SpotLASE: Energy Efficient Laser Enhancement of Stage Spotlights

The project aims at bringing novel energy efficient laser lighting technology to the entertainment lighting industry by developing and demonstrating two new types of laser based light engines. They are designed to replace high intensity discharge (HID) lamps used in high power stage spot lamps, leading to significant reductions in energy consumption and dramatic increase in lamp lifetime and reduction of the environmental impact. This cannot be achieved using Light emitting diode (LED) technology alone, due to the limited luminance of LEDs.

The project team unifies all the necessary competences and experimental facilities to the project work from laser diode and LED systems, spectroradiometric testing, materials handling, thermal management, product design and production, electronic control to market/user knowledge within the entertainment lighting industry.

The project will bring the two companies in front within laser lighting technology and many new applications are anticipated within the lighting industry. The general perspectives and results of the development work will be made publically available, e.g. to the scientific and industrial communities.

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