

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Streetworks

## Archeon Large

### Roadway Luminaire

#### Typical Applications

Outdoor • Roadways • Parking Lots • Building Areas

#### Interactive Menu

- Ordering Information page 2
- Product Specifications page 3
- Energy and Performance Data page 3
- Control Options page 4

#### Product Certifications



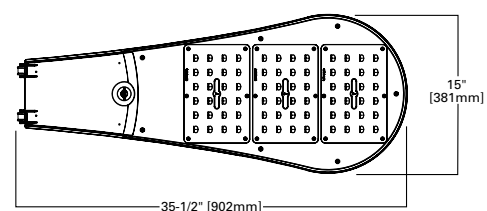
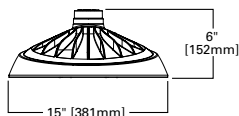
#### Product Features



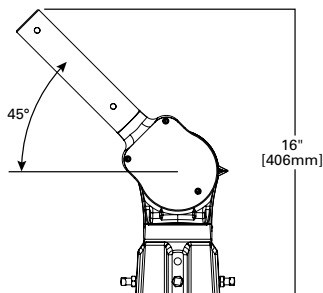
#### Quick Facts

- Die-cast aluminum construction; Single latch tool-less entry
- Replaces up to 1000W equivalent HID; -40°C to 40°C operating range
- Pole-mounted; Optional arm and offset adjustable arm mounting
- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation; IP66 rated

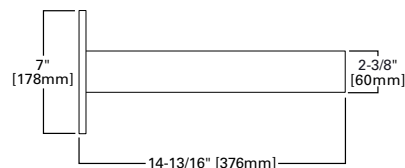
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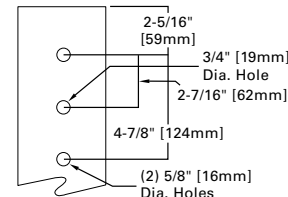
#### Adjustable Slipfitter Offset Arm



#### 15" Straight Arm



#### Type "M" - Drilling Pattern



## Ordering Information

SAMPLE ORDER NUMBER: ARCH-L-PA3-90-740-U-T2R-A15-AP-10K-PR

Product Family <sup>1, 2</sup>	Light Engine	Wattage Bucket	Color Temperature	Voltage	Distribution	Mounting	Finish
<b>ARCH-L=Archeon Large</b>	<b>PA3=(3) Direct Mount Rectangle (72 LED)</b>	90 100 110 120 130 140 150 <b>160</b> 170 180 190 200 210 220 230 240 250 260 270 280	722=70 CRI, 2200K <b>740=70 CRI, 4000K</b> 727=70 CRI, 2700K 827=80 CRI, 2700K 730=70 CRI, 3000K 750=70 CRI, 5000K AMB=Amber, 590nm <sup>22, 23</sup>	<b>U=Universal (120-277V)</b>  8=480V <sup>4</sup> 9=347V <sup>4</sup>	<b>T2R=Type II Roadway</b> <b>T2U=Type II Urban</b> <b>T3=Type III</b> <b>T4W=Type IV Wide</b> <b>5WQ=Type V Square Wide</b>	<b>[Blank]=None</b> <b>A15=15" Straight Mast Arm</b> <b>ASJS15=Adjustable Slipfitter</b> (Factory set at 15° degrees) <b>ASJS25=Adjustable Slipfitter</b> (Factory set at 25° degrees) <b>ASJS45=Adjustable Slipfitter</b> (Factory set at 45° degrees)	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>WH=White</b>
Options (Add as Suffix)				Controls			
<b>10K=Series 10kV UL 1449 Surge Protective Device</b> <b>20K=Series 20kV UL 1449 Surge Protective Device</b> <b>20KI=Series 20kV UL 1449 Surge Protective Device with light indicator</b> <b>10MSP=Parallel 10kV MOV Surge Protective Device</b> <b>20MSP=Parallel 20kV MOV Surge Protective Device</b> <b>K=Level Indicator</b> <b>HA=50°C High Ambient Temperature</b> <sup>10</sup> <b>HSS=Factory Install House Side Shield</b> <sup>11</sup> <b>PSC=Photocontrol Shorting Cap</b> <b>NPC=NEMA Photocontrol - Multi-Tap</b> <b>LLPC=Longlife Photocontrol Included</b> <b>IP66=IP66 Rated Housing</b> <b>FADC=Field Adjustable Dimming Controller</b> <sup>24</sup>				<b>PR=NEMA 3-PIN Twistlock Photocontrol Receptacle</b> <sup>6</sup> <b>PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle</b> <b>MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height</b> <sup>3, 7</sup> <b>MS/DIM-L20=Motion Sensor for Dimming Operation, Maximum 9' - 20' Mounting Height</b> <sup>3, 7</sup> <b>MS/DIM-L40=Motion Sensor for Dimming Operation, Maximum 21' - 40' Mounting Height</b> <sup>3, 7</sup> <b>LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Heights</b> <sup>3, 8, 9</sup> <b>LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Heights</b> <sup>3, 8, 9</sup> <b>5LTD=DALI</b> <sup>3</sup> <b>ZD=DALI-enabled 4-PIN Twistlock Receptacle</b> <sup>16, 17</sup> <b>ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle</b> <sup>16, 17</sup> <b>SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height</b> <sup>19, 20, 21, 22</sup> <b>SWPD5XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height</b> <sup>19, 20, 21, 22</sup>			
Accessories (Order Separately) <sup>17</sup>							
<b>OA / RA1013=Photocontrol Shorting Cap</b> <b>OA/RA1014=NEMA Photocontrol - 120V</b> <b>OA/RA1016=NEMA Photocontrol - Multi-Tap</b> <b>OA/RA1027=NEMA Photocontrol - 480V</b> <b>OA/RA1201=NEMA Photocontrol - 347V</b> <b>OA1223=10kV Surge Module Replacement</b> <b>A15-XX=Arm (15" Straight Arm)</b> <sup>12, 14</sup> <b>FSIR-100=Wireless Configuration Tool for Occupancy Sensor</b> <sup>15</sup> <b>HS-ARCH-24=Factory Install ARCH House Side Shield for AF24</b> <sup>11, 13</sup>				<b>VGS-ARCH=Short Vertical Drop Shield</b> <b>VGL-ARCH=Long Vertical Drop Shield</b> <b>ASJS15-XX=Adjustable slipfitter (Factory set at 15 degrees)</b> <sup>14</sup> <b>ASJS25-XX=Adjustable slipfitter (Factory set at 25 degrees)</b> <sup>14</sup> <b>ASJS45-XX=Adjustable slipfitter (Factory set at 45 degrees)</b> <sup>14</sup> <b>SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height</b> <sup>19, 20, 21, 22</sup> <b>SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height</b> <sup>19, 20, 21, 22</sup>			
<b>NOTES:</b> 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. Nominal wattage values will be labeled on fixture as per ANSI C136.15. For specific fixture wattage, refer to Power and Lumen tables. 3. Only available in universal voltage. 4. 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). 6. If "PR" selected, dimming functionality not available, dimming leads will be capped. 7. The FSIR-100 accessory is required to adjust parameters. 8. Enlighted wireless system is not available with photocontrol receptacle (not required). 9. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for Enlighted application information. 10. HA option not available with the following configurations, 250W+, 210W+ if paired with HSS, or 5LTD 150W+. 11. HSS not available with 5WQ distribution, 5LTD 270W+. 12. Round pole adapter and mounting hardware included. "M" drill pattern. 13. Requires three house side shields. 14. Replace XX with color designation. 15. 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. 16. Utilizes internal step-down transformer when 347V or 480V is selected. 17. Controls system is not available with photocontrol (BPC), photocontrol receptacle (PR or PR7), or other controls systems (MS, ZD, ZW, LWR, DALI, or DIM). 18. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 19. Replace XX with sensor color (WH, BZ or BK). 20. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 21. 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. 22. Not available with HA option. 23. Amber 590nm +/-5nm for wildlife and observatory use. Supplied in PA3 90 wattage bucket only. 24. Cannot be used with motion response control options.							

## LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
<b>L=LumenSafe Technology*</b>	<b>D=Dome Camera, Standard</b> <b>H=Dome Camera, Hi-Res</b> <b>Z=Dome Camera, Remote PTZ</b>	<b>C=Cellular, Customer Installed SIM Card</b> <b>A=Cellular, Factory Installed AT&amp;T SIM Card</b> <b>V=Cellular, Factory Installed Verizon SIM Card</b> <b>S=Cellular, Factory Installed Sprint SIM Card</b>  <b>W=Wi-Fi Networking w/ Omni-Directional Antenna</b> <b>E=Ethernet Networking</b>

\*Consult LumenSafe system pages for additional details and compatibility.

