

ARTERIAL AT2 LED

CATEGORY V LED LUMINAIRE

A high-performance, energy efficient solution for local, collector and major roadways; the Arterial is also suitable for car parks and area lighting applications. High efficiency LED technology and precision-engineered optics provide exceptional illumination while providing the opportunity to maximise spacing while also saving energy. Designed to work seamlessly with NEMA control systems to maximise energy and maintenance savings through enhanced monitoring and control functions, the Arterial is a proven smart city solution.



PERFORMANCE SUMMARY

- Performance is comparable to Performance is comparable to 250-400W HPS roadway luminaires. Saves an average of 40-60% over comparable HPS platforms.
- CCT: 4000K as standard
- CRI >70
- IP66 rated LED light engines provide 0% uplight and restricts backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.
- Available in Type II, III, IV, and V roadway distributions.
- Wildlife shield is cast into the housing (not a separate piece).
- Robust Surge Protection
- NEMA 7 pin receptacle optional.
- Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.
- Complies with AS/NZS 60598, CISPR 15 EMC, AS/NZS 1158.6, ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37



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ARTERIAL AT2 LED (cont.)

SPECIFICATIONS

Electrical Characteristics:

- Input Voltage: 220V-240V – 50Hz/60Hz
- Power Factor: 0.9
- System watts: 138W-274W
- Robust Surge Protection: minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

Optical Characteristics:

- CCT: Available in 4000K as standard, 3000K and 5000K optional
- CRI: > 70
- Optical chamber independently sealed to IP66
- 0% uplight
- Available in Type II, III, IV, and V roadway distributions
- IP66 optical chamber, IP43 gear chamber

Mechanical Characteristics:

- Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance
- Tool-less entry.
- Bubble level located inside the electrical compartment for easily leveling at installation
- Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 1000 hours exposure to salt fog chamber (operated per ASTM B117). Optional Enhanced Corrosion Resistant finish (CR) increases the salt spray exposure over 5000 hours.
- Wildlife shield is cast into the housing (not a separate piece).
- Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter.
- Weight: 9.53kg

Control Characteristics:

- Dimming: DALI or 1-10V Control.
- NEMA 7pin base option available*

Environmental & Standards:

- Ambient Operation Temps: to 40° C
- Ingress protection for weather proofing
- EMC compliant: AS/NZS CISPR15, EN/IEC 61000-3-2, EN/IEC 61000-3-3 Immunity EN61547.
- Complies to Technical Spec SA/SNZ TS 1158.6 –Luminaires Performance

Options

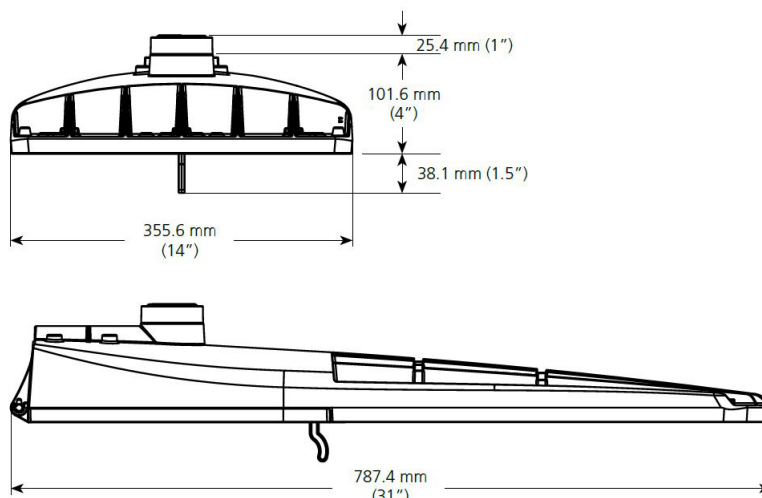
- CCT: 3000K and 5000K available
- Surge protection device to 20kV/10kA protection

SMART CITY SOLUTIONS*

- LOWPAN6, ZIGBEE, LORAWAN, NBIOT technologies
- Devices & sensors for smart city applications
- Customised platform integration

*Please consult your Gerard Lighting representative for the full range of viable control options for your project.

LINE DRAWINGS



Effective Projected Area (EPA) The EPA for the AT2 is 0.78 sq. ft.,
Approx. Wt. = 9.53 kg

N.B. All dimensions in mm

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ARTERIAL AT2 LED (cont.)

PHOTOMETRICS

Please contact your Roadway & Infrastructure Lighting representative for photometric information specific to your project.

