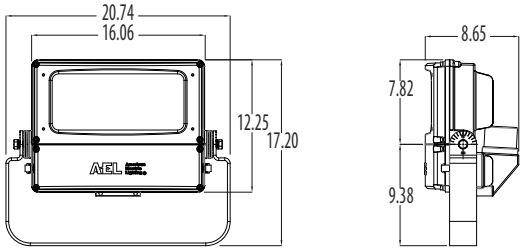
ACP0LED Series
American Compact LED Floodlight

PRODUCT OVERVIEW

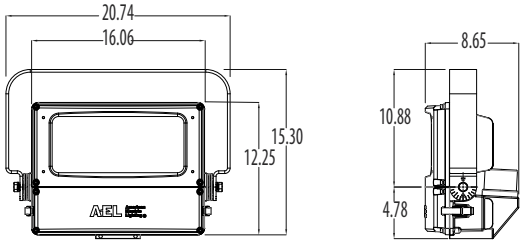


Applications:

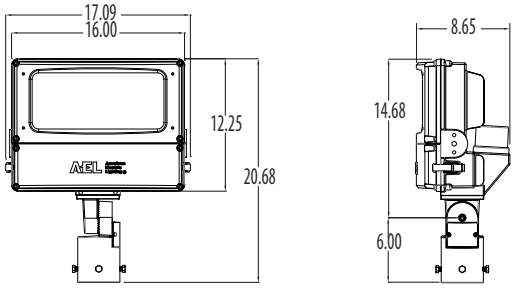
- Auto dealerships
- Schools
- Churches
- Industrial sites
- Shopping centers
- Parking lots
- Substations
- Building facades



YK/YG - Yoke Mount Luminaire EPA of 1.76 Ft^2 and max weight 30 lbs.



YE - Extended Yoke Mount Luminaire EPA of 1.76 Ft^2 and max weight 31 lbs.



TM/TS - Tenon Mount Luminaire EPA of 1.89 Ft^2 and max weight 28 lbs.

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

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

NEMA optical pattern choice of medium flood (4X4), 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.

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.

ACP0LED Series

American Compact LED Floodlight

ORDERING INFORMATION

Series

ACP0LED

LED Performance Package

P05	5,600 lumens
P10	7,500 lumens
P20	12,800 lumens
P30	18,000 lumens
P40	22,500 lumens
P50	27,700 lumens
P60	33,500 lumens

Voltage

MVOLT	Multiple voltage (120V - 277V)
347	347V
480	480V
XVOLT	277V-480V

Driver

ZT	0-10V dimmable driver
D4I	D4I driver

Optics

44	Medium Flood (4x4)
55	Flood (5x5)
66	Wide Flood (6x6)
65	Wide Flood Rectangle (6x5)

Color Temperature

30K	3000K CCT, 70CRI Min
40K	4000K CCT, 70CRI Min
50K	5000K CCT, 70CRI Min

Mounting Methods

TM	Tenon Slipfitter - knuckle (cord/ leads exit bottom slipfitter)
TS	Tenon Slipfitter - knuckle (cord exit side of slipfitter)
YK	Yoke Painted Steel
YE	Yoke Painted Steel Extended Length
YG	Yoke Galvanized Steel

Color

GY	Gray Paint
BK	Black Paint
BZ	Bronze Paint
GI	Graphite Paint
WH	White Paint

Surge Protection

20KV	20kV/10kA w/ indicator Light Extreme Surge (fail off)
MP	10kV/5kA MOV (fail on)

Cord Length

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

Cord Type

23	12 gage, 3 conductor
43	14 gage, 3 conductor
63	16 gage, 3 conductor

Top Receptacle

NTR	No PER receptacle
PR3	3 Pin rotatable NEMA receptacle
PR7	7 Pin rotatable NEMA receptacle

Bottom Receptacle

NBR	No Bottom photocontrol receptacle
ZRB	Zhaga Receptacle on bottom of fixture

Twist-Lock Photocontrols

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

Embedded Controls

ALCB	Local Connect Basic
ALCC	Local Connect Custom
ALCF	Local Connect Full
DDC	DC Connect Photocontrol
UBC	Cell Connect
LRSBOR[2]	nLight Air Occ. and daylight sensor (8-15FT)
HRSBOR[2]	nLight Air Occ. and daylight sensor (15-30FT)

Misc Options

AO	Field Adjustable Output
TL	Tool-less entry with latches
NL	Nema Label
XL	No terminal block cover and not certified
BAA	Buy America(n) Act and/or Build America Buy America Qualified