## 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, IIU, 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 2200K, 2700K, 3000K, and 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
- 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
- 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 98% lumen maintenance expected at 60,000 hours
- Replaces 400W to 1000W HID
- 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: 27 lbs. (12.2 kgs.)
- Effective Projected Area: 0.86 (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 (PA3 Light Engine)

Light Engine - PA3*		PA3-90	PA3-100	PA3-110	PA3-120	PA3-130	PA3-140	PA3-150	PA3-160	PA3-170	PA3-180
Power (Watts)		93	102	113	123	133	143	153	162	173	181
Wattage Label		90	100	110	120	130	140	150	160	170	180
Input Current @ 120V (A)		0.78	0.85	0.94	1.03	1.11	1.19	1.28	1.35	1.44	1.51
Input Current @ 277V (A)		0.34	0.39	0.42	0.45	0.49	0.53	0.56	0.59	0.62	0.68
Input Current @ 347V (A)		0.27	0.31	0.34	0.37	0.39	0.42	0.45	0.48	0.51	0.55
Input Current @ 480V (A)		0.24	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.43
Optics											
T2R	4000K/5000K	15,645	16,846	18,414	19,846	21,273	22,632	23,977	25,098	26,301	26,930
	BUG Rating	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	3000K	14,248	15,341	16,769	18,074	19,372	20,611	21,836	22,855	23,952	24,525
	BUG Rating	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T3	4000K/5000K	15,537	16,730	18,287	19,710	21,126	22,476	23,812	24,924	26,119	26,745
	BUG Rating	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	14,149	15,236	16,654	17,950	19,239	20,469	21,686	22,698	23,788	24,356
	BUG Rating	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T4W	4000K/5000K	15,473	16,661	18,212	19,629	21,038	22,383	23,713	24,820	26,011	26,633
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	14,090	15,172	16,584	17,875	19,159	20,384	21,596	22,604	23,688	24,254
	BUG Rating	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
5WQ	4000K/5000K	16,019	17,249	18,854	20,322	21,781	23,174	24,551	25,697	26,930	27,574
	BUG Rating	B4-U0-G3	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	3000K	14,588	15,709	17,169	18,508	19,836	21,103	22,358	23,403	24,525	25,111
	BUG Rating	B4-U0-G2	B4-U0-G3	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
T2U	4000K/5000K	15,490	16,678	18,232	19,651	21,061	22,409	23,740	24,848	26,040	2,663
	3000K	14,106	15,189	16,603	17,894	19,181	20,407	21,620	22,629	23,714	24,281
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

## Energy and Performance Data

### Power and Lumens (PA3 Light Engine)

Light Engine - PA3*		PA3-190	PA3-200	PA3-210	PA3-220	PA3-230	PA3-240	PA3-250	PA3-260	PA3-270	PA3-280
Power (Watts)		189	201	211	222	229	242	251	261	273	279
Wattage Label		190	200	210	220	230	240	250	260	270	280
Input Current @ 120V (A)		1.58	1.68	1.76	1.85	1.91	2.01	2.10	2.18	2.27	2.33
Input Current @ 277V (A)		0.71	0.75	0.78	0.82	0.85	0.89	0.92	0.96	0.99	1.02
Input Current @ 347V (A)		0.58	0.61	0.64	0.67	0.70	0.73	0.76	0.78	0.81	0.84
Input Current @ 480V (A)		0.44	0.46	0.48	0.50	0.52	0.54	0.57	0.58	0.60	0.62
Optics											
T2R	4000K/5000K	27,868	29,218	30,114	31,168	31,950	33,030	33,790	34,591	35,538	36,067
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	25,380	26,608	27,424	28,384	29,097	30,080	30,772	31,501	32,364	32,846
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K	27,678	29,017	29,906	30,954	31,731	32,804	33,557	34,351	35,294	35,818
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	25,205	26,425	27,235	28,189	28,896	29,874	30,560	31,283	32,141	32,620
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4W	4000K/5000K	27,562	28,896	29,781	30,825	31,598	32,667	33,417	34,210	35,148	35,670
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	3000K	25,100	26,316	27,122	28,072	28,777	29,749	30,433	31,154	32,008	32,484
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
5WQ	4000K/5000K	28,535	29,917	30,834	31,913	32,715	33,820	34,598	35,418	36,389	36,929
	BUG Rating	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	3000K	25,986	27,246	28,080	29,063	29,791	30,801	31,507	32,254	33,138	33,630
	BUG Rating	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
T2U	4000K/5000K	27,592	28,929	29,815	30,858	31,633	32,703	33,454	34,247	35,186	35,709
	3000K	25,128	26,344	27,151	28,103	28,808	29,783	30,467	31,188	32,044	32,519
	BUG Rating	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4

### Lumen Maintenance

Light Engine	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
PA3	Up to 40°C	> 98%	> 800,000

### 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

## Control Options

### Photocontrol (PR and PR7)

Photocontrol receptacles (PR and PR7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with ANSI C136.41 7-pin standards can be utilized with the PR7 receptacle.

### Dimming Occupancy Sensor (MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. These occupancy sensors include an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8' - 40'.

### Enlighted Wireless Control and Monitoring (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting. For additional details, refer to the Enlighted product guides.

### LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Streetworks

## Archeon Medium

### Roadway Luminaire

#### Typical Applications

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#### Product Certifications



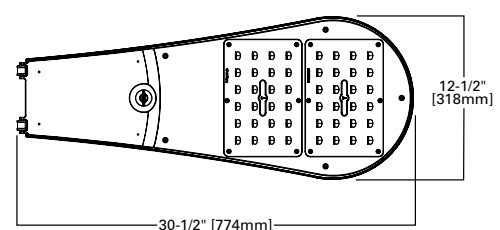
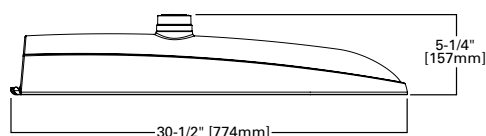
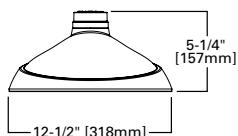
#### Product Features



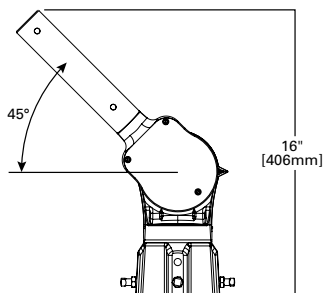
#### Quick Facts

- Die-cast aluminum construction; Single latch tool-less entry
- Replaces up to 400W equivalent HID; -40°C to 40°C operating range
- Pole-mounted; Optional arm and offset adjustable arm mounting
- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation; IP66 rated

