

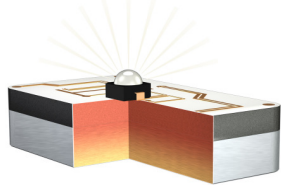
Standby AB

Emergency Vehicle Lighting

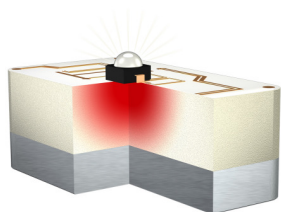
Standby AB develop and manufacture alarm- and warning equipment for emergency-, commercial- and special vehicles and are a complete system supplier of light-, audio- and control equipment. Anyone who has seen a Swedish police car has also seen Standby's products.

To further strengthen its position on the market Standby wanted to develop powerful blue and amber, stand alone, LED-lamps according to UN-ECE-R65. In order to succeed it was vital to have a low and stable LED chip temperature to avoid that the lamps would change in colour and drift outside the specifications.

Alunat™ is developed by Aluwave to solve the heat problems of modern LEDs. It is a printed circuit board material based on a ceramic, instead of polymer, insulating layer with excellent thermal properties. It governs for low and stable chip temperatures, the principle is described in the picture below.



Alunat™, with an even heat distribution



Conventional Aluminium based carrier with a heat concentration in the polymer under the LED



The blue and amber lamps

The result, as shown above, was achieved with four power-LEDs mounted on an Alunat™ board with a combination of standard and custom lenses to achieve extreme wide angle performance. Anders Wqvist, Managing Director of Standby AB, says "The lamp type is probably the most powerful and versatile LED-lamp on the market today". An external flasher provides different flash patterns and an internal flasher is under development. The lamp is available for flush and surface mounting.



Six blue lamps mounted on a police car in the rear view mirrors, under the head lamp and above the license plate.

Aluwave AB is an innovative Swedish company that specialises in electronics cooling technology and provides, as a complement to Alunat™, also expertise in electrical, thermal and optical design. Our customers are mainly in automotive, architectural, sport and work lighting applications.

For more information on Standby:
<http://www.standby.eu/>