COOLER MASTER®

THE ULTIMATE THERMAL SOLUTION

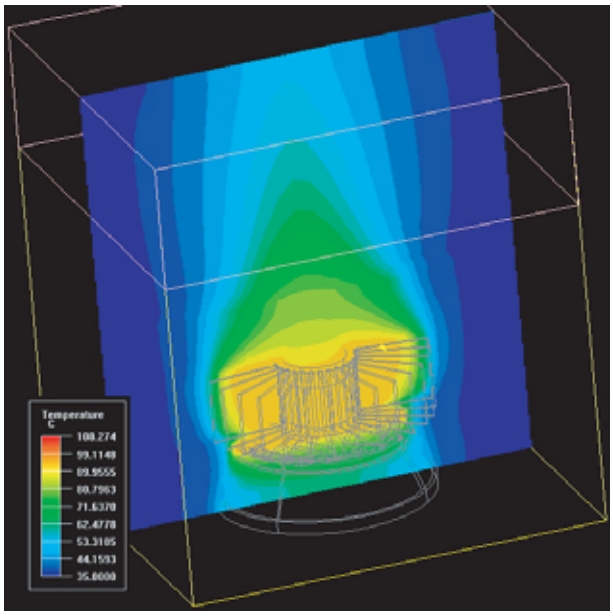
LED System Cooling Solutions

Product Guide

Innovation, Speed, Customer Satisfaction

2007 Version 1.0

Company Introduction



With the evolution of LED lighting applications, a well-designed thermal management becomes one of the necessities when developing LED lighting system. Cooler Master's highly experienced R&D team designed series of cooling solutions especially for LED devices used in street lights or brake single lights for vehicles, As a certified partner of Osram, we have confidence to satisfy all client requirements, makes your LED devices more reliable, longer life expectancy and optimal Performance.

Indoor Lighting

Sunflower

Stacked-Heatpipe

MR-16

Down Light

Indoor Lighting

Sunflower

ED-E0-C052015000-S006

Application: Embedded light
Heat sink: Sunflower-liked aluminum extrusion
Dimension: 52mm(Diameter) x 15mm(H)
Maximum LED power: 6.8W
Weight: 43.7g
Fastener: Screw / Clip
Convection: Natural convection

Performance:
Ta = 30 'C (Ambient temperature)
Tb = 83.4 'C (Metal substrate temperature)
Rth,ba = 9.1 'C/W (Thermal resistance)

ED-E0-C052030000-S010

Application: Embedded light
Heat sink: Sunflower-liked aluminum extrusion
Dimension: 52mm(Diameter) x 15mm(H)
Maximum LED power: 10W
Weight: 65.2g
Fastener: Screw / Clip
Convection: Natural convection

Performance:
Ta = 30 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 5.5 'C/W (Thermal resistance)

Indoor Lighting

Stacked-Heatpipe

ED-SP-C052080000-S009

Application: Embedded light
Heat sink: AL stacked fin + 6mm heat pipe x1
Dimension: 52mm(Diameter) x 80mm(H)
Maximum LED power: 9W
Weight: 122.6g
Fastener: Screw
Convection: Natural convection

Performance:
Ta = 30 'C (Ambient temperature)
Tb = 83.4 'C (Metal substrate temperature)
Rth,ba = 5.95 'C/W (Thermal resistance)

MR-16

ED-E0-C052053000-S006

Application: Embedded light
Heat sink: Aluminum extrusion
Dimension: 52mm(Diameter) x 53mm(H)
Maximum LED power: 6W
Weight: 50.6g
Fastener: Screw
Convection: Natural convection

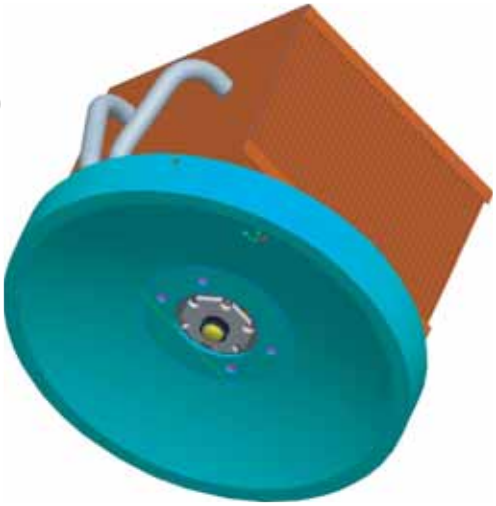
Performance:
Ta = 30 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 9.2 'C/W (Thermal resistance)

Indoor Lighting

Down Light

DL-SP-R102080074-S018

Application: Down Light
Heat sink: AL stacked fin + 6mm heat pipe x1
Dimension: 102mm(L) x 80mm(W) x 74mm(H)
Maximum LED power: 18W
Weight: 300g
Fastener: N/A
Convection: Natural convection



Performance:
Ta = 30 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 3.1 'C/W (Thermal resistance)

Outdoor Lighting

Street Light

Wall Wash Light

Outdoor Lighting

Street Light

SL-E0-R500300055-M070

Application: Street light
Heat sink: Aluminum extrusion
Dimension: 500mm(L) x300mm(W) x55mm(H)
Maximum LED power: 70W
Weight: 5.1kg
Fastener: Screw
Convection: Natural convection

