

Custom Product Design & Manufacture



Cooliance has the advanced manufacturing and design capabilities to provide a wide variety of custom solutions ranging from highly aesthetic lighting fixtures and beautifully finished retail products to high strength enclosures for electric vehicles. Cooliance's strength in custom products is attributed to locally based Engineering support, advanced manufacturing equipment, fast tool development, and low tooling costs. Over fifty percent of Cooliance sales are in custom products.



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LED Lighting Heatsinks



-  Cold Forged Aluminum, Or Copper, For Outstanding Thermal Conductivity
-  Pin Fin Design For Thermal Efficiency In Any Orientations
-  Precision Machined 10mm Base
-  Customization Options For Each Application

cooliance High-Performance LED Heatsinks

Cooliance produces a range of industry-leading, high-performance passive and active heatsinks specifically designed for LED applications.

CPL Series, Passive: solid one-piece, forged aluminum construction for maximum thermal conductivity; precision machined 10mm thick base for maximum security and design flexibility.

CHP Series, Passive: high-performance LED heatsinks (150W to 250W at 25°C ambient) utilizing bonded fin technology for fully optimized thermal conductivity; precision machined aluminum base (7mm to 10mm). The CHP250 incorporates copper heat pipes into the base to enhance thermal performance.

CSL Series, Active: high-performance active heatsinks combining forged aluminum construction, precision machined 10mm thick base and high-reliability fans to produce 50W to 500W of power dissipation in a compact format – quiet and reliable!

If you cannot find a standard Cooliance product to fully meet your requirements, please talk to us. We can modify our standard product or provide fully custom solutions.

For Pendant Lights, Spot Lights & Track Lights



Pendant Lights, Spot Lights, and Track Light LED lighting share similar traits. They are compact, and in recent years have been defined by the Zhaga Book 10 specifications (35mm and 50mm diameter LED modules).

- thermally efficient, aesthetically finished, one-piece cold-forged aluminum
- Ø50mm x 70mm heatsink has a thermal resistance of 2.45°C/W
- pin fin design permits effective cooling in virtually any mounting position

Our standard heatsinks offer hole patterns that support the major COB and LED holder manufacturers and can be readily modified to accommodate cable management, optical lens or mounting requirements.

For Architectural Lights & Downlights



As the LED market continues to evolve, architectural and downlight applications have moved towards passive cooling technology in the majority of applications.

- our high-end aesthetic finish accents and adds value to your luminaire
- 34W to 250W (@ 25°C ambient) for Ø70mm to Ø200mm passive heatsinks
- cable management features such as cableways and strain relief are available

Cooliance also offers an active cooling range with fan and control system for compact applications

For High Bay



High Bay lighting is a lighting category applied to luminaires used in indoor spaces with high ceilings such as warehouses, retail stores and factories. Depending on the application, either passive or active LED heatsinks can be used with power dissipation of up to 500W.

- industry-leading thermal resistance of up to 0.15°C/Watt
- thermally efficient operation when inclined
- heatsinks can be shipped with cable management features such as cableways and strain reliefs
- IP67 (waterproof) versions using cableways and silicone sealant are available

The product shown is an active LED heatsink with an integral fan and control system.

For Studio & Flood Lights



LED luminaires are obtaining increased market share in Floodlight and Studio lighting. This type of lighting is typically operated at a variety of inclined angles. Both our active and our passive LED heatsinks provide optimum thermal performance when used through a range of positions:

- active heatsinks, through the use of forced convection cooling
- passive heatsinks, through the use of an optimized pin fin design

For waterproof luminaires, the precision machined base of the LED heatsink creates a watertight seal against the luminaire's IP67 rated lens.

For Horticultural & Street Lights



As municipalities seek methods to reduce their operating costs, many are focusing on the power consumption of their streetlight infrastructure. Similarly, indoor agriculture is shifting to the increased efficiencies offered by LED lighting.

Our new range of rectangular pin-fin heat sinks offers the same benefits as our established round pin-fin range but in a format suitable to street and indoor agricultural lighting.

- pin-fin design in one-piece cold-forged aluminum for maximum heat transfer
- high-quality aesthetic finish; 10mm base for security and design flexibility
- available in numerous dimensions to meet your application requirements