

A12K-L GEN 1 AREA LIGHT

The A12K-L series delivers exceptional performance in a slim modern design. With an assortment of mounting options available, it can be used in multiple applications. A simple rotation of the lens allow to direct your light in three different directions. The A12K-L includes an easy-to-access driver compartment door. This high-end area light is a great addition to any commercial or industrial area lighting application.



FEATURES AND SPECIFICATIONS

CONSTRUCTION

Housing

Die cast aluminum housing comes standard in a black or bronze coat anti-corrosive finish. All configurations come standard with a 3 pin receptacle and shorting cap.

Mounting options

Different types of mounting brackets are available as options such as a pole arm (square or round), slipfitter, adjustable arm for a square pole and trunnion.

Optics

This luminaire is outfitted with a polycarbonate lens for even light distribution, and is offered in type III, IV and V distribution patterns. The lens is rotatable to allow for light distribution in various directions.

ELECTRICAL

Driver allows input voltage from 120-277 V 50/60 Hz, or 347 V 50/60 Hz. All drivers are dimmable 0-10 V. Available in six lumens packages in either 37 to 230 W.

- 120-277 V:
10 kV surge protection
- 347 V:
4 kV surge protection
- Ambient operating temperature range of -40°C to 40°C

COMPLIANCES

- Meets requirements of ICES-005 for class B products
- Wet location
- IP66
- IK08
- cULus

OVERVIEW			
LIGHT SOURCE	LED	COLOR TEMPERATURE [K]	3 000, 4 000, 5 000
WATTS [W]	37 - 230	CRI	70+
LUMEN OUTPUT [LM]	6 083 - 37 720	WEIGHT [LBS]	11 - 12
EFFICACY [LM/W]	161 - 182		
  LED  DIMMABLE  WET LOCATION  IP RATING  IMPACT RESISTANCE  ICES 005 			

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions.
 All products are subject to change or may be discontinued any time without notice.

A12K-L GEN 1

ORDERING GUIDE

SERIES	LAMP TYPE	LUMEN PACKAGE [W]	DISTRIBUTION TYPE	VOLTS [V]	COLOR TEMP. [K]	CASTING COLOR	MOUNTING OPTIONS	OPTIONS
A12K	L- LED	A1A ¹ - 37	3 - TYPE III 3L - TYPE III LEFT 3R - TYPE III RIGHT 4 - TYPE IV 4L - TYPE IV LEFT 4R - TYPE IV RIGHT 5 - TYPE V	2 - 120-277	30K - 3 000 50K - 5 000	BK - BLACK (STANDARD)	PA6 - 6" ARM FOR SQUARE POLE	PR7 - 7 PIN PHOTOCCELL RECEPTACLE AND SHORTING CAP
		A1B - 50		2 - 120-277	30K - 3 000 50K - 5 000	BZ - BRONZE (STANDARD)	PA6R - 6" ARM FOR ROUND POLE	KV ² - 10 KV SURGE PROTECTION
		A1 - 75		8 - 347	30K - 3 000 50K - 5 000		A - SLIPFITTER	OSI-PB-1001 ³ - OCCUPANCY SENSOR
		A2 - 115			30K - 3 000 50K - 5 000		TR - YOKE MOUNT	
		A3 - 180			30K - 3 000 40K - 4 000 50K - 5 000		AR - ADJUSTABLE ARM FOR SQUARE POLE AND WALL MOUNT	
		A4 - 230			30K - 3 000 40K - 4 000 50K - 5 000			

¹ A1A only 120-277 V.

² Apply only for 347 V as it's comes standard in 120-277 V.

³ Please consult the occupancy sensor section for the specifications.

OCCUPANCY SENSOR

PART NUMBER	POSITION	VOLTS [V]	TECHNO-LOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	DAYLIGHT MIN LEVEL	REMOTE	LOCATION [°C]
OSI-PB-1001 ¹	INTERNAL	120-347	PIR	40 MAX	100	15	50	DISABLED	OSI-FSIR-100 ²	WET, -40 TO 75

¹ Lens color options available: Black.