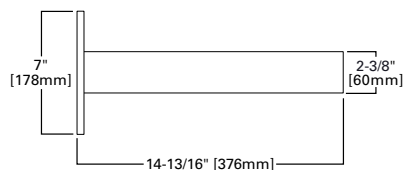
#### Dimensional Details



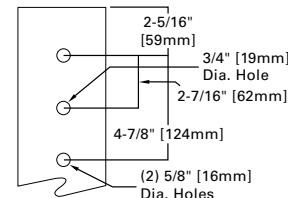
#### Adjustable Slipfitter Offset Arm



#### 15" Straight Arm



#### Type "M" - Drilling Pattern



## Ordering Information

SAMPLE ORDER NUMBER: ARCH-M-PA2-40-740-U-T2R-A15-AP-10K-PR

Product Family <sup>1, 2</sup>	Light Engine	Wattage Bucket	Color Temperature	Voltage	Distribution	Mounting	Finish
<b>ARCH-M=Archeon Medium</b>	<b>PA2=(2) Direct Mount Rectangle (48 LED)</b>	40 50 60 70 80 <b>90</b> <b>100</b> 110 120 130 140 150 160	722=70CRI, 2200K <b>740=70CRI, 4000K</b> 727=70CRI, 2700K 827=80CRI, 2700K <sup>5</sup> 730=70CRI, 3000K 750=70CRI, 5000K AMB=Amber, 590nm <sup>18, 25</sup>	<b>U=Universal (120-277V)</b>  8=480V <sup>4, 5</sup> 9=347V <sup>4</sup>	<b>T2R=Type II Roadway</b> <b>T2U=Type II Urban</b> T3=Type III <b>T4W=Type IV Wide</b> <b>5WQ=Type V Square Wide</b>	[Blank]=None <b>A15=15" Straight Mast Arm <sup>14</sup></b> <b>ASJS15=Adjustable Slipfitter</b> (Factory set at 15° degrees) <b>ASJS25=Adjustable Slipfitter</b> (Factory set at 25° degrees) <b>ASJS45=Adjustable Slipfitter</b> (Factory set at 45° degrees)	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>WH=White</b>
Options (Add as Suffix)				Controls			
<b>10K=Series 10kV UL 1449 Surge Protective Device</b> <b>20K=Series 20kV UL 1449 Surge Protective Device</b> <b>20KI=Series 20kV UL 1449 Surge Protective Device with light indicator</b> <b>10MSP=Parallel 10kV MOV Surge Protective Device</b> <b>20MSP=Parallel 20kV MOV Surge Protective Device</b> <b>K=Level Indicator</b>  HA=50°C High Ambient Temperature HSS=Factory Install House Side Shield <sup>13</sup> PSC=Photocontrol Shorting Cap NPC=NEMA Photocontrol - Multi-Tap LLPC=Longlife Photocontrol Included IP66=IP66 Rated Housing FADC=Field Adjustable Dimming Controller <sup>26</sup>				<b>PR=NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>7</sup></b> <b>PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle</b> <b>MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>4, 9</sup></b> <b>MS/DIM-L20=Motion Sensor for Dimming Operation, Maximum 9' - 20' Mounting Height <sup>4, 9</sup></b> <b>MS/DIM-L40=Motion Sensor for Dimming Operation, Maximum 21' - 40' Mounting Height <sup>4, 9</sup></b> <b>LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Heights <sup>8, 10, 11</sup></b> <b>LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Heights <sup>8, 10, 11</sup></b> <b>5LTD=DALI <sup>3</sup></b> <b>ZD=DALI-enabled 4-PIN Twistlock Receptacle <sup>18, 20</sup></b> <b>ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle <sup>18, 20</sup></b> <b>SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>21, 22, 23, 24</sup></b> <b>SWPD5XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>21, 22, 23, 24</sup></b>			
<b>Accessories (Order Separately) <sup>17</sup></b>							
<b>OA / RA1013=Photocontrol Shorting Cap OA1223=10kV Surge Module Replacement</b> <b>OA/RA1014=NEMA Photocontrol - 120V</b> <b>OA/RA1016=NEMA Photocontrol - Multi-Tap</b> <b>OA/RA1027=NEMA Photocontrol - 480V</b> <b>OA/RA1201=NEMA Photocontrol - 347V</b> <b>OA1223=10kV Surge Module Replacement</b> <b>A15-XX=Arm (15" Straight Arm) <sup>14, 16</sup></b> <b>ASJS15-XX=Adjustable slipfitter (Factory set at 15 degrees) <sup>16</sup></b>				<b>ASJS25-XX=Adjustable slipfitter (Factory set at 25 degrees) <sup>16</sup></b> <b>ASJS45-XX=Adjustable slipfitter (Factory set at 45 degrees) <sup>16</sup></b> <b>FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>17</sup></b> <b>HS-ARCH-24=Field Install ARCH House Side Shield <sup>13, 15</sup></b> <b>SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>21, 22, 23, 24</sup></b> <b>SWPD5XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>21, 22, 23, 24</sup></b> <b>VGS-ARCH=Short Vertical Drop Shield</b> <b>VGL-ARCH=Long Vertical Drop Shield</b>			
<b>NOTES:</b> 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. Nominal wattage values will be labeled on fixture as per ANSI C136.15. For specific fixture wattage, refer to Power and Lumens table. 3. Only available in universal voltage. 4. Not available at 40W or 50W. 5. 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). 6. Extended lead times may apply. 7. If "PR" selected, dimming functionality not available. Dimming leads will be capped. 8. Only available in Universal voltage. 9. The FSIR-100 accessory is required to adjust parameters. 10. Enlighted wireless system is not available with photocontrol receptacle (not required) 11. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for Enlighted application information. 12. HA option not available with the following configurations, 347/480V 150W and 160W if paired with HS-ARCH or 5LTD 140 160W.  13. HSS not available with 5WQ distribution. 14. Round pole adapter and mounting hardware included. "M" drill pattern. 15. Archeon Medium requires two house side shields. 16. Replace XX with color designation. 17. 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. 18. Amber 590nm +/- 5nm for wildlife and observatory use. Supplied in PA2-60 wattage bucket only. 19. Utilizes internal step-down transformer when 347V or 480V is selected. 20. Controls system is not available with photocontrol (BPC), photocontrol receptacle (PR or PR7), or other controls systems (MS, ZD, ZW, LWR, DALI, or DIM). 21. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 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. Not available with HA option. 26. 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, IIU, 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 2200K, 2700K, 3000K, and 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
- 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
- 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 98% lumen maintenance expected at 60,000 hours
- Replaces 150W to 400W HID
- 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: 18 lbs. (8.16 kgs.)
- Effective Projected Area: 0.71 (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 (PA2 Light Engine)

Light Engine - PA2*		PA2-40	PA2-50	PA2-60	PA2-70	PA2-80	PA2-90	PA2-100	PA2-110	PA2-120	PA2-130	PA2-140	PA2-150	PA2-160
Power (Watts)		38	48	63	73	83	92	101	111	122	131	141	151	161
Wattage Label		40	50	60	70	80	90	100	110	120	130	140	150	160
Input Current @ 120V (A)		0.318	0.399	0.527	0.609	0.693	0.768	0.846	0.925	1.020	1.100	1.180	1.260	1.340
Input Current @ 277V (A)		0.145	0.178	0.243	0.275	0.309	0.342	0.374	0.407	0.453	0.486	0.518	0.553	0.586
Input Current @ 347V (A)		--	--	0.188	0.216	0.245	0.271	0.298	0.325	0.371	0.400	0.428	0.458	0.487
Input Current @ 480V (A)		--	--	0.146	0.165	0.185	0.203	0.222	0.240	0.286	0.304	0.323	0.344	0.363
Optics														
T2R	4000K/5000K Lumens	6,489	8,063	10,434	11,891	13,299	14,714	15,925	17,033	18,278	19,311	20,317	21,323	22,189
	Bug Rating	B1-U0- G1	B1-U0- G2	B1-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3
	3000K Lumens	5,911	7,342	9,502	10,829	12,111	13,400	14,501	15,512	16,646	17,586	18,502	19,418	20,206
	Bug Rating	B1-U0- G1	B1-U0- G2	B1-U0- G2	B1-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G3	B2-U0- G3	B2-U0- G3
T3	4000K/5000K Lumens	6,649	8,013	10,367	11,816	13,216	14,621	15,825	16,926	18,164	19,190	20,190	21,189	22,050
	Bug Rating	B1-U0- G2	B1-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3
	3000K Lumens	5,873	7,297	9,441	10,761	12,036	13,317	14,410	15,415	16,542	17,476	18,388	19,297	20,081
	Bug Rating	B1-U0- G2	B1-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G2	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B3-U0- G3	B3-U0- G3
T4W	4000K/5000K Lumens	6,416	7,971	10,313	11,756	13,147	14,547	15,742	16,839	18,070	19,091	20,085	21,080	21,936
	Bug Rating	B1-U0- G2	B1-U0- G2	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G4	B3-U0- G4
	3000K Lumens	5,843	7,259	9,392	10,706	11,973	13,247	14,336	15,334	16,455	17,385	18,292	19,197	19,977
	Bug Rating	B1-U0- G2	B1-U0- G2	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B2-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3
5WQ	4000K/5000K Lumens	6,619	8,223	10,640	12,127	13,563	15,007	16,241	17,372	18,642	19,694	20,721	21,747	22,629
	Bug Rating	B3-U0- G1	B3-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G3	B4-U0- G3	B4-U0- G3	B4-U0- G3	B5-U0- G3	B5-U0- G3	B5-U0- G3
	3000K Lumens	6,029	7,489	9,690	11,043	12,353	13,666	14,789	15,820	16,977	17,935	18,870	19,804	20,609
	Bug Rating	B3-U0- G1	B3-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G3	B4-U0- G3	B4-U0- G3	B4-U0- G3	B4-U0- G3	B5-U0- G3	B5-U0- G3
T2U	4000K/5000K Lumens	6,411	7,965	10,306	11,747	13,138	14,535	15,731	16,826	18,056	19,076	20,070	21,064	21,918
	Bug Rating	5,838	7,253	9,385	10,698	11,963	13,238	14,325	15,323	16,443	17,373	18,277	19,182	19,961
	3000K Lumens	B2-U0- G2	B2-U0- G2	B2-U0- G2	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3	B3-U0- G3
	Bug Rating	B2-U0- G1	B3-U0- G1	B3-U0- G1	B3-U0- G2	B3-U0- G2	B3-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G2	B3-U0- G2	B4-U0- G2	B4-U0- G2	B4-U0- G2

### Lumen Maintenance

Light Engine	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
PA2	Up to 40°C	> 98%	> 800,000

### 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



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



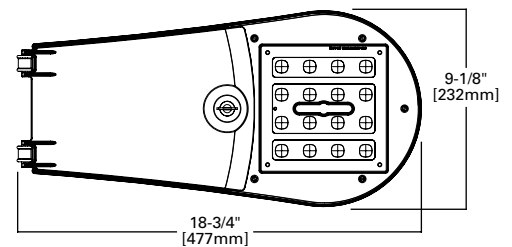
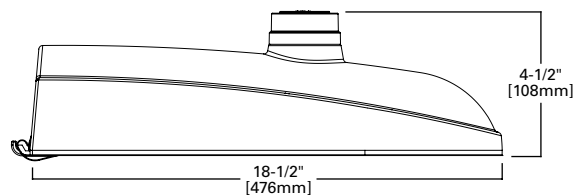
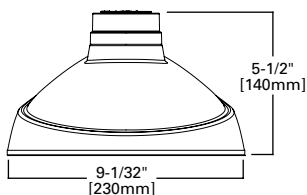
#### Product Features



