

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 "Heatsink Only" "Standard" or "Silent" cooling solutions.
- For Nuventix part numbers, see page 5 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 Type	Array	Max V _f	Current (mA)												
Bridgelux ES Rectangle	BXRA-XXX0800-X-XX	23.1	500												
Bridgelux ES Rectangle	BXRA-XXX0950-X-XX	23.1	500												
Bridgelux ES Rectangle	BXRA-XXX1100-X-XX	23.1	500												
Bridgelux ES Rectangle	BXRA-XXX1200-X-XX	33	500												
Bridgelux ES Rectangle	BXRA-XXX1350-X-XX	33	500												
Bridgelux ES Rectangle	BXRA-XXX1600-X-XX	33	500												
Bridgelux ES Rectangle	BXRA-XXX2000-X-XX	41.2	700												
Bridgelux ES Rectangle	BXRA-XXX2200-X-XX	41.2	700												
Bridgelux ES Rectangle	BXRA-XXX2600-X-XX	41.2	700												
Bridgelux ES Décor	BXRA-W1800-XXXXX	41.9	700												

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.

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Bridgelux RS LED Arrays													
Heatsink				Spotlight Cooler 70W					Spotlight Cooler 60W				
SynJet				ZFlow 90					ZFlow 90				
SynJet Setting				PWM @ 100%	Mid	Standard	Silent	Heatsink Only	PWM @ 100%	Mid	Standard	Silent	Heatsink Only
Array Type	Array	Max V _f	Current (mA)										
Bridgelux RS	BXRA-XXX4000-X-XX	26.8	2100										
Bridgelux RS	BXRA-XXX4500-X-XX	26.8	2100										
Bridgelux RS	BXRA-XXX5300-X-XX	26.8	2100										
Bridgelux RS	BXRA-XXX7000-X-XX	33.4	2800										
Bridgelux RS	BXRA-XXX7500-X-XX	33.4	2800										
Bridgelux RS	BXRA-XXX9000-X-XX	33.4	2800										
Bridgelux RS Décor	BXRA-W3500-XXXXX	27.1	2100										

Legend
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Supported up to 35C ambient
Supported up to 25C ambient
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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 Type	Array	Max V _f	Current (mA)												
Bridgelux ES Rectangle	BXRA-XXX0800-X-XX	23.1	500												
Bridgelux ES Rectangle	BXRA-XXX0950-X-XX	23.1	500												
Bridgelux ES Rectangle	BXRA-XXX1100-X-XX	23.1	500												
Bridgelux ES Rectangle	BXRA-XXX1200-X-XX	33	500												
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Bridgelux ES Rectangle	BXRA-XXX2200-X-XX	41.2	700												
Bridgelux ES Rectangle	BXRA-XXX2600-X-XX	41.2	700												
Bridgelux ES Décor	BXRA-W1800-XXXXX	41.9	700												

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



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- For Nuventix part numbers, see the table at the bottom of this page.

Bridgelux RS LED Arrays					Downlight Cooler 140, 48W			
SynJet					ZFlow 100			
SynJet Setting					High	Standard	Silent	Heatsink Only
Array Type	Array	Max V _f	Current (mA)					
Bridgelux RS	BXRA-XXX4000-X-XX	26.8	2100	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	
Bridgelux RS	BXRA-XXX4500-X-XX	26.8	2100	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	
Bridgelux RS	BXRA-XXX5300-X-XX	26.8	2100	Supported up to 40C+ ambient	Supported up to 40C+ ambient	Supported up to 35C ambient	Not Supported	
Bridgelux RS	BXRA-XXX7000-X-XX	33.4	2800	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	
Bridgelux RS	BXRA-XXX7500-X-XX	33.4	2800	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	
Bridgelux RS	BXRA-XXX9000-X-XX	33.4	2800	Supported up to 25C ambient	Not Supported	Not Supported	Not Supported	
Bridgelux RS Décor	BXRA-W3500-XXXXX	27.1	2100	Supported up to 35C ambient	Supported up to 25C ambient	Not Supported	Not Supported	



Legend
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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 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 34W	HSLCS-CALBL-023	Heatsink, 34W, Spotlight Cooler, Flush Mount, 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
Spotlight Cooler 70W	NX300122	Heatsink, 70W, Spotlight Cooler, Bridgelux RS, Molex, 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, 600mm