² To be ordered separately.

TECHNICAL SPECIFICATION CHART

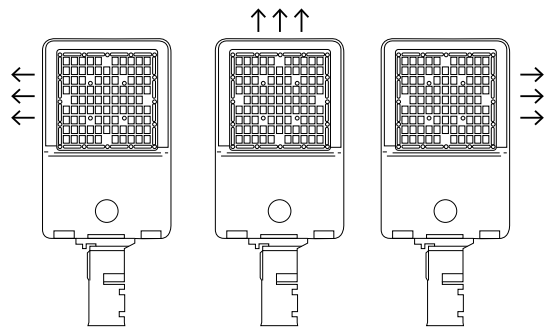
GENERAL SPECIFICATIONS														LUMEN MAINTENANCE				
LUMEN PACKAGE	TYPE OF DISTRIB.	VOLTS [V]	LED CURRENT [A]	WATTS [W]	LM	LM/W	CRI	LM	LM/W	CRI	LM	LM/W	CRI	PF	THD [%]	B.U.G.	LIFE L70 [HRS]	LM-80 [HRS]
					3 000 K			4 000 K			5 000 K							
A1A	III	37	120-277	0.775	6 083	164	70	N/A	N/A	N/A	6 263	169	70	0.994-0.802	5.03-9.158	B1-U1-G1	72 000	12 000
	IV	37	120-277	0.775	6 601	178	70	N/A	N/A	N/A	6 729	182	70	0.994-0.802	5.03-9.158	B2-U0-G1	72 000	12 000
	V	37	120-277	0.775	6 108	165	70	N/A	N/A	N/A	6 262	169	70	0.994-0.802	5.03-9.158	B3-U0-G1	72 000	12 000
A1B	III	50	120-277	1.02	8 050	161	70	N/A	N/A	N/A	8 289	166	70	0.996-0.871	5.286-8.043	B2-U1-G2	72 000	12 000
		50	347	1.033	8 104	162	70	N/A	N/A	N/A	8 345	167	70	0.907	13.626	B2-U1-G2	72 000	12 000
	IV	50	120-277	1.02	8 735	175	70	N/A	N/A	N/A	8 906	178	70	0.996-0.871	5.286-8.043	B2-U0-G2	72 000	12 000
		50	347	1.033	8 794	176	70	N/A	N/A	N/A	8 955	179	70	0.907	13.626	B2-U0-G2	72 000	12 000
	V	50	120-277	1.02	8 083	161.66	70	N/A	N/A	N/A	8 288	166	70	0.996-0.871	5.286-8.043	B3-U0-G2	72 000	12 000
		50	347	1.033	8 138	163	70	N/A	N/A	N/A	8 344	167	70	0.907	13.626	B3-U0-G2	72 000	12 000
A1	TYPE III	120-277	0.616-0.280	75	11 607	157	73.1	N/A	N/A	N/A	11 952	161	73.1	0.94	7.96	B2-U1-G2	72 000	12 000
		347	0.225	75	12 630	164	72.6	N/A	N/A	N/A	12 428	165	72.6	0.87	12.97	B2-U1-G2	72 000	12 000
	TYPE IV	120-277	0.616-0.280	75	12 600	168	70	N/A	N/A	N/A	12 840	171	70	0.94	7.96	B3-U0-G2	72 000	12 000
		347	0.225	75	12 600	168	70	N/A	N/A	N/A	12 840	171	70	0.87	12.97	B3-U0-G2	72 000	12 000
	TYPE V	120-277	0.616-0.280	75	11 654	157	70	N/A	N/A	N/A	11 949	161	70	0.94	7.96	B4-U0-G2	72 000	12 000
		347	0.225	75	12 622	165	70	N/A	N/A	N/A	12 721	166	70	0.87	12.97	B4-U0-G2	72 000	12 000
