

# Unlock New Opportunities in LED Lighting



## Nuventix SynJet® Thermal Solutions for OSRAM PrevaLED™ LED Light Engines

### Features

- Enables higher lumen packages
- Up to 1/3 the size of passive cooling
- Lighter weight than passive solutions
- Energy efficient
- Quiet operation
- 100K hours lifetime
- Thermally engineered and designed specifically for OSRAM LED Light Engines
- OSRAM LED drivers have a built in power connection for the SynJet for a Plug and Play solution

### Benefits

- Flexible design for smaller overall luminaires - Contemporary form or height limited areas
- Easy to design in for fastest time to market
- Minimal additional power required for cooling
- Excellent in low noise requirement areas
- Cooling life is longer than the module or driver - does not limit luminaire usable life
- One heat sink design can be used for higher and lower lumen offerings by coupling with a SynJet cooler, allowing higher lumen fixtures with the same form factor

# Nuventix SynJet® Coolers and Heatsinks for OSRAM PrevaLED™ Core Light Engines

## Guide:

- Please see the legend below for the ambient temperature rating of each solution.
- All solutions in these tables are in accordance with recommended acoustic noise levels for lighting applications, for noise sensitive applications choose "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see page 4 of this guide.

OSRAM PrevaLED Core Light Engines				
Heatsink	Spotlight Cooler 21W			
SynJet	ZFlow 65			
SynJet Setting	High	Standard	Silent	Heatsink Only
LEP-3000-930-HD-C	Not Supported	Not Supported	Not Supported	Not Supported
LEP-3000-840-HD-C	Not Supported	Not Supported	Not Supported	Not Supported
LEP-2100-930-HD-C	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient
LEP-2100-840-HD-C	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient
LEP-2100-830-C	Not Supported	Not Supported	Not Supported	Not Supported
LEP-2100-840-C	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient	Supported up to 25C ambient
LEP-800-930-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 25C ambient
LEP-800-840-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 25C ambient



OSRAM PrevaLED Core Light Engines												
Heatsink	Par30 Cooler 40W				Par25 Cooler 32W				Par20 Cooler 24W			
SynJet	ZFlow 65				ZFlow 65				ZFlow 65			
SynJet Setting	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only	High	Standard	Silent	Heatsink Only
LEP-3000-930-HD-C	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
LEP-3000-840-HD-C	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
LEP-2100-930-HD-C	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
LEP-2100-840-HD-C	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
LEP-2100-830-C	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported
LEP-2100-840-C	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported
LEP-800-930-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 25C ambient
LEP-800-840-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 25C ambient

Legend
Supported up to 40C ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported



## Notes:

- 1) Compatibility is based on following the guidelines outlined in Nuventix SynJet Design Guide.
- 2) A functional test should always be performed on the complete luminaire in the worst case ambient condition.

# Nuventix SynJet® Coolers and Heatsinks for OSRAM PrevaLED™ Core Light Engines

## Guide:

- Please see the legend below for the ambient temperature rating of each solution.
- All solutions in these tables are in accordance with recommended acoustic noise levels for lighting applications, for noise sensitive applications choose "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see page 4 of this guide.

OSRAM PrevaLED Core Light Engines												
Heatsink	Spotlight Cooler 38W				Spotlight Cooler 34W				Spotlight Cooler 31W			
SynJet	ZFlow 75				ZFlow 75				ZFlow 75			
SynJet Setting	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only	High	Mid	Standard	Heatsink Only
LEP-3000-930-HD-C	Yellow	Orange	Orange	Red	Yellow	Orange	Orange	Red	Orange	Orange	Red	Red
LEP-3000-840-HD-C	Yellow	Orange	Orange	Red	Yellow	Orange	Orange	Red	Orange	Orange	Red	Red
LEP-2100-930-HD-C	Green	Green	Green	Red	Green	Green	Green	Red	Green	Green	Yellow	Red
LEP-2100-840-HD-C	Green	Green	Green	Red	Green	Green	Green	Red	Green	Green	Yellow	Red
LEP-2100-830-C	Green	Yellow	Yellow	Red	Yellow	Yellow	Yellow	Red	Yellow	Orange	Orange	Red
LEP-2100-840-C	Green	Green	Yellow	Red	Yellow	Yellow	Yellow	Red	Yellow	Orange	Orange	Red
LEP-800-930-HD-C	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow
LEP-800-840-HD-C	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow

