



The cooling solutions for Edison Opto's EdiLex Zhaga LED Modules

The combination of Edison Opto's SLM module with MechaTronix's thermal solutions offers high lumen and perfect cooling performance

NEW TAIPEI CITY, TAIWAN, June 25, 2013 /EINPresswire.com/ -- In order to enable the interchangeability of LED light sources made by different manufacturers, Zhaga, which is an industry-wide cooperation between companies, has defined interfaces for a variety of application-specific light engines. Although the LED engines which comply with the Zhaga standards all have the same shape and can be mounted in the same way, that doesn't mean they all perform in the same way.

To compare the quality of light, there are a lot of values available, ranging from output lumen, CCT to CRI, and with these indexes we have some input to match the criteria with the goal of luminaire design. However, when it comes to the aspects of expected life time, color shifting due to temperature, lumen decrease through the years, all these aspects have one single origin: thermal management.

According to the R&D manager of Edison Opto, "perfect internal thermal management with patented heat slug technology can lead to a minimal required external cooling of these LED modules". Taking Edison Opto's EdiLex SLM (Spot Light Module) which is developed according to the Zhaga book 3 standards as an example; it combines high quality LED dies from the latest generation with the use of high performance carrier boards and a deep knowledge of thermal management.

Edison Opto's thermal partner, MechaTronix, has introduced passive and active thermal solutions for EdiLex SLM. For a 2000 lumen (22W) EdiLex LED engine, which is built into a recessed shop light at an ambient temperature of 40°C, a passive LED cooler of diameter 99mm and height 80mm like ModuLED 9980 (as shown in the figure) is the optimal choice to reach a perfect cooling (the temperature of heat sink only rises to 60°C) and an expected life time of over 40,000 hours.

In addition to the passive cooling solutions, there are some applications where an active LED cooling is unavoidable. For spot and down lights from 2000 to 8000 lumen (20 to 90W cooling), MechaTronix's IceLED modular active LED cooler is specifically suitable for the high power LED engines, such as 22W and 35W EdiLex SLM. The IceLED cooler features super silent working mode (<21dB at 1m), unique thermal performance and Zhaga module compatibility. The modular design with mounting holes can mount the EdiLex spot light module directly without adding additional drilling or tapping costs.

Edison Opto's EdiLex Spot Light Module (SLM) uses EdiPower II 8W~25W components which are high brightness LEDs. And it is available in 9W (800 lm)/ 11W (1000 lm)/ 22W (2000 lm)/35W (3000lm), with high CRI (over 85). Besides, its specially designed holder and reflector make it easy to interchange different optical designed reflectors (available in 25°, 35° and 60°). Each EdiLex Spot Light Module (SLM) can be assembled easily into heat sink and lighting fixture.

About Edison Opto

Edison Opto has established the headquarters in New Taipei City, Taiwan since 2001. Edison Opto is

a professional LED manufacturer which specialized in designing and producing High-power LEDs. In order to satisfy customers' high standard requests for quality, Edison Opto established a LM80 approved laboratory which is certified by UL. Edison Opto creates the LDMS service program, which integrates the four essential technologies in LED lighting applications (Thermal Management, Electrical Scheme, Mechanical Refinement and Optical Optimization), and provides customized professional design and production services, covering components, optical design, modules and products. In response to the rapid growth of capacity demand, Edison Opto has established factories in Dongguan and Yangzhou. Besides, in order to expand the service domain, Edison Opto has established subsidiaries in USA and Germany. Based on the worldwide service network, Edison Opto provides customers with complete product support and prompt delivery services.

More Information about the company and our products can be found at www.edison-opto.com

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