A2	TYPE III	120-277	0.961-0.425	115	18 196	155	70	N/A	N/A	N/A	18 657	159	70	0.96	8.73	B3-U0-G2	72 000	12 000
		347	0.343	115	18 082	155	70	N/A	N/A	N/A	18 332	156	70	0.92	12.36	B3-U0-G2	72 000	12 000
	TYPE IV	120-277	0.961-0.425	115	18 975	165	70	N/A	N/A	N/A	19 435	169	70	0.96	8.73	B3-U0-G3	72 000	12 000
		347	0.343	115	18 975	165	70	N/A	N/A	N/A	19 435	169	70	0.92	12.36	B3-U0-G3	72 000	12 000
	TYPE V	120-277	0.961-0.425	115	18 207	155	70	N/A	N/A	N/A	18 668	159	70	0.96	8.73	B4-U0-G2	72 000	12 000
		347	0.343	115	18 334	156	70	N/A	N/A	N/A	18 477	157	70	0.92	12.36	B4-U0-G2	72 000	12 000
A3	TYPE III	120-277	1.537-0.677	180	29 646	162	70	29 956	163	70	30 395	166	70	0.95	6.64	B3-U0-G3	72 000	12 000
		347	0.535	180	29 508	164	70	29 655	165	70	29 738	165	70	0.9	12.66	B3-U0-G3	72 000	12 000
	TYPE IV	120-277	1.537-0.677	180	29 700	165	70	30 060	167	70	30 420	169	70	0.95	6.64	B3-U0-G4	72 000	12 000
		347	0.535	180	29 700	165	70	30 060	167	70	30 420	169	70	0.9	12.66	B3-U0-G4	72 000	12 000
	TYPE V	120-277	1.537-0.677	180	29 663	162	70	29 974	164	70	30 413	166	70	0.95	6.64	B5-U0-G4	72 000	12 000
		347	0.535	180	29 741	165	70	29 889	166	70	29 973	166	70	0.9	12.66	B5-U0-G4	72 000	12 000
A4	TYPE III	120-277	1.996-0.847	230	36 426	156	70	36 809	158	70	37 348	160	70	0.97	11.08	B4-U0-G3	72 000	12 000
		347	0.678	230	36 491	158	70	36 674	159	70	36 776	159	70	0.93	10.77	B4-U0-G3	72 000	12 000
	TYPE IV	120-277	1.996-0.847	230	36 800	160	70	37 260	162	70	37 720	164	70	0.97	11.08	B4-U0-G4	72 000	12 000
		347	0.678	230	36 800	160	70	37 260	162	70	37 720	164	70	0.93	10.77	B4-U0-G4	72 000	12 000
	TYPE V	120-277	1.996-0.847	230	36 449	156	70	36 831	158	70	37 371	160	70	0.97	11.08	B5-U0-G4	72 000	12 000
		347	0.678	230	36 780	159	70	36 964	160	70	37 067	161	70	0.93	10.77	B5-U0-G4	72 000	12 000

