Project		Catalog #		Type	
Prepared by		Notes		Date	

Streetworks

Archeon Small

Roadway Luminaire

Interactive Menu

Product Certifications & Features

Light ARchitect™

Product Specifications

OPTICAL

- 5 patented AccuLED high efficiency roadway and area optical distributions
- 7 color temperature options
  - » 70 CRI: 2200K, 2700K, 3000K, 3500K, 4000K, 5000K
  - » 80 CRI: 2700K
- House side shield for spill light control; available factory-installed or as field-installed accessory.

ELECTRICAL

- 120-277V, 240-480V, 347V, and 480V; 50/60Hz
- Standard 0-10V dimming
- 10kV and 20kV surge protection options with series or parallel configurations
- -40ºC to 40ºC ambient temperature operating range
- Standard 3-position terminal block

PHYSICAL CHARACTERISTICS

- Heavy-duty die-cast aluminum housing and door
- Lineman-friendly features standard for easy maintenance. Includes tool-less entry and 3-position terminal block with easy access for service wires
- PA2 Mounting: Four-bolt/two-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
- Housing finished in 5-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- 5 standard color options. RAL and custom colors also available. (Additional charges and lead time apply)

CONTROLS

- Available with ANSI C136.10 3-pin or C136.41 7-pin control receptacle.
- Optional Field Adjustable Dimming Control (FADC) module allows for manual adjustment of lumen output and power usage; factory preset to highest output level. Enables a single SKU to cover multiple field applications
- Optional 4-pin Zhaga Book 18 receptacle for integration of onboard sensors with DALI- and D4i-enabled drivers
- Fully compatible with CLS Trellix Infrastructure UNB (Ultra Narrow Band) and cellular network lighting controls platforms. Enables wireless collection of luminaire performance and status data and asset management for luminaires installed in the field

COMPLIANCE

- Meets ANSI C136.25 for IP66 optical enclosure rating
- Meets ANSI C136.31 for 3G luminaire vibration. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications
- Meets ANSI C136.15 for luminaire field identification label standard
- Meets ANSI C136.22 internal label standard
- Safety listing - Wet Location UL 1598
- 3,000-hours per ASTM B117, with a scribe rating of 7 per ASTM D1654 for standard color finish
- DarkSky approved for 3000K CCT and warmer, with mounting options less than 10° of tilt.
- DLC and DLC Premium listed – visit designlights.org to confirm listed variations
- BAA domestic preference option meets BAA requirements
- Products that meet BABA Domestic Preference Requirements - This Cooper product is manufactured in the US and meets the BABA cost of components rule. To verify a configured product with specific accessories and options meets BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Our BABA designation is based on the minimum compliance requirement for BABA. Individual Government Agencies may have more stringent compliance standards.
- Products that meet BABA through Exemption - Allows any product to satisfy BABA requirements regardless of domestic content manufacturing for projects funded by FHWA through Oct 1st 2025. See notes portion in Ordering Information section for more detail.
- Products that meet BABA through BAA Exemption - FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. See notes portion in Ordering Information section for more detail.
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

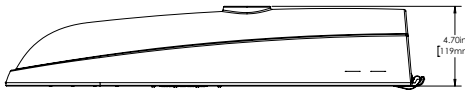
SHIPPING DATA

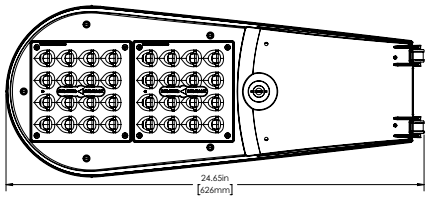
- PA2 Approximate Net Weight: 12.25 lbs. (5.6 kgs.)
- PA2 Effective Projected Area: 0.7 (Sq. Ft.)
- Carton Size: 11 1/8" x 7 5/16" x 24 7/16"
- Pallet Size: 30" X 53"
- Cartons/Pallet: 24

