



American Revolution Deluxe LED

Series ARDL

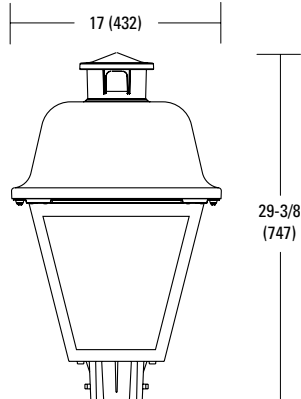
PRODUCT OVERVIEW



Applications:

Roadways Pathways
Streetscapes Parks
Walkways

DIMENSIONS



Effective Projected Area (EPA)

The EPA for the ARDL is 2.4 sq. ft.

Fixture weight = 27lbs.

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.

Note: Specifications subject to change without notice.
American Revolution Deluxe LED Series - ARDL

Features:

OPTICAL

Producing between 3,200-14,400 lumens, the ARDL 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 16 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

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 AO 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.

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	
ARDL	American Revolution Deluxe LED	Package	Input Watts	Lumens (nominal)	Package	Input Watts	Lumens (nominal)	MVOLT	120-277V
		P101	30	3,300	P300	61	7,200	HVOLT	347-480V
		P102	40	4,200	P301	70	8,100	XVOLT	277-480V with enhanced power quality protection
		P103	50	5,100	P302	80	9,200		
		P151	50	5,400	P303	90	10,100		
		P152	60	6,500	P304	100	10,800		
		P153	70	7,300	P451	100	11,900		
		P201	70	7,600	P452	110	12,900		
		P202	80	8,400					
		P203	90	9,100					

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		DDB Dark Bronze
		R5 Type V		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 on) (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 Zhaga 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 Not CSA Listed (no terminal block cover)	LDR Ladder Rest	Full Lens Panel	
AO Field Adjustable Output module	CR Epoxy Pre-Coat Finish	House-Side Shields	
SS Stainless Steel hardware	20kV 20kV/10kA surge protection device	HSB AY/PY House Side Black	Accessories (ship separately):
TL Tool-less trigger latch entry	CNV Field convertible to full cutoff	HSW AY/PY House Side White	
NL1X1 1" x 1" NEMA label	BAA Buy America(n) Act and/or Build America Buy America Qualified	Prewired leads	
NL2X2 2" x 2" NEMA label		L1H 1.5 ft. prewire leads	
		L03 3 ft. prewire leads	ARDLF FHSW Field installable white shield (HSW)
		L10 10 ft. prewire leads	ARDLF FHSB Field installable black shield (HSB)
		L20 20 ft. prewire leads	ARDLF FAY Field installable acrylic (AY) replacement optic
		L25 25 ft. prewire leads	ARDLF FPY Field installable polycarbonate (PY) replacement optic
		L30 30 ft. prewire leads	

Check the OPTIONS MATRIX on page 3 for compatibility and restrictions.



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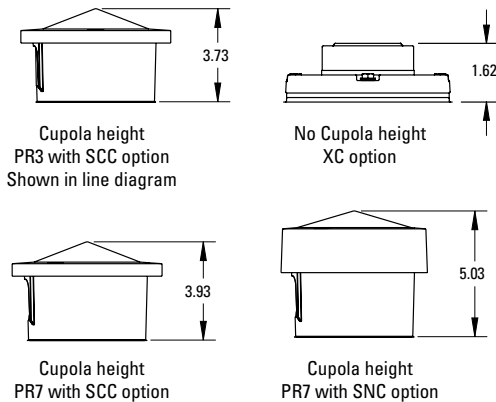
OPTIONS MATRIX

ARDL		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	Y	N	N	N	N	N	Y	Y
	D4I	Y	Y	Y			Y	N	Y	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	Y	N	Y
	XC	Y	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
Embedded Controls	DZP	Y	Y	Y	N	Y	N	N	N	Y	Y	Y	Y							N	N	N	N	N	N
	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
Other	UBC	Y	Y	Y	N	Y	Y	N	N	N	N	N	Y	N	N	N	N	N	N						N
	AO	Y	Y	Y	Y	N	Y	Y	Y	N	Y	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.

ARDL		Distribution				Driver/Voltage							
						MVOLT		HVOLT		XVOLT			
Lumen Package	P101	R2	R3	R4	R5	ZT	D4I	ZT	D4I	ZT	D4I		
	P102	Y	Y	Y	Y	Y	Y	N	Y	N	Y		
	P103	Y	Y	Y	Y	Y	Y	Y	Y	N	Y		
	P151	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
	P152	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
	P153	Y	Y	N	Y	Y	Y	Y	Y	N	Y		
	P201	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	P202	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	P203	Y	Y	Y	Y	Y	Y	Y	Y	N	Y		
	P300	Y	Y	Y	Y	Y	Y	Y	Y	N	Y		
	P301	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	P302	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	P303	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	P304	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	P451	Y	Y	N	Y	Y	Y	Y	Y	N	Y		
	P452	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		

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.

