



IP66 Optics

American Revolution Deluxe Full Cutoff LED

Series ARDCL

PRODUCT OVERVIEW



Applications:

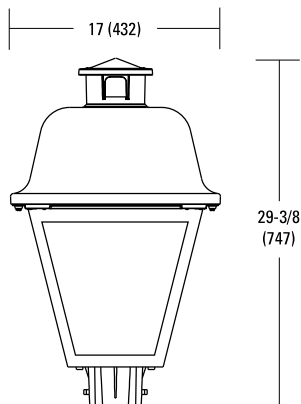
Roadways
Streetscapes
Walkways

Pathways
Parks



Consistent with LEED® goals
& Green Globes® criteria
for light pollution reduction

DIMENSIONS



Effective Projected Area (EPA)

The EPA for the ARDCL is 1.35 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 Full Cutoff LED Series - ARDCL

Features:

OPTICAL

Producing between 3,300-14,800 lumens, the ARDCL family replaces up to 250W HID luminaires with optimal performance and visual comfort in a variety of applications.

Zero uplight to minimize light pollution and protect the night skies.

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

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.

American Revolution Deluxe Full Cutoff LED

Series ARDCL

ORDERING INFORMATION

ARDCL

Series
ARDCL American Revolution Full Cutoff Deluxe LED

P102

Performance Package					
Package	Input Watts	Lumens (nominal)	Package	Input Watts	Lumens (nominal)
P101	30	3,400	P300	61	7,400
P102	40	4,300	P301	70	8,300
P103	50	5,200	P302	80	9,400
P151	50	5,600	P303	90	10,300
P152	60	6,600	P304	100	11,100
P153	70	7,500	P451	100	12,200
P201	70	7,800	P452	110	13,300
P202	80	8,600			
P203	90	9,400			

MVOLT

Voltage
MVOLT 120-277V
HVOLT 347-480V
XVOLT 277-480V with enhanced power quality protection
SOLAR Solar powered system ready ¹

ZT

Driver
ZT 0-10V dimmable driver
D4I D4I driver

30K

Color Temperature (CCT)
27K 2700K
30K 3000K
40K 4000K

R5

Distribution
R2 Type II
R3 Type III
R4 Type IV
R5 Type V

BK

Paint (smooth semi-gloss)
BK Black
GY Gray
DDB Dark Bronze
WH White
BZ Bronze

PR7

Top Receptacle
NTR No Top receptacle
PR3 3 Pin NEMA receptacle
PR7 7 pin NEMA receptacle
ZRT Zhage receptacle top

SCC

Cupola
SCC Standard cupola
SNC Smart node cupola
XC No cupola

Twist-Lock Photocontrols
PCLL Solid State Long Life Photocontrol, 120-277V (fail off)
PCSS Solid State Photocontrol 120-277V (fail off) (Not CSA Listed)
P34 Solid State Long Life Photocontrol, 347V (fail off)
P48 Solid State Long Life Photocontrol, 480V (fail off)
SH Shorting cap
DZP DTL DZP DC Zhaga Photocontrol

Embedded Controls
ALCB Local Connect Basic
ALCC Local Connect Custom
ALCF Local Connect Full
DDC DC Connect Photocontrol
UBC Cell Connect

NL1X1

Miscellaneous Options			
XL Not CSA Listed (no terminal block cover)	LDR Ladder Rest	Prewired leads	Accessory
AO Field Adjustable Output module	CR Epoxy Pre-Coat Finish	L1H 1.5 ft. prewire leads	House Side Shield shipped separately and installed in the field
SS Stainless Steel hardware	20kV 20kV/10kA surge protection device	L03 3 ft. prewire leads	FHSSLEM10-15R2R5 P10x or P15x package, R2 or R5 optic
TL Tool-less trigger latch entry	BAA Buy America(n) Act and/or Build America Buy America Qualified	L10 10 ft. prewire leads	FHSSLEM10-15R3 P10x or P15x package, R3 optic
NL1X1 1" x 1" NEMA label	HSS Factory Installed Louvered HSS	L20 20 ft. prewire leads	FHSSLEM20-30R2R5 P20x or P30x package, R2 or R5 optic
NL2X2 2" x 2" NEMA label		L25 25 ft. prewire leads	FHSSLEM20-30R3 P20x or P30x package, R3 optic
		L30 30 ft. prewire leads	FHSSLEM45R2R5 P45x package, R2 or R5 optic
			FHSSLEDLEM45R3 P45x package, R3 optic

