

## Press release – 2008-10-07

### **Aluwave AB and Optimal Light Partner AB develops next generation light system with LED and fiber optics**

Optimal Light Partner (OLP) has developed a patented fiber optic light system where you can mount a powerful light source separate from where the light leaves the lamp. An example is street lamps with light source mounted at ground level. The main benefit with this is simplified maintenance and that you can protect the light source from extreme environments. The product is commercialised.

Driven by a strong market need OLP has now signed a development agreement with Aluwave to develop a LED-based light engine for their range of products.

Together with Banverket, Swedish Rail Administration, the LED based system will be tested in field trials during the autumn. The project also involves key resources at the Royal Institute of Technology and the Swedish Energy Agency.

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## About Aluwave AB

Aluwave AB is an innovative Swedish company that specialises in electronics cooling technology and provides, as a complement to Alunat™, customised light engines and expertise in electrical, thermal and optical design

## About Alunat™

Aluwave's family of materials for printed circuit board products - Alunat™ – is developed to solve the heat problems of modern electronics. It is based on a ceramic, instead of a polymer layer, between the copper conductors and the aluminium plate. The ceramic layer has excellent thermal conductive and electrical isolating characteristics.

Alunat™ is highly suitable for high power LED (Light Emitting Diode) applications. The heat from the LED is very efficiently transported away from the component, allowing it to operate at lower temperature compared to traditional solutions.

## About Optimal Light Partner AB

*Light from below shines from above*

The development within the area of lighting has in recent years mainly been focused on reducing the cost of energy and increase the lifetime of existing light sources. Apart from the development of the light source itself i.e. the bulb very little has happened in terms of lighting systems as a whole. Reflectors, lampposts and electrical functions has continuously improved but without any drastic improvements.

Using fiber optic technology OLP has now changed this. The patented idea allows that the light source could be taken down from a street lamp post and be mounted at street level. The light is transported from the light source to the top of the lamp post using fiber optics. In this way the total lifecycle cost of lighting systems can be reduced to 50%. Another benefit is that the lifetime is prolonged significantly with the light system from OLP.