Accessories (Shipped Separately)

ACP0LEDFV BKSDP	Full Visor - Black Paint
ACP0LEDFV BZSDP	Full Visor - Bronze Paint
ACP0LEDFV GHSDP	Full Visor - Graphite Paint
ACP0LEDFV GYSDP	Full Visor - Gray Paint
ACP0LEDFV WHSDP	Full Visor - White Paint
ACP0LEDUBV BKSDP	Upper/Bottom Visor - Black Paint
ACP0LEDUBV BZSDP	Upper/Bottom Visor - Bronze Paint
ACP0LEDUBV GHSDP	Upper/Bottom Visor - Graphite Paint
ACP0LEDUBV GYSDP	Upper/Bottom Visor - Gray Paint
ACP0LEDUBV WHSDP	Upper/Bottom Visor - White Paint
ACP0LEDVG	Vandal Guard
ACP0LEDWG	Wire Guard

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

1. AO not available with 20KV surge option.
2. Requires TM mount selection.

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ACP0LED Series
American Compact LED Floodlight

OPTIONS MATRIX

ACP0LED		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	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	N	N	Y
	PCSS	Y	N	N	N	Y	Y	N	Y	Y	Y	N					N	N	N	N	N	N	N	Y
	SH	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N					N	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	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								

ACP0LED		Driver/Voltage							
		MVOLT		347		480		XVOLT	
		ZT	D4I	ZT	D4I	ZT	D4I	ZT	D4I
Performance Package	P05	Y	Y	Y	N	Y	N	N	Y
	P10	Y	Y	Y	N	Y	N	N	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	N	N	N	N	N	Y
	P60	Y	Y	N	N	N	N	N	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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ACP0LED Series

American Compact LED Floodlight

PERFORMANCE PACKAGES

Performance Package	Distribution	Input Watts	3K (3000K CCT, 70 CRI)		4K (4000K CCT, 70 CRI)		5K (5000K CCT, 70 CRI)		LLD @ 25°C		
			Lumens	LPW	Lumens	LPW	Lumens	LPW	50k Hours	75k Hours	100k Hours
P05	44	37	5,441	147	5,548	150	5,648	153	0.92	0.89	0.85
	55		5,677	153	5,789	156	5,893	159			
	65		5,248	142	5,351	145	5,448	147			
	66		5,539	150	5,649	153	5,751	155			
P10	44	52	7,271	140	7,414	143	7,548	145	0.92	0.89	0.85
	55		7,586	146	7,736	149	7,876	151			
	65		7,013	135	7,151	138	7,280	140			
	66		7,403	142	7,548	145	7,685	148			
P20	44	83	12,135	138	12,374	141	12,598	143	0.92	0.89	0.85
	55		12,663	144	12,912	147	13,145	149			
	65		11,705	133	11,936	136	12,152	138			
	66		12,356	140	12,599	143	12,827	146			
P30	44	123	17,391	141	17,733	144	18,054	147	0.92	0.89	0.85
	55		18,146	148	18,503	150	18,838	153			
	65		16,774	136	17,104	139	17,414	142			
	66		17,707	144	18,055	147	18,382	149			
P40	44	154	21,540	138	21,965	141	22,362	143	0.92	0.89	0.85
	55		22,476	144	22,919	147	23,333	150			
	65		20,777	133	21,186	136	21,569	138			
	66		21,932	141	22,364	143	22,768	146			
P50	44	201	26,719	133	27,245	136	27,738	138	0.92	0.89	0.85
	55		27,878	139	28,428	141	28,942	144			
	65		25,771	128	26,278	131	26,754	133			
	66		27,204	135	27,740	138	28,241	141			
P60	44	254	32,284	127	32,920	130	33,515	132	0.92	0.89	0.85
	55		33,685	133	34,349	135	34,970	138			
	65		31,138	123	31,752	125	32,326	127			
	66		32,870	129	33,517	132	34,123	134			

ELECTRICAL LOAD

Performance Package	Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P05	37	0.307	0.176	0.154	0.135	0.104	0.079
P10	52	0.417	0.238	0.207	0.18	0.143	0.105
P20	83	0.694	0.405	0.358	0.315	0.245	0.18
P30	123	0.995	0.574	0.501	0.442	0.349	0.254
P40	154	1.266	0.727	0.633	0.551	0.443	0.32
P50	201	1.69	0.96	0.84	0.74		
P60	254	2.31	1.33	1.15	0.999		

Luminaire 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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