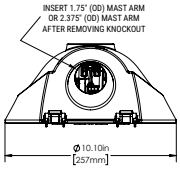
WARRANTY

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

Dimensional Overview







Ordering Information

SAMPLE ORDER NUMBER: **ARCH-S-PA1-100-740-U-T2R-A15-AP-10K-PR**

Product Family [3]	Light Engine	Wattage Bucket	Color Temperature	Voltage	Distribution	Mounting	Finish
ARCH-S=Archeon Small **BAA-ARCH-S=** Archeon Small Buy American Act Compliant [1,5] **TAA-ARCH-S=**Archeon Small Trade Agreements Act Compliant [1,5] **BABAE-ARCH-S=**Build America Buy America Act (FHWA Exception, for projects funded by Oct 1, 2025) [28] **BABAF-ARCH-S=**Build America Buy America Act (FHWA Exception, for projects funded between Oct 1, 2025 and Oct 1, 2026, and FTA Buy America) [28]	**PA1** (Only available up to 100W)	**30** **40** **50** **60** **70** **80** **90** **100**	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **827**=80CRI, 2700K [5] **AMB**=Amber 590nm [16,17]	**U**=Universal (120-277V) **1**=120V [21] **2**=208V [21] **3**=240V [21] **4**=277V [21] **8**=480V [4,21] **9**=347V [21] **DV1**=240V-480V [4,22]	**T2R**=Type II Roadway **T2U**=Type II Urban **T3**=Type III **T4W**=Type IV Wide **5WQ**=Type V Square Wide	**[Blank]**=None **A15**=15" Straight Mast Arm [9] **ASJS15**=Adjustable Slipfitter (Factory set at 15° degrees) **ASJS25**=Adjustable Slipfitter (Factory set at 25° degrees) **ASJS45**=Adjustable Slipfitter (Factory set at 45° degrees)	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **WH**=White
	PA2	**20** **30** **40** **50** **60** **70** **80** **90** **100** **110** **120** **130**					

Options (Add as Suffix)	**Controls**	**Accessories** (Order Separately) [2]
F=Single Pole Fusing, specify voltage (120V, 277V, 347V) **FF**=Double Pole Fusing, specify voltage (208V, 240V, 480V) **10MSP**=Parallel 10kV MOV UL 1449 Surge Protection Device **10K**=Series 10kV UL 1449 Surge Protection Device **20MSP**=Parallel 20kV MOV UL 1449 Surge Protection Device **20K**=Series 20kV UL 1449 Surge Protection Device **20KI**=Series 20kV UL 1449 Surge Protection Device with light indicator **L90**=PA2 Optics Rotated 90° Left [23] **R90**=PA2 Optics Rotated 90° Right [23] **HSS**=Factory Installed House Side Shield [8,26] **GRSBK**=PA2 Glare Reducing Shield Black [23] **GRSWH**=PA2 Glare Reducing Shield Black [23] **HA**=50°C High Ambient Temperature [7] **K**=Level Indicator **CC**=Coastal Construction [19] **LCF**=PA2 Trim Painted to Match Housing [23] **Dxxxxx**=DOT configuration - contact factory quotes team **Uxxxxx**=Utility configuration - contact factory quotes team	**PSC**=Photocontrol Shorting Cap **NPC**=NEMA Photocontrol - Multi-Tap **LLPC**=Longlife Photocontrol Included **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle [6] **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **FADC**=Field Adjustable Dimming Controller [18] **5LTD**=DALI **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface [20] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [20] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [20] **WPS2XX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [12,13,14,15] **WPS4XX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [12,13,14,15] **WLS2XX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [12,13,14] **WLS4XX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [12,13,14]	**OA / RA1013**=Photocontrol Shorting Cap **OA1223**=10kV Surge Module Replacement **OA/RA1014**=NEMA Photocontrol - 120V **OA/RA1016**=NEMA Photocontrol - Multi-Tap **OA/RA1027**=NEMA Photocontrol - 480V **OA/RA1201**=NEMA Photocontrol - 347V **A15-XX**=Arm (15" Straight Arm) [9,10] **ASJS15-XX**=Adjustable slipfitter (Factory set at 15 degrees) [10] **ASJS25-XX**=Adjustable slipfitter (Factory set at 25 degrees) [10] **ASJS45-XX**=Adjustable slipfitter (Factory set at 45 degrees) [10] **HS-ARCH-24**=PA1 Field Installed ARCH House Side Shield [8,26] **VGS-ARCH**=PA1 Short Vertical Drop Shield [27] **VGL-ARCH**=PA1 Long Vertical Drop Shield [27]