OSRAM PrevaLED Core Light Engines				
Heatsink	Spotlight Cooler 60W			
SynJet	ZFlow 90			
SynJet Setting	High	Mid	Standard	Heatsink Only
LEP-3000-930-HD-C	Green	Green	Green	Red
LEP-3000-840-HD-C	Green	Green	Green	Red
LEP-2100-930-HD-C	Green	Green	Green	Orange
LEP-2100-840-HD-C	Green	Green	Green	Orange
LEP-2100-830-C	Green	Green	Green	Red
LEP-2100-840-C	Green	Green	Green	Red
LEP-800-930-HD-C	Green	Green	Green	Green
LEP-800-840-HD-C	Green	Green	Green	Green



Legend
Supported up to 40C ambient
Supported up to 35C ambient
Supported up to 25C ambient
Not Supported

## Notes:

- 1) Compatibility is based on following the guidelines outlined in Nuventix SynJet Design Guide.
- 2) A functional test should always be performed on the complete luminaire in the worst case ambient condition.

# Nuventix SynJet® Coolers and Heatsinks for OSRAM PrevaLED™ Core Light Engines

## Guide:

- Please see the legend below for the ambient temperature rating of each solution.
- All solutions in these tables are in accordance with recommended acoustic noise levels for lighting applications, for noise sensitive applications choose "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see the table below.

OSRAM PrevaLED Core Light Engines				
Heatsink	Downlight Cooler 140, 48W			
SynJet	ZFlow 100			
SynJet Setting	High	Standard	Silent	Heatsink Only
LEP-3000-930-HD-C	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
LEP-3000-840-HD-C	Supported up to 40C ambient	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported
LEP-2100-930-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Not Supported
LEP-2100-840-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Not Supported
LEP-2100-830-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 35C ambient	Not Supported
LEP-2100-840-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 35C ambient	Not Supported
LEP-800-930-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Not Supported
LEP-800-840-HD-C	Supported up to 40C ambient	Supported up to 40C ambient	Supported up to 40C ambient	Not Supported



Legend	
Supported up to 40C ambient	Supported up to 40C ambient
Supported up to 35C ambient	Supported up to 35C ambient
Supported up to 25C ambient	Supported up to 25C ambient
Not Supported	Not Supported

## Notes:

- 1) Compatibility is based on following the guidelines outlined in Nuventix SynJet Design Guide.
- 2) A functional test should always be performed on the complete luminaire in the worst case ambient condition.

## Nuventix Part Number Guide

Downlight Cooler 140, 48W	HSSLS-CALBL-013	Heatsink, 48W, Downlight Cooler 140, No Lower Fins, Osram PrevaLED, Black
Par20 Cooler 24W	HP20S-CALBL-001	Heatsink, 24W, PAR20 Style, Configurable, Black
Par25 Cooler 32W	HP25S-CALBL-001	Heatsink, 32W, PAR25 Style, Configurable, Black
Par30 Cooler 40W	HP30S-CALBL-001	Heatsink, 40W, PAR30 Style, Configurable, Black
Spotlight Cooler 21W	HSSLS-CALCL-009	Heatsink, 21W, Spotlight Cooler, Osram PrevaLED, Matte Silver
Spotlight Cooler 31W	HSLCS-CALCL-004	Heatsink, 31W, Spotlight Cooler, Osram PrevaLED, Silver
Spotlight Cooler 34W	HSLCS-CALBL-002	Heatsink, 34W, Spotlight Cooler, Osram PrevaLED, Black
Spotlight Cooler 38W	HSLCS-CALBL-015	Heatsink, 38W, Spotlight Cooler, Osram PrevaLED, Black
Spotlight Cooler 60W	NX300102	Heatsink, 60W, Spotlight Cooler, Osram PrevaLED, Al, Black
SynJet ZFlow 65	SPARS-CM005-002	SynJet, ZFlow 65, Level Select, 5V
SynJet ZFlow 75	SSLCS-CM005-002	SynJet, ZFlow 75, Level Select, 5V
SynJet ZFlow 90	NX200100	SynJet, ZFlow 90, Level Select, 5V
SynJet ZFlow 100	SSSLS-CM005-008	SynJet, ZFlow 100, Level Select, 5V
Wire Harness	WALLS-C4150-001	SynJet Wire Harness, 4wire, 150mm
	WALLS-C4240-001	SynJet Wire Harness, 4wire, 240mm
	WALLS-C4370-001	SynJet Wire Harness, 4wire, 370mm
	WALLS-C4600-001	SynJet Wire Harness, 4wire, 670mm