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AEL Headquarters, 1 Acuity Way, Decatur, GA 30035
www.americanelectriclighting.com Phone: 1-866-HOLOPHANE
Email: TechSupport@AcuityBrands.com
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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	30	2700K	3,281	109	3,255	108	3,243	108	3,389	113
		3000K	3,334	111	3,309	110	3,297	110	3,445	115
		4000K	3,563	119	3,536	118	3,522	117	3,680	123
P102	40	2700K	4,145	104	4,112	103	4,097	102	4,281	107
		3000K	4,212	105	4,181	105	4,165	104	4,352	109
		4000K	4,500	113	4,466	112	4,450	111	4,649	116
P103	50	2700K	5,019	100	4,982	100	4,962	99	5,185	104
		3000K	5,102	102	5,063	101	5,045	101	5,272	105
		4000K	5,450	109	5,410	108	5,389	108	5,630	113
P151	50	2700K	5,363	107	5,322	106	--	--	5,540	111
		3000K	5,453	109	5,411	108	--	--	5,633	113
		4000K	5,824	116	5,780	116	--	--	6,017	120
P152	60	2700K	6,419	107	6,370	106	--	--	6,631	111
		3000K	6,525	109	6,476	108	--	--	6,741	112
		4000K	6,971	116	6,918	115	--	--	7,201	120
P153	70	2700K	7,193	103	7,138	102	--	--	7,431	106
		3000K	7,312	104	7,257	104	--	--	7,554	108
		4000K	7,812	112	7,752	111	--	--	8,070	115
P201	70	2700K	7,554	108	7,497	107	7,469	107	7,803	111
		3000K	7,680	110	7,621	109	7,593	108	7,933	113
		4000K	8,204	117	8,141	116	8,111	116	8,475	121
P202	80	2700K	8,337	104	8,275	103	8,244	103	8,614	108
		3000K	8,476	106	8,412	105	8,381	105	8,757	109
		4000K	9,055	113	8,986	112	8,953	112	9,354	117
P203	90	2700K	9,069	101	9,000	100	8,967	100	9,369	104
		3000K	9,219	102	9,149	102	9,116	101	9,524	106
		4000K	9,849	109	9,774	109	9,738	108	10,174	113
P300	61	2700K	7,181	118	7,127	117	7,101	116	7,419	122
		3000K	7,301	120	7,245	119	7,218	118	7,542	124
		4000K	7,799	128	7,740	127	7,711	126	8,057	132
P301	70	2700K	8,056	115	7,995	114	7,966	114	8,322	119
		3000K	8,189	117	8,128	116	8,097	116	8,461	121
		4000K	8,749	125	8,683	124	8,651	124	9,038	129
P302	80	2700K	9,081	114	9,012	113	8,979	112	9,382	117
		3000K	9,232	115	9,162	115	9,128	114	9,537	119
		4000K	9,863	123	9,788	122	9,751	122	10,188	127
P303	90	2700K	9,962	111	9,886	110	9,849	109	10,291	114
		3000K	10,127	113	10,050	112	10,013	111	10,462	116
		4000K	10,818	120	10,736	119	10,696	119	11,176	124
P304	100	2700K	10,739	107	10,657	107	10,618	106	11,094	111
		3000K	10,917	109	10,834	108	10,794	108	11,278	113
		4000K	11,663	117	11,574	116	11,531	115	12,048	120
P451	100	2700K	11,802	118	11,712	117	--	--	12,192	122
		3000K	11,997	120	11,906	119	--	--	12,394	124
		4000K	12,816	128	12,719	127	--	--	13,240	132
P452	110	2700K	12,817	117	12,721	116	--	--	13,241	120
		3000K	13,030	118	12,932	118	--	--	13,461	122
		4000K	13,920	127	13,814	126	--	--	14,380	131

Optic	Factor
AY	1.00
PY	0.92



AEL Headquarters, 1 Acuity Way, Decatur, GA 30035
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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.

Lumen Maintenance (LLD)							
Performance Package	Initial	25k hours	36k hours	50k hours	60k hours	75k hours	100k hours
P101	1.00	0.96	0.94	0.92	0.90	0.88	0.85
P102, P300	1.00	0.95	0.93	0.91	0.90	0.87	0.84
P151, P201, P301	1.00	0.95	0.93	0.91	0.89	0.87	0.83
P103, P152, P202, P302, P303, P451	1.00	0.95	0.93	0.90	0.89	0.86	0.82
P304, P452	1.00	0.94	0.92	0.90	0.88	0.85	0.81
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).

Ambient Temperature Lumen Multipliers								
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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