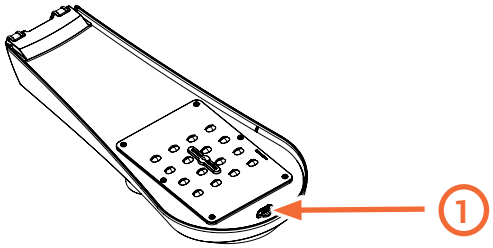
NOTES:

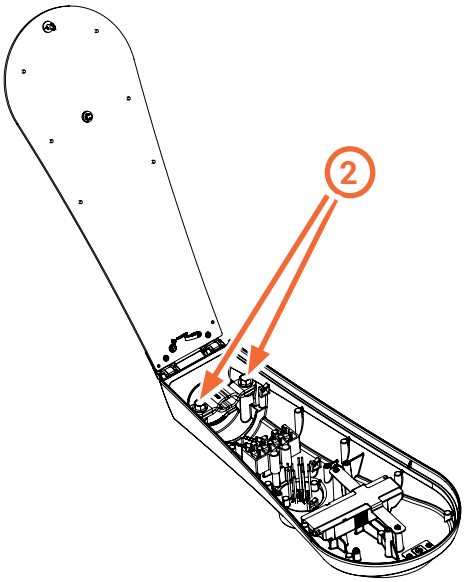
1. Only product configurations with these prefixes are built to be compliant with the Buy America Act of 1933 (BAA) or Buy America Build America Act (BABA). Please see the Compliance section in Product Specifications for more detail
2. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
3. Customer is responsible for engineering analysis to confirm pole and fixture compatiblity for all applications. Refer to our white paper WP513001EN for additional support information.
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. Extended lead times may apply.
6. If "PR" selected, dimming functionality not available, dimming leads will be capped.
7. Option not available with PA1-90, PA1-100, PA2-100+.
8. HS-ARCH not available with 5WQ and T2U distribution.
9. Round pole adapter and mounting hardware included. "M" drill pattern.
10. Replace XX with color designation.
11. Only available with "U" universal voltage. Not available with PA2.
12. Controls system is not available with photocontrol receptacles (PR , PR7) or other controls systems (FADC, SPBx).
13. Replace XX with sensor color (WH, BZ or BK).
14. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F).
15. 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.
16. Not available with HA option.
17. Amber 590nm +/-5nm for wildlife and observatory use. Supplied in PA1-30 and PA2-40 wattage bucket only.
18. Cannot be used with PR7 or other motion response control options.
19. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
20. Smart device with Sensor Configuration mobile application by Wattstopper required to change system defaults.
21. Required for voltage specific options
22. Only available for 80W through 130W.
23. PA2 Only.
24. Utilizes internal step-down transformer when 347V or 480V is selected.
25. Not available with PA1-30, PA1-90, and PA1-100.
26. Not available with PA2-110 through PA2-130.
27. Kit to install one side for one luminaire.
28. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. BABAE designates the product will meet the standards set for FHWA. As noted these projects must receive Government Funding by October 1, 2025. BABAF designates the product will meet the standards set for FHWA and FTA. As noted these projects must receive Government Funding by October 1, 2026. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Installation Overview

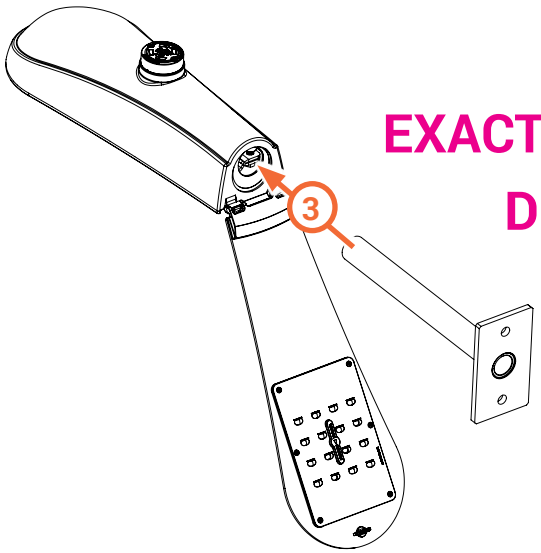
Quick Instruction Steps:

