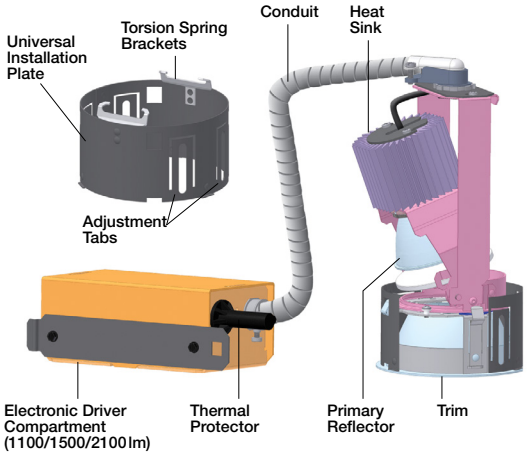




F242 Wide 38°
F244 Medium 31°
F246 Narrow 19°

3 1/2" Round Directional Downlight with Lens, Install from Below
1100, 1500 and 2100 lumen
Xicato®



OPTICS and APPLICATIONS

The directional downlights optimize output while controlling glare in both directional and downlight applications through a discreet 3" aperture. The optical assembly is designed with locking capability to rotate 360° and angulate 30° to accommodate architectural aiming and control. Primary reflectors can be interchanged in the field to address application requirements. Ceiling materials must be rigid to support fixture frame. See ordering guide for tile ceiling mounting tray and flush mount options. Use for general downlighting applications where installation from below is required.

DESIGN FEATURES - MultiSource® Capable

An installation plate is provided separate, is the same for downlight and wall wash fixture functions, and installs directly into the ceiling. Tool-less adjustment tabs easily secure and accommodate all hard ceiling types and thickness from 3/8" to 1 1/2". The frame allows for installation and service-ability from below the ceiling without jeopardizing the integrity of the ceiling. Products are designed with MultiSource® plug and play connectors allowing field conversion to other sources. New lighting technologies will be incorporated as they become available assuring continuity. Proprietary passive heat sinks ensure proper temperatures are maintained. Products are Zhaga compatible to accommodate future source options.

MODULES and DRIVERS

Xicato® modules provide excellent even, stable color and increased fixture efficiencies. The LED module holds color consistency within 1x2 MacAdam Ellipses. Standard 83 CRI. Dimming is standard 0-10V/10%. Rated life is 50,000 hours at 70% lumen output.

FINISH

Specular Alzak cones are standard. The SoftSheen™ finish is designed to mitigate color over angle. Softglow® finish and other colors are available.

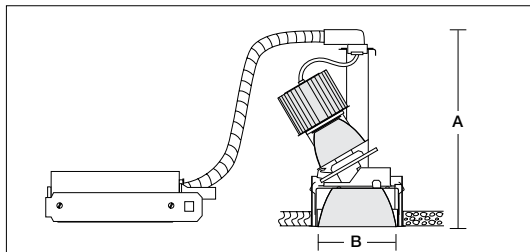
GENERAL

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 for details or select hyperlink.

DIMENSIONS and SOURCES



Number	A Height*	B Aperture	LED Module
F242	9 1/8"	3 1/2"	1100 lm, 1500 lm or 2100 lm Xicato®
F244	232mm	89mm	
F246			

*Plenum clearance required for installation: 11".

ENERGY INFORMATION

Fixture	Module Lumens	Delivered Lumens	System Watts	lm/W
F242	1100	569	14	41.0
	1500	774	18	43.0
	2100	1045	24	44.0
F244	1100	573	14	41.0
	1500	772	18	42.0
	2100	1082	24	42.0
F246	1100	369	14	26.0
	1500	528	18	29.0
	2100	695	24	29.0

ORDERING GUIDE

Base Specification (required) Example: F244-153012D					Options (optional)					
Model	Source Lumens	Kelvin	Volts	Dimming	CRI	Cone Finish	Cone Trim Color	Cone Paint	Lens Options	Mounting
F242 Wide	11 1100	27 2700K	12 120V	D Standard 0-10V, to 10%. D1 Hi-lume 1% 3-wire LED driver DE Hi-lume 1% EcoSystem LED driver to 1%. DALI DM1 0-10V to 1%. DM01 0-10V to 0.1%.	Standard 83 CRI AS ¹ 98 CRI. VS8 ² Vibrant 83 CRI. VS9 ³ Vibrant 95 CRI.	Standard Specular clear SS SoftSheen™ S Softglow®	B Black G Gold W Wheat Y Pewter	Standard clear WT White Flange. WHT White Cone, complete.	Standard Solite clear LL Linear lens. LLFR Linear lens frosted. LS Clear lens. LSFR Clear lens frosted. SOFR Solite lens frosted.	Standard IFB with flange TC Tile ceiling mounting tray. FMR3 Flush mount drywall.
	15 1500	30 3000K	27 277V							
	21 2100	35 3500K 40 4000K								
F244 Medium										
F246 Narrow										

OPTION NOTES

1. Artist Series® 98 +/-3 CRI modules. Contact factory for energy information.
2. Vibrant Series™, 83 CRI, 3000K only. Contact factory for energy information.
3. Vibrant Series™, 95 CRI, 3000K only. Contact factory for energy information.



