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# PhotonStar LED Group plc

## PhotonStar commences shipping of Halcyon™ retrofit home lighting system

PhotonStar LED Group plc (AIM: PSL, "PhotonStar" or "the Group"), the British designer and manufacturer of smart LED lighting solutions, has commenced shipping of its Halcyon™ next generation retrofit home lighting system.

Halcyon™ is an intelligent wireless retrofit lighting system that includes sensors and is controlled wirelessly by a powerful, low cost server. It utilises the Group's proprietary ChromaWhite colour-tuneable technology and provides "Circadian" lighting that changes throughout the day to simulate daylight, with positive effects on health and wellbeing. The system was developed in the UK with the support of a grant from the Department of Energy and Climate Change.

Halcyon™ is a highly compatible data centric solution with an open interface for developers, and PhotonStar aims to collaborate with partners looking to provide new services through the data that can be gathered by the system. The same technology will be incorporated into commercial products.

**James McKenzie**, Chief Executive of PhotonStar LED, said:

***"The launch of this first wireless product signals a step change for PhotonStar. Our Halcyon™ wireless control technology can provide practical energy saving and Circadian lighting solutions featuring ChromaWhite, for the very substantial retrofit market.***

***"With the majority of buildings for the next decade already in existence, the capability to install advanced technology, without the high cost and installation inconvenience of wired controls, now opens up a considerable market opportunity for our smart lighting solutions."***

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### **About PhotonStar LED Group PLC**

PhotonStar LED Group plc is a leading British designer and manufacturer of intelligent lighting solutions. The Group's proprietary technology Halcyon™ is a connected lighting platform that includes hardware and software for wireless, microprocessor controlled retrofit LED lighting and control systems, optimised for energy saving, circadian and data-centric applications.

As light is needed wherever there are people, the Halcyon™ platform can also provide a connected grid that will enable rich data collection, as well as an ecosystem to enable other devices to operate

simply and more effectively as part of the so-called Internet of Things. The Group is working with partners on ways of using the Halcyon™ system to deliver new business models and solutions based on light as a service, behavioural insight and cloud services and with developers of standalone hardware items that will utilise Halcyon's local IoT infrastructure to optimise their functionality.

PhotonStar's ChromaWhite light source technology within Halcyon™ is optimised for "Circadian," or non-visual effects of light on humans. The Group is currently working with partners to deliver low-cost lighting solutions that can help improve productivity, health and wellbeing in healthcare facilities, schools, workplaces and homes.

The Group also provides fixed white LED lighting products for a range of commercial and architectural applications.

PhotonStar comprises two divisions: PhotonStar LED Ltd, which works with lighting designers, architects, house builders, facilities management companies and sustainability consultants to provide intelligent, high-end, recyclable LED lighting solutions for the commercial and architectural market which is expected to see rapid adoption of the new Halcyon ecosystem; and PhotonStar Technology which provides LED lighting solutions for specialist applications such as film & television production lighting, UV curing and medical applications.

Photonstar has won awards for performance, innovation and reliability, with its flagship light source technology ChromaWhite winning the Lighting Association's 'Light Source of the Year' Award for two consecutive years. The Group was also awarded the UKTI's Business Innovation Award for Energy and Environment in 2010 for a commercial lighting solution with embedded sensors and microprocessor control.