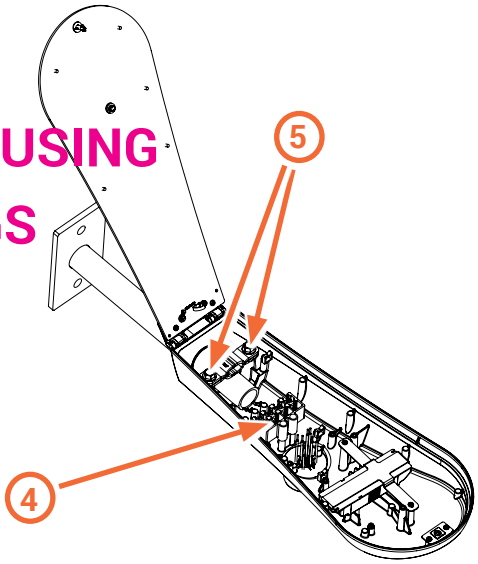
1. Open Door Latch
2. Loosen Bolts for Mast Arm Clamp (Inside Housing)
3. Insert Mast Arm Into Fixture Through Mast Receptacle
4. Wire Appropriately
5. Tighten Bolts on Mast Arm Clamp
6. Close fixture Door and Secure Door Latch

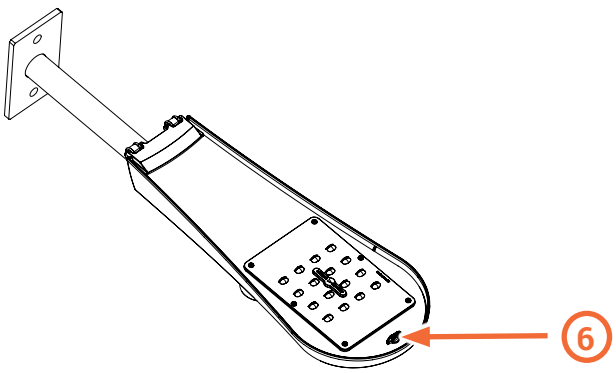




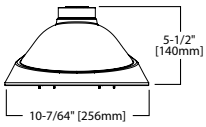
NEED
EXACT PA2 HOUSING
DRAWINGS

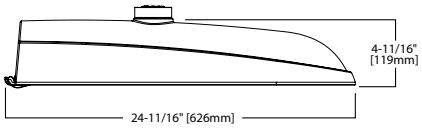


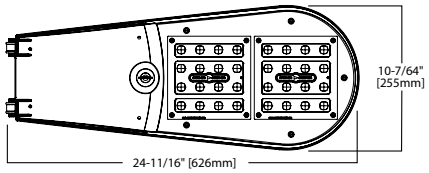




Dimensional Details

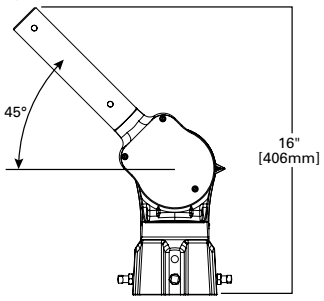




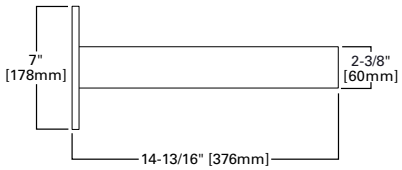


Mounting Details

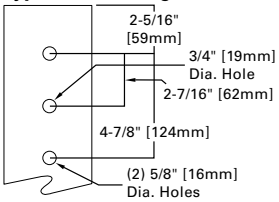
Adjustable Slipfitter Offset Arm



15" Straight Arm



Type "M" - Drilling Pattern



Energy and Performance Data

View Archeon Small IES files | View Archeon Small Solar Enabled Luminaire

Nominal Power Lumens (2200K CCT, 70 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,498	3,496	4,511	5,816	6,677	7,445	8,044	8,622	8,711
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	119	113	113	108	104	101	97	92	91
T2U	Lumens	2,488	3,484	4,495	5,796	6,654	7,418	8,016	8,592	8,681
	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
	Lumens per Watt	118	112	112	107	104	100	97	91	90
T3	Lumens	2,483	3,476	4,486	5,784	6,640	7,403	8,000	8,574	8,663
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	118	112	112	107	104	100	96	91	90
T4W	Lumens	2,468	3,455	4,456	5,748	6,598	7,356	7,949	8,521	8,608
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	118	111	111	106	103	99	96	91	90
5WQ	Lumens	2,538	3,552	4,583	5,910	6,785	7,565	8,175	8,761	8,852
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2
	Lumens per Watt	121	115	115	109	106	102	98	93	92

