

Project		Catalog #		Type	
Prepared by		Notes		Date	



Streetworks

Archeon Nano

Roadway Luminaire

Product Certifications & Features



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Connected Systems

- WaveLinux PRO Wireless
- Telensa

Product Specifications

Construction

- Heavy-duty die-cast aluminum housing and door
- Tool-less entry, hinged removable door for easy maintenance
- 3G vibration rated
- Optics Choice of four patented, high efficiency AccuLED Optics; Available in Type IIR, III, IV wide and V square wide the optics are precisely designed to shape the distribution maximizing efficiency and application spacing; Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI; Optional 2700K, 3000K, or 5000K CCT
- For the ultimate level of spill light control, an optional house side shield accessory is available and can be field or factory installed; The house side shield is designed to seamlessly integrate with the T2R, T3, and T4W optics

Electrical

- 120-277V, 347V, or 480V 50/50Hz operation
- Standard 0-10V dimming
- 10kV/10kA common- and differential- mode surge protection available

- Thermal management transfers heat away from the LED source for optimal efficiency, light output and lumen maintenance
- Ambient operating temperature from -40°C to 40°C; 50°C HA, high ambient, capability available
- Standard with three-position tunnel type compression terminal block
- Greater than 90% lumen maintenance expected at 60,000 hours
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels; Comes pre-set to the highest position at the lumen output selected

Mounting

- Two-bolt/one-bracket slipfitter with cast-in pipe stop and 2.5° leveling steps
- Fixed-in-place bird guard seals around 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) mounting arms
- Optional 15" pole mount arm available with round pole adapter and mounting hardware included

Finish

- Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear
- Consult your lighting representative at Cooper Lighting Solutions for a complete selection of standard colors

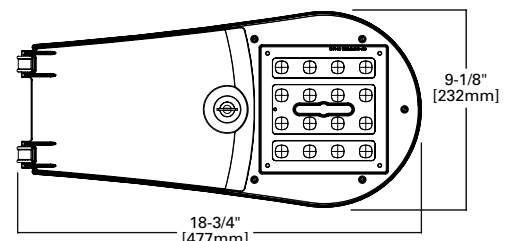
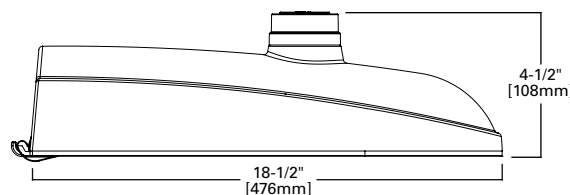
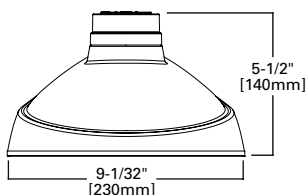
Shipping Data

- Approximate Net Weight: 12 lbs. (5.4 kgs.)
- Effective Projected Area: 0.35 (Sq. Ft.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Dimensional Details



NOTES:

1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. DarkSky approved for 3000K CCT and warmer, with mounting options less than 10° of tilt.