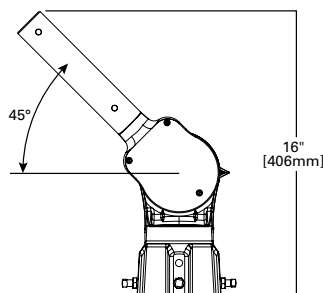
#### Quick Facts

- 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

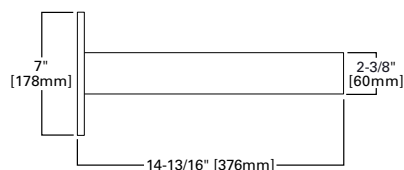
#### Dimensional Details



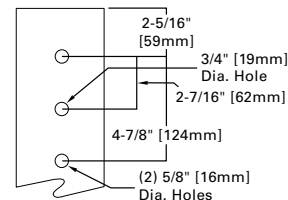
#### Adjustable Slipfitter Offset Arm



#### 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> <b>19</b> <b>20</b> <b>30</b> <b>40</b> <b>50</b> <b>60</b>	<b>740=70CRI, 4000K</b> <b>727=70CRI, 2700K</b> <b>827=80CRI, 2700K <sup>4</sup></b> <b>730=70CRI, 3000K</b> <b>750=70CRI, 5000K</b>	<b>U=Universal (120- 277V)</b> <b>8=480V <sup>3</sup></b> <b>9=347V</b> <b>H=High Voltage Driver (347V-480V) <sup>9</sup></b>	<b>T2R=Type II Roadway</b> <b>T2U=Type II Urban</b> <b>T3=Type III</b> <b>T4W=Type IV Wide</b> <b>5WQ=Type V Square Wide</b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite Metallic</b> <b>WH=White</b>
Options (Add as Suffix)					Controls	
<b>10K=10kV UL 1449 Surge Protective Device</b> <b>20K=20kV UL 1449 Surge Protective Device<sup>17</sup></b> <b>10MSP=10kV MOV Surge Protective Device</b> <b>20MSP=20kV MOV Surge Protective Device</b> <b>K=Level Indicator</b> <b>HA=50° C High Ambient Temperature</b> <b>HSS=House Side Shield<sup>10</sup></b> <b>PSC=Photocontrol Shorting Cap<sup>11</sup></b> <b>NPC=NEMA Photocontrol <sup>11, 12</sup></b> <b>LLPC=Longlife Photocontrol Included <sup>11, 12</sup></b> <b>IP66=IP66 Rated Housing</b> <b>ZD=DALI-enabled 4-PIN Twistlock Receptacle<sup>21, 22</sup></b> <b>ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle<sup>21, 22</sup></b> <b>SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height<sup>23, 24, 25, 26</sup></b> <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> <b>A15=15" Straight Mast Arm</b> <b>ASJS15=Adjustable Slipfitter (Factory set at 15° degrees)</b> <b>ASJS25=Adjustable Slipfitter (Factory set at 25° degrees)</b> <b>ASJS45=Adjustable Slipfitter (Factory set at 45° degrees)</b>  <b>UXXXXX=10 year warranty, CC coastal finish gray, 20K SPD</b>		<b>PR=NEMA 3-PIN Twistlock Photocontrol Receptacle<sup>6</sup></b> <b>PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle</b> <b>SLTD=DALJ<sup>12, 15, 18</sup></b> <b>MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height<sup>12, 13</sup></b> <b>MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting Height<sup>12, 13</sup></b> <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> <b>OA1223=10kV Surge Module Replacement</b> <b>OA/RA1014=NEMA Photocontrol - 120V <sup>11</sup></b> <b>OA/RA1016=NEMA Photocontrol - Multi-Tap <sup>11</sup></b> <b>OA/RA1027=NEMA Photocontrol - 480V <sup>11</sup></b> <b>OA/RA1201=NEMA Photocontrol - 347V <sup>11, 20</sup></b> <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> <b>A15-XX=Arm (15" Straight Arm) <sup>7, 8</sup></b> <b>ASJS15-XX=Adjustable slipfitter (Factory set at 15 degrees) <sup>8</sup></b> <b>ASJS25-XX=Adjustable slipfitter (Factory set at 25 degrees) <sup>8</sup></b> <b>ASJS45-XX=Adjustable slipfitter (Factory set at 45 degrees) <sup>8</sup></b> <b>SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height<sup>23, 24, 25, 26</sup></b> <b>SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height<sup>23, 24, 25, 26</sup></b>			
<b>NOTES:</b> 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 or 60W. 16. Not available for 50 or 60 watts. 17. Only available with "U" universal voltage. 18. Not available with any sensor options. 19. Extended lead times may apply. 20. Not compatible with Surge options when used with "H" High Voltage Driver. 21. Utilizes internal step-down transformer when 347V or 480V is selected. 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). 23. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 24. Replace XX with sensor color (WH, BZ or BK). 25. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 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. 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

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



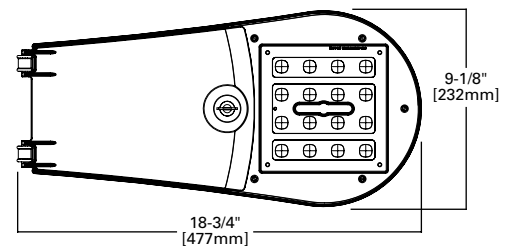
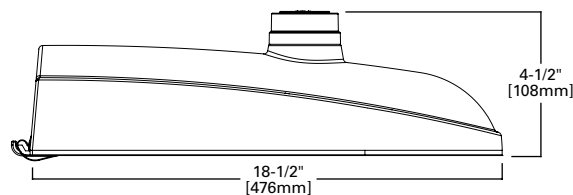
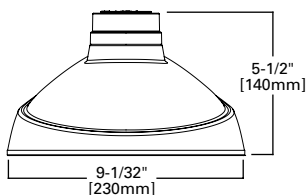
#### Product Features



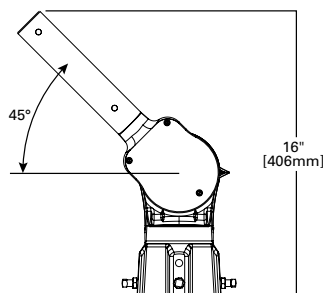
#### Quick Facts

- 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

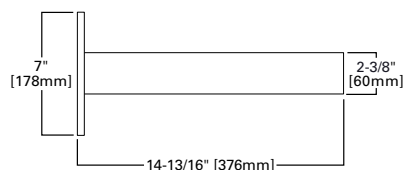
#### Dimensional Details



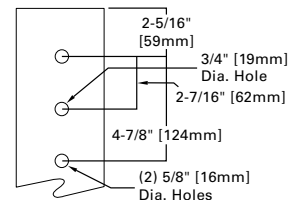
#### Adjustable Slipfitter Offset Arm



#### 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> <b>19</b> <b>20</b> <b>30</b> <b>40</b> <b>50</b> <b>60</b>	<b>740=70CRI, 4000K</b> <b>727=70CRI, 2700K</b> <b>827=80CRI, 2700K <sup>4</sup></b> <b>730=70CRI, 3000K</b> <b>750=70CRI, 5000K</b>	<b>U=Universal (120- 277V)</b> <b>8=480V <sup>3</sup></b> <b>9=347V</b> <b>H=High Voltage Driver (347V-480V) <sup>9</sup></b>	<b>T2R=Type II Roadway</b> <b>T2U=Type II Urban</b> <b>T3=Type III</b> <b>T4W=Type IV Wide</b> <b>5WQ=Type V Square Wide</b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite Metallic</b> <b>WH=White</b>
Options (Add as Suffix)					Controls	
<b>10K=10kV UL 1449 Surge Protective Device</b> <b>20K=20kV UL 1449 Surge Protective Device <sup>17</sup></b> <b>10MSP=10kV MOV Surge Protective Device</b> <b>20MSP=20kV MOV Surge Protective Device</b> <b>K=Level Indicator</b> <b>HA=50°C High Ambient Temperature</b> <b>HSS=House Side Shield <sup>10</sup></b> <b>PSC=Photocontrol Shorting Cap <sup>11</sup></b> <b>NPC=NEMA Photocontrol <sup>11, 12</sup></b> <b>LLPC=Longlife Photocontrol Included <sup>11, 12</sup></b> <b>IP66=IP66 Rated Housing</b> <b>ZD=DALI-enabled 4-PIN Twistlock Receptacle <sup>21, 22</sup></b> <b>ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle <sup>21, 22</sup></b> <b>SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>23, 24, 25, 26</sup></b> <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> <b>A15=15" Straight Mast Arm</b> <b>ASJS15=Adjustable Slipfitter (Factory set at 15° degrees)</b> <b>ASJS25=Adjustable Slipfitter (Factory set at 25° degrees)</b> <b>ASJS45=Adjustable Slipfitter (Factory set at 45° degrees)</b>  <b>UXXXXX=10 year warranty, CC coastal finish gray, 20K SPD</b>		<b>PR=NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>6</sup></b> <b>PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle</b> <b>SLTD=DALI <sup>12, 15, 18</sup></b> <b>MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>12, 13</sup></b> <b>MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting Height <sup>12, 13</sup></b> <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> <b>OA1223=10kV Surge Module Replacement</b> <b>OA/RA1014=NEMA Photocontrol - 120V <sup>11</sup></b> <b>OA/RA1016=NEMA Photocontrol - Multi-Tap <sup>11</sup></b> <b>OA/RA1027=NEMA Photocontrol - 480V <sup>11</sup></b> <b>OA/RA1201=NEMA Photocontrol - 347V <sup>11, 20</sup></b> <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> <b>A15-XX=Arm (15" Straight Arm) <sup>7, 8</sup></b> <b>ASJS15-XX=Adjustable slipfitter (Factory set at 15 degrees) <sup>9</sup></b> <b>ASJS25-XX=Adjustable slipfitter (Factory set at 25 degrees) <sup>9</sup></b> <b>ASJS45-XX=Adjustable slipfitter (Factory set at 45 degrees) <sup>9</sup></b> <b>SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>23, 24, 25, 26</sup></b> <b>SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>23, 24, 25, 26</sup></b>			
<b>NOTES:</b> 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 or 60W. 16. Not available for 50 or 60 watts. 17. Only available with "U" universal voltage. 18. Not available with any sensor options. 19. Extended lead times may apply. 20. Not compatible with Surge options when used with "H" High Voltage Driver. 21. Utilizes internal step-down transformer when 347V or 480V is selected. 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). 23. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 24. Replace XX with sensor color (WH, BZ or BK). 25. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 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. 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
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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