Nominal Power Lumens (2700K CCT, 70 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,841	3,977	5,131	6,617	7,595	8,470	9,151	9,808	9,909
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	135	128	128	123	119	114	110	104	103
T2U	Lumens	2,832	3,963	5,113	6,593	7,570	8,439	9,118	9,775	9,877
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
	Lumens per Watt	135	128	128	122	118	114	110	104	103
T3	Lumens	2,825	3,955	5,104	6,580	7,554	8,422	9,101	9,755	9,856
	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
	Lumens per Watt	135	128	128	122	118	114	110	104	103
T4W	Lumens	2,808	3,930	5,069	6,539	7,507	8,368	9,043	9,692	9,794
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	134	127	127	121	117	113	109	103	102
5WQ	Lumens	2,887	4,041	5,215	6,724	7,719	8,606	9,300	9,967	10,071
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3	B4-U0-G3
	Lumens per Watt	137	130	130	125	121	116	112	106	105

Nominal Power Lumens (4000K CCT, 70 CRI)

Light Engine - PA1		PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		31	40	54	64	74	83	94	96
Wattage Label		30	40	50	60	70	80	90	100
Optics									
T2R	Lumens	4,756	6,137	7,912	9,083	10,127	10,942	11,729	11,850
	Lumens Per Watt	153	153	146	141	136	131	124	123
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
T2U	Lumens	4,739	6,114	7,884	9,052	10,091	10,905	11,688	11,809
	Lumens Per Watt	152	152	146	141	136	131	124	123
	Bug Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
T3	Lumens	4,729	6,102	7,868	9,033	10,071	10,882	11,664	11,785
	Lumens Per Watt	152	152	145	141	136	131	124	122
	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
T4W	Lumens	4,700	6,062	7,819	8,976	10,006	10,813	11,591	11,710
	Lumens Per Watt	151	151	144	140	135	130	123	121
	Bug Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
5WQ	Lumens	4,832	6,234	8,040	9,230	10,291	11,120	11,918	12,042
	Lumens Per Watt	155	155	148	144	139	133	126	125
	Bug Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2

Nominal Power Lumens (5000K CCT, 70 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	3,398	4,756	6,137	7,912	9,083	10,127	10,942	11,729	11,850
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	162	153	153	147	142	137	132	125	123
T2U	Lumens	3,385	4,739	6,114	7,884	9,052	10,091	10,905	11,688	11,809
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	161	153	153	146	141	136	131	124	123
T3	Lumens	3,378	4,729	6,102	7,868	9,033	10,071	10,882	11,664	11,785
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	161	153	153	146	141	136	131	124	123
T4W	Lumens	3,357	4,700	6,062	7,819	8,976	10,006	10,813	11,591	11,710
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	160	152	152	145	140	135	130	123	122
5WQ	Lumens	3,452	4,832	6,234	8,040	9,230	10,291	11,120	11,918	12,042
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3
	Lumens per Watt	164	156	156	149	144	139	134	127	125

Nominal Power Lumens (2700K CCT, 80 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
		21	31	40	54	64	74	83	94	96
		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,498	3,496	4,511	5,816	6,677	7,445	8,044	8,622	8,711
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	119	113	113	108	104	101	97	92	91
T2U	Lumens	2,488	3,484	4,495	5,796	6,654	7,418	8,016	8,592	8,681
	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
	Lumens per Watt	118	112	112	107	104	100	97	91	90
T3	Lumens	2,483	3,476	4,486	5,784	6,640	7,403	8,000	8,574	8,663
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	118	112	112	107	104	100	96	91	90
T4W	Lumens	2,468	3,455	4,456	5,748	6,598	7,356	7,949	8,521	8,608
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	118	111	111	106	103	99	96	91	90
5WQ	Lumens	2,538	3,552	4,583	5,910	6,785	7,565	8,175	8,761	8,852
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2
	Lumens per Watt	121	115	115	109	106	102	98	93	92