Ordering Information

SAMPLE ORDER NUMBER: **ARCH-N-PA1-20-D-U-T2R-A15-AP**

Product Family ^{1, 2}	Configuration	Wattage Bucket	Color Temperature	Voltage	Distribution	Finish			
ARCH-N =Archeon Nano BAA-ARCH-N =Archeon Nano Buy American Act Compliant ²⁸ TAA-ARCH-N =Archeon Nano Agreements Act Compliant ²⁸	PA1 =Direct Mount Square (16 LED)	10 19 20 30 40 50 60	722 =70CRI, 2200K 727 =70CRI, 2700K 730 =70CRI, 3000K 735 =70CRI, 3500K 740 =70CRI, 4000K 750 =70CRI, 5000K 827 =80CRI, 2700K ⁴	U =Universal (120- 277V) 8 =480V ³ 9 =347V H =High Voltage Driver (347V-480V) ⁹	T2R =Type II Roadway T2U =Type II Urban T3 =Type III T4W =Type IV Wide 5WQ =Type V Square Wide	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White			
Options (Add as Suffix)				Controls					
10K =Series 10kV UL 1449 Surge Protective Device 20K =Series 20kV UL 1449 Surge Protective Device 20KI =Series 20kV UL 1449 Surge Protective Device with light indicator 10MSP =Parallel 10kV MOV Surge Protective Device 20MSP =Parallel 20kV MOV Surge Protective Device K =Level Indicator 4B =Four-bolt, Two-clamp mounting HA =50°C High Ambient Temperature ¹⁶ HSS =House Side Shield ^{16, 16} PSC =Photocontrol Shorting Cap ¹¹ NPC =NEMA Photocontrol ^{11, 12} LLPC =Longlife Photocontrol Included ^{11, 12} CC =Coastal Construction ²⁶ FADC =Field Adjustable Dimming Controller ²⁵ A15 =15" Straight Mast Arm				ASJS15 =Adjustable Slipfitter (Factory set at 15° degrees) ASJS25 =Adjustable Slipfitter (Factory set at 25° degrees) ASJS45 =Adjustable Slipfitter (Factory set at 45° degrees) Dxxxxx =DOT Configuration - Contact Quotes Team Uxxxxx =Utility Configuration - Contact Quotes Team			PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ⁶ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle 5LTD =DALI ^{12, 15} SPB1 =Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ²⁷ SPB2 =Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ²⁷ SPB4 =Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ²⁷ MS/DIM-L08 =Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{12, 13} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9'-20' Mounting Height ^{12, 13} MS/DIM-L40 =Motion Sensor for Dimming Operation, 21'- 40' Mounting Height ^{12, 13} WPS2-XX =WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{21, 22, 23, 24} WPS4-XX =WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{21, 22, 23, 24}		
Accessories (Order Separately) ²⁹									
OA / RA1013 =Photocontrol Shorting Cap OA1223 =10kV Surge Module Replacement OA/RA1014 =NEMA Photocontrol - 120V ¹¹ OA/RA1016 =NEMA Photocontrol - Multi-Tap ¹¹ OA/RA1027 =NEMA Photocontrol - 480V ¹¹ OA/RA1201 =NEMA Photocontrol - 347V ^{11, 19} HS-ARCHN =Field Install ARCHN House Side Shield ¹⁰		FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ¹⁴ A15-XX =Arm (15" Straight Arm) ^{7, 8} ASJS15-XX =Adjustable slipfitter (Factory set at 15 degrees) ⁸ ASJS25-XX =Adjustable slipfitter (Factory set at 25 degrees) ⁸ ASJS45-XX =Adjustable slipfitter (Factory set at 45 degrees) ⁸							
NOTES: 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 4. Use dedicated IES files for 2700K, 3000K, and 5000K when performing layouts. These files are published on the ARCH Archeon luminaire product page on the website. 5. Extended lead times may apply. 6. If "PR" selected, dimming functionality not available, dimming leads will be capped. 7. Round pole adapter and mounting hardware included. "M" drill pattern. 8. Replace XX with color designation. 9. Only available with 50W and 60W skus. 10. Not available with 5WQ. 11. Requires ordering of a twistlock photocontrol (3-PIN or 7-PIN) receptacle (PR or PR7). 12. Not available with "H" High Voltage Driver. 13. The FSIR-100 accessory is required to adjust parameters. 14. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 15. Not available for 10W. 16. Not available for 50 or 60 watts. 17. Only available with "U" universal voltage. 18. Extended lead times may apply. 19. Not compatible with Surge options when used with "H" High Voltage Driver. 20. Utilizes internal step-down transformer when 347V or 480V is selected. 21. Controls system is not available with photocontrol receptacle (PR or PR7), or other controls systems (MS, FADC, SPBx & DALI). 22. Replace XX with sensor color (WH, BZ or BK). 23. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 24. For this device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 25. Cannot be used with PR7, other motion response control options, or 5LTD (DALI). 26. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 27. Smart device with Sensor Configuration mobile application by Wattstopper required to change system defaults. 28. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 29. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.									

Energy and Performance Data

Lumen Maintenance

Light Engine	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
PA1	Up to 50°C	> 95%	416,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

 View Archeon Nano IES files

Energy and Performance Data

Power and Lumens

[Supplemental Performance Guide](#)

Light Engine - PA		10	19	20	30	40	50	60
Power (Watts)		14	19	24	31	41	52	62
Label		10	20	20	30	40	50	60
Input current @ 120V (A)		0.117	0.159	0.201	0.261	0.344	0.438	0.521
Input current @ 277V (A)		0.056	0.074	0.098	0.121	0.155	0.212	0.244
Input current @ 347V (A)		0.045	0.065	0.080	0.100	0.127	0.173	0.200
Input current @ 480V (A)		0.037	0.047	0.058	0.072	0.093	0.126	0.147
Optics								
T2R	4000K/5000K Lumens	2267	3041	3444	4429	5594	6850	7706
	Bug Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2
	3000K Lumens	2065	2770	3137	4034	5095	6238	7018
	Bug Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1
T2U	4000K/5000K Lumens	2,246	3,013	3,413	4,388	5,543	6,787	7,635
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	3000K Lumens	2,046	2,744	3,108	3,997	5,048	6,181	6,953
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	2246	3012	3411	4387	5541	6784	7632
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	3000K Lumens	2045	2743	3107	3995	5046	6179	6951
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
T4W	4000K/5000K Lumens	2245	3012	3411	4386	5540	6783	7631
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	3000K Lumens	2045	2743	3106	3994	5045	6178	6950
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
5WQ	4000K/5000K Lumens	2302	3088	3497	4497	5680	6955	7824
	Bug Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	3000K Lumens	2096	2812	3185	4095	5173	6334	7125
	Bug Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2