ORDER CODES

Product Code	Name	Dimensions (mm) H x W x L	Mass (kg)	Beam Distribution	System Power (W)	Colour Temperature	Electrical Rating	Installation Type	Dimming Technology	PE Cell Base Type
AT24B10R402L138	ENG ARTERIAL2 138W 4K BLANKP R4 SPD	165 x 356 x 788	9.53	TYPE IV	138	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT24B10R302L138	ENG ARTERIAL2 138W 4K BLANKP R3 SPD	165 x 356 x 788	9.53	TYPE III	138	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT24B10R202L138	ENG ARTERIAL2 138W 4K BLANKP R2 SPD	165 x 356 x 788	9.53	TYPE II	138	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT24B10R502L138	ENG ARTERIAL2 138W 4K BLANKP R5 SPD	165 x 356 x 788	9.53	TYPE V	138	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT24B10R201L138	ENG ARTERIAL2 138W 4K PEBN7 R2 SPD	165 x 356 x 788	9.53	TYPE II	138	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT24B10R301L138	ENG ARTERIAL2 138W 4K PEBN7 R3 MP SPD	165 x 356 x 788	9.53	TYPE III	138	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT24B10R501L138	ENG ARTERIAL2 138W 4K PEBN7 R5 SPD	165 x 356 x 788	9.53	TYPE V	138	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B85R402L173	ENG ARTERIAL2 173W 4K BLANKP R4 SPD	165 x 356 x 788	9.53	TYPE IV	173	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B85R302L173	ENG ARTERIAL2 173W 4K BLANKP R3 SPD	165 x 356 x 788	9.53	TYPE III	173	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B85R202L173	ENG ARTERIAL2 173W 4K BLANKP R2 SPD	165 x 356 x 788	9.53	TYPE II	173	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B85R502L173	ENG ARTERIAL2 173W 4K BLANKP R5 SPD	165 x 356 x 788	9.53	TYPE V	173	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B85R201L173	ENG ARTERIAL2 173W 4K PEBN7 R2 SPD	165 x 356 x 788	9.53	TYPE II	173	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B85R301L173	ENG ARTERIAL2 173W 4K PEBN7 R3 SPD	165 x 356 x 788	9.53	TYPE III	173	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B85R401L173	ENG ARTERIAL2 173W 4K PEBN7 R4 SPD	165 x 356 x 788	9.53	TYPE IV	173	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B85R501L173	ENG ARTERIAL2 173W 4K PEBN7 R5 SPD	165 x 356 x 788	9.53	TYPE V	173	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B10R402L208	ENG ARTERIAL2 208W 4K BLANKP R4 SPD	165 x 356 x 788	9.53	TYPE IV	208	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B10R202L208	ENG ARTERIAL2 208W 4K BLANKP R2 SPD	165 x 356 x 788	9.53	TYPE II	208	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B10R302L208	ENG ARTERIAL2 208W 4K BLANKP R3 SPD	165 x 356 x 788	9.53	TYPE III	208	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B10R502L208	ENG ARTERIAL2 208W 4K BLANKP R5 SPD	165 x 356 x 788	9.53	TYPE V	208	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT26B10R201L208	ENG ARTERIAL2 208W 4K PEBN7 R2 SPD	165 x 356 x 788	9.53	TYPE II	208	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B10R301L208	ENG ARTERIAL2 208W 4K PEBN7 R3 SPD	165 x 356 x 788	9.53	TYPE III	208	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B10R401L208	ENG ARTERIAL2 208W 4K PEBN7 R4 SPD	165 x 356 x 788	9.53	TYPE IV	208	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT26B10R501L208	ENG ARTERIAL2 208W 4K PEBN7 R5 SPD	165 x 356 x 788	9.53	TYPE V	208	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B85R502L224	ENG ARTERIAL2 224W 4K BLANKP R5 SPD	165 x 356 x 788	9.53	TYPE V	224	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B85R302L224	ENG ARTERIAL2 224W 4K BLANKP R3 SPD	165 x 356 x 788	9.53	TYPE III	224	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B85R402L224	ENG ARTERIAL2 224W 4K BLANKP R4 SPD	165 x 356 x 788	9.53	TYPE IV	224	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B85R202L224	ENG ARTERIAL2 224W 4K BLANKP R2 SPD	165 x 356 x 788	9.53	TYPE II	224	4000K	Class I	Spigot Entry	1-10Vdc	N/A
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AT28B85R301L224	ENG ARTERIAL2 224W 4K PEBN7 R3 SPD	165 x 356 x 788	9.53	TYPE III	224	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B85R401L224	ENG ARTERIAL2 224W 4K PEBN7 R4 SPD	165 x 356 x 788	9.53	TYPE IV	224	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B85R501L224	ENG ARTERIAL2 224W 4K PEBN7 R5 SPD	165 x 356 x 788	9.53	TYPE V	224	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B10R202L274	ENG ARTERIAL2 274W 4K BLANKP R2 SPD	165 x 356 x 788	9.53	TYPE II	274	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B10R502L274	ENG ARTERIAL2 274W 4K BLANKP R5 SPD	165 x 356 x 788	9.53	TYPE V	274	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B10R402L274	ENG ARTERIAL2 274W 4K BLANKP R4 SPD	165 x 356 x 788	9.53	TYPE IV	274	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B10R302L274	ENG ARTERIAL2 274W 4K BLANKP R3 SPD	165 x 356 x 788	9.53	TYPE III	274	4000K	Class I	Spigot Entry	1-10Vdc	N/A
AT28B10R201L274	ENG ARTERIAL2 274W 4K PEBN7 R2 SPD	165 x 356 x 788	9.53	TYPE II	274	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B10R301L274	ENG ARTERIAL2 274W 4K PEBN7 R3 SPD	165 x 356 x 788	9.53	TYPE III	274	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B10R401L274	ENG ARTERIAL2 274W 4K PEBN7 R4 SPD	165 x 356 x 788	9.53	TYPE IV	274	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin
AT28B10R501L274	ENG ARTERIAL2 274W 4K PEBN7 R5 SPD	165 x 356 x 788	9.53	TYPE V	274	4000K	Class I	Spigot Entry	1-10Vdc	NEMA 7 pin

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