



## A7104

**1 3/4" Aperture, Directional/Accent Pinhole**  
**1100, 1500, and 2100 lumen**  
**Xicato® Remote Phosphor**

### OPTICS and APPLICATIONS

The LED directional pinhole system allows true architectural aiming and control capability through a discrete 1 3/4" aperture. The optical assembly is designed with locking capability to rotate 360° and angulate from 0°- 40°. The lamp bracket is coined in 5° increments to guide vertical positioning and is secured with a thumbscrew. Products are provided standard with a Solite lens held in place by a spring loaded accessory holder that can accommodate two accessories. The optical system is deeply shielded providing a quiet appearance at the ceiling.

### DESIGN FEATURES - MultiSource® Capable

Fixture housings are designed with MultiSource® plug and play connectors allowing easy relamping. The lower trim is held in place by a torsion spring that rotates horizontally with the optical assembly to maintain alignment. Proprietary passive heat sinks ensure proper temperatures are maintained. Service from below only. Maximum ceiling thickness 7/8".

### MODULES and DRIVERS

Xicato® remote phosphor modules use high efficiency blue LEDs that convert to white light when directed through a phosphor lens. The LED module holds color consistency within 1x2 MacAdam Ellipses. Standard 80 CRI. Rated Life is 50,000 hours at 70% lumen output. Dimming is standard 0-10V/10%. See below for additional dimming options.

### FINISH

Structural parts are painted optical matte black to suppress light leaks. The face plate is matte white enamel. Steel parts are phosphate conditioned for corrosion resistance before painting.

### GENERAL

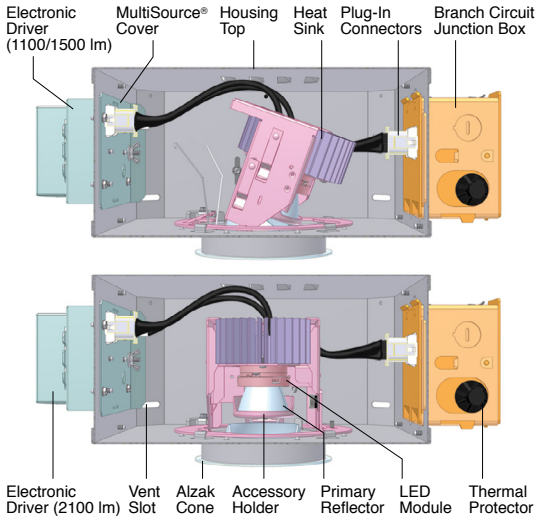
Fixture is pre-wired and thermal protected. UL and/or CSA certified to US and Canadian standards. Suitable for damp locations. Approved for eight wire 90°C branch circuit wiring. All products are union made. Designed and manufactured in the USA.

### WARRANTY

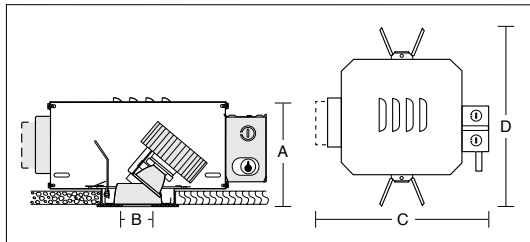
5 Year Warranty. See [www.kurtversen.com](http://www.kurtversen.com) for details or select hyperlink.

### ENERGY INFORMATION

Fixture	Module Lumens	Delivered Lumens	Wattage	lm/W
A7104	1100	468	17	27.5
	1500	638	26	24.5
	2100	894	40	22.3



### DIMENSIONS and SOURCES



Number	A Height	B Aperture	C Width*	D Length	LED Module
A7104	6 3/4" / 171mm	1 3/4" / 44mm	14 3/4" / 375mm	16 3/8" / 416mm	1100 lm or 1500 lm Xicato®
	6 3/4" / 171mm	1 3/4" / 44mm	16" / 406mm	16 3/8" / 416mm	2100 lm Xicato®

\* For 1100 lm and 1500 lm with Lutron dimming use 16".

