

American Revolution Full Cutoff LED

Series 247CL

PRODUCT OVERVIEW



Applications:

Streetscapes
Walkways
Pathways
Parks



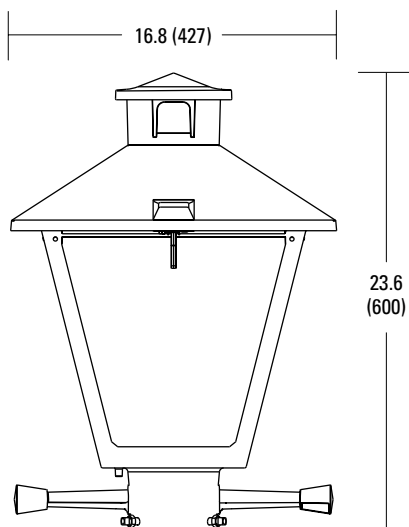
Features:

- Colonial LED lantern, replaces up to 250W HID models for street and area lighting applications
- Fifteen (15) LED performance packages deliver just the right amount of light for any given application up to 9,300 lumens
- Available in color temperature choices of 2700K, 3000K and 4000K
- Four (4) distinct light distribution options provide design flexibility, available in Type II, Type III, Type IV, and Type V
- Die-cast aluminum housing, engineered for sturdy lifelong performance
- Luminaire is rated for 3g vibration per ANSI C136.31
- Die-cast aluminum hood features a trigger latch (TL) option and captive thumb screws for fast, easy electrical and optical chamber access
- Standard paint finish is smooth 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
- Rated LED and driver life greater than 100,000 hours at 25°C
- Surge protection device (standard) exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Enhanced (10kV/5kA). 20KV Option exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Extreme (20kV/10kA)
- Equipped with LED electronic 0-10V dimmable driver with DALI driver option

Standards:

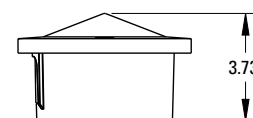
- Complies with all applicable ANSI C136 standards.
- CSA listed and suitable for up to 40°C ambient
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- **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/buy-american for additional information.

DIMENSIONS

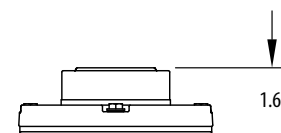


Effective Projected Area (EPA)

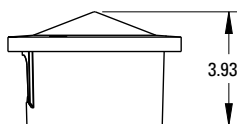
The EPA for the American Revolution Series 247 is 1.6 sq. ft.
Fixture weight = 36 lbs.



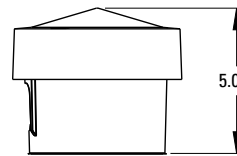
Cupola height
PR3 with SCC option
Shown in line diagram



No Cupola height
XC Option



Cupola height
PR7 with SCC option



Cupola height
PR7 with SNC option

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

All dimensions are inches (millimeters) unless otherwise noted.

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ORDERING INFORMATION

Example: 247CL P154 MVOLT 30K R3 BK SCC PR7

Series		Performance Package		Voltage		Color Temperature (CCT)			
247CL	American Revolution LED	Package	Input Watts	Lumens (nominal)		MVOLT	120-277V	27K	2700K
		P101	20	2,300		HVOLT	347-480V	30K	3000K
		P102	30	3,100		XVOLT	277-480V with enhanced power quality protection	40K	4000K
		P103	40	4,000					
		P104	49	4,800					
		P151	30	3,500					
		P152	40	4,300					
		P153	50	5,200					
		P154	60	6,000					
		P155	70	6,800					
		P201	70	7,400					
		P202	80	8,100					
		P300	41	4,800					
		P301	60	7,000					
		P302	70	7,800					
P303	80	8,600							
Distribution		Paint (smooth gloss)		Cupola		Photocontrol Receptacle			
R2	Type II	BK	Black	SCC	Standard cupola	NR	No photocontrol receptacle		
R3	Type III	GY	Gray	SNC	Smart node cupola	PR3	3 pin NEMA photocontrol		
R4	Type IV	DDB	Dark Bronze	XC	No cupola	PR7	7 pin NEMA photocontrol		
R5	Type V	WH	White						
		BZ	Bronze						