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EPA

					
A1 & A2	Single: 0.18	2 @ 90: 0.37	2 @ 180: 0.38	3 @ 90: 0.55	4 @ 90: 0.73
A3 & A4	Single: 0.23	2 @ 90: 0.49	2 @ 180: 0.59	3 @ 90: 1.54	4 @ 90: 1.87

EASY LIGHT DISTRIBUTION



Simply rotate the lens and get different light distribution in different directions.

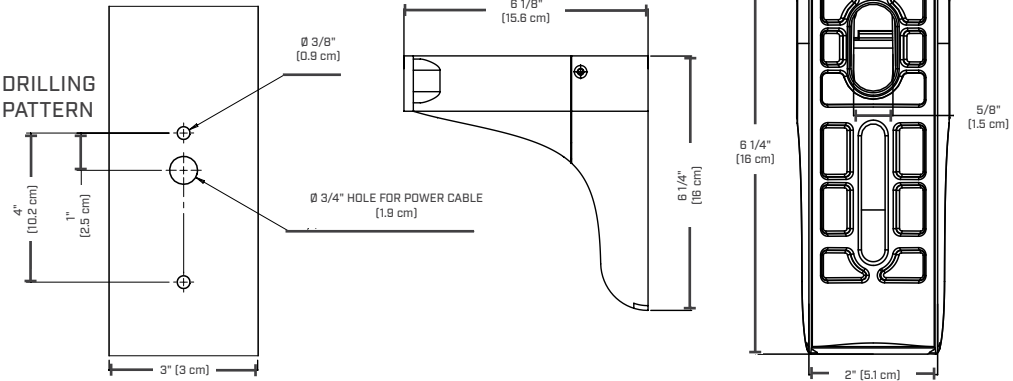
DIMENSIONS

LUMEN PACKAGE	DIMENSIONS
A1A, A1B, A1, A2	24" x 11" x 3" [60 x 27 x 7.8 cm]
A3, A4	27" x 14" x 3" [69.4 x 35 x 7.8 cm]

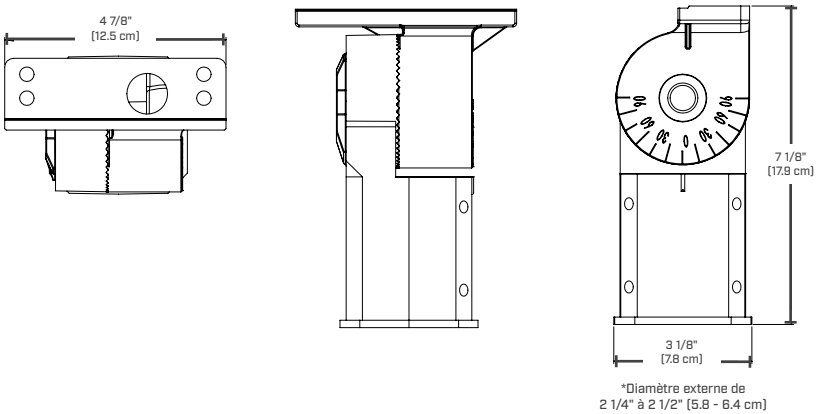
A12K-L GEN 1

MONTAGE

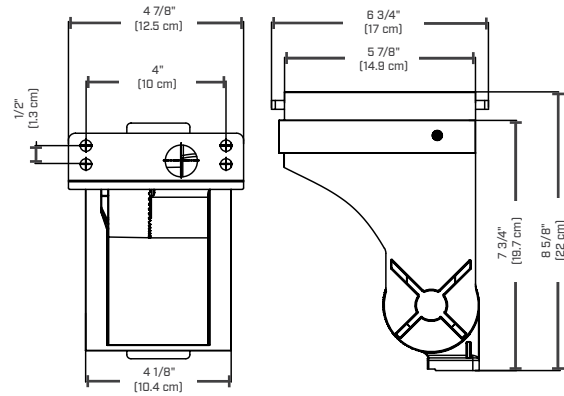
PA6/PA6R - SQUARE OR ROUND POLE ARM



A - SPLIFITTER



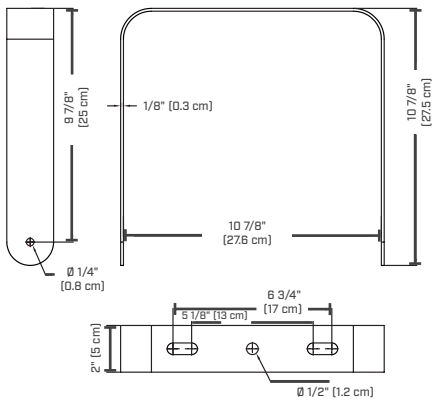
AR - ADJUSTABLE ARM FOR SQUARE POLE AND WALL MOUNT



