



American Revolution LED

Series 247L

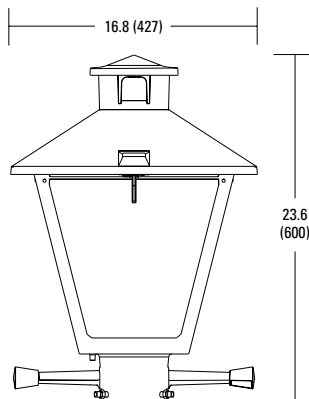
PRODUCT OVERVIEW



Applications:

Roadways Pathways
Streetscapes Parks
Walkways

DIMENSIONS



Effective Projected Area (EPA)

The EPA for the American Revolution Series 247 is 1.6 sq. ft.
Fixture weight = 21lbs.
Shown with SCC cupola option. Reference page 3 for detail on cupola options

STANDARDS

Rated from -40°C up to 40°C ambient
CSA Certified to U.S. and Canadian standards
Complies with all applicable ANSI C136 standards

Government Procurement

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

American Revolution Series 247L LED

Features:

OPTICAL

Producing between 2,300-9,700 lumens, the 247L family replaces up to 250W HID luminaires with optimal performance and visual comfort in a variety of applications.

Silicone optics provide superior optical efficiency, thermal performance, and reduction in dirt accumulation, all of which can lead to long term lumen degradation and a shift in optical distribution.

IP66 proven workhorse LED light engine in 15 different output packages.

Available in color temperature choices of 2700K, 3000K and 4000K, all at a 70 CRI minimum

Silicon optics provide crisp, well defined lighting distributions in four (4) distinct light distribution options; Type II, Type III, Type IV, and Type V

Acrylic or Polycarbonate panel lenses available

Available with single piece lens to allow for easy conversion to between lensed and full cut off styles, while also reducing SKU inventory.

ELECTRICAL

LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Saves an expected of 40-60% over comparable HID luminaires.

Two different surge protection options provide a minimum of ANSI C136.2 10kV/5kA (standard) or 20kV/10kA protection.

Luminaire available with either a 0-10v dimmable driver or DALI D4i driver. Luminaire is continuous and step dimming capable via A0 option or other installed controls.

XVOLT tank driver option for protection against dropped neutrals and other power quality issues.

MECHANICAL

Die-cast aluminum housing, engineered for sturdy lifelong performance complete with die-cast aluminum hood featuring a trigger latch (TL) option and captive thumb screws for fast, easy electrical and optical chamber access.

Standard paint finish is smooth semi-gloss.

Housing is tenon pole-mounted and designed for use with a 3" tall by 2-3/8" to 3" diameter tenon, and secured by three set screws

Luminaire is rated for 3g vibration per ANSI C136.31(excluding TL option).

CONTROLS

The Acuity designed ANSI 7-pin receptacle is available, which supports traditional locking style photocontrols such as the Extreme long-life solid-state locking style photocontrol - PCLL (20 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

The DC Connect option is a factory embedded low voltage dusk to dawn photocontrol that increases longevity vs. line voltage controls and also eliminates the need to separately inventory controls.

The Local Connect option provides a simple means to collect luminaire attribute data, asset location information and execute point-to-point on/off/dim commands via secure Bluetooth link using smartphone platforms.

Cell Connect is an embedded network photocontrol with cellular communication. It provides digital switching, precise dimming, and revenue grade metrology. Cell Connect leverage D4i drivers to communicate real-time data to UbiVu, a cloud-based asset management system.

Additionally, it can be equipped with sensor-ready technology to support Zhaga standard sensors enabling smart city solutions utilizing long range network nodes to enable remote monitoring and control.

Variety of cupola options to accommodate nearly any node on the market in an aesthetic shroud.

