

American Revolution LED

Series 247L

PRODUCT OVERVIEW



Applications:

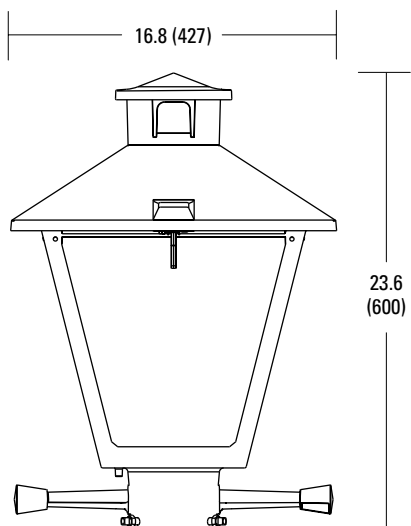
Streetscapes
Walkways
Pathways
Parks



Features:

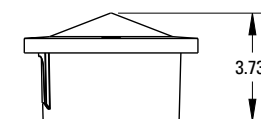
- Colonial LED lantern, replaces up to 250W HID models for street and area lighting applications
- Fourteen (14) LED performance packages deliver just the right amount of light for any given application up to 9,000 lumens
- Available in color temperature choices of 2700K, 3000K and 4000K
- Three (3) distinct light distribution options provide design flexibility, available in Type II, Type III and Type V
- Available with acrylic or polycarbonate lens
- 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
- Complies with all applicable ANSI C136 standards.
- CSA listed and suitable for up to 40°C ambient
- 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

DIMENSIONS

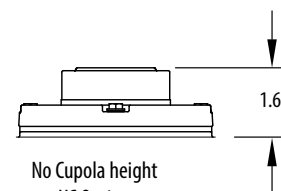


Effective Projected Area (EPA)

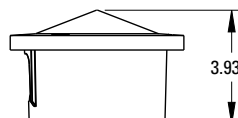
The EPA for the American Revolution Series 247 is 1.6 sq. ft.
Fixture weight = 36 lbs.



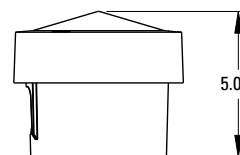
Cupola height
P3 with SCC option
Shown in line diagram



No Cupola height
XC Option



Cupola height
P7 with SCC option



Cupola height
P7 with SNC option

All dimensions are inches (millimeters) unless otherwise noted.

American Revolution LED

Series 247L

ORDERING INFORMATION

Example: 247L P155 MVOLT 40K R3 AY BK SCC PR7

Series		Performance Package			Voltage		Color Temperature (CCT)	
247L	American Revolution LED	Package	Input Watts	Lumens (nominal)	MVOLT	120-277V	27K	2700K
		P101	20	2,300	HVOLT	347-480V	30K	3000K
		P102	30	3,000	XVOLT	277-480V with enhanced power quality protection	40K	4000K
		P103	40	4,000				
		P104	49	4,700				
		P151	30	3,500				
		P152	40	4,200				
		P153	50	5,100				
		P154	60	5,900				
		P155	70	6,600				
		P201	70	7,200				
		P202	80	7,900				
		P301	60	6,800				
		P302	70	7,600				
		P303	80	8,400				

Distribution		Optics		Paint (smooth gloss)		Cupola		Photocontrol Receptacle	
R2	Type II	AY	Acrylic	BK	Black	SCC	Standard cupola	NR	No photocontrol receptacle
R3	Type III	PY	Polycarbonate	GY	Gray	SNC	Smart node cupola	PR3	3 pin NEMA photocontrol
R5	Type V			DDB	Dark Bronze	XC	No cupola	PR7	7 pin NEMA photocontrol
				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
CNV	Field convertible to full cutoff

House-Side Shields

HSB	House Side Black
HSW	House Side White
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

Special Packaging

SSP	Sample pack (UPS)
Accessories (ship separately):	
247LFHSW	Field installable white shield (HSW)
247LFHSB	Field installable black shield (HSB)
247LFAY	Field installable acrylic (AY) optic
247LFPY	Field installable polycarbonate (PY) optic

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



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023

www.americanelectriclighting.com

© 2019-2022 Acuity Brands Lighting, Inc. All Rights Reserved. 247L Rev. 03/08/22

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/resources/terms-and-conditions
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.