F242 Wide 38°

Cut out dimensions: 4 1/4". Outer flange dimension: 4 1/2".

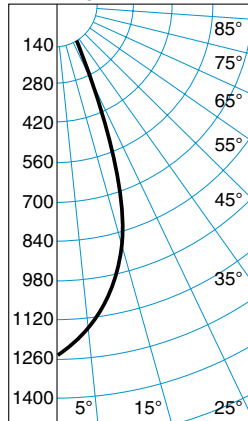
Footcandle Values at 15° Tilt

Distance	5'			8'			10'			12'		
	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°
Source	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam
F242 1100 lm	48	44	1'	37	33	3'	19	17	1'	15	14	2'
F242 1500 lm	65	62	1'	38	35	3'	26	24	1'	15	14	2'
F242 2100 lm	86	81	1'	65	61	3'	34	31	1'	26	24	2'

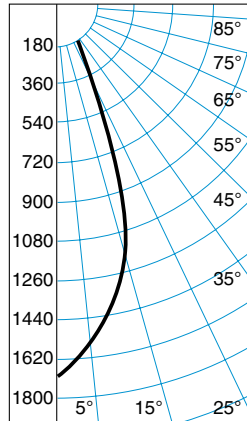
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane			
F242 Xicato® 1100 lm 3000K Read Top F242 Xicato® 1500 lm 3000K Read Middle F242 Xicato® 2100 lm 3000K Read Bottom								Ceiling 80% Walls 50% Floor 20%			
Spacing is Maximum Over Work Plane											
Nadir	10°		20°		30°		Spacing				
FC	FC	Diam	FC	Diam	FC	Diam	Spacing	RCR 1	RCR 3	RCR 8	
41	33	2'	15	4'	3	6'	4'	49	44	35	
57	45	2'	21	4'	5	6'	4'	67	60	47	
79	63	2'	29	4'	6	6'	4'	93	83	66	
30	24	2'	11	5'	2	8'	4'	35	31	25	
41	32	2'	15	5'	3	8'	4'	48	43	34	
57	45	2'	21	5'	5	8'	4'	67	60	47	
22	18	3'	8	5'	2	9'	5'	26	24	19	
30	24	3'	11	5'	2	9'	5'	36	32	25	
43	34	3'	16	5'	3	9'	5'	50	45	35	
17	14	3'	6	6'	1	10'	5'	21	18	14	
24	19	3'	9	6'	2	10'	5'	28	25	20	
33	26	3'	12	6'	3	10'	5'	39	35	28	
14	11	3'	5	7'	1	11'	6'	16	15	12	
19	15	3'	7	7'	2	11'	6'	22	20	16	
27	21	3'	10	7'	2	11'	6'	31	28	22	

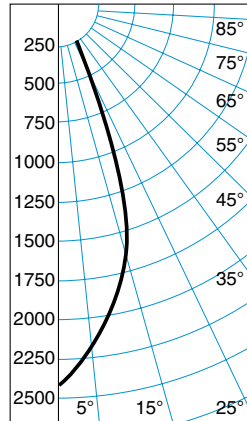
Candlepower Distribution



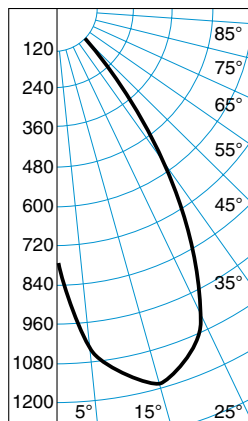
F242 Xicato® 1100 lm
3000K S/M.64
Luminous efficacy 39.0



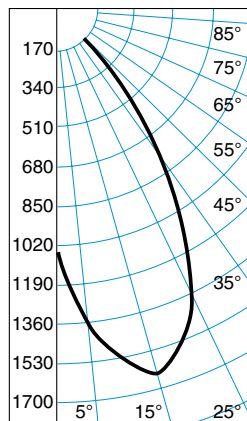
F242 Xicato® 1500 lm
3000K S/M.64
Luminous efficacy 41.0



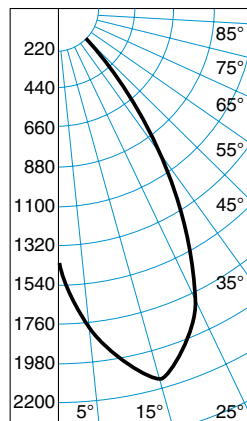
F242 Xicato® 2100 lm
3000K S/M.64
Luminous efficacy 43.0



