



Valiant™ LED

Series AVPL2

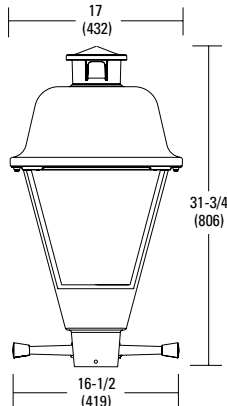
PRODUCT OVERVIEW



Applications:

Roadways Pathways
Streetscapes Parks
Walkways

DIMENSIONS



Effective Projected Area (EPA)

The EPA for the AVPL2 2.4 sq. ft.

Fixture weight = 28 lbs.

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.

Valiant LED Series - AVPL2

Features:

OPTICAL

Producing between 3,100-13,700 lumens, the Valiant AVPL2 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 black finish is matte texture. All other finishes are 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.

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.

Valiant™ LED

Series AVPL2

ORDERING INFORMATION

Series	Performance Package						Voltage
AVPL2 Valiant LED	Package	Input Watts	Lumens (nominal)	Package	Input Watts	Lumens (nominal)	MVOLT 120-277V HVOLT 347-480V XVOLT 277-480V with enhanced power quality protection
	P101	30	3,200	P300	61	6,900	
	P102	40	4,000	P301	70	7,800	
	P103	50	4,800	P302	80	8,800	
	P151	50	5,200	P303	90	9,600	
	P152	60	6,200	P304	100	10,400	
	P153	70	6,900	P451	100	11,400	
	P201	70	7,300	P452	110	12,400	
	P202	80	8,000				
	P203	90	8,700				

Driver	Color Temperature (CCT)	Distribution	Optics	Paint (textured)
ZT 0-10V dimmable driver D4I D4I driver	27K 2700K 30K 3000K 40K 4000K	R2 Type II R3 Type III R4 Type IV R5 Type V	AY Prismatic Acrylic CAY Clear Acrylic RNA Rain Pattern Acrylic RNP Rain Pattern Polycarbonate	BK Black GY Gray DDB Dark Bronze WH White BZ Bronze

Top Receptacle	Cupola	Twist-Lock Photocontrols		Embedded Controls
NTR No Top receptacle PR3 3 Pin NEMA receptacle PR7 7 pin NEMA receptacle ZRT Zhaga receptacle top	SCC Standard cupola SNC Smart node cupola XC No cupola	PCLL Solid State Long Life Photocontrol, 120-277V (fail off) PCSS Solid State Photocontrol 120-277V (fail on) (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		ALCB Local Connect Basic ALCC Local Connect Custom ALCF Local Connect Full DDC DC Connect Photocontrol UBC Cell Connect

Miscellaneous Options					
XL 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		AVPL2FHSW Field installable white shield (HSW)	
SS Stainless Steel hardware	20kV 20kV/10kA surge protection device	HSB House Side Black		AVPL2FHSB Field installable black shield (HSB)	
TL Tool-less trigger latch entry	BAA Buy America(n) Act and/or Build America Buy America Qualified	HSW House Side White		AVPL2FAY Field installable acrylic (AY) replacement optic	
NL1X1 1" x 1" NEMA label		Prewired leads		AVPL2FRNA Field installable rain pattern acrylic (RNA) replacement optic	
NL2X2 2" x 2" NEMA label		L1H 1.5 ft. prewire leads		AVPL2FRNP Field installable rain pattern polycarbonate (RNP) replacement optic	
		L03 3 ft. prewire leads		AVPL2FCAY Field installable clear acrylic (CAY) replacement optic	
		L10 10 ft. prewire leads			
		L20 20 ft. prewire leads			
		L25 25 ft. prewire leads			
		L30 30 ft. prewire leads			

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



AEL Headquarters, 1 Acuity Way, Decatur, GA 30035
 www.americanelectricleighting.com Phone: 1-866-HOLOPHANE
 Email: TechSupportINF@AcuityBrands.com
 © 2014-2025 Acuity Brands Lighting, Inc. All Rights Reserved. AVPL2 Rev. 10/17/25

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.

Valiant™ LED

Series AVPL2

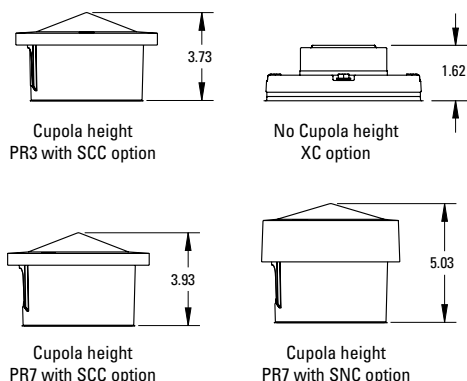
OPTIONS MATRIX

AVPL2		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.

