



ACP2LED Series

American Compact LED Floodlight

PRODUCT OVERVIEW



Applications:

Auto dealerships	Shopping centers
Schools	Parking lots
Churches	Substations
Industrial sites	Building facades

Features:

Mechanical

Low copper content die-cast aluminum housing and electrical cover with bolts or optional stainless steel latches disengage for easy access to LED driver, surge protection, and terminal block.

Four mounting options including two variants of yoke and two variants on tenon slip-fitter. Tenon may be ordered with leads exiting the bottom or side of knuckle joint and is adjustable to fit 2-3/8 inch to 2-7/8 inch tenon.

Luminaire is vibration rated to 3G per ANSI C136.31-2018 and rated IP66 per IEC60068-2-3.

Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber per ASTM B117. The yoke is provided in either painted or galvanized steel.

Electrical

LED light engine is rated minimum 100,000 hours at 25C, L70.

Electronic driver has an expected life of 100,000 hours at a 25C ambient. Driver meets maximum total harmonic distortion (THD) of 20% and is ROHS compliant.

Robust surge protection: 20kV/10kA surge protection per ANSI C136.2 is the default, with 10kV/5kA surge optional.

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.

Optical

Nine multi-die LED's combined with highly specular reflectors provide superior field to beam ratios, uniformity, and spacing.

NEMA optical pattern choice of flood (5x5), wide flood (6x6), and wide flood rectangle (6x5).

The luminaire is available with 3000K, 4000K, and 5000K CCT with minimum CRI of 70.

Optical enclosure shall be glass lens.

Optional shielding available to control light trespass and uplight.

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.

Integral nLight rSBOR control is also available to provide local or network on/off/dim control plus robust outdoor motion detection and response at up to 30' mounting heights.

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.

Warranty and Standards

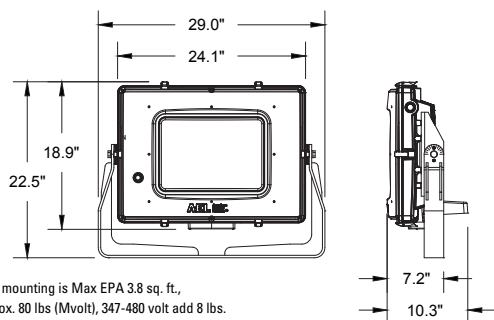
Suitable for ambient temperatures from -40C to 40C. UL/CUL Listed for wet location. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions 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.

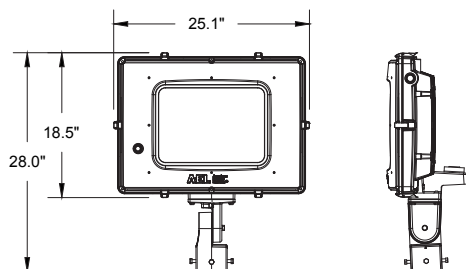
BABA — Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

DIMENSIONS



Yoke mounting is Max EPA 3.8 sq. ft.,
Approx. 80 lbs (Mvolt), 347-480 volt add 8 lbs.



Knuckle mounting Max EPA 3.8 sq. ft.,
Approx. 71 lbs (Mvolt), 347-480 volt add 8 lbs.

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ORDERING INFORMATION

Series	LED Performance Package	Voltage	Driver	Optics	Color Temperature
ACP2LED	P10 52000 Lumens P20 59000 Lumens P30 65000 Lumens P40 72000 Lumens P50 80000 Lumens	MVOLT Multiple voltage (120V - 277V) 347 347V 480 480V XVOLT 277V-480V	ZT 0-10V dimmable driver D4I D4I driver	55 Flood (5x5) 66 Wide Flood (6x6) 65 Wide Flood Rectangle (6x5)	30K 3000K CCT, 70CRI Min 40K 4000K CCT, 70CRI Min 50K 5000K CCT, 70CRI Min
Mounting Methods	Color	Surge Protection	Cord Length	Cord Type	Top Receptacle
TM Tenon Slipfitter - knuckle (cord exits bottom slipfitter) KO Tenon Slipfitter - knuckle (cord exits via knock-out) YK Yoke Painted Steel YG Yoke Galvanized Steel	GY Gray Paint BK Black Paint BZ Bronze Paint GI Graphite Paint WH White Paint	20KV 20kV/10kA w/ indicator Light Extreme Surge (fail off) MP 10kV/5kA MOV (fail on)	04 4 ft cord length 05 5 ft cord length 06 6 ft cord length 08 8 ft cord length 10 10 ft cord length	23 12 gage, 3 conductor 43 14 gage, 3 conductor 63 16 gage, 3 conductor	NTR No PER receptacle PR3 3 Pin rotatable NEMA receptacle PR7 7 Pin rotatable NEMA receptacle
Bottom Receptacle	Twist-Lock Photocontrols	Embedded Controls	Misc Options	Accessories (Shipped Separately)	
NBR No Bottom photocontrol receptacle ZRB Zhaga Receptacle on bottom of fixture	PCLL Solid State Long Life Photocontrol (fail off) PCSS Solid State Photocontrol 120-277V (fail off) (Not CSA Listed) 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 LRSBOR² nLight Air Occ. and daylight sensor (8-15FT) HRSBOR² nLight Air Occ. and daylight sensor (15-30FT)	AO¹ Field Adjustable Output XL No terminal block cover NL Nema Label TL Tool-less entry with latches BAA Buy America(n) Act and/or Build America Buy America Qualified	ACP2LEDV BKSDP Full Visor - Black Paint ACP2LEDV BZSDP Full Visor - Bronze Paint ACP2LEDV GISDP Full Visor - Graphite Paint ACP2LEDV GYSDP Full Visor - Gray Paint ACP2LEDV WHSDP Full Visor - White Paint ACP2LEDUBV BKSDP Upper/Bottom Visor - Black Paint ACP2LEDUBV BZSDP Upper/Bottom Visor - Bronze Paint ACP2LEDUBV GISDP Upper/Bottom Visor - Graphite Paint ACP2LEDUBV GYSDP Upper/Bottom Visor - Gray Paint ACP2LEDUBV WHSDP Upper/Bottom Visor - White Paint ACP2LEDVG Vandal Guard ACP2LEDWG Wire Guard	