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

1. Available in P101-P102 performance packages. Contact factory to configure.



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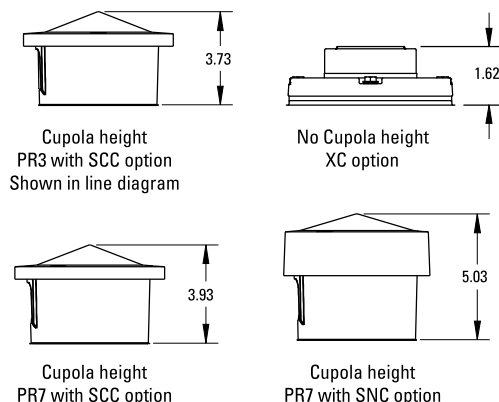
Series ARDCL

OPTIONS MATRIX

ARDCL		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	A0
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
	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	A0	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.

ARDCL		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	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
	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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Series ARDCL

OPERATING CHARACTERISTICS

Performance Package	Wattage	CCT	ARDCL Optic							
			R2		R3		R4		R5	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P101	30	2700K	3,369	112	3,343	111	3,330	111	3,479	116
		3000K	3,424	114	3,398	113	3,386	113	3,537	118
		4000K	3,658	122	3,630	121	3,617	121	3,779	126
P102	40	2700K	4,255	106	4,223	106	4,208	105	4,396	110
		3000K	4,327	108	4,293	107	4,277	107	4,469	112
		4000K	4,621	116	4,587	115	4,570	114	4,774	119
P103	50	2700K	5,155	103	5,115	102	5,097	102	5,324	106
		3000K	5,240	105	5,200	104	5,181	104	5,413	108
		4000K	5,597	112	5,555	111	5,534	111	5,783	116
P151	50	2700K	5,508	110	5,466	109	--	--	5,690	114
		3000K	5,599	112	5,556	111	--	--	5,784	116
		4000K	5,982	120	5,936	119	--	--	6,179	124
P152	60	2700K	6,591	110	6,542	109	--	--	6,809	113
		3000K	6,701	112	6,650	111	--	--	6,922	115
		4000K	7,158	119	7,104	118	--	--	7,395	123
P153	70	2700K	7,386	106	7,331	105	--	--	7,630	109
		3000K	7,509	107	7,452	106	--	--	7,757	111
		4000K	8,022	115	7,961	114	--	--	8,286	118
P201	70	2700K	7,757	111	7,698	110	7,670	110	8,014	114
		3000K	7,886	113	7,826	112	7,797	111	8,147	116
		4000K	8,425	120	8,360	119	8,329	119	8,702	124
P202	80	2700K	8,562	107	8,498	106	8,465	106	8,846	111
		3000K	8,704	109	8,638	108	8,606	108	8,992	112
		4000K	9,299	116	9,228	115	9,194	115	9,605	120
P203	90	2700K	9,313	103	9,242	103	9,208	102	9,620	107
		3000K	9,467	105	9,396	104	9,361	104	9,780	109
		4000K	10,114	112	10,037	112	10,000	111	10,449	116
P300	61	2700K	7,375	121	7,319	120	7,292	120	7,619	125
		3000K	7,498	123	7,440	122	7,413	122	7,745	127
		4000K	8,009	131	7,948	130	7,919	130	8,274	136
P301	70	2700K	8,273	118	8,210	117	8,179	117	8,546	122
		3000K	8,410	120	8,346	119	8,315	119	8,688	124
		4000K	8,984	128	8,916	127	8,883	127	9,281	133
P302	80	2700K	9,326	117	9,255	116	9,221	115	9,634	120
		3000K	9,481	119	9,409	118	9,374	117	9,794	122
		4000K	10,127	127	10,051	126	10,014	125	10,463	131
P303	90	2700K	10,230	114	10,152	113	10,115	112	10,568	117
		3000K	10,400	116	10,320	115	10,283	114	10,743	119
		4000K	11,110	123	11,025	123	10,984	122	11,476	128
P304	100	2700K	11,028	110	10,944	109	10,903	109	11,392	114
		3000K	11,211	112	11,126	111	11,084	111	11,581	116
		4000K	11,976	120	11,885	119	11,841	118	12,372	124
P451	100	2700K	12,119	121	12,026	120	--	--	12,520	125
		3000K	12,320	123	12,226	122	--	--	12,727	127
		4000K	13,160	132	13,061	131	--	--	13,595	136
P452	110	2700K	13,162	120	13,062	119	--	--	13,597	124
		3000K	13,381	122	13,279	121	--	--	13,823	126
		4000K	14,294	130	14,186	129	--	--	14,766	134



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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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