



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



AutoConnect Series ACL

Roadway Lighting

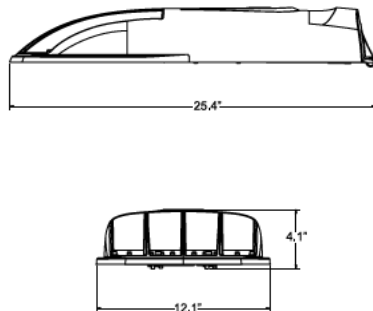
PRODUCT OVERVIEW



Applications:

Roadways
Off ramps
Residential streets
Parking lots

DIMENSIONS



Effective Projected Area (EPA)
The EPA for the ACL is 0.36 sq. ft.,
Approx. Wt. = 17 lbs. (7.7 kg)

STANDARDS

Rated for -40°C to 40°C ambient.
CSA Certified to U.S. and Canadian standards
Complies with ANSI: C136.2, C136.10, C136.31, C136.15, C136.37

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.

Features:

OPTICAL

AutoConnect utilizes the most advanced optical technology. Durable, precision optical control is obtained with new silicone materials that permit superior mold detail and denser LED population for a more visually comfortable appearance.

Silicone optics are superior to other polymeric materials in the areas of; 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. Also, because silicone allows for the molding of fine details as well as thick sections, it produces the most crisp, clean and well-defined lighting distributions available.

Silicone optics paired with modern LED's allow the AutoConnect to take full advantage of both technologies.

Lighting Performance is comparable to 250-400W HPS roadway luminaires.

Correlated color temperature - 4000K, or optional 2700K, 3000K or 5000K, all 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewall depth, providing optimal application coverage and optimal pole spacing.

Available in Type II, III, IV & V roadway distributions.

ELECTRICAL

Expected Life: 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.

Lower Energy: Saves an expected of 40-60% over comparable HID luminaires.

Robust Surge Protection: Two different surge protection options provide a minimum of ANSI C136.2 10kV/5kA or 20kV/10kA protection.

Luminaire ships with a 0-10v dimmable driver or DALI D4i driver. Luminaire is continuous and step dimming capable via AO option or other installed controls.

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation.

Rigorous pre-treatment and paint process yields a finish that achieves a scribe creepage rating of 10 (per ASTM D1654) after 5000 hours exposure to salt fog chamber (operated per ASTM B117). The optional CR finish uses an anodized basecoat with a polyester topcoat to achieve a scribe creepage rating of 10 after 10,000 hours.

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter.

Provides a 3G vibration rating per ANSI C136.31

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.

Integral nLight rSDGR control is also available to provide local or network on/off/ dim control plus robust outdoor motion detection and response at up to 40' mounting heights.

The LocalConnect 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.

The GlobalConnect option enabled thru selection of receptacles and controls provides a smart city enabled solution utilizing long range network nodes to enable remote monitoring and control. Additionally, it can be equipped with sensor-ready technology to support Zhaga standard sensors.

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.

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

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AutoConnect Series ACL

Roadway Lighting

ORDERING INFORMATION

Series	Performance Packages		Voltage	Fixture Driver	Optics
ACL AutoConnect Large LED Roadway	P801 15700 Lumens, 99 watts	P124 19800 Lumens, 124 watts	MVOLT Multi-volt, 120-277V	ZT 0V to 10V DRIVER	R2 Roadway Type II
	P802 17000 Lumens, 108 watts	P125 22000 Lumens, 142 watts	XVOLT277 277V	D4i D4i DRIVER	R3 Roadway Type III
	P803 18400 Lumens, 119 watts	P126 24000 Lumens, 157 watts	XVOLT347 347V		R4 Roadway Type IV
	P121 15000 Lumens, 89 watts	P127 26000 lumens, 170 watts	XVOLT480 480V		R5 Roadway Type V
	P122 16800 Lumens, 101 watts	P128¹ 29000 Lumens, 199 watts			
	P123 18100 Lumens, 113 watts	P129¹ 32600 Lumens, 219 watts			