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Streetworks

### LXF / LXT Lexington

#### Decorative Post Top Luminaire

#### Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

#### Interactive Menu

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- Product Specifications [page 2](#)
- Energy and Performance Data [page 3](#)

#### Product Certifications



#### Product Features



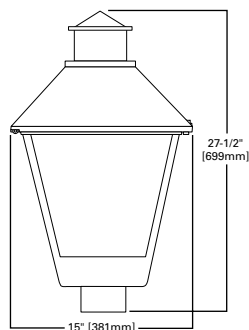
Light ARchitect™

#### Quick Facts

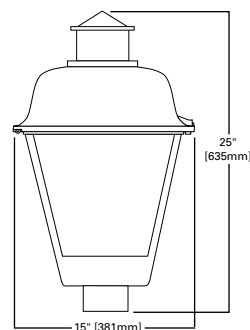
- Replaces up to 400W equivalent HID
- Asymmetric & Symmetric distributions
- 0-10V dimming driver standard
- UL 1449/MOV surge protection available
- 3G vibration rated

#### Dimensional Details

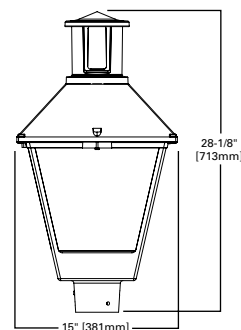
LXF



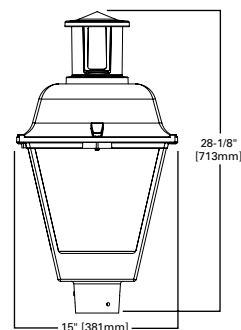
LXT



LXF - Tall Cupola



LXT - Tall Cupola





## Ordering Information

SAMPLE NUMBER: LXF-PA1-20-740-U-T2U-CL-BK-10MSP-PR7

Product Family <sup>1</sup>	Configuration	Wattage Bucket	Color Temperature	Voltage	Distribution	Lens	Finish
<b>LXF</b> =Lexington <b>LXT</b> =Lexington w/ Traditional Top	<b>PA1</b> =Direct Mount Rectangle (24 LED)	<b>20</b> =20W <sup>2</sup> <b>30</b> =30W <b>40</b> =40W <b>50</b> =50W <b>60</b> =60W <b>70</b> =70W <b>80</b> =80W <b>90</b> =90W <b>100</b> =100W	<b>740</b> =70CRI, 4000K <b>727</b> =70CRI, 2700K <sup>5</sup> <b>827</b> =80CRI, 2700K <sup>5</sup> <b>730</b> =70CRI, 3000K <sup>5</sup> <b>750</b> =70CRI, 5000K <sup>5</sup> <b>AMB</b> =Amber 590nm	<b>U</b> =Universal (120-277V) <b>2</b> =120V <sup>2</sup> <b>8</b> =480V <sup>4</sup> <b>9</b> =347V	<b>T2U</b> =Type II Urban <b>T3</b> =Type III <b>T4W</b> =Type IV Wide <b>5WQ</b> =Type V Square Wide <b>SL3</b> =Type III w/ Spill Control	<b>[Blank]</b> =Open (No Lens) <b>A</b> =Refractive Lens Panels <b>CL</b> =Clear Lens Panel <b>FL</b> =Frosted Lens <b>TL</b> =Textured Lens Panel	<b>BK</b> =Black <b>AP</b> =Grey <b>BZ</b> =Bronze <b>WH</b> =White
Options (Add as Suffix)			Controls		Accessories (Order Separately)		
<b>10K</b> =Series 10kV UL 1449 Surge Protective Device <b>20K</b> =Series 20kV UL 1449 Surge Protective Device <b>20KI</b> =Series 20kV UL 1449 Surge Protective Device with light indicator <b>20MSP</b> =Parallel 20kV MOV Surge Protective Device <b>10MSP</b> =10kV MOV Surge Protection Device <b>HA</b> =50°C High Ambient Temperature <sup>8</sup> <b>S</b> =Snap Latches for Tool-less Light Replacement <b>J</b> =Factory Installed Ladder Rest <b>HSS</b> =House Side Shield <sup>7</sup> <b>TC</b> =Tall Cupola <sup>9</sup> <b>PSC</b> =Photocontrol Shorting Cap <b>NPC</b> =NEMA Photocontrol - Multi-Tap <b>LLPC</b> =Longlife Photocontrol Included			<b>5LTD</b> =DALI <sup>3</sup> <b>PR</b> =NEMA Photocontrol Receptacle <sup>6</sup> <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle		<b>TA1BK</b> =Decorative Ladder Rest for Field Installation (Black) <b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1014</b> =NEMA Photocontrol - 120V <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA1223</b> =10kV Surge Module Replacement <b>HS-LX-24</b> =Field Installed House Side Shield <sup>7</sup> <b>VGS-ARCH</b> =Short Vertical Drop Shield <b>VGL-ARCH</b> =Long Vertical Drop Shield		
<b>NOTES:</b> 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. PA1-20 only available in 120V only. 3. Only available in universal voltage. Consult your lighting representative at Cooper Lighting Solutions if custom programming is required. Not available with PA1-90, PA1-100. Consult your lighting representative at Cooper Lighting Solutions if greater than PA1-80 (83W) is needed. 4. 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). 5. Use dedicated IES files when performing layouts. These files are published on the Lexington product page on the website. 6. If "PR" selected, dimming functionality not available, leads will be capped. 7. HSS not available with 5WQ distribution. 8. HA not available with PA1-100 if paired with HSS option. 9. Use tall cupola to accommodate network control solutions requiring the 7-pin receptacle.							

## Product Specifications

## Construction

- Hinged die-cast aluminum top with cupola cover
- Captive retaining screw
- Die-cast aluminum base housing
- Other finish colors available; Consult your Streetworks representative
- 1" ANSI wattage/source label

## Optics

- Choice of five patented, high efficiency AccuLED Optics™ technology manufactured from injection-molded acrylic
- Optics are precisely designed to shape the light output, maximizing efficiency and application spacing; AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements
- Offered standard in various CCTs and minimum 70 CRI
- For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed
- Optics are IP66 enclosure rated
- Offered open sided as a standard with four lens options

## Electrical

- LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life
- Standard drivers feature electronic universal voltage (120-277V, 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments.
- 10 kV/10 kA common and differential mode and 10 kV MOV surge protection available

## Mounting

- Self-aligning pole-top fitter fits 2-3/8" and 3" O.D. tenons
- Square headed 1-1/4" polymer coated mounting bolts

## Finish

- Cast components finished in a Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear
- Optional colors include bronze, grey and white; RAL and custom color matches available

## Shipping Data

- Approximate Net Weight: 25 lbs. (11 kgs.)
- Effective Projected Area: 1.7 (Sq. Ft.)

## Warranty

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



## Energy and Performance Data

## Power and Lumens

Light Engine		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Nominal Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Current (A) @120V		0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Current (A) @277V		--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35
Current (A) @347V		--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Current (A) @480V		--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21
Optics										
T2U	4000K	2,799	3,926	5,084	6,557	7,576	8,497	9,287	10,013	10,139
	Lumens per Watt	133	127	127	121	118	115	112	107	106
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K	2,549	3,576	4,630	5,972	6,899	7,738	8,458	9,119	9,234
	Lumens per Watt	121	115	116	111	108	105	102	97	96
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T2U-A	4000K	2,613	3,666	4,747	6,122	7,073	7,933	8,671	9,349	9,467
	Lumens per Watt	124	118	119	113	111	107	104	99	99
	BUG Rating	B1-U2-G1	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3
	3000K	2,380	3,339	4,323	5,576	6,442	7,225	7,897	8,514	8,622
	Lumens per Watt	113	108	108	103	101	98	95	91	90
	BUG Rating	B1-U2-G1	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B3-U3-G3
T2U-CL	4000K	2,721	3,817	4,943	6,375	7,365	8,260	9,029	9,735	9,858
	Lumens per Watt	130	123	124	118	115	112	109	104	103
	BUG Rating	B1-U2-G1	B1-U2-G1	B2-U3-G2	B2-U3-G2	B2-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3
	3000K	2,478	3,477	4,502	5,806	6,708	7,523	8,223	8,865	8,978
	Lumens per Watt	118	112	113	108	105	102	99	94	94
	BUG Rating	B1-U2-G1	B1-U2-G1	B2-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3
T2U-TL	4000K	2,604	3,653	4,730	6,100	7,048	7,905	8,640	9,315	9,433
	Lumens per Watt	124	118	118	113	110	107	104	99	98
	BUG Rating	B1-U2-G1	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
	3000K	2,371	3,327	4,308	5,556	6,419	7,199	7,869	8,484	8,591
	Lumens per Watt	113	107	108	103	100	97	95	90	89
	BUG Rating	B1-U2-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
T2U-FL	4000K	2,555	3,584	4,640	5,985	6,914	7,755	8,476	9,138	9,254
	Lumens per Watt	122	116	116	111	108	105	102	97	96
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
	3000K	2,326	3,264	4,226	5,450	6,297	7,062	7,719	8,323	8,428
	Lumens per Watt	111	105	106	101	98	95	93	89	88
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
T2U-HSS	4000K	2,037	2,858	3,701	4,773	5,514	6,185	6,760	7,288	7,380
	Lumens per Watt	97	92	93	88	86	84	81	78	77
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	3000K	1,855	2,603	3,371	4,347	5,022	5,632	6,156	6,638	6,721
	Lumens per Watt	88	84	84	81	78	76	74	71	70
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
SL3	4000K	2,772	3,888	5,035	6,494	7,502	8,414	9,197	9,916	10,041
	Lumens per Watt	132	125	126	120	117	114	111	105	105
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	3000K	2,524	3,541	4,586	5,914	6,833	7,663	8,376	9,030	9,145
	Lumens per Watt	120	114	115	110	107	104	101	96	95
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3

