Global SSL quality requirements and test - IEA-4E-SSL

The aim of the project is to increase the use of high quality and energy efficient lighting on a Danish as well as global level, which can provide a significant contribution to reduction of the consumption of fossil energy and meeting climate challenges. IEA 4E has established a group of SSL experts dealing especially with LED and gradually also the new technologies like OLED and laser based lighting. Danish participation in this work has the benefit that Denmark is in the forefront of setting harmonized global requirements for efficiency and quality, as well as development and testing of measurement methods to ensure the requirements are meet.

For the period 2019 - 2024, the main overall goals for IEA SSL Annex are:

- Restrict the market access for “bad” products worldwide by updating/revising the existing tiers for efficiency and quality with the addition of new requirements for new features and products
- Help solve the existing problems with the appropriate measurement methods for the test of flicker and life time including testing in the participating laboratories and international comparison
- Manufacturers are investing heavily in developing Connected/Smart lighting, where the lighting system adds a lot of control and comfort, and where the lighting system serve as a communication system for various IoT products, guidance in shopping centres, museums and much more. The IEA SSL is to continue its leading role at the forefront raising attention to additional energy consumption associated with the new features, setting up measurement methods, executing measurements in laboratories, proposals for minimizing the consumption and proposing requirements.
- Study the impact on health and environment as well as requirements to minimize the influence.

An important part of the project is to disseminate the results and discussions of the Annex to Danish lighting industry and bring the industry feedback to the Annex.

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