Mounting Bolts

- 2B** 2 bolt mount
- 4B** 4 bolt mount

Color Temperature (CCT)

- 27K** 2700K Color Temperature
- 3K** 3000K Color Temperature
- 4K** 4000K Color Temperature
- 5K** 5000K Color Temperature

Paint

- GY** Gray, 5K hr salt spray
- BK** Black, 5K hr salt spray
- WH** White, 5K hr salt spray
- BZ** Bronze, 5K hr salt spray
- GN** Green, 5K hr salt spray
- GYCR** Gray, 10k hour salt spray
- BKCR** Black, 10k hour salt spray
- WHCR** White, 10k hour salt spray
- BZCR** Bronze, 10k hour salt spray
- GNCR** Green, 10k hour salt spray

Surge Protection

- 20K** Acuity SPD-20kV/10kA (IP65, with IL)
- MP** MOV Pack (TR parallel devices)

Notes:

1. Not available with HITEMP Option

Receptacle Top

- NTR** No top receptacle
- P7** 7-pin photocontrol receptacle
- ZRT** Zhaga receptacle on top of fixture

Receptacle Bottom

- NBR** No bottom receptacle
- ZRB** Zhaga receptacle on bottom of fixture

Optional Selections

Misc.

- BL** External Bubble Level
- XL** Not Certified - No Terminal Block Cover
- HS** House Side Shield
- NL** NEMA Label Indicating Wattage
- HITEMP** 50C Ambient Temperature Rated
- BAA** Buy America(n) Act and/or Build America Buy America Qualified

Controls

- AO** Adjustable Output Module
- PCLL** DTL DLL 120-480V Photocontrol NOT AVAILABLE WITH NR, REQUIRES P7
- SH** Shorting Cap Requires P7
- DDC** DC Connect photocontrol Requires D4i driver, NTR & NBR
- ALCF** Local Connect Full Requires D4i driver & NBR
- ALCC** Local Connect Custom Requires D4i driver & NBR
- RSDGR** nLight Motion Sensor Requires ZT driver, NTR & NBR
- UBC** Cellular Network Lighting Control Requires D4i driver & NTR

Packaging

- (Blank)** Single Unit (Standard)
- JP** Job Pack (54/pallet)



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ORDERING INFORMATION

Accessories: House side shields for field installation
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- ACL23HSS** House Side Shield for R2 & R3 Optics
- ACL45HSS** House Side Shield for R4 & R5 Optics
- ACLLRLTS** Left/Right Side Light Trespass Shield for Field Installation
- ACLHSSSLTS** House Side/Street Side Light trespass shield for field installation
- ACLCDSLTS** Cul-de-sac light trespass shield for field installation

Arm Accessories

- UMR-XX** 8" Horizontal Arm for Round Pole, Painted to match Fixture
- UMS-XX** 8" Horizontal Arm for Square Pole, Painted to match Fixture
- UMR-GALV** 8" Horizontal Arm for Round Pole Galvanized
- UMS-GALV** 8" Horizontal Arm for Square Pole, Galvanized

ATC Decorative Arms:

- ATBODECOS XX** Decorative Arm for Square Pole Painted to match fixture
- ATBODECOR XX** Decorative Arm for Round Pole Painted to match fixture

Controls Training

LCTRAIN Local Connect Remote Training; 1 day training provided by Acuity Services Team

