

14th December 2009

SmartWhite by PhotonStar™ nominated for the prestigious Lighting Design Awards.

It has just been announced that PhotonStarLED Ltd. has been nominated as a finalist for the prestigious [Lighting Design Awards](#). PhotonStar's [SmartWhite](#) has been selected as a finalist in the section "Light Sources and Controls".

Coordinated by the Institute of Lighting Engineers and sponsored by Lighting magazine, it is the biggest and most prestigious award for architectural lighting in the world. An independent panel of judges selected from industry specialists will review the nominations, and winners will be announced at a gala dinner on Thursday 11th March at the London Hilton, Park Lane.

SmartWhite by PhotonStarLED Ltd. is an intelligent, dynamic, colour tunable range of LED based illumination grade luminaires.

SmartWhite is set to revolutionise the way lighting is specified. SmartWhite luminaires feature proprietary PCB and LED arrays and have inbuilt thermal and optical sensors. The remote intelligent controller has an on-board microprocessor and can accept DMX, DALI and 1-10V analogue control protocols. The microprocessor talks to the luminaire and provides dynamic high quality white light, locked to the Planckian locus of the black body curve. This is tuneable between 3000°K and 6500°K. The unique characteristics of SmartWhite luminaires are that the high colour rendering index is always maintained between Ra90 and Ra94, and the intensity of light does not alter when tuning between colour temperatures. Therefore, a SmartWhite CS-TT downlight can offer in excess of 500 lumens across its entire white light spectrum, from 3000°K and 6500°K.

High energy efficiency is also achieved – in excess of 45 lumens per circuit watt across the tuning range, fully meeting the requirements of Building Regulations Parts L1 and L2.

Simple links to wireless control means you can even download an application and control lights from you iPhone, or similar device! The on-board micro processor facilitates intelligent feedback to building control systems, meaning the operating characteristics such as load and state of the LEDs is possible. Therefore, simple timed events are also possible such as the unique feature of increasing the efficacy to over 70 luminaire lumens per circuit Watt, achieved by retuning the output via the optical sensor and microprocessor. This achieves unparalleled increases in efficacy for times of low occupancy; for example out of hours security lighting.

The thermal sensor also guarantees the longevity of the fitting. LEDs fail prematurely with too much heat and therefore, if a SmartWhite downlight senses it is running too hot, it will adjust its own output until the junction temperature of the LEDs reaches the designed levels to ensure the quoted ultra-long life expectancy is achieved.

Plug and Play connection between the controller and fitting eliminates the risk of incorrect connection and therefore failure.

Features and benefits:

- 5 year warranty
- Excellent optical performance for optimum spacing & uniformity
- Emergency and trimless plaster-in versions available
- Colour temperature range:3000K - 6500- CRI 90 to 94
- No UV or IR emitted
- Building Regs Parts L1 & L2 compliant
- True replacements when considering size & output for tungsten halogen fixtures
- RoHS compliant (Restriction of Hazardous Substances) and zero Mercury & Lead content
- Realise up to 80% energy savings when compared to traditional incandescent and halogen light sources
- 100% recyclable, maintainable and produced from 85% recycled aluminium
- F marked / CE Rated / BSEN 60 598 compliant

For a SmartWhite CS5TT, Max 10W achieving 500 emitted lumens across the locked white light range of 3000°K and 6500°K (after all optical and thermal losses)

www.emapawards.com/lightingdesignawards2010

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