Nominal Power Lumens (3000K CCT, 80 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
		21	31	40	54	64	74	83	94	96
		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,700	3,779	4,877	6,287	7,218	8,047	8,695	9,320	9,417
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	129	122	122	116	113	109	105	99	98
T2U	Lumens	2,690	3,766	4,858	6,265	7,193	8,019	8,666	9,288	9,384
	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
	Lumens per Watt	128	121	121	116	112	108	104	99	98
T3	Lumens	2,684	3,758	4,849	6,252	7,178	8,003	8,647	9,269	9,365
	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-G3	B2-U0-G3
	Lumens per Watt	128	121	121	116	112	108	104	99	98
T4W	Lumens	2,668	3,735	4,817	6,213	7,133	7,951	8,592	9,211	9,305
	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
	Lumens per Watt	127	120	120	115	111	107	104	98	97
5WQ	Lumens	2,743	3,840	4,954	6,389	7,335	8,178	8,836	9,471	9,569
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3	B4-U0-G3
	Lumens per Watt	131	124	124	118	115	111	106	101	100

PA1 Nominal Power Lumens (2200-5000K CCT, 70 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)	21	31	40	54	64	74	83	94	96
Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21

PA1 Nominal Power Lumens (2700-3000K CCT, 80 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)	21	31	40	54	64	74	83	94	96
Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21

PA2 Nominal Power and Lumens (4000K, 70 CRI)

Light Engine - PA2	PA2-20	PA2-30	PA2-40	PA2-50	PA2-60	PA2-70	PA2-80	PA2-90	PA2-100	PA2-110	PA2-120	PA2-130
Power (Watts)	23	33	43	53	63	73	83	93	103	113	123	133
Wattage Label	20	30	40	50	60	70	80	90	100	110	120	130
Input Current @ 120V (A)	0.20	0.28	0.36	0.45	0.53	0.61	0.69	0.77	0.86	0.96	1.02	1.10
Input Current @ 277V (A)	0.09	0.13	0.16	0.20	0.24	0.27	0.31	0.34	0.38	0.42	0.46	0.49
Input Current @ 347V (A)	0.07	0.10	0.13	0.16	0.18	0.21	0.24	0.27	0.30	0.33	0.36	0.39
Input Current @ 480V (A)	0.06	0.08	0.09	0.11	0.13	0.16	0.17	0.19	0.22	0.24	0.26	0.28

Lumen Maintenance

Light Engine	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours*	L70*
PA1	25°C	99.7%	98.2%	97.6%	95.4%	>150,000
	40°C	98.7%	96.4%	95.5%	92.0%	>150,000
	50°C	99.2%	97.3%	96.5%	93.6%	>150,000
PA2	25°C	99.4%	97.8%	97.2%	94.7%	>150,000
	40°C	98.5%	96.0%	95.0%	91.2%	>150,000
	50°C	99.7%	98.5%	97.9%	95.9%	>150,000

Note: * Calculations provided in accordance with IES TM-21-11 using the configuration resulting in highest LED temperature. Previous versions of IES TM-21 where theoretical calculations were used are no longer recommended as a proxy of lumen depreciation.

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	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

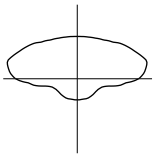
LED Color Multipliers

	CCT					
	2200	2700	3000	3500	4000	5000
CRI	Lumen Multiplier*					
70	0.74	0.84	0.91	0.93	1.00	1.00
80	--	0.75	--	--	--	--

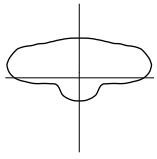
Note: * Estimates, refer to IES files for accuracy.

Optical Distributions

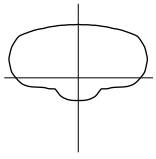
T2R
(Type II Roadway)



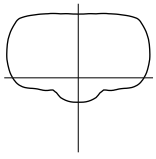
T2U
(Type II)



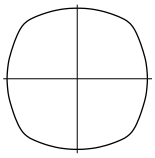
T3
(Type III)



T4W
(Type IV Wide)



5WQ
(Type V Square Wide)



Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com