

|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# Streetworks

## Archeon Nano

### Roadway Luminaire

#### Typical Applications

Outdoor • Roadways • Parking Lots • Building Areas

#### Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Energy and Performance Data page 3

#### Product Certifications



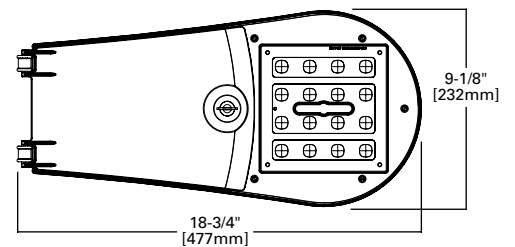
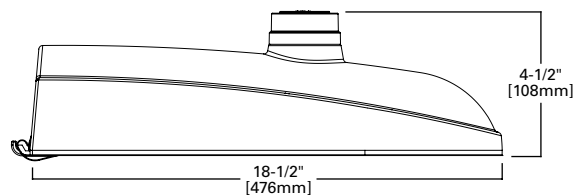
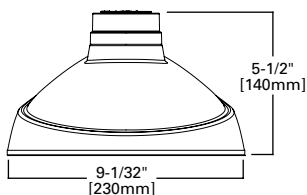
#### Product Features



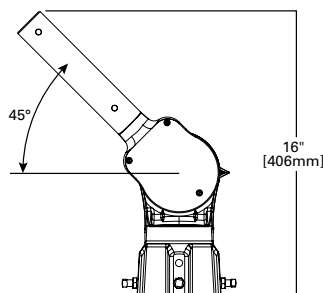
#### Quick Facts

- Up to 164 lumens per watt
- Five optical distributions (Type II, III, IV and V)
- Multiple lumen packages ranging from 2,000 - 7,800 delivered lumens
- 4000K CCT standard, optional 2700K CCT, 3000K CCT, 5000K CCT

