

Unlock New Opportunities in LED Lighting



Nuventix SynJet® Thermal Solutions for Bridgelux® LED Arrays



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 Bridgelux LED Arrays

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 Bridgelux® LED Arrays

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.

Bridgelux ES LED Arrays

Heatsink				Spotlight Cooler 21W			
SynJet				ZFlow 65			
SynJet Setting				High	Standard	Silent	Heatsink Only
Array	Lumens	Current (ma)	Max V _f				
BridgeLux ES C0603	600	250	31.7				
BridgeLux ES W0802	800	1050	13.2				
BridgeLux ES N0802	800	1050	13.2				
BridgeLux ES C0802	800	700	13.7				
BridgeLux ES W1202	1200	1200	16.3				
BridgeLux ES W1203	1200	1050	19.8				
BridgeLux ES N1203	1200	1050	19.8				
BridgeLux ES C1202	1200	1050	13.8				
BridgeLux ES C2002	2000	1500	17.5				



Bridgelux ES LED Arrays

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
Array	Lumens	Current (ma)	Max V _f												
BridgeLux ES C0603	600	250	31.7												
BridgeLux ES W0802	800	1050	13.2												
BridgeLux ES N0802	800	1050	13.2												
BridgeLux ES C0802	800	700	13.7												
BridgeLux ES W1202	1200	1200	16.3												
BridgeLux ES W1203	1200	1050	19.8												
BridgeLux ES N1203	1200	1050	19.8												
BridgeLux ES C1202	1200	1050	13.8												
BridgeLux ES C2002	2000	1500	17.5												

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.
- 3) Based on the Test Current and Max Forward Voltage as identified in the Bridgelux Data Sheets.

Nuventix SynJet® Coolers and Heatsinks for Bridgelux® LED Arrays

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.

Bridgelux ES LED Arrays															
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
Array	Lumens	Current (ma)	Max V _f												
BridgeLux ES C0603	600	250	31.7												
BridgeLux ES W0802	800	1050	13.2												
BridgeLux ES N0802	800	1050	13.2												
BridgeLux ES C0802	800	700	13.7												
BridgeLux ES W1202	1200	1200	16.3												
BridgeLux ES W1203	1200	1050	19.8												
BridgeLux ES N1203	1200	1050	19.8												
BridgeLux ES C1202	1200	1050	13.8												
BridgeLux ES C2002	2000	1500	17.5												

Bridgelux RS LED Arrays							
Heatsink				Spotlight Cooler 60W			
SynJet				ZFlow 90			
SynJet Setting				High	Mid	Standard	Heatsink Only
Array	Lumens	Current (ma)	Max V _f				
BridgeLux RS W3000	3000	2100	27.4				
BridgeLux RS C4500	4500	2100	27.4				
BridgeLux RS W3500	3500	2100	27.1				
BridgeLux RS N4000	4000	2100	27.1				
BridgeLux RS C5000	5000	2100	27.1				



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.
- 3) Based on the Test Current and Max Forward Voltage as identified in the Bridgelux Data Sheets.

Nuventix SynJet® Coolers and Heatsinks for Bridgelux® LED Arrays

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.

Bridgelux RS LED Arrays							
Heatsink				Downlight Cooler 140, 48W			
SynJet				ZFlow 100			
SynJet Setting				High	Standard	Silent	Heatsink Only
Array	Lumens	Current (ma)	Max V _f				
BridgeLux RS W3000	3000	2100	27.4				
BridgeLux RS C4500	4500	2100	27.4				
BridgeLux RS W3500	3500	2100	27.1				
BridgeLux RS N4000	4000	2100	27.1				
BridgeLux RS C5000	5000	2100	27.1				



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.
- 3) Based on the Test Current and Max Forward Voltage as identified in the Bridgelux Data Sheets.

Nuventix Part Number Guide		
Downlight Cooler 140, 48W	HSSLS-CALCL-013	Heatsink, 48W, Downlight Cooler 140, No Lower Fins, Bridgelux RS, Silver
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-010	Heatsink, 21W, Spotlight Cooler, BridgeLux ES, Matte Silver
Spotlight Cooler 31W	HSLCS-CALCL-005	Heatsink, 31W, Spotlight Cooler, BridgeLux ES, Silver
Spotlight Cooler 34W	HSLCS-CALBL-008	Heatsink, 34W, Spotlight Cooler, BridgeLux ES, Black
Spotlight Cooler 38W	HSLCS-CALBL-011	Heatsink, 38W, Spotlight Cooler, Configurable, Black
Spotlight Cooler 60W	NX300103	Heatsink, 60W, Spotlight Cooler, BridgeLux RS, Al, Black
SynJet ZFlow 65	SPARS-CM005-002	SynJet, ZFlow 65, Level Select, 5V
	SPARS-CM012-002	SynJet, ZFlow 65, Level Select, 12V
SynJet ZFlow 75	SSLCS-CM005-002	SynJet, ZFlow 75, Level Select, 5V
	SSLCS-CM012-002	SynJet, ZFlow 75, Level Select, 12V
SynJet ZFlow 90	NX200100	SynJet, ZFlow 90, Level Select, 5V
	NX200102	SynJet, ZFlow 90, Level Select, 12V
SynJet ZFlow 100	SSSLS-CM005-008	SynJet, ZFlow 100, Level Select, 5V
	SSSLS-CM012-017	SynJet, ZFlow 100, Level Select, 12V
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