## Power and Lumens

Light Engine		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Nominal Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Current (A) @120V		0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Current (A) @277V		--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35
Current (A) @347V		--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Current (A) @480V		--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21
Optics										
SL3-A	4000K	2,570	3,606	4,669	6,022	6,958	7,803	8,529	9,196	9,312
	Lumens per Watt	122	116	117	112	109	105	103	98	97
	BUG Rating	BUG Rating	BUG Rating	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4
	3000K	2,341	3,284	4,253	5,484	6,336	7,106	7,767	8,375	8,480
	Lumens per Watt	111	106	106	102	99	96	94	89	88
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4
SL3-CL	4000K	2,640	3,704	4,796	6,185	7,146	8,014	8,760	9,445	9,564
	Lumens per Watt	126	119	120	115	112	108	106	100	100
	BUG Rating	B1-U2-G2	B1-U3-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
	3000K	2,404	3,373	4,368	5,633	6,508	7,299	7,978	8,601	8,710
	Lumens per Watt	114	109	109	104	102	99	96	91	91
	BUG Rating	B1-U2-G2	B1-U2-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
SL3-TL	4000K	2,563	3,596	4,656	6,005	6,938	7,781	8,505	9,170	9,286
	Lumens per Watt	122	116	116	111	108	105	102	98	97
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4
	3000K	2,334	3,275	4,241	5,469	6,318	7,086	7,746	8,351	8,456
	Lumens per Watt	111	106	106	101	99	96	93	89	88
	BUG Rating	B1-U2-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
SL3-FL	4000K	2,507	3,517	4,554	5,873	6,785	7,610	8,318	8,968	9,081
	Lumens per Watt	119	113	114	109	106	103	100	95	95
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4
	3000K	2,283	3,203	4,147	5,349	6,180	6,931	7,575	8,167	8,271
	Lumens per Watt	109	103	104	99	97	94	91	87	86
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4
SL3-HSS	4000K	2,322	3,257	4,217	5,439	6,284	7,047	7,703	8,305	8,410
	Lumens per Watt	111	105	105	101	98	95	93	88	88
	BUG Rating	B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	3000K	2,114	2,966	3,841	4,953	5,723	6,418	7,015	7,564	7,659
	Lumens per Watt	101	96	96	92	89	87	85	80	80
	BUG Rating	B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
T3	4000K	2,800	3,927	5,086	6,559	7,578	8,498	9,289	10,015	10,142
	Lumens per Watt	133	127	127	121	118	115	112	107	106
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	3000K	2,550	3,577	4,631	5,973	6,901	7,740	8,460	9,121	9,236
	Lumens per Watt	121	115	116	111	108	105	102	97	96
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T3-A	4000K	2,622	3,678	4,763	6,143	7,097	7,960	8,700	9,380	9,498
	Lumens per Watt	125	119	119	114	111	108	105	100	99
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4
	3000K	2,338	3,350	4,338	5,594	6,463	7,249	7,923	8,542	8,650
	Lumens per Watt	114	108	108	104	101	98	95	91	90
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3

## Power and Lumens

Light Engine		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Nominal Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Current (A) @120V		0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Current (A) @277V		--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35
Current (A) @347V		--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Current (A) @480V		--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21
Optics										
T3-CL	4000K	2,719	3,814	4,939	6,370	7,359	8,253	9,021	9,726	9,849
	Lumens per Watt	129	123	123	118	115	112	109	103	103
	BUG Rating	B1-U2-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
	3000K	2,476	3,473	4,498	5,801	6,702	7,516	8,216	8,858	8,970
	Lumens per Watt	118	112	112	107	105	102	99	94	93
	BUG Rating	B1-U2-G1	B1-U3-G2	B1-U3-G2	B1-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
T3-TL	4000K	2,623	3,680	4,765	6,146	7,100	7,963	8,704	9,384	9,503
	Lumens per Watt	125	119	119	114	111	108	105	100	99
	BUG Rating	B1-U2-G2	B1-U3-G2	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4
	3000K	2,389	3,351	4,340	5,597	6,466	7,252	7,927	8,546	8,654
	Lumens per Watt	114	108	109	104	101	98	96	91	90
	BUG Rating	B1-U2-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
T3-FL	4000K	2,563	3,595	4,656	6,004	6,937	7,780	8,504	9,169	9,284
	Lumens per Watt	122	116	116	111	108	105	102	98	97
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4
	3000K	2,334	3,274	4,240	5,468	6,318	7,086	7,745	8,350	8,455
	Lumens per Watt	111	106	106	101	99	96	93	89	88
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4
T3-HSS	4000K	2,121	2,975	3,853	4,969	5,740	6,438	7,037	7,587	7,683
	Lumens per Watt	101	96	96	92	90	87	85	81	80
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	3000K	1,931	2,710	3,509	4,525	5,228	5,863	6,409	6,910	6,997
	Lumens per Watt	92	87	88	84	82	79	77	74	73
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
T4W	4000K	2,779	3,899	5,048	6,511	7,522	8,436	9,221	9,942	10,067
	Lumens per Watt	132	126	126	121	118	114	111	106	105
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	3000K	2,531	3,550	4,598	5,929	6,850	7,683	8,398	9,054	9,168
	Lumens per Watt	121	115	115	110	107	104	101	96	95
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
T4W-A	4000K	2,619	3,674	4,757	6,135	7,088	7,949	8,689	9,368	9,486
	Lumens per Watt	125	119	119	114	111	107	105	100	99
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4
	3000K	2,385	3,346	4,332	5,587	6,455	7,240	7,913	8,532	8,639
	Lumens per Watt	114	108	108	103	101	98	95	91	90
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4
T4W-CL	4000K	2,712	3,804	4,926	6,353	7,340	8,232	8,998	9,701	9,824
	Lumens per Watt	129	123	123	118	115	111	108	103	102
	BUG Rating	B1-U2-G2	B1-U3-G2	B1-U3-G2	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3
	3000K	2,470	3,465	4,486	5,786	6,685	7,497	8,195	8,835	8,947
	Lumens per Watt	118	112	112	107	104	101	99	94	93
	BUG Rating	B1-U2-G1	B1-U3-G2	B1-U3-G2	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G3

## Power and Lumens

Light Engine		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Nominal Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Current (A) @120V		0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Current (A) @277V		--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35
Current (A) @347V		--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Current (A) @480V		--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21
Optics										
T4W-TL	4000K	2,595	3,640	4,714	6,079	7,024	7,877	8,610	9,283	9,400
	Lumens per Watt	124	117	118	113	110	106	104	99	98
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4
	3000K	2,363	3,315	4,293	5,537	6,397	7,174	7,841	8,454	8,561
	Lumens per Watt	113	107	107	103	100	97	94	90	89
	BUG Rating	B1-U2-G2	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4
T4W-FL	4000K	2,540	3,563	4,614	5,950	6,874	7,710	8,427	9,086	9,200
	Lumens per Watt	121	115	115	110	107	104	102	97	96
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B2-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G5	B2-U3-G5
	3000K	2,313	3,245	4,202	5,419	6,261	7,021	7,675	8,274	8,379
	Lumens per Watt	110	105	105	100	98	95	92	88	87
	BUG Rating	B1-U3-G2	B1-U3-G3	B1-U3-G3	B1-U3-G3	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4	B2-U3-G4
T4W-HSS	4000K	2,081	2,919	3,780	4,875	5,633	6,317	6,905	7,445	7,539
	Lumens per Watt	99	94	94	90	88	85	83	79	79
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	3000K	1,895	2,659	3,443	4,440	5,130	5,753	6,288	6,780	6,866
	Lumens per Watt	90	86	86	82	80	78	76	72	72
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
5WQ	4000K	2,936	4,118	5,333	6,878	7,946	8,912	9,741	10,502	10,635
	Lumens per Watt	140	133	133	127	124	120	117	112	111
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	3000K	2,674	3,751	4,857	6,264	7,237	8,116	8,871	9,565	9,685
	Lumens per Watt	127	121	121	116	113	110	107	102	101
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5WQ-A	4000K	2,765	3,879	5,023	6,478	7,485	8,394	9,175	9,892	10,017
	Lumens per Watt	132	125	126	120	117	113	111	105	104
	BUG Rating	B2-U3-G2	B2-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B4-U3-G4	B4-U3-G4
	3000K	2,518	3,533	4,575	5,900	6,816	7,645	8,356	9,009	9,123
	Lumens per Watt	120	114	114	109	106	103	101	96	95
	BUG Rating	B2-U3-G2	B2-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3
5WQ-CL	4000K	2,845	3,991	5,168	6,665	7,701	8,637	9,440	10,178	10,306
	Lumens per Watt	135	129	129	123	120	117	114	108	107
	BUG Rating	B2-U3-G1	B3-U3-G2	B3-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B4-U3-G3	B4-U3-G3	B4-U3-G3
	3000K	2,591	3,635	4,707	6,070	7,013	7,865	8,597	9,269	9,386
	Lumens per Watt	123	117	118	112	110	106	104	99	98
	BUG Rating	B2-U2-G1	B3-U3-G2	B3-U3-G2	B3-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B4-U3-G3	B4-U3-G3
5WQ-TL	4000K	2,753	3,863	5,002	6,451	7,453	8,358	9,136	9,850	9,974
	Lumens per Watt	131	125	125	119	116	113	110	105	104
	BUG Rating	B2-U3-G2	B3-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B4-U3-G3	B4-U3-G3
	3000K	2,508	3,518	4,555	5,875	6,787	7,612	8,320	8,971	9,084
	Lumens per Watt	119	111	114	109	106	103	100	95	95
	BUG Rating	B2-U3-G2	B2-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3