### ORDERING GUIDE

Base Specification (required)					Options (optional)										
Example: A7104-153012D															
Model	Source Lumens	Kelvin	Volts	Dimming	CRI	Cone Color	Aperture Style	Cone Style	Factory Setting	Lens	Filter	Flush Mount	Fuse	EM	Support Rails
A7104	11 1100	27 2700K	12 120V	D Standard 0-10V, to 10%.	Standard 80 CRI AS <sup>1</sup> 95 CRI.	Standard matte white	Standard 1 3/4" round directional cone	Standard with bias cut cone	Standard adjustable	Standard Solite clear at source	HL Hexcell louver.	Standard with flange	F Fuse.	REM Remote EM. Includes battery pack, charger light, test switch for 90 minutes. Remote mount only. Ceiling access required.	R2 26" R5 52"
	15 1500	30 3000K	27 277V	D1 Hi-lume 1% 3-wire LED driver											
	21 2100	35 3500K 40 4000K		DE Hi-lume 1% EcoSystem LED driver											

### OPTION NOTES

1. Artist Series® 95 +/-3 CRI modules up to 1500 lm. Contact factory for energy information.

# A7104

Cut out dimensions: 4 5/8". Outer flange dimension: 5".

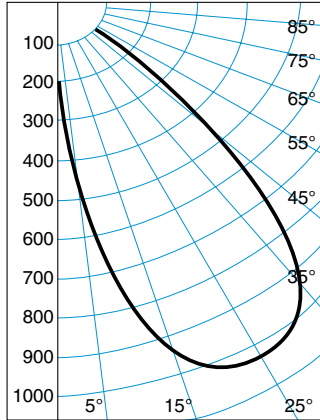
## Footcandle Values at 25° Tilt

Distance	5'			8'			10'			12'					
	0°	10°	20°	0°	10°	20°	0°	10°	20°	0°	10°	20°			
Lamps	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam
A7104 1100 lm 3000K	41	36	2'	16	14	3'	6	9	4'	4	6	4'	3	8	4'
A7104 1500 lm 3000K	56	49	2'	22	19	3'	9	12	4'	6	8	4'	4	8	4'
A7104 2100 lm 3000K	81	71	2'	33	28	3'	13	20	4'	8	12	4'	6	12	4'

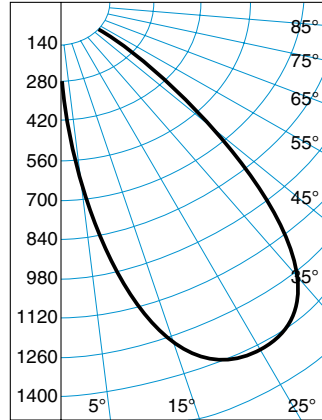
## Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane								
A7104 Xicato® 1100 lm 3000K Read Top A7104 Xicato® 1500 lm 3000K Read Middle A7104 Xicato® 2100 lm 3000K Read Bottom								Ceiling 80% Walls 50% Floor 20%								
Nadir				Spacing is Maximum Over Work Plane												
10°		20°		30°				Spacing		RCR 1		RCR 3		RCR 8		
FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC
42	33	2'	15	15	4'	1	6'	3'	46	41	34	34	49	70	70	70
59	45	2'	21	21	4'	2	6'	3'	66	60	47	43	35	50	50	50
84	64	2'	29	29	4'	3	6'	3'	94	86	68	62	50	50	50	50
30	24	2'	11	11	5'	1	8'	4'	33	30	24	24	35	50	50	50
42	33	2'	15	15	5'	1	8'	4'	47	43	35	35	50	50	50	50
60	46	2'	21	21	5'	2	8'	4'	68	62	50	50	50	50	50	50
22	18	3'	8	8	5'	1	9'	5'	25	22	18	18	26	38	38	38
32	24	3'	11	11	5'	1	9'	5'	36	32	26	26	38	50	50	50
45	35	3'	16	16	5'	2	9'	5'	51	46	38	38	50	50	50	50
17	14	3'	6	6	6'	1	10'	5'	19	17	14	14	21	29	29	29
25	19	3'	9	9	6'	1	10'	5'	28	25	21	21	29	38	38	38
35	27	3'	12	12	6'	1	10'	5'	40	36	29	29	38	50	50	50
14	11	3'	5	5	7'	0	11'	6'	15	14	11	11	16	23	23	23
20	15	3'	7	7	7'	1	11'	6'	22	20	16	16	23	32	32	32
28	22	3'	10	10	7'	1	11'	6'	32	29	23	23	32	42	42	42