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ORDERING INFORMATION

Series		Performance Package						Voltage		
247L	American Revolution LED	Package	Input Watts	Lumens (nominal)	Package	Input Watts	Lumens (nominal)	MVOLT	120-277V	
		P101	20	2,400	P201	70	7,500	HVOLT	347-480V	
		P102	30	3,200	P202	80	8,300	XVOLT	277-480V with enhanced power quality protection	
		P103	40	4,100	P300	41	4,900			
		P104	49	4,900	P301	60	7,100			
		P151	30	3,600	P302	70	7,900			
		P152	40	4,400	P303	80	8,800			
		P153	50	5,300						
		P154	60	6,100						
		P155	70	7,000						
Driver		Color Temperature (CCT)		Distribution		Optics		Paint (smooth semi-gloss)		
ZT	0-10V dimmable driver	27K	2700K	R2	Type II	AY	Acrylic	BK	Black	
D4I	D4I driver	30K	3000K	R3	Type III	PY	Polycarbonate	GY	Gray	
		40K	4000K	R4	Type IV	SAY ¹	Single Piece Acrylic	DDB	Dark Bronze	
				R5	Type V	SPY ¹	Single Piece Polycarbonate	WH	White	
								BZ	Bronze	
Top Receptacle		Cupola		Twist-Lock Photocontrols				Embedded Controls		
NTR	No Top receptacle	SCC	Standard cupola	PCLL	Solid State Long Life Photocontrol, 120-277V (fail off)				ALCB	Local Connect Basic
PR3	3 Pin NEMA receptacle	SNC	Smart node cupola	PCSS	Solid State Photocontrol 120-277V (fail off) (Not CSA Listed)				ALCC	Local Connect Custom
PR7	7 pin NEMA receptacle	XC	No cupola	P34	Solid State Long Life Photocontrol, 347V (fail off)				ALCF	Local Connect Full
ZRT	Zhage receptacle top			P48	Solid State Long Life Photocontrol, 480V (fail off)				DDC	DC Connect Photocontrol
				SH	Shorting cap				UBC	Cell Connect
				DZP	DTL DZP DC Zhaga Photocontrol					
Miscellaneous Options										
XL ²	Not CSA Listed (no terminal block cover)	LDR	Ladder Rest	Full Lens Panel			Accessories (ship separately):			
AO	Field Adjustable Output module	CR	Epoxy Pre-Coat Finish	House-Side Shields			247LFHSW	Field installable white shield (HSW)		
SS	Stainless Steel hardware	20kV	20kV/10kA surge protection device	HSB	AY/PY House Side Black		247LFHSB	Field installable black shield (HSB)		
TL	Tool-less trigger latch entry	CNV	Field convertible to full cutoff	HSW	AY/PY House Side White		247LFAY	Field installable acrylic (AY) optic		
NL1X1	1" x 1" NEMA label	BAA	Buy America(n) Act and/or Build America Buy America Qualified	HSSXY	SAY/SPY House Side Black		247LFPY	Field installable polycarbonate (PY) optic		
NL2X2	2" x 2" NEMA label	HSS	Factory Installed Louvered HSS	Prewired leads			247LFSXYB	Field installable CNV Option SAY/SPY black shield		
				L1H	1.5 ft. prewire leads		Note:			
				L03	3 ft. prewire leads		1. CNV must be selected with SAY or SPY			
				L10	10 ft. prewire leads		2. CNV not available with XL			
				L20	20 ft. prewire leads		Check the OPTIONS MATRIX on page 3 for compatibility and restrictions.			
				L25	25 ft. prewire leads					
				L30	30 ft. prewire leads					



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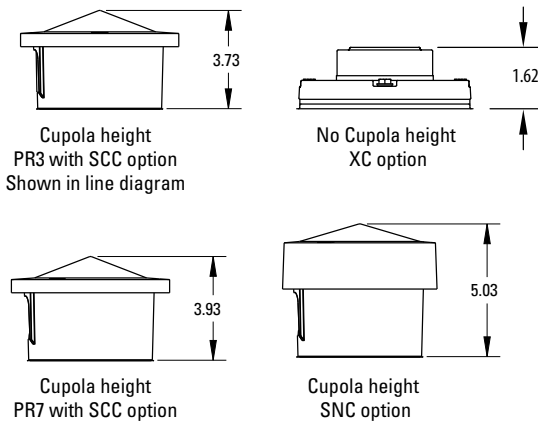
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OPTIONS MATRIX

