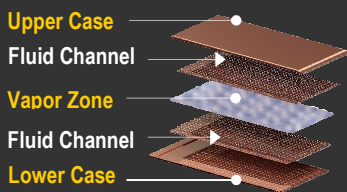


Celsia NanoSpreader¹

LED LIGHTING

NanoSpreader General Information



ENHANCED PERFORMANCE

Up to 30% better thermal performance than heat pipe solutions, with ten times the thermal conductivity and half the weight of solid copper

DESIGN VERSATILITY

NanoSpreaders can be made as thin as 1.5mm with a very large surface area that is designed to come in direct contact with the heat source

IDEAL HEAT PIPE REPLACEMENT

Most heat pipe applications can be replaced with a NanoSpreader solution for less cost, better performance, and in some cases both

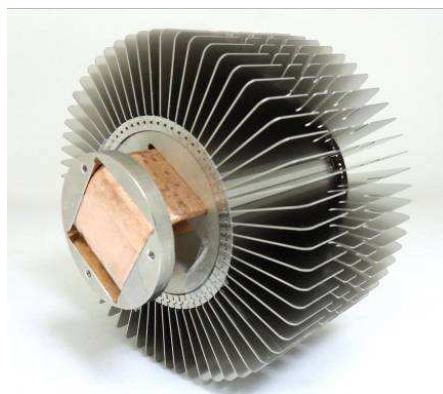
Unrivaled Passive Thermal Solutions for LED Lighting

- NanoSpreader vapor chambers are a patented, copper encased, two-phase vapor chamber with up to 30% better performance than heat pipes.
- Celsia can provide design, prototyping, and mass production of complete or partial thermal solutions.
- Numerous fan-less design wins in LED lighting applications: R30, High Bay, Street Light, LED TV



LED Spotlight / High Bay

- Easily cools 55W LED spotlight and high bay light modules.
- Vapor chamber comes in direct contact with LED module, unlike heat pipe solutions.
- Completely passive solution reduces noise and failure rate due to overheating.



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¹ NanoSpreader is a registered trademark of Celsia Technologies

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TECHNOLOGIES
Making Hot Technology Cooler™