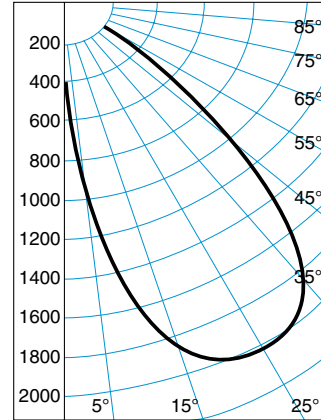
## Candlepower Distribution



A7104 Xicato® 1100 lm 3000K  
Luminous efficacy 24.0 S/M.68



A7104 Xicato® 1500 lm 3000K  
Luminous efficacy 24.0 S/M.68

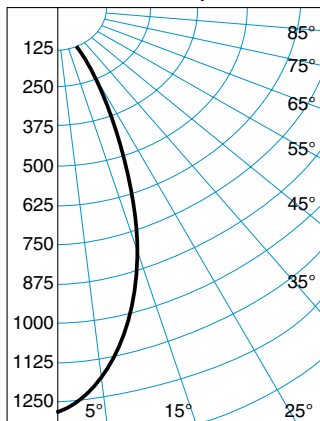


A7104 Xicato® 2100 lm 3000K  
Luminous efficacy 22.0 S/M.68

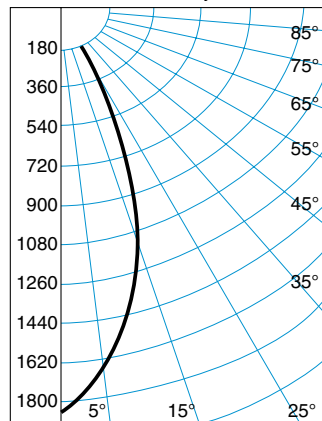
## Candelas

°	17W	24W	38W
	415*	567*	852*
0	1036	1389	2019
5	1014	1361	1981
10	947	1281	1865
15	769	1056	1524
20	476	667	981
25	193	259	419
30	53	67	129
35	14	17	33
40	8	9	14
45	2	3	4
50	1	2	3
55	1	2	2
60	1	2	2
65	0	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

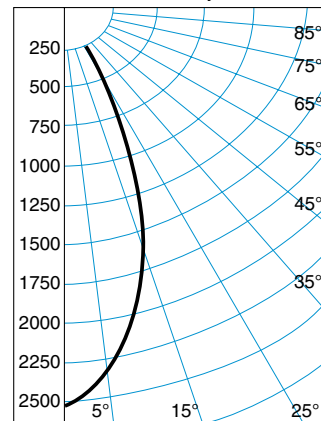
° Vertical Angles  
\* Luminaire Lumens



A7104 Xicato® 1100 lm 3000K  
Luminous efficacy 28.0 S/M.62



A7104 Xicato® 1500 lm 3000K  
Luminous efficacy 27.0 S/M.60



A7104 Xicato® 2100 lm 3000K  
Luminous efficacy 24.0 S/M.60

°	17W	24W	38W
	470*	645*	918*
0	1256	1779	2532
5	1183	1638	2328
10	1046	1439	2039
15	830	1135	1611
20	551	753	1057
25	219	307	440
30	62	87	137
35	15	20	27
40	8	9	13
45	2	2	3
50	2	1	2
55	2	1	2
60	2	1	2
65	0	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

° Vertical Angles  
\* Luminaire Lumens

## Notes

- 1 Photometric Reports Directional: KV Report No. 50514-A for 1100lm, KV Report No. 50514 for 1500 lm, KV Report No. 50514-B for 2100 lm.
- 2 Photometric Reports Downlight: KV Report No. 50614-A for 1100 lm, KV Report No. 50614 for 1500 lm, KV Report No. 50514-C for 2100 lm.