247L		Voltage			Driver		Top Receptacle				Cupola			Twist-Lock Photocontrols							Embedded Controls					Other
		MVOLT	HVOLT	XVOLT	ZT	D4I	NTR	PR3	PR7	ZRT	SCC	SNC	XC	PCLL	PCSS	P34	P48	SH	DZP	ALCB	ALCC	ALCF	DDC	UBC	AO	
Voltage	MVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	
	HVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	XVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Driver	ZT	Y	Y	Y			Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	Y	
	D4I	Y	Y	Y			Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N		
Top Receptacle	NTR	Y	Y	Y	Y	Y					Y	N	Y	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	
	PR3	Y	Y	Y	Y	N					Y	N	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	Y	
	PR7	Y	Y	Y	Y	Y					Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	Y	
	ZRT	Y	Y	Y	N	Y					Y	Y	Y	N	N	N	N	N	Y	N	N	N	N	N	N	
Cupola	SCC	Y	Y	Y	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	
	SNC	Y	Y	Y	Y	Y	N	N	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y		
	XC	Y	Y	Y	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Twist-Lock Photocontrols	PCLL	Y	N	Y	Y	Y	N	Y	Y	N	Y	Y	Y								N	N	N	N	N	Y
	PCSS	Y	N	Y	Y	Y	N	Y	Y	N	Y	Y	Y								N	N	N	N	N	Y
	P34	N	Y	Y	Y	Y	N	Y	Y	N	Y	Y	Y								N	N	N	N	N	Y
	P48	N	Y	Y	Y	Y	N	Y	Y	N	Y	Y	Y								N	N	N	N	N	Y
	SH	Y	Y	Y	Y	Y	N	Y	Y	N	Y	Y	Y								N	N	N	N	N	Y
	DZP	Y	Y	Y	N	Y	N	N	N	Y	Y	Y	Y								N	N	N	N	N	N
Embedded Controls	ALCB	Y	Y	Y	N	Y	Y	N	N	N	Y	Y	Y	N	N	N	N	N	N						N	
	ALCC	Y	Y	Y	N	Y	Y	N	N	N	Y	Y	Y	N	N	N	N	N	N						N	
	ALCF	Y	Y	Y	N	Y	Y	N	N	N	Y	Y	Y	N	N	N	N	N	N						N	
	DDC	Y	Y	Y	N	Y	Y	N	N	N	Y	Y	Y	N	N	N	N	N	N						N	
	UBC	Y	Y	Y	N	Y	Y	N	N	N	N	N	Y	N	N	N	N	N	N						N	
Other	AO	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N			

Cupola Control Node Compatibility				
Cupola Option	Control Dimensions		Acuity Brands Control	
	Max. Height	Max. Diameter	nLight rTLN	DTL DIN
XC	Any	Any	Yes	Yes
SCC	2.34" (59 mm)	4.0" (102mm)	No	No
SNC	3.43" (87 mm)	4.0" (102mm)	No	Yes

Cupolas may affect 3rd party control performance.
Always test 3rd party controls for fit and functionality.



*See Cupola Control Node Compatibility chart to ensure compatibility with smart controls

All dimensions are inches (millimeters) unless otherwise noted.

247L		Distribution				Driver/Voltage					
						MVOLT		HVOLT		XVOLT	
		R2	R3	R4	R5	ZT	D4I	ZT	D4I	ZT	D4I
Lumen Package	P101	Y	Y	Y	Y	Y	Y	N	Y	N	Y
	P102	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
	P103	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
	P104	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
	P151	Y	Y	N	Y	Y	Y	Y	Y	N	Y
	P152	Y	Y	N	Y	Y	Y	Y	Y	N	Y
	P153	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
	P154	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
	P155	Y	Y	N	Y	Y	Y	Y	N	N	N
	P201	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P202	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	P300	Y	Y	N	Y	Y	Y	Y	Y	N	Y
	P301	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
	P302	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
	P303	Y	Y	N	Y	Y	Y	Y	Y	Y	Y