American Revolution LED

Series 247L

OPTIONS MATRIX

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

MATRIX KEY

Y = Option combination is available

N = Option combination is not available

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



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023

www.americanelectriclighting.com

© 2019-2022 Acuity Brands Lighting, Inc. All Rights Reserved. 247L Rev. 03/08/22

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/resources/terms-and-conditions
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.

American Revolution LED

Series 247L

OPERATING CHARACTERISTICS

Performance Package	Wattage	CCT	AY Optic					
			R2		R3		R5	
			Lumens	LPW	Lumens	LPW	Lumens	LPW
P101	20	2700K	2,182	109	2,169	108	2,240	112
		3000K	2,277	114	2,264	113	2,338	117
		4000K	2,376	119	2,362	118	2,440	122
P102	30	2700K	2,954	98	2,937	98	3,034	101
		3000K	3,083	103	3,066	102	3,166	106
		4000K	3,217	107	3,199	107	3,304	110
P103	40	2700K	3,794	95	3,772	94	3,896	97
		3000K	3,960	99	3,937	98	4,066	102
		4000K	4,132	103	4,108	103	4,243	106
P104	49	2700K	4,506	91	4,480	91	4,627	94
		3000K	4,703	95	4,676	95	4,830	98
		4000K	4,908	99	4,880	99	5,039	102
P151	30	2700K	3,329	111	3,310	110	3,419	114
		3000K	3,475	116	3,455	115	3,569	119
		4000K	3,626	121	3,606	120	3,724	124
P152	40	2700K	4,040	101	4,017	100	4,149	104
		3000K	4,217	105	4,193	105	4,331	108
		4000K	4,400	110	4,375	109	4,519	113
P153	50	2700K	4,883	98	4,855	97	5,014	100
		3000K	5,096	102	5,067	101	5,233	105
		4000K	5,318	106	5,288	106	5,461	109
P154	60	2700K	5,645	94	5,613	94	5,797	97
		3000K	5,892	98	5,858	98	6,050	101
		4000K	6,148	102	6,113	102	6,314	105
P155	70	2700K	6,402	91	6,366	91	6,574	94
		3000K	6,682	95	6,644	95	6,862	98
		4000K	6,973	100	6,933	99	7,160	102
P201	70	2700K	6,925	99	6,885	98	7,111	102
		3000K	7,228	103	7,187	103	7,422	106
		4000K	7,542	108	7,499	107	7,745	111
P202	80	2700K	7,597	95	7,554	94	7,801	98
		3000K	7,929	99	7,884	99	8,143	102
		4000K	8,274	103	8,227	103	8,497	106
P301	60	2700K	6,544	109	6,507	108	6,720	112
		3000K	6,831	114	6,792	113	7,014	117
		4000K	7,128	119	7,087	118	7,319	122
P302	70	2700K	7,310	104	7,269	104	7,507	107
		3000K	7,630	109	7,587	108	7,835	112
		4000K	7,962	114	7,917	113	8,176	117
P303	80	2700K	8,064	101	8,018	100	8,281	104
		3000K	8,417	105	8,369	105	8,643	108
		4000K	8,783	110	8,733	109	9,019	113

Optic	Factor
AY	1.00
PY	.92



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com

© 2019-2022 Acuity Brands Lighting, Inc. All Rights Reserved. 247L Rev. 03/08/22

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/resources/terms-and-conditions
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.

American Revolution LED

Series 247L

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	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



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com

© 2019-2022 Acuity Brands Lighting, Inc. All Rights Reserved. 247L Rev. 03/08/22

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/resources/terms-and-conditions
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.