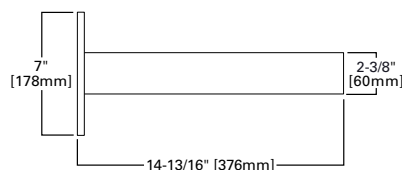
#### Dimensional Details



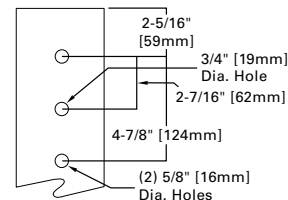
#### Adjustable Slipfitter Offset Arm



#### 15" Straight Arm



#### Type "M" - Drilling Pattern



## Ordering Information

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

| Product Family <sup>1, 2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Configuration                              | Wattage Bucket                                                                          | Color Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Voltage                                                                                                                                | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Finish                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCH-N=Archeon Nano</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PA1=Direct Mount Rectangle (16 LED)</b> | <b>10</b><br><b>19</b><br><b>20</b><br><b>30</b><br><b>40</b><br><b>50</b><br><b>60</b> | <b>740=70CRI, 4000K</b><br><b>727=70CRI, 2700K</b><br><b>827=80CRI, 2700K <sup>4</sup></b><br><b>730=70CRI, 3000K</b><br><b>750=70CRI, 5000K</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>U=Universal (120- 277V)</b><br><b>8=480V <sup>3</sup></b><br><b>9=347V</b><br><b>H=High Voltage Driver (347V-480V) <sup>9</sup></b> | <b>T2R=Type II Roadway</b><br><b>T2U=Type II Urban</b><br><b>T3=Type III</b><br><b>T4W=Type IV Wide</b><br><b>5WQ=Type V Square Wide</b>                                                                                                                                                                                                                                                                                                                                           | <b>AP=Grey</b><br><b>BZ=Bronze</b><br><b>BK=Black</b><br><b>DP=Dark Platinum</b><br><b>GM=Graphite Metallic</b><br><b>WH=White</b> |
| Options (Add as Suffix)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        | Controls                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                    |
| <b>10K=10kV UL 1449 Surge Protective Device</b><br><b>20K=20kV UL 1449 Surge Protective Device<sup>17</sup></b><br><b>10MSP=10kV MOV Surge Protective Device</b><br><b>20MSP=20kV MOV Surge Protective Device</b><br><b>K=Level Indicator</b><br><b>HA=50° C High Ambient Temperature</b><br><b>HSS=House Side Shield<sup>10</sup></b><br><b>PSC=Photocontrol Shorting Cap<sup>11</sup></b><br><b>NPC=NEMA Photocontrol <sup>11, 12</sup></b><br><b>LLPC=Longlife Photocontrol Included <sup>11, 12</sup></b><br><b>IP66=IP66 Rated Housing</b><br><b>ZD=DALI-enabled 4-PIN Twistlock Receptacle<sup>21, 22</sup></b><br><b>ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle<sup>21, 22</sup></b><br><b>SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height<sup>23, 24, 25, 26</sup></b><br><b>SWPD5XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height<sup>23, 24, 25, 26</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                                                                         | <b>FADC=Field Adjustable Dimming Controller <sup>27</sup></b><br><b>A15=15" Straight Mast Arm</b><br><b>ASJS15=Adjustable Slipfitter (Factory set at 15° degrees)</b><br><b>ASJS25=Adjustable Slipfitter (Factory set at 25° degrees)</b><br><b>ASJS45=Adjustable Slipfitter (Factory set at 45° degrees)</b><br><br><b>UXXXXX=10 year warranty, CC coastal finish gray, 20K SPD</b>                                                                                                                                                                                                          |                                                                                                                                        | <b>PR=NEMA 3-PIN Twistlock Photocontrol Receptacle<sup>6</sup></b><br><b>PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle</b><br><b>SLTD=DALJ<sup>12, 15, 18</sup></b><br><b>MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height<sup>12, 13</sup></b><br><b>MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting Height<sup>12, 13</sup></b><br><b>MS/DIM-L40=Motion Sensor for Dimming Operation, 21'- 40' Mounting Height<sup>12, 13</sup></b> |                                                                                                                                    |
| Accessories (Order Separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                    |
| <b>OA / RA1013=Photocontrol Shorting Cap</b><br><b>OA1223=10kV Surge Module Replacement</b><br><b>OA/RA1014=NEMA Photocontrol - 120V <sup>11</sup></b><br><b>OA/RA1016=NEMA Photocontrol - Multi-Tap <sup>11</sup></b><br><b>OA/RA1027=NEMA Photocontrol - 480V <sup>11</sup></b><br><b>OA/RA1201=NEMA Photocontrol - 347V <sup>11, 20</sup></b><br><b>HS-ARCHN=Field Install ARCHN House Side Shield <sup>10</sup></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                                                                         | <b>FSIR-100=Wireless Configuration Tool for Occupancy Sensor<sup>14</sup></b><br><b>A15-XX=Arm (15" Straight Arm) <sup>7, 8</sup></b><br><b>ASJS15-XX=Adjustable slipfitter (Factory set at 15 degrees) <sup>8</sup></b><br><b>ASJS25-XX=Adjustable slipfitter (Factory set at 25 degrees) <sup>8</sup></b><br><b>ASJS45-XX=Adjustable slipfitter (Factory set at 45 degrees) <sup>8</sup></b><br><b>SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height<sup>23, 24, 25, 26</sup></b><br><b>SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height<sup>23, 24, 25, 26</sup></b> |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                    |
| <b>NOTES:</b><br>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.<br>2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.<br>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).<br>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.<br>5. Extended lead times may apply.<br>6. If "PR" selected, dimming functionality not available, dimming leads will be capped.<br>7. Round pole adapter and mounting hardware included. "M" drill pattern.<br>8. Replace XX with color designation.<br>9. Only available with 50W and 60W skus.<br>10. Not available with 5WQ.<br>11. Requires ordering of a twistlock photocontrol (3-PIN or 7-PIN) receptacle (PR or PR7).<br>12. Not available with "H" High Voltage Driver.<br>13. The FSIR-100 accessory is required to adjust parameters.<br>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.<br>15. Not available for 10W or 60W.<br>16. Not available for 50 or 60 watts.<br>17. Only available with "U" universal voltage.<br>18. Not available with any sensor options.<br>19. Extended lead times may apply.<br>20. Not compatible with Surge options when used with "H" High Voltage Driver.<br>21. Utilizes internal step-down transformer when 347V or 480V is selected.<br>22. Controls system is not available with photocontrol (BPC), photocontrol receptacle (PR or PR7), or other controls systems (MS, ZD, ZW, LWR, DALI, or DIM).<br>23. Requires 4-PIN twistlock receptacle (ZD or ZW) option.<br>24. Replace XX with sensor color (WH, BZ or BK).<br>25. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F).<br>26. 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.<br>27. Cannot be used with motion response control options. |                                            |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                    |

## 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
- Optics are IP66 enclosure rated

## Electrical

- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz 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

- Standard five-year warranty
- Optional ten-year warranty, please see your CLS Streetworks sales representative for more information

## Energy and Performance Data

### Power and Lumens

| 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 |

### 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