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OPERATING CHARACTERISTICS

Performance Package	Wattage	CCT	AY Optic							
			R2		R3		R4		R5	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P101	20	2700K	2,344	117	2,331	117	2,290	115	2,407	120
		3000K	2,383	119	2,370	119	2,328	116	2,447	122
		4000K	2,546	127	2,531	127	2,487	124	2,614	131
P102	30	2700K	3,174	106	3,156	105	3,101	103	3,260	109
		3000K	3,227	108	3,209	107	3,152	105	3,314	110
		4000K	3,447	115	3,428	114	3,367	112	3,540	118
P103	40	2700K	4,076	102	4,053	101	3,982	100	4,186	105
		3000K	4,144	104	4,121	103	4,048	101	4,256	106
		4000K	4,427	111	4,402	110	4,324	108	4,546	114
P104	49	2700K	4,841	99	4,814	98	4,729	97	4,972	101
		3000K	4,922	100	4,894	100	4,808	98	5,054	103
		4000K	5,258	107	5,228	107	5,136	105	5,399	110
P151	30	2700K	3,577	119	3,557	119	-	-	3,674	122
		3000K	3,637	121	3,616	121	-	-	3,735	125
		4000K	3,885	130	3,863	129	-	-	3,990	133
P152	40	2700K	4,341	109	4,317	108	-	-	4,458	111
		3000K	4,413	110	4,388	110	-	-	4,532	113
		4000K	4,714	118	4,688	117	-	-	4,842	121
P153	50	2700K	5,246	105	5,217	104	-	-	5,388	108
		3000K	5,333	107	5,303	106	-	-	5,477	110
		4000K	5,697	114	5,665	113	-	-	5,851	117
P154	60	2700K	6,065	101	6,031	101	-	-	6,229	104
		3000K	6,166	103	6,131	102	-	-	6,332	106
		4000K	6,587	110	6,550	109	-	-	6,765	113
P155	70	2700K	6,879	98	6,840	98	-	-	7,064	101
		3000K	6,993	100	6,954	99	-	-	7,182	103
		4000K	7,470	107	7,428	106	-	-	7,672	110
P201	70	2700K	7,441	106	7,399	106	7,268	104	7,641	109
		3000K	7,564	108	7,522	107	7,389	106	7,768	111
		4000K	8,080	115	8,035	115	7,893	113	8,298	119
P202	80	2700K	8,163	102	8,117	101	7,974	100	8,383	105
		3000K	8,298	104	8,252	103	8,106	101	8,522	107
		4000K	8,864	111	8,815	110	8,659	108	9,104	114
P300	41	2700K	4,828	118	4,801	117	-	-	4,959	121
		3000K	4,908	120	4,881	119	-	-	5,041	123
		4000K	5,243	128	5,214	127	-	-	5,385	131
P301	60	2700K	7,032	117	6,992	117	-	-	7,221	120
		3000K	7,148	119	7,108	118	-	-	7,341	122
		4000K	7,636	127	7,594	127	-	-	7,842	131
P302	70	2700K	7,855	112	7,811	112	-	-	8,067	115
		3000K	7,985	114	7,940	113	-	-	8,200	117
		4000K	8,530	122	8,482	121	-	-	8,760	125
P303	80	2700K	8,664	108	8,616	108	-	-	8,898	111
		3000K	8,808	110	8,759	109	-	-	9,046	113
		4000K	9,409	118	9,357	117	-	-	9,663	121

Optic	Lumen Factor
AY	1.00
PY	0.92

Optic	Lumen Factor
SAY	1.00
SPY	0.92

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PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). For other lumen maintenance values, contact factory.

LED Lumen Maintenance							
Performance Package	Initial	25k hours	36k hours	50k hours	60k hours	75k hours	100k hours
P101, P102, P151, P300	1.00	0.96	0.94	0.92	0.90	0.88	0.85
P103, P152	1.00	0.95	0.93	0.91	0.90	0.87	0.84
P153, P301, P302	1.00	0.95	0.93	0.91	0.89	0.87	0.83
P104, P154, P201, P303	1.00	0.95	0.93	0.90	0.89	0.86	0.82
P155, P202	1.00	0.94	0.92	0.89	0.88	0.85	0.80

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Luminaire Ambient Temperature (LAT) Multiplier								
0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.98	0.97

D4i Driver Option Defaults

Setting	Top Receptacle / Photocontrol	Default Value	Alternate Values
DALI Power Bus	NTR	ON	Off
	ALCB / ALCF / ALCC	ON	none
	DDC	ON	none
	PR7	OFF	On
	ZRT	ON	Off
	DZP	ON	Off
Dimming Type	Any	LINEAR	Logarithmic
24V AUX	Any	ON (Not Connected)	none
Scenes Data	Any	0 (blank)	01-255

*To program different settings, consult factory; RFD is required



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