AVPL2		Distribution				Driver/Voltage					
		R2	R3	R4	R5	MVOLT	HVOLT	XVOLT			
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
	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.

Please contact your sales representative for the latest product information.



AEL Headquarters, 1 Acuity Way, Decatur, GA 30035
www.americanelectriclighting.com Phone: 1-866-HOLOPHANE
Email: TechSupportINF@AcuityBrands.com

© 2014-2025 Acuity Brands Lighting, Inc. All Rights Reserved. AVPL2 Rev. 10/17/25

OPERATING CHARACTERISTICS

Performance Package	Wattage	CCT	RNA Optic							
			R2		R3		R4		R5	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P101	30	2700K	3,135	105	3,111	104	3,100	103	3,239	108
		3000K	3,187	106	3,163	105	3,152	105	3,293	110
		4000K	3,404	113	3,379	113	3,367	112	3,517	117
P102	40	2700K	3,961	99	3,931	98	3,917	98	4,092	102
		3000K	4,026	101	3,996	100	3,982	100	4,160	104
		4000K	4,301	108	4,269	107	4,254	106	4,444	111
P103	50	2700K	4,797	96	4,761	95	4,744	95	4,956	99
		3000K	4,876	98	4,840	97	4,823	96	5,038	101
		4000K	5,209	104	5,170	103	5,152	103	5,382	108
P151	50	2700K	5,126	103	5,087	102	-	-	5,296	106
		3000K	5,211	104	5,172	103	-	-	5,384	108
		4000K	5,567	111	5,525	111	-	-	5,751	115
P152	60	2700K	6,135	102	6,089	101	-	-	6,338	106
		3000K	6,236	104	6,190	103	-	-	6,443	107
		4000K	6,662	111	6,612	110	-	-	6,883	115
P153	70	2700K	6,874	98	6,823	97	-	-	7,102	101
		3000K	6,989	100	6,936	99	-	-	7,220	103
		4000K	7,466	107	7,410	106	-	-	7,713	110
P201	70	2700K	7,219	103	7,165	102	7,140	102	7,459	107
		3000K	7,339	105	7,284	104	7,258	104	7,582	108
		4000K	7,840	112	7,781	111	7,753	111	8,100	116
P202	80	2700K	7,969	100	7,909	99	7,881	99	8,233	103
		3000K	8,101	101	8,040	101	8,011	100	8,369	105
		4000K	8,654	108	8,589	107	8,558	107	8,940	112
P203	90	2700K	8,667	96	8,602	96	8,572	95	8,955	100
		3000K	8,811	98	8,745	97	8,714	97	9,103	101
		4000K	9,413	105	9,342	104	9,309	103	9,724	108
P300	61	2700K	6,864	113	6,812	112	6,788	111	7,091	116
		3000K	6,977	114	6,925	114	6,900	113	7,209	118
		4000K	7,454	122	7,398	121	7,371	121	7,701	126
P301	70	2700K	7,699	110	7,642	109	7,614	109	7,954	114
		3000K	7,827	112	7,768	111	7,741	111	8,086	116
		4000K	8,361	119	8,299	119	8,269	118	8,638	123
P302	80	2700K	8,679	108	8,614	108	8,583	107	8,967	112
		3000K	8,823	110	8,757	109	8,726	109	9,116	114
		4000K	9,425	118	9,355	117	9,321	117	9,738	122
P303	90	2700K	9,521	106	9,449	105	9,415	105	9,836	109
		3000K	9,678	108	9,606	107	9,572	106	9,999	111
		4000K	10,339	115	10,262	114	10,225	114	10,682	119
P304	100	2700K	10,263	103	10,186	102	10,150	102	10,603	106
		3000K	10,434	104	10,355	104	10,318	103	10,779	108
		4000K	11,146	111	11,062	111	11,023	110	11,515	115
P451	100	2700K	11,279	113	11,194	112	-	-	11,652	117
		3000K	11,466	115	11,380	114	-	-	11,846	118
		4000K	12,248	122	12,156	122	-	-	12,654	127
P452	110	2700K	12,250	111	12,158	111	-	-	12,656	115
		3000K	12,453	113	12,360	112	-	-	12,866	117
		4000K	13,303	121	13,203	120	-	-	13,744	125

Optic	Lumen Multiplier
CAY	1.07
RNA	1.00
RNP	0.97
AY	0.96



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