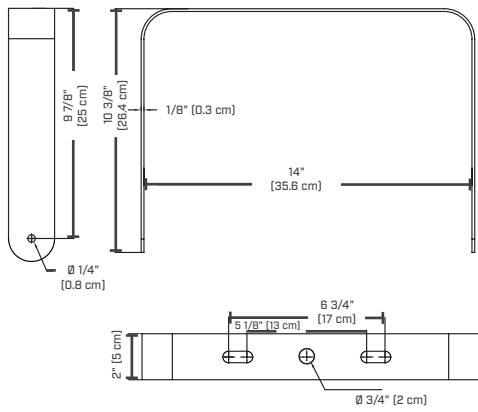
TR - YOKE



Small U shape bracket



Large U shape bracket

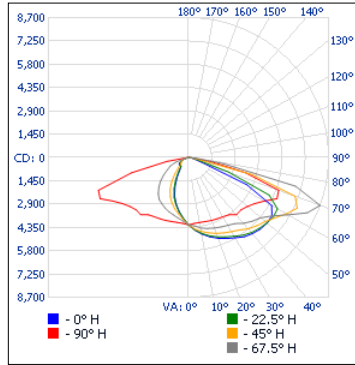


A12K-L GEN 1

PHOTOMETRIC DATA

A12K-LA23-W-40K-XX • 18 275.8 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

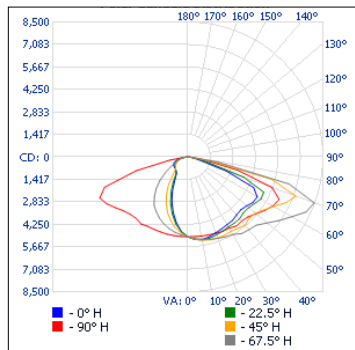
ZONE	LUMENS	% FIXTURE
0-30	3 377.5	18.5
0-40	5 771.1	31.6
0-60	12 170.5	66.6
60-90	6 105.3	33.4
70-100	2 340.7	12.8
90-120	0	0
0-90	18 275.8	100
90-180	0	0
0-180	18 275.8	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
8.3'	60.9		12.9'	48.6'
16.7'	15.0		26.0'	97.7'
25.0'	6.71		38.8'	146.3'
33.3'	3.78		51.7'	194.9'
41.7'	2.41		64.8'	244.0'
50.0'	1.68		77.7'	292.6'
■ Vert. Spread: 75.7° ■ Hor. Spread: 142.3°				

A12K-LA24-W-40K-XX • 19 198.4 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

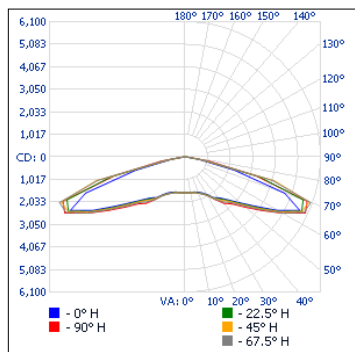
ZONE	LUMENS	% FIXTURE
0-30	3 832.2	20
0-40	6 333.7	33
0-60	12 627.0	65.8
60-90	6 571.4	34.2
70-100	2 734.0	14.2
90-120	0	0
0-90	19 198.4	100
90-180	0	0
0-180	19 198.4	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
8.3'	73.1		14.0'	47.8'
16.7'	18.1		28.3'	96.1'
25.0'	8.06		42.3'	143.9'
33.3'	4.54		56.3'	191.7'
41.7'	2.90		70.6'	240.0'
50.0'	2.01		84.6'	287.8'
Vert. Spread: 80.5° Hor. Spread: 141.7°				

A12K-LA25-W-40K-XX • 18 407.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1,488.6	8.1
0-40	2,932.8	15.9
0-60	8,898.6	48.3
60-90	9,508.9	51.7
70-100	3,946.2	21.4
90-120	0	0
0-90	18,407.5	100
90-180	0	0
0-180	18,407.5	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
8.3'	23.5		32.0'	8.6'
16.7'	5.81 f		64.4'	17.3'
25.0'	2.59		96.5'	25.9'
33.3'	1.46		128.5'	34.5'
41.7'	0.93		160.9'	43.2'
50.0'	0.65		192.9'	51.8'
■ Vert. Spread: 125.2° ■ Hor. Spread: 54.8°				

¹ Complete IES files available on our website.