Options Matrix

ACL		Controls								Receptacle Top			Receptacle Bottom		Driver		Other
		AO	PCLL	SH	DDC	ALCF	ALCC	RSDGR	UBC	NTR	P7	ZRT	NBR	ZRB	ZT	D4I	BL
Controls	AO		Y	Y	N	N	N	N	N	Y	Y	N	Y	N	Y	N	Y
	PCLL	Y		N	N	Y	Y	N	N	N	Y	N	Y	Y	Y	Y	Y
	SH	Y	N		N	Y	Y	N	N	N	Y	N	Y	Y	Y	Y	Y
	DDC	N	N	N		N	N	N	N	Y	N	N	Y	N	N	Y	Y
	ALCF	N	Y	Y	N		N	N	N	Y	Y	Y	Y	N	N	Y	N
	ALCC	N	Y	Y	N	N		N	N	Y	Y	Y	Y	N	N	Y	N
	RSDGR	N	N	N	N	N	N		N	Y	N	N	Y	N	Y	N	N
Receptacle Top	UBC	N	N	N	N	N	N	N		Y	N	N	Y	Y	N	Y	Y
	NTR	Y	N	N	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y
	P7	Y	Y	Y	N	Y	Y	N	N				Y	Y	Y	Y	Y
Receptacle Bottom	ZRT	N	N	N	N	Y	Y	N	N				Y	Y	N	Y	Y
	NBR	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y
	ZRB	N	Y	Y	N	N	N	N	Y	Y	Y	Y			N	Y	N
Driver	ZT	Y	Y	Y	N	N	N	Y	N	Y	Y	N	Y	N			Y
	D4I	N	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y			Y

Performance Package Matrix

ACL (Large)	MISC
	HITEMP
P801	Y
P802	Y
P803	Y
P121	Y
P122	Y
P123	Y
P124	Y
P125	Y
P126	Y
P127	Y
P128	N
P129	N

Y = Option combination is allowed
N = Option combination is not allowed



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D4i Driver Option Defaults

Setting	Receptacle Top	Receptacle Bottom	Embedded Control	Default Value	Alternate Values
DALI Power Bus	NTR	NBR	none	ON	Off
	NTR	NBR	ALCF / ALCC	ON	none
	NTR	NBR	DDC	ON	none
	NTR	ZRB	none	ON	Off
	NTR	NBR	UBC	ON	none
	NTR	ZRB	UBC	ON	none
	P7	NBR	none	ON	Off
	P7	NBR	ALCF / ALCC	ON	none
	P7	ZRB	none	ON	Off
	ZRT	NBR	none	ON	Off
	ZRT	NBR	ALCF / ALCC	ON	none
	ZRT	NBR	DDC	ON	none
	ZRT	ZRB	none	ON	Off
Dimming Type	All	All	Any	LINEAR	Logarithmic
24V AUX	All	All	Any	ON (Not Connected)	none
Scenes Data	All	All	Any	0 (blank)	01-255

*To program different settings, consult factory; RFD is required

AO Module Performance

FAO Position	% Lumen Output	% Wattage
1	20%	18%
2	33%	30%
3	46%	42%
4	58%	55%
5	69%	67%
6	80%	80%
7	89%	93%
8	100%	100%

EMBEDDED CONTROL LOCATION DEFAULTS

Control	Standard Location	Alternate Location
DC Connect DDC	Top 	Bottom (RFD)
Local Connect ALCC, ALCF	Bottom 	None
Cell Connect UBC	Top 	None