Performance:
Ta = 40 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 0.64 'C/W (Thermal resistance)

SL-EP-R50027255-M100

Application: Street light
Heat sink: AL extrusion + 6mm heat pipe x4
Dimension: 500mm(L) x272mm(W) x55mm(H)
Maximum LED power: 100W
Weight: 6.5Kg
Fastener: Screw
Convection: Natural convection

Performance:
Ta = 40 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 0.42 'C/W (Thermal resistance)

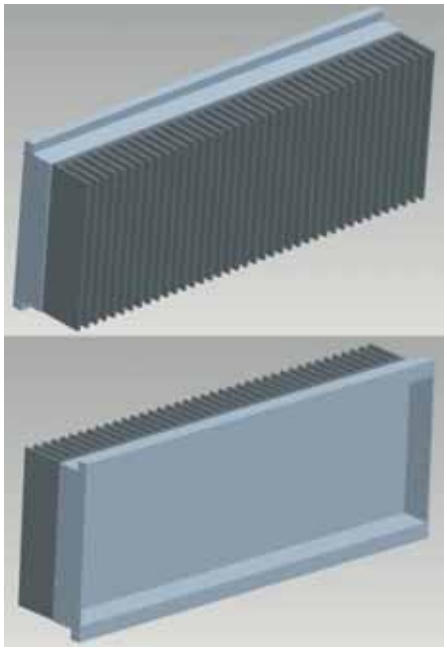
Outdoor Lighting

Wall Wash

WL-E0-R39015050-M108

Application: Wall wash lamp
Heat sink: Aluminum extrusion
Dimension: 390mm(L) x 150mm(W) x 50mm(H)
Maximum LED power: 108W
Weight: 4.5kg
Fastener: Screw
Convection: Natural convection

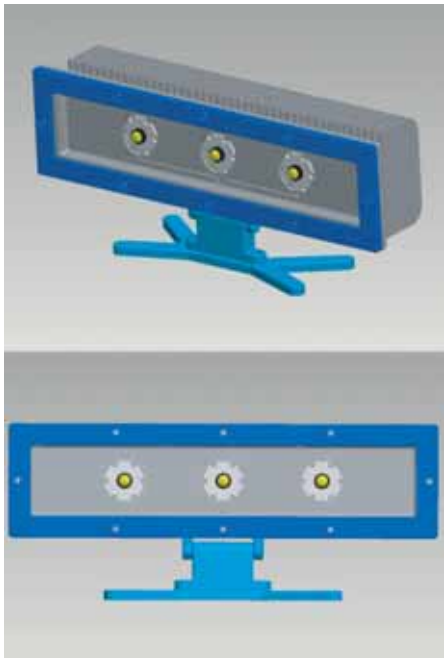
Performance:
Ta = 30 'C (Ambient temperature)
Tb = 71.75 'C (Metal substrate temperature)
Rth,ba = 0.39 'C/W (Thermal resistance)



WL-E0-R218058050-M064

Application: Wall wash lamp
Heat sink: Aluminum extrusion
Dimension: 218mm(L) x 58mm(W) x 50mm(H)
Maximum LED power: 64W
Weight: 1.78kg
Fastener: N/A
Convection: Natural convection

Performance:
Ta = 30 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 0.86 'C/W (Thermal resistance)



Light Engine

- **Sunflower**
- **Stacked-Heatpipe**

Light Engine

Sunflower

LE-EP-C052035000-S010

Application: Light Engine
Heat sink: AL stacked fin + 6mm heat pipe x1
Dimension: 35mm(Diameter) x 104mm(H)
Maximum LED power: 12W
Weight: 110g
Fastener: N/A
Convection: Natural convection

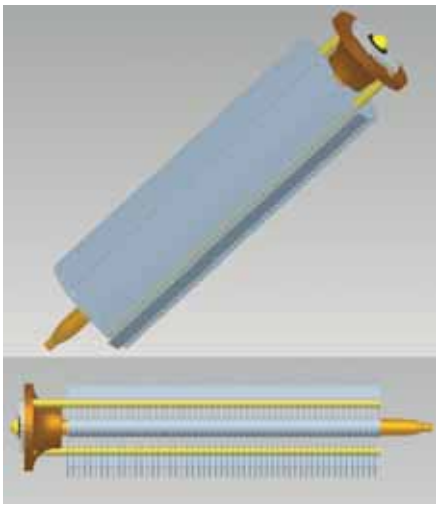
Performance:
Ta = 30 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 4.6 'C/W (Thermal resistance)

Stacked-Heatpipe

LE-SP-C035143000-S010

Application: Light Engine
Heat sink: AL stacked fin + 6mm heat pipe x1
Dimension: 35mm(Diameter) x 143mm(H)
Maximum LED power: 12W
Weight: 65g
Fastener: N/A
Convection: Natural convection

Performance:
Ta = 30 'C (Ambient temperature)
Tb = 85 'C (Metal substrate temperature)
Rth,ba = 4.6 'C/W (Thermal resistance)



THE ULTIMATE THERMAL SOLUTION

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