## Power and Lumens

Light Engine		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Nominal Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Current (A) @120V		0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Current (A) @277V		--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35
Current (A) @347V		--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Current (A) @480V		--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21
Optics										
5WQ-FL	4000K	2,703	3,792	4,910	6,333	7,316	8,206	8,969	9,670	9,792
	Lumens per Watt	129	122	123	117	114	111	108	103	102
	BUG Rating	B2-U3-G2	B2-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G4	B3-U4-G4	B3-U4-G4
	3000K	2,462	3,453	4,472	5,767	6,663	7,473	8,168	8,807	8,918
	Lumens per Watt	117	111	112	107	104	101	98	94	93
	BUG Rating	B2-U3-G2	B2-U3-G2	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G3	B3-U3-G4	B3-U3-G4

## Lumen Maintenance

Light Engine	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
PA1	Up to 40°C	> 98%	> 800,000

## Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99
50°C	0.96



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## 1. Applicable Terms and Conditions

(a) These terms and conditions of sale establish the rights, obligations, and remedies of Buyer and Seller that apply to any order issued by Buyer for the purchase of Seller's products and/or services ("Products"). No additional or different terms or conditions, whether contained in Buyer's purchase order form or in any other document or communication pertaining to Buyer's order, will be binding on Seller unless accepted in writing by an authorized representative of Seller. Seller expressly objects to and rejects any additional or different terms and conditions, which shall be ineffective.

(b) If Seller's order acknowledgement, invoice, other document, or electronic transmittal including or attaching these terms and conditions is found to be an acceptance of an offer, acceptance is expressly made conditional upon Buyer's assent solely to these terms and conditions, and acceptance of any part of Products delivered by Seller shall be deemed to constitute such assent by Buyer. If the order acknowledgement, invoice, other document, or electronic transmittal including or attaching these terms and conditions constitutes an offer, Buyer's acceptance of the offer is hereby limited to the terms of the offer.

## 2. Price, Payment Terms, and Title

(a) All prices represent those in effect at the time of quotation and are subject to change without notice. Unless prices are bid or quoted as "firm," Seller reserves the right to increase at prices in effect at the date of shipment, regardless of any prior bid and whether notice was received by Buyer. Prices are stated in United States dollars unless otherwise indicated, are exclusive of shipping, handling, shipping insurance, duties, and sales, use, excise or similar taxes. Export packaging or any other special handling requested by Buyer will be at Buyer's expense. A service charge of \$25 will be assessed for any order less than \$100.

(b) Buyer acknowledges that the pricing of the Products has been set based on the agreed allocation of risks contained in these terms and conditions. If, notwithstanding the provisions of these terms and conditions, a court of competent jurisdiction determines that Buyer's terms and conditions apply to an order, then Seller shall have the right to either (i) modify the prices (including retroactively) according to the additional level of risk and responsibility that Buyer's terms and conditions require Seller to undertake; or (ii) cancel the order any time after such a determination without liability for the termination other than for the Products already delivered on these terms and conditions.

(c) Unless different credit terms have been extended to Buyer in writing by Seller, payment terms are net 30 days after delivery or date of invoice, whichever first occurs, in the currency invoiced. Seller reserves the right to modify or withdraw credit terms at any time without notice. If Buyer fails to fulfill the terms of payment, Seller may defer further shipments to Buyer or, at its option, cancel the unshipped portions of Buyer's orders. Buyer agrees to pay interest on all past due invoices at the lesser of 18% per annum, compounded monthly, or the highest contractual rate allowable under the law.

(d) Until full payment of all obligations of the Buyer for an order, Seller reserves the title (but not the risk of loss) to all Products furnished under that order. If the Buyer defaults in payment or performance or becomes subject to insolvency, receivership or bankruptcy proceedings or makes an assignment for the benefit of creditors, or without the consent of Seller voluntarily or involuntarily sells, transfers, leases or permits any lien or attachment on the Products, Seller may treat all amounts then or thereafter owing by Buyer to be immediately due and payable and Seller at its election may repossess Products for which Buyer has not paid in full. In the event of repossession of Products under this section, Buyer agrees that Seller may enter the premises where the Products may be located and remove them without notice and without being liable to Buyer for such repossession. Buyer will not set off invoiced amounts or any portion thereof against sums that are due or may become due from Seller, its parents, affiliates, or subsidiaries. Buyer grants Seller a security interest in all Products for which title has passed (including all after-acquired Products) that Seller sells Buyer and all proceeds of Products (including but not limited to all products in which Products are incorporated and any funds and products that Buyer receives in exchange for Products). Buyer consents to Seller's execution of any documents to evidence and perfect this security interest, and agrees to execute the same if requested by Seller.

## 3. Delivery and Risk of Loss

(a) Unless otherwise agreed in writing, all deliveries of Products will be EXW (Incoterms 2000) Seller's facility. Products will be packed in Seller's standard commercial shipping packages. Charges for shipping may not reflect net transportation costs paid by Seller. Buyer shall reimburse Seller for all costs of storage and handling incurred by Seller after the date that Seller is prepared to make shipment.

(b) Delivery and shipping dates are approximate and represent Seller's best estimate of the time required to make delivery or shipment. Time is not of the essence with respect to the transactions covered by these terms and conditions, except with respect to Buyer's obligation to make all related payments. Seller's obligations under these terms and conditions will be dependent upon Seller's ability to obtain necessary raw materials and components. Seller shall have the right to make partial deliveries and to ship up to forty (40) days in advance of shipping date.

## 4. Acceptance

Acceptance shall occur, if not before, when Buyer fails to reject within ten (10) days after delivery of the Products. Buyer may rightfully reject only when a reasonable inspection shows that the Products fail to conform substantially to the specifications for the Products. Buyer waives any right to revoke acceptance. Buyer's remedies for any nonconformity detected after acceptance are limited to those expressly provided in these terms and conditions for breach of warranty.

## 5. Limited Warranty

(a) Seller warrants to each original Buyer of Products that Products are, at the time of delivery to the Buyer, in good working order and conform to Seller's official published specifications, provided that no warranty is made with respect to any Products, ballasts, lamps, component parts, or accessories manufactured by others but supplied by Seller.

(b) Seller's obligation under this warranty for any Product proved not to be as warranted within the applicable warranty period is limited to, at its option, replacing the Product, refunding the purchase price of the Product, or using reasonable efforts to repair the Product during normal business hours at any authorized service facility of Seller. All costs of transportation of any Product claimed not to be as warranted and of any repaired or replacement Product to or from such service facility shall be borne by Buyer.

(c) Seller may require the return of any Product claimed not to be as warranted to one of its facilities as designated by Seller, transportation prepaid by Buyer, to establish a claim under this warranty. The cost of labor for removing a Product and for installing a repaired or replacement Product shall be borne by Buyer. Replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period of the Products in which they are installed to the same extent as if such parts were original components. Warranty services provided under these terms and conditions do not assure uninterrupted operations of Products; Seller shall not be liable for damages caused by any delays involving warranty service.

(d) The warranty period for Products is twelve (12) months from the date of shipment unless otherwise agreed by Seller in writing.

(e) EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE, SELLER PROVIDES PRODUCTS AS-IS AND MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, REGARDING THE PRODUCTS, THEIR FITNESS FOR ANY PARTICULAR PURPOSE, THEIR MERCHANTABILITY, THEIR QUALITY, THEIR NONINFRINGEMENT, OR OTHERWISE. IN NO EVENT SHALL SELLER BE LIABLE FOR THE COST OF PROCUREMENT OR INSTALLATION OF SUBSTITUTE GOODS. THIS WARRANTY SPECIFICALLY EXCLUDES POLE FAILURE RESULTING FROM A THIRD-PARTY ACT OR OMISSION, MISUSE, UNANTICIPATED USE, FATIGUE, FAILURE, OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION, OR RESONANCE FROM AIR CURRENT MOVEMENT AROUND THE PRODUCT. THIS WARRANTY SPECIFICALLY EXCLUDES POLES INSTALLED WITHOUT THE LUMINAIRES OR WITH UNAPPROVED DEVICES SUCH AS BANNERS, PENNANTS, CAMERAS, OR SIGNS, FOR WHICH THE POLE WAS NOT DESIGNED. USE OF SUCH ACCESSORIES MAY RESULT IN INJURY, DEATH OR PROPERTY DAMAGE. THIS WARRANTY SPECIFICALLY EXCLUDES POLES USING PRE-EXISTING ANCHORAGES, ANCHOR BOLTS, OR BOLT ADAPTERS NOT SUPPLIED BY COOPER LIGHTING. IT ALSO EXCLUDES ISSUES RELATED TO FOUNDATION OR SOIL CONDITIONS AT THE INSTALLATION SITE.