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PERFORMANCE PACKAGE

ACL Large	Distribution	Input Watts	2700K		3000K		4000/5000K		LLD @ 25°C		
			Lumens	LPW	Lumens	LPW	Lumens	LPW	50k Hours	75k Hours	100k Hours
P801	R2	99	14,215	144	14,870	150	15,725	159	0.92	0.89	0.87
	R3		14,315	145	14,935	151	15,837	160			
	R4		14,359	145	14,662	148	15,885	160			
	R5		14,839	150	15,319	155	16,417	166			
P802	R2	108	15,385	142	15,794	146	17,020	158	0.92	0.89	0.87
	R3		15,404	143	15,918	147	17,041	158			
	R4		15,422	143	15,702	145	17,062	158			
	R5		15,791	146	16,375	152	17,470	162			
P803	R2	119	16,590	139	16,895	142	18,353	154	0.92	0.89	0.87
	R3		16,494	139	17,050	143	18,350	154			
	R4		16,298	137	16,764	141	18,031	152			
	R5		16,822	141	17,500	147	18,611	156			
P121	R2	89	13,558	152	14,273	160	14,999	169	0.92	0.89	0.87
	R3		13,609	153	14,012	157	15,056	169			
	R4		13,567	152	13,928	156	15,009	169			
	R5		13,881	156	14,454	162	15,357	173			
P122	R2	101	15,170	150	15,963	158	16,783	166	0.92	0.89	0.87
	R3		15,267	151	15,869	157	16,890	167			
	R4		15,177	150	15,581	154	16,790	166			
	R5		15,655	155	16,250	161	17,319	171			
P123	R2	112	16,709	149	17,579	157	18,485	165	0.92	0.89	0.87
	R3		16,813	150	17,316	155	18,601	166			
	R4		16,658	149	17,306	155	18,429	165			
	R5		17,188	153	18,011	161	19,015	170			
P124	R2	122	18,065	148	19,025	156	19,985	164	0.92	0.89	0.87
	R3		18,090	148	18,687	153	20,013	164			
	R4		18,011	148	18,643	153	19,925	163			
	R5		18,601	152	19,391	159	20,578	169			
P125	R2	141	20,330	144	21,456	152	22,491	160	0.92	0.89	0.87
	R3		20,473	145	21,186	150	22,650	161			
	R4		20,282	144	21,093	150	22,438	159			
	R5		20,985	149	21,957	156	23,215	165			
P126	R2	155	21,929	141	23,139	149	24,260	157	0.92	0.89	0.87
	R3		21,310	137	22,789	147	24,452	158			
	R4		22,151	143	22,738	147	24,506	158			
	R5		22,623	146	23,612	152	25,028	161			
P127	R2	169	23,456	139	24,879	147	25,949	154	0.92	0.89	0.87
	R3		22,119	131	24,436	145	26,186	155			
	R4		23,546	139	24,443	145	26,049	154			
	R5		24,378	144	25,375	150	26,969	160			
P128	R2	198	26,607	134	28,132	142	29,435	149	0.92	0.89	0.87
	R3		27,304	138	27,722	140	30,206	153			
	R4		26,797	135	27,806	140	29,645	150			
	R5		27,753	140	28,916	146	30,703	155			
P129	R2	219	29,462	135	29,986	137	32,595	149	0.92	0.89	0.86
	R3		28,860	132	29,579	135	31,928	146			
	R4		28,340	129	29,212	133	31,353	143			
	R5		29,289	134	30,138	138	32,403	148			

Note: Individual fixture performance may vary. Specifications subject to change without notice.

LLD Multiplier	15C	20C	25C	30C	35C	40C
	1.02	1.01	1.00	0.99	0.98	0.97

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.



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Roadway Lighting

B.U.G. Ratings

ACL Large	Distribution	2700K			3000K			4000/5000K		
		B	U	G	B	U	G	B	U	G
P801	R2	3	0	3	3	0	3	3	0	3
	R3	2	0	3	2	0	3	2	0	3
	R4	2	0	3	2	0	3	3	0	3
	R5	4	0	2	4	0	2	4	0	3
P802	R2	3	0	3	3	0	3	3	0	3
	R3	2	0	3	2	0	3	3	0	3
	R4	3	0	3	3	0	3	3	0	3
	R5	4	0	2	4	0	2	4	0	3
P803	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	3	3	0	3	3	0	3
	R5	4	0	3	4	0	3	5	0	3
P121	R2	3	0	3	3	0	3	3	0	3
	R3	2	0	2	2	0	2	3	0	3
	R4	2	0	3	2	0	3	3	0	3
	R5	4	0	2	4	0	2	4	0	2
P122	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	3	3	0	3	3	0	3
	R5	4	0	2	4	0	2	4	0	3
P123	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	3	3	0	3	3	0	3
	R5	4	0	3	4	0	3	4	0	3
P124	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	3	3	0	3	3	0	3
	R5	4	0	3	4	0	3	5	0	3
P125	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	4	3	0	4	3	0	4
	R5	5	0	3	5	0	3	5	0	3
P126	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	4	3	0	4	3	0	4
	R5	5	0	3	5	0	3	5	0	3
P127	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	3
	R4	3	0	4	3	0	4	3	0	4
	R5	5	0	3	5	0	3	5	0	4
P128	R2	3	0	3	3	0	3	3	0	3
	R3	3	0	3	3	0	3	3	0	4
	R4	3	0	4	3	0	4	3	0	4
	R5	5	0	4	5	0	4	5	0	4
P129	R2	3	0	3	3	0	3	4	0	4
	R3	3	0	4	3	0	4	3	0	4
	R4	3	0	4	3	0	4	3	0	4
	R5	5	0	4	5	0	4	5	0	4