Options

Options

PCLL	Solid State Long Life Photocontrol, 120-277V (fail off)
P34	Solid State Long Life Photocontrol, 347V (fail off)
P48	Solid State Long Life Photocontrol, 480V (fail off)
PCSS	Solid state photocontrol, 120-277V (Not CSA Listed) (fail on)
SH	Shorting cap
AO	Field adjustable output module
DALI	DALI driver (RFD required)

Miscellaneous

SS	Stainless steel hardware
TL	Tool-less trigger latch entry
NL1X1	1" x 1" NEMA label
NL2X2	2" x 2" NEMA label
XL	Not CSA Listed
LDR	Ladder Rest
CR	Epoxy Pre-Coat Finish
20kV	20kV/10kA surge protection device
BAA	Buy America(n) Act and/or Build America Buy America Qualified

House-Side Shields

HSS	House Side Shield
Prewired leads	
L1H	1.5 ft. prewire leads
L03	3 ft. prewire leads
L10	10 ft. prewire leads
L20	20 ft. prewire leads
L25	25 ft. prewire leads
L30	30 ft. prewire leads

Accessory

House Side Shield shipped separately and installed in the field

FHSSLEM10-15R2/R5	P10x or P15x package, R2 or R5 optic
FHSSLEM10-15R3	P10x or P15x package, R3 optic
FHSSLEM20-30R2/R5	P20x or P30x package, R2 or R5 optic
FHSSLEM20-30R3	P20x or P30x package, R3 optic
FHSSLEM45R2/R5	P45x package, R2 or R5 optic
FHSSLEM45R3	P45x package, R3 optic

Note: Check the OPTIONS MATRIX on Page 3 for compatibility & restrictions



AEL Headquarters, One Lithonia Way, Conyers Georgia 30012
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 Email: TechSupport-Lighting@AcuityBrands.com
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Warranty Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Please contact your sales representative for the latest product information.

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OPTIONS MATRIX

		Voltage			Distribution				Cupola			Receptacle			Photocontrol					Other		
		MVOLT	HVOLT	XVOLT	R2	R3	R4	R5	SCC	SNC	XC	PR3	PR7	NR	PCLL	PCSS	P34	P48	SH	AO	DALI	20KV
Lumen Package	P101	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	
	P102	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P103	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P104	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P151	Y	Y	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P152	Y	Y	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P153	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P154	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P155	Y	Y	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P201	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P202	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P300	Y	Y	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P301	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	P302	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
P303	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y		
Voltage	MVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	RFD	Y
	HVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	N	Y	
	XVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	
Cupola	SCC	Y	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	
	SNC	Y	Y	Y	Y	Y	Y	Y				N	Y	N	Y	Y	Y	Y	Y	RFD	Y	
	XC	Y	Y	Y	Y	Y	Y	Y				Y	Y	N	Y	Y	Y	Y	Y	RFD	Y	
Receptacle	PR3	Y	Y	Y	Y	Y	Y	Y	Y	N	Y				Y	Y	Y	Y	Y	RFD	Y	
	PR7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y	RFD	Y	
	NR	Y	Y	Y	Y	Y	Y	Y	Y	N	N				N	N	N	N	N	RFD	Y	
Photocontrol	PCLL	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N						Y	RFD	Y
	PCSS	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N						Y	RFD	Y
	P34	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N						Y	RFD	Y
	P48	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N						Y	RFD	Y
	SH	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N						Y	RFD	Y
Other	AO	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	Y	
	DALI	RFD	N	N	Y	Y	Y	Y	Y	Y	RFD	RFD	RFD	RFD	RFD	RFD	RFD	RFD	N		RFD	
	20KV	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			

MATRIX KEY

Y = Option combination is available

N = Option combination is not available

RFD = Option combination is available but additional information required. Consult factory.