Notes:

1. AO not available with 20kV surge option.
2. Only available with TM mount option



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OPTIONS MATRIX

ACP2LED		Voltage				Driver		Top Receptacle			Bottom Receptacle		Twist-Lock Photocontrols				Embedded Controls									
		MVOLT	347	480	XVOLT	ZT	D4i	NTR	PR3	PR7	NBR	ZRB	PCLL	PCSS	SH	DZP	ALCB	ALCC	ALCF	DDC	UBC	HRSBOR	LRSBOR	AO		
Voltage	MVOLT					Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	347					Y	N	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N	N	N	Y	Y	Y		
	480					Y	N	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N	N	N	Y	Y	Y		
	XVOLT					Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Driver	ZT	Y	Y	Y	Y			Y	Y	Y	Y	N	Y	Y	Y	N	N	N	N	N	N	Y	Y	Y		
	D4i	Y	N	N	Y			Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N			
Top Receptacle	NTR	Y	Y	Y	Y	Y	Y				Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	PR3	Y	Y	Y	Y	Y	N				Y	N	Y	Y	Y	N	N	N	N	N	N	N	N	Y		
	PR7	Y	Y	Y	Y	Y	Y				Y	N	Y	Y	Y	N	N	N	N	N	N	N	N	Y		
Bottom Receptacle	NBR	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y		
	ZRB	Y	Y	Y	Y	N	Y	Y	N	N			N	N	N	Y	N	N	N	N	N	N	N	N		
Twist-Lock Photocontrol	PCLL	Y	Y	Y	N	Y	Y	N	Y	Y	Y	N									N	N	N	N	N	Y
	PCSS	Y	N	N	N	Y	Y	N	Y	Y	Y	N									N	N	N	N	N	Y
	SH	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N									N	N	N	N	N	Y
	DZP	Y	N	N	Y	N	Y	Y	N	N	N	Y									N	N	N	N	N	N
Embedded Controls	ALCB	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N										
	ALCC	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N										
	ALCF	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N										
	DDC	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N										
	UBC	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N										
	HRSBOR	Y	Y	Y	Y	Y	N	Y	N	N	Y	N	N	N	N	N										
	LRSBOR	Y	Y	Y	Y	Y	N	Y	N	N	Y	N	N	N	N	N										
AO	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	Y	Y	Y	N											

ACP2LED		Driver/Voltage							
		MVOLT		347		480		XVOLT	
		ZT	D4i	ZT	D4i	ZT	D4i	ZT	D4i
Performance Package	P10	Y	Y	Y	N	Y	N	Y	Y
	P20	Y	Y	Y	N	Y	N	Y	Y
	P30	Y	Y	Y	N	Y	N	Y	Y
	P40	Y	Y	Y	N	Y	N	Y	Y
	P50	Y	Y	Y	N	Y	N	Y	Y

D4i Driver Option Defaults			
Setting	Receptacle / Control	Default Value	Alternate Values
DALI Power Bus	No Receptacle or Control	ON	Off
	ALCB / ALCF / ALCC	ON	none
	DDC	ON	none
	UBC	ON	none
	PR7	OFF	On
	ZRB	ON	Off
	DZP	ON	none
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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PERFORMANCE PACKAGE

ACP2LED	Distribution	Input Watts	3000K		4000K		5000K		LDD @ 25°C		
			Lumens	LPW	Lumens	LPW	Lumens	LPW	50k hours	75k hours	100k hours
P10	55	357	50,549	142	51,484	144	52,419	147	0.92	0.89	0.85
	65		51,108	143	52,053	146	52,998	148			
	66		52,042	146	53,004	148	53,966	151			
P20	55	409	56,993	139	58,047	142	59,101	144	0.92	0.89	0.85
	65		57,623	141	58,669	143	59,754	146			
	66		58,676	143	59,761	146	60,846	149			
P30	55	462	63,226	137	64,395	139	65,564	142	0.92	0.89	0.85
	65		63,925	138	65,107	141	66,289	143			
	66		65,093	141	66,296	143	67,500	146			
P40	55	521	69,845	134	71,137	136	72,428	139	0.91	0.87	0.84
	65		70,617	135	71,922	138	73,228	140			
	66		71,907	138	73,237	140	74,566	143			
P50	55	581	77,290	133	78,720	135	80,149	138	0.90	0.85	0.81
	65		78,145	134	79,584	137	81,035	139			
	66		79,573	137	81,044	139	82,515	142			

Performance Package	Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P10	357	3.0	1.7	1.5	1.3	1.1	0.8
P20	409	3.5	2.0	1.7	1.5	1.2	0.9
P30	463	3.9	2.3	2.0	1.7	1.4	1.0
P40	522	4.4	2.5	2.2	1.9	1.5	1.1
P50	581	4.9	2.8	2.4	2.1	1.7	1.2

Ambient Temperature Factor				
0°C	15°C	25°C	35°C	40°C
1.03	1.01	1.00	0.99	0.98



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