

Luminaire Application Source Guide

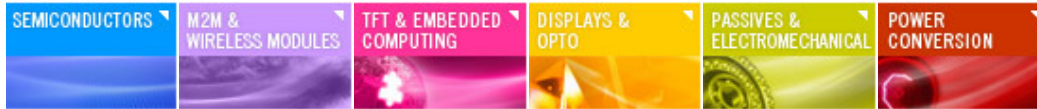
The following tables provide a partial list of Bridgelux LED Arrays for use in a variety of luminaires to replace conventional light sources while enabling comparable lighting system performance. Light losses are assumed to range from 0-60% for luminaires with traditional light sources. A 30% system loss is assumed to account for thermal, optical, and electronic driver losses in LED Array based lighting systems. Options are provided which deliver various luminaire operating efficacy (hot efficacy) performance levels. All options listed assume the use of a single Bridgelux LED Array unless otherwise noted. Additional options exist dependant on system design requirements. Please consult the relevant product data sheets and application notes for design assistance to enable an optimized luminaire design.

Luminaire Type (Indoor)	Luminaire Operating System Efficacy (hot efficacy including thermal, optical and driver losses)			
	> 35 lm/W	> 40 lm/W	> 50 lm/W	> 60 lm/W
Under Cabinet Shelf Mounted Decorative Lighting Step Light White Goods / Appliance	BXRA-W0260	BXRA-W0401 BXRA-W0402	BXRA-W0802	BXRA-W1202
Wall Sconce Pendant Residential Down Light Floor Lamp Table Lamp Desk / Task Lighting Spot / Flood Lamp		BXRA-W0402	BXRA-W0802 BXRA-W1202	BXRA-W3000 BXRA-W0802 (multiple arrays)
Track Light Ceiling Light Accent Light Commercial Down Light		BXRA-W0802 BXRA-W1202	BXRA-W3000 BXRA-W0802 (multiple arrays)	BXRA-W1202 (multiple arrays)

Note: Increased system efficacy levels may be achieved by using multiple LED Arrays driven under lower power operating conditions.

Luminaire Type (Indoor)	Luminaire Operating System Efficacy (hot efficacy including thermal, optical and driver losses)			
	> 50 lm/W	> 60 lm/W	> 70 lm/W	> 80 lm/W
Desk / Task Lighting House Number Light	BXRA-C0360	BXRA-C0402	BXRA-C0802	BXRA-C1202 BXRA-C2002
Utility Light Garage Light		BXRA-C0802 BXRA-C1202	BXRA-C2002 BXRA-C1202 (multiple arrays)	BXRA-C4500 BXRA-C2002 (multiple arrays)

Note: Increased system efficacy levels may be achieved by using multiple LED Arrays driven under lower power operating conditions.



Luminaire Type (Outdoor)	Luminaire Operating System Efficacy (hot efficacy including thermal, optical and driver losses)			
	> 50 lm/W	> 60 lm/W	> 70 lm/W	> 80 lm/W
Outdoor Step Light Pathway Lighting House Number Decorative Lighting Garden Lighting		BXRA-C0360	BXRA-C0402	BXRA-C0802 BXRA-C12002
Bollards Work Lights Residential Post Top Covered Entry Wall Wash Landscape Lighting	BXRA-C0402	BXRA-C0802	BXRA-C0802	BXRA-C1202 BXRA-C2002
Pole Mount Outdoor Security Low Level Parking Garage Pedestrian Walkway		BXRA-C0802	BXRA-C1202	BXRA-C2002 BXRA-C4500
Street Light Parking Lot Lighting Security Lighting Wall Pack Parking Garage		BXRA-C4500	BXRA-C0802 (multiple arrays) BXRA-C1202 (multiple arrays)	BXRA-C2002 (multiple arrays) BXRA-C4500 (multiple arrays)

Note: Increased system efficacy levels may be achieved by using multiple LED Arrays driven under lower power operating conditions.