Cupola Control Node Compatibility

Cupola Option	Acuity Brands Control	
	nLight rTLN	DTL DIN
XC	Yes	Yes
SCC	No	No
SNC	No	Yes

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OPERATING CHARACTERISTICS

Performance Package	Wattage	CCT	Optic							
			R2		R3		R4		R5	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P101	20	2700K	2,240	112	2,227	111	2,100	105	2,300	115
		3000K	2,338	117	2,325	116	2,192	110	2,401	120
		4000K	2,440	122	2,426	121	2,287	114	2,506	125
P102	30	2700K	3,034	101	3,016	101	2,843	95	3,115	104
		3000K	3,166	106	3,148	105	2,968	99	3,252	108
		4000K	3,304	110	3,285	109	3,097	103	3,393	113
P103	40	2700K	3,896	97	3,874	97	3,651	91	4,001	100
		3000K	4,066	102	4,043	101	3,811	95	4,176	104
		4000K	4,243	106	4,219	106	3,977	99	4,357	109
P104	49	2700K	4,627	94	4,601	93	4,337	88	4,752	96
		3000K	4,830	98	4,802	97	4,527	92	4,959	100
		4000K	5,040	102	5,011	102	4,723	96	5,175	105
P151	30	2700K	3,419	114	3,399	113	--	--	3,511	117
		3000K	3,569	119	3,548	118	--	--	3,665	122
		4000K	3,724	124	3,703	123	--	--	3,824	127
P152	40	2700K	4,149	104	4,125	103	--	--	4,261	107
		3000K	4,331	108	4,306	108	--	--	4,447	111
		4000K	4,519	113	4,493	112	--	--	4,640	116
P153	50	2700K	5,014	100	4,986	100	--	--	5,149	103
		3000K	5,233	105	5,204	104	--	--	5,374	107
		4000K	5,461	109	5,430	109	--	--	5,608	112
P154	60	2700K	5,797	97	5,764	96	--	--	5,953	99
		3000K	6,051	101	6,016	100	--	--	6,213	104
		4000K	6,314	105	6,278	105	--	--	6,483	108
P155	70	2700K	6,574	94	6,537	93	--	--	6,751	96
		3000K	6,862	98	6,823	97	--	--	7,046	101
		4000K	7,160	102	7,120	102	--	--	7,353	105
P201	70	2700K	7,111	102	7,071	101	6,665	95	7,302	104
		3000K	7,422	106	7,380	105	6,957	99	7,622	109
		4000K	7,745	111	7,701	110	7,259	104	7,953	114
P202	80	2700K	7,801	98	7,757	97	7,312	91	8,011	100
		3000K	8,143	102	8,096	101	7,632	95	8,362	105
		4000K	8,497	106	8,448	106	7,964	100	8,725	109
P300	41	2700K	4,615	114	4,588	113	--	--	4,739	117
		3000K	4,817	119	4,789	118	--	--	4,946	122
		4000K	5,026	124	4,997	123	--	--	5,161	127
P301	60	2700K	6,720	112	6,682	111	--	--	6,901	115
		3000K	7,015	117	6,975	116	--	--	7,203	120
		4000K	7,320	122	7,278	121	--	--	7,516	125
P302	70	2700K	7,507	107	7,464	107	--	--	7,709	110
		3000K	7,835	112	7,791	111	--	--	8,046	115
		4000K	8,176	117	8,130	116	--	--	8,396	120
P303	80	2700K	8,281	104	8,234	103	--	--	8,503	106
		3000K	8,643	108	8,594	107	--	--	8,876	111
		4000K	9,019	113	8,968	112	--	--	9,261	116



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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). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. 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