## 6. LIMITATION OF LIABILITY

IN NO EVENT WILL SELLER BE LIABLE FOR ANY SPECIAL DAMAGES, CONSEQUENTIAL DAMAGES, INDIRECT DAMAGES, INCIDENTAL DAMAGES, STATUTORY DAMAGES, EXEMPLARY OR PUNITIVE DAMAGES, LOSS OF PROFITS, LOSS OF REVENUE, LIQUIDATED DAMAGES, OR LOSS OF USE, EVEN IF INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. SELLER'S LIABILITY FOR DAMAGES ARISING OUT OF OR RELATED TO A PRODUCT SHALL IN NO CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT FROM WHICH THE CLAIM ARISES. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THESE LIMITATIONS AND EXCLUSIONS WILL APPLY WHETHER SELLER'S LIABILITY ARISES OR RESULTS FROM BREACH OF CONTRACT, BREACH OF WARRANTY, TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE, GROSS NEGLIGENCE, MALICE, OR INTENTIONAL CONDUCT), STRICT LIABILITY, BY OPERATION OF LAW, OR OTHERWISE.

## 7. Cancellation and Return of Products

Orders shall not be subject to cancellation or modification either in whole or in part without Seller's written consent and then only with terms that will reimburse Seller for all reasonable termination charges, including all progress billings and all incurred direct manufacturing costs. Seller's written consent must be given in advance of Buyer's return of Products for credit. Seller reserves the right to cancel any sale of Products without liability to Buyer (except for refund of monies already paid), if the manufacture or sale of the goods is or becomes technically or economically impractical.

## 8. Force Majeure

Seller shall not be liable for any failure to perform or delay in performing its obligations resulting directly or indirectly from or contributed to by any acts of God, acts of Buyer or those under Buyer's control, acts of government or other civil or military authorities, priorities, strikes, or other labor disputes, fires, accidents, floods, epidemics, war, riot, embargoes, delays in transportation, lack of or inability to obtain raw materials, components, labor, fuel or supplies, or other circumstances beyond Seller's reasonable control ("Force Majeure Event"). If Seller elects, the time for performance shall be extended by a period of time equal to the time lost because of any delays caused by reasons of a Force Majeure Event. Should Seller be prevented from completing Buyer's order or any part thereof because of any Force Majeure Event, then Buyer agrees promptly upon request and upon receipt of invoice therefor, to pay Seller for any Product or Products then completed.

## 9. Work Product

"Work Product" shall include, without limitation, all designs, discoveries, creations, works, devices, masks, models, work in progress, service deliverables, inventions, products, special tooling, computer programs, procedures, improvements, developments, drawings, notes, documents, business processes, information and materials made, conceived or developed by Seller alone or with others that result from or relate to the Products. All Work Product shall at all times be and remain the sole and exclusive property of Seller. Buyer hereby agrees to irrevocably assign and transfer to Seller and does hereby assign and transfer to Seller all of its worldwide right, title and interest in and to the Work Product including all associated intellectual property rights. Buyer hereby waives any and all moral and other rights in any Work Product or any other intellectual property created, developed or acquired in respect of the Products. Seller will have the sole right to determine the treatment of any Work Product, including the right to keep it as trade secret, execute and file patent applications on it, to use and disclose it without prior patent application, to file registrations for copyright or trademark in its own name or to follow any other procedure that Seller deems appropriate. All tools and equipment supplied by Buyer to Seller shall remain the sole property of Seller.

## 10. Confidentiality

(a) Buyer may acquire knowledge of Seller Confidential Information (as defined below) in connection with Products and/or its performance hereunder and agrees to keep Seller Confidential Information in confidence during and following termination or expiration of this Agreement. "Seller Confidential Information" includes but is not limited to all information, whether written or oral, in any form, including, without limitation, information relating to the research, development, products, methods of manufacture, trade secrets, business plans, customers, vendors, finances, personnel data, Work Product, and other material or information considered proprietary by Seller relating to the current or anticipated business or affairs of Seller that is disclosed directly or indirectly to Buyer. In addition, Seller Confidential Information means any third party's proprietary or confidential information disclosed to Buyer in the course of providing Products to Buyer.

(b) Buyer agrees not to copy, alter or directly or indirectly disclose any Seller Confidential Information. Additionally, Buyer agrees to limit its internal distribution of Seller Confidential Information to Buyer's employees who have a need to know, and to take steps to ensure that the dissemination is so limited. In no event will Buyer use less than the degree of care and means that it uses to protect its own information of like kind, but in any event not less than reasonable care to prevent the unauthorized use of Seller Confidential Information. Buyer may disclose Seller Confidential Information that is required to be disclosed pursuant to a requirement of a government agency or law but only after Buyer provides prompt notice to Seller of such requirement and gives Seller the opportunity to challenge or limit the scope of the disclosure.

(c) Buyer further agrees not to use Seller Confidential Information except in the course of performing hereunder and will not use such Seller Confidential Information for its own benefit or for the benefit of any third party. All Seller Confidential Information is and shall remain the property of Seller. Upon Seller's written request, Buyer shall return, transfer or assign to Seller all Seller Confidential Information, including all Work Product, and all copies containing Seller Confidential Information.

## 11. Patent Indemnity

In the event any Product is made in accordance with drawings, samples or manufacturing specifications designated by Buyer, Buyer agrees to indemnify, defend and hold Seller harmless from any and all damages, costs and expenses (including attorney's fees) relating to any claim arising from or relating to the design, distribution, manufacture, marketing, sale, or use of the Product or arising from or relating to a claim that such Product furnished to Buyer by Seller, or the use thereof, infringes any claim of any patent, foreign or domestic, and Buyer agrees at its own expense to undertake the defense of any suit against Seller brought upon such claim or claims.

## 12. Changes in Product Design or Manufacture

Seller shall have the right to change, discontinue or modify the design and construction of any of its products and to substitute material equal to or superior to that originally specified.

## 13. Software License

Software, if included with a Product, is hereby licensed and not sold. The license is nonexclusive, and is limited to use with the Product with which it is included. No other use is permitted and Seller retains for itself (or, if applicable, its suppliers) all title and ownership to any software delivered hereunder, all of which contains confidential and proprietary information and which ownership includes without limitation all rights in patents, copyrights, trademarks and trade secrets. Buyer shall not attempt any sale, transfer, sublicense, reverse compilation or disassembly (save to the extent expressly permitted by law) or redistribution of the software. Buyer shall not copy, disclose or display any such software, or otherwise make it available to others.

## 14. Compliance with Laws

Buyer shall comply with all laws and regulations applicable to Products, including but not limited to all applicable import and export laws and regulations. Buyer and Buyer's Agent shall provide all information requested by Seller relating to Seller's voluntary or mandatory compliance with any law or regulation, and Buyer shall indemnify Seller for any losses incurred by Seller arising from Buyer's or Buyer's Agent's failure to provide the information requested by Seller.

## 15. Waiver

No waiver of any provision of these terms and conditions (or any right or default hereunder) shall be effective unless in writing and signed by an authorized representative Seller. Any such waiver shall be effective only for the instance given, and shall not operate as a waiver with respect to any other rights or obligations under these terms and conditions or applicable law in connection with any other instances or circumstances.

## 16. Language

The parties have expressly required that these terms and conditions be prepared in the English language. Les parties aux présentes ont expressément exigé que les présents termes et les bons de commandes émis aux termes des présentes soient rédigés en langue Anglaise.

## 17. Choice of Law and Dispute Resolution

Except as set forth below, these terms and conditions shall be governed by and construed in accordance with the laws of the State of Texas, without reference to its choice of law rules. If both Seller and Buyer are incorporated under the laws of Canada or a province of Canada, these terms and conditions shall be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada. If Buyer is incorporated in the United States, any claim or litigation arising out of or relating to Products shall be brought exclusively in a court of competent jurisdiction in Harris County, Texas. If Buyer is incorporated outside of the United States, any dispute will be resolved by arbitration in Houston, Texas, by three arbitrators and under the International Chamber of Commerce Rules of Arbitration. The language of the arbitration will be English. In all cases, Buyer and Seller expressly exclude from application the United Nations Convention on Contracts for the International Sale of Goods.

## 18. Assignment

Buyer may not assign, transfer or subcontract the performance of its services, or any of its rights and/or obligations hereunder, without Seller's prior written consent.

## 19. Severability

If any provision of these terms and conditions is determined to be illegal, invalid, or unenforceable, the validity and enforceability of the remaining provisions of these terms and conditions will not be affected and, in lieu of such illegal, invalid, or unenforceable provision, there will be added, as part of these terms and conditions, one or more provisions as similar in terms as may be legal, valid and enforceable under applicable law. CL 022311