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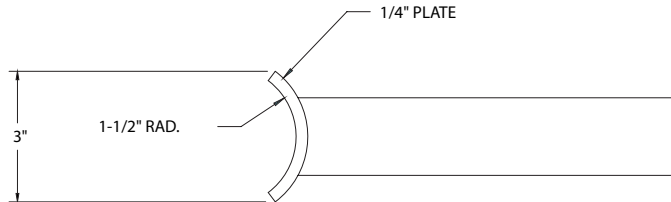
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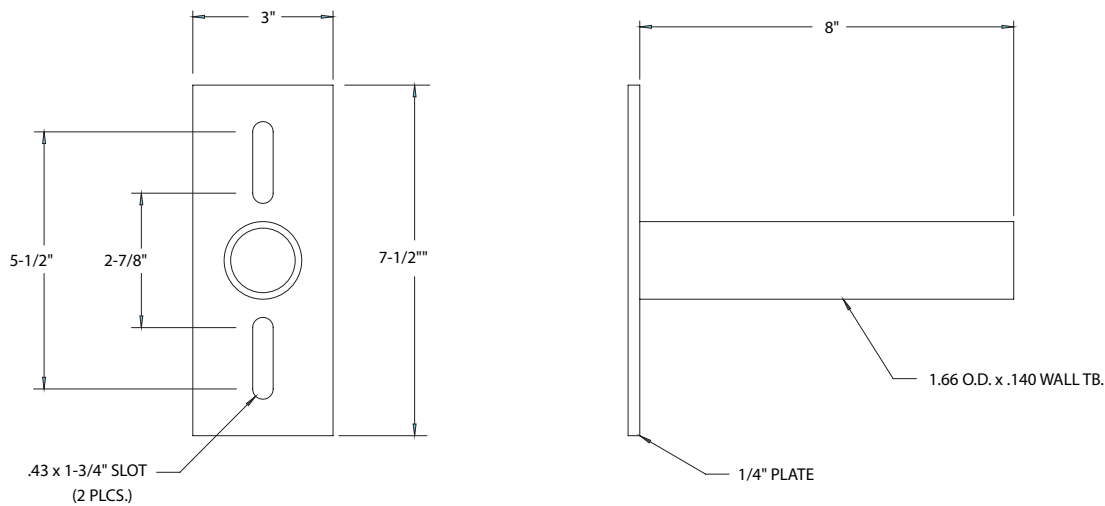
Universal Arms (Steel)

