighting design in order to be considered. Working in a lighting laboratory means that every day we face various demands from either luminaire manufacturers or lighting designers, making us question some parts of the current standards. Many technical CIE committees are continuously trying to improve these standards, however, due to the extremely wide range of lighting applications and the rate of technical advancements, new questions are constantly being posed. The scope of this presentation is to pinpoint various problematic issues in standards, in relation to photometric measurements, lighting design and user's behaviour. The estimation of Ra in EN 12464 using 8 colors and not 15, the lack of regulatory frame to avoid light pollution, the lack of dimming profiles of ballasts and drivers, are some examples of the aforementioned issues together with the validation of many lighting simulation tools.

CV:

Lambros T. Doulos was born in Athens, Greece on September 19, 1975. He received the Dipl. in Physics from the University of Athens, Physics Department, in 1999, the MSc Dipl. in Environmental Physics from the University of Athens, Physics Department, in 2002 and the PhD Dipl. from the National Technical University of Athens in 2010. He is an expert in lighting design, rational use of energy in lighting systems, use of daylight in buildings, development of innovative photosensors, road and tunnel lighting measurements. He works at Lighting Laboratory (NTUA) as a Researcher and as an Adjunct Professor in the MA program "Lighting Design" at Hellenic Open University where he teaches the course "Lighting Technology and connection with production". He is the writer of number of publications, and books dealing with lighting, lighting controls and energy saving. Several research projects have implemented by the researcher. He also offers consultancy services in lighting design and building's low energy techniques.

My detailed CV could be found at this link:

http://lighting.ece.ntua.gr/index.php?option=com_content&task=view&id=73