



PRESS RELEASE LIGHTLAB SWEDEN AB 2009-11-23

LightLab's environmentally friendly lamp achieves high energy efficiency and excellent colour rendering

Full report from Intertek now available.

Energy efficiency of 67-85 lm/W.

Ra-values exceeding 90.

The Intertek report

In a press release of November 11, LightLab published an extract of the report produced by Intertek in China in connection with the tests it implemented at the beginning of November. The full report is now available on LightLabs webpage (www.lightlab.se)

High energy efficiency at different colour temperatures

LightLab has designed the phosphor blend to cover the entire range of colour temperatures for lighting applications which shows a rather small variation in energy efficiency. The objective of the Intertek tests was to certify LightLab's photometric method and the results of the photometric measurement and spectrometric measurement.

These tests showed an energy efficiency of up to 85 lm/W. This was achieved at a colour temperature of 8176 Kelvin (K.). In the spectrometric test, LightLab's low energy lamps showed luminous efficiency figures that varied, depending on the lamp, between 67 and 85 lm/W (average of 75,9 lm/W), within a colour temperature range of 6712 K and 8628 K. The former figure represented daylight close to the "noonday light" D65 norm.

The spectrometric method is the most common one used to measure luminous flux. The photometric measurement was also carried out, which showed somewhat lower values. The average luminous efficiency of 75,9 lm/W for the LightLab's lamp exceeds the efficiency figures for most mercury-based low energy lamps currently on the market. A colour temperature of 5000-7000K. is equivalent to "daylight conditions" and appropriate for use in a range of premises such as offices, factories and warehouses, hospitals, tunnels, greenhouses etc.



Excellent colour balance

The tests also showed that LightLab's lamp had very high colour rendering index Ra, over 90. The Ra value measures the performance of a light source to reproduce colour. The higher the Ra value, the closer the light is to the sun light, with 100 being the highest value.

Our new information video is now up at www.lightlab.se

LightLab Sweden AB (publ)

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