UMR POLE ADAPTOR

RECOMMENDED FOR USE WITH POLES OF 4" DIAMETER OR SMALLER



UMS POLE ADAPTOR



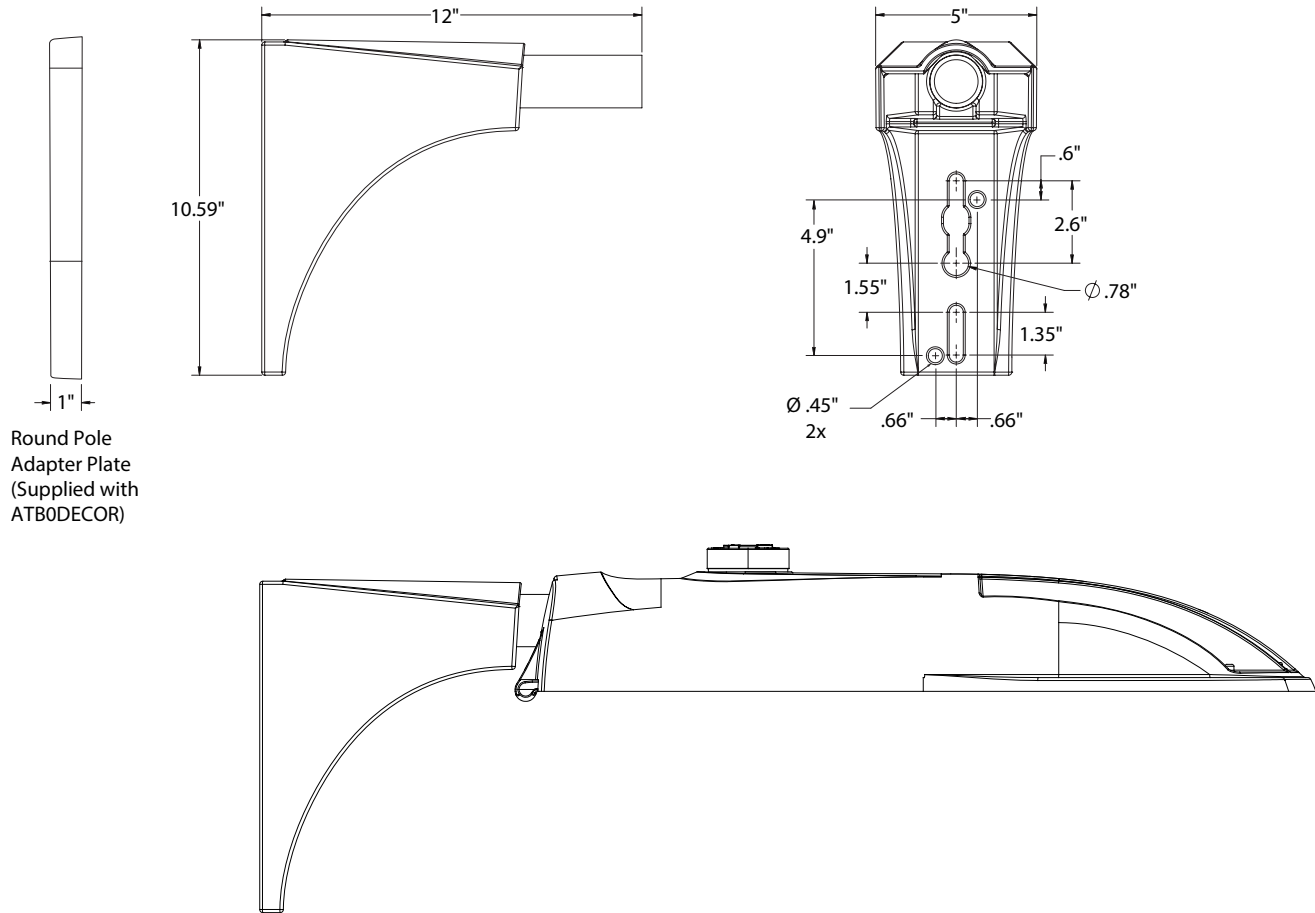
*Mounting hardware included

Arm Model	Weight	EPA
UMR or UMS	2 lbs	0.07 sq ft
UMR or UMS with ACL Luminaire	19 lbs	0.43 sq ft

AutoConnect Series ACL

Roadway Lighting

Decorative Arms (Cast Aluminum)



Round Pole
Adapter Plate
(Supplied with
ATB0DECOR)

*Mounting hardware included

Arm Model	Weight	EPA
ATB0DECOS	6.5 lbs	0.30 sq ft
ATB0DECOR	8.0 lbs	0.30 sq ft
ATB0DECOS with ACL Luminaire	23.5 lbs	0.66 sq ft
ATB0DECOR with ACL Luminaire	25.0 lbs	0.66 sq ft

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Please contact your sales representative for the latest product information.



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