F242 Xicato® 1100 lm
15° tilt 3000K S/M.64
Luminous efficacy 41.0



F242 Xicato® 1500 lm
15° tilt 3000K S/M.64
Luminous efficacy 43.0



F242 Xicato® 2100 lm
15° tilt 3000K S/M.64
Luminous efficacy 44.0

Candelas

°	14W	18W	24W
	542*	739*	1034*
0	1248	1715	2401
5	1142	1558	2181
10	1042	1421	1989
15	875	1193	1670
20	561	765	1071
25	283	386	541
30	156	213	298
35	69	94	132
40	15	21	29
45	3	4	5
50	2	3	4
55	2	3	4
60	2	3	4
65	2	3	4
70	2	3	4
75	2	2	3
80	2	2	3
85	0	0	0
90	0	0	0

° Vertical Angles
* Luminaire Lumens

Notes

- Photometric Reports:
F242 1100 lm KV Report No. 33916, 1500 lm KV Report No. 23916, 2100 lm KV Report No. 13916.
- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- The luminous efficacy (lm/W) refers to the total measured luminous flux (lumens) of the fixture divided by the total measured electrical input power (watts) of the complete fixture.

°	14W	18W	24W
	569*	774*	1045*
0	1188	1635	2153
5	1121	1565	2036
10	1036	1396	1816
15	773	1062	1417
20	577	789	1049
25	337	440	592
30	153	208	297
35	93	134	191
40	40	61	92
45	14	18	28
50	7	9	14
55	3	5	7
60	5	7	9
65	5	6	9
70	5	5	8
75	3	3	6
80	3	3	5
85	3	3	6
90	0	0	0

° Vertical Angles
* Luminaire Lumens

F244 Medium 31°

Cut out dimensions: 4 1/4". Outer flange dimension: 4 1/2".

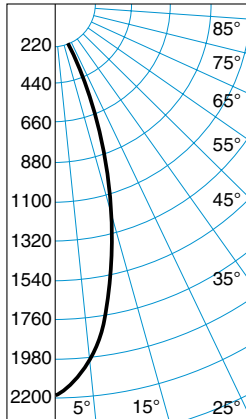
Footcandle Values at 15° Tilt

Distance	5'			8'			10'			12'										
	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°								
Source	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam					
F244 1100 lm	80	75	1'	61	3'	3'	29	1'	24	4'	20	19	2'	15	5'	14	13	2'	11	6'
F244 1500 lm	108	102	1'	81	3'	3'	40	1'	32	4'	27	25	2'	20	5'	19	18	2'	14	6'
F244 2100 lm	143	137	1'	110	3'	3'	54	1'	43	4'	36	34	2'	27	5'	25	24	2'	19	6'

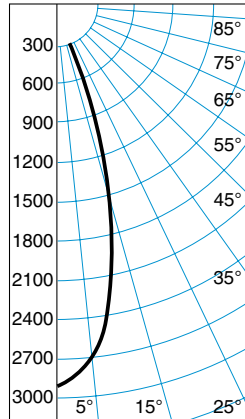
Performance Datachart

Single Unit Initial Footcandles, 30° Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30° Work Plane			
F244 Xicato® 1100 lm 3000K Read Top F244 Xicato® 1500 lm 3000K Read Middle F244 Xicato® 2100 lm 3000K Read Bottom								Ceiling 80% Walls 50% Floor 20%			
Spacing is Maximum Over Work Plane											
Nadir	10°	20°	30°					Spacing	RCR 1	RCR 3	RCR 8
FC	FC	Diam	FC	Diam	FC	Diam					
71	53	2'	13	4'	0	6'					
96	73	2'	17	4'	1	6'					
135	102	2'	24	4'	1	6'					
51	38	2'	9	5'	0	8'					
69	52	2'	12	5'	0	8'					
97	73	2'	17	5'	1	8'					
38	29	3'	7	5'	0	9'					
52	39	3'	9	5'	0	9'					
73	55	3'	13	5'	0	9'					
30	22	3'	5	6'	0	10'					
40	30	3'	7	6'	0	10'					
56	43	3'	10	6'	0	10'					
24	18	3'	4	7'	0	11'					
32	24	3'	6	7'	0	11'					
45	34	3'	8	7'	0	11'					

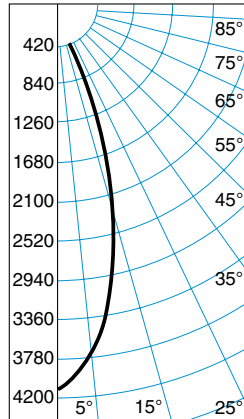
Candlepower Distribution



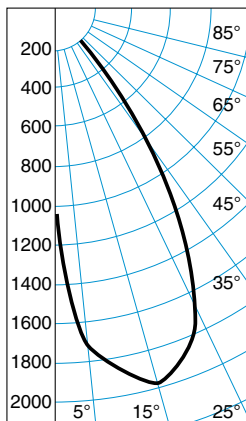
F244 Xicato® 1100 lm
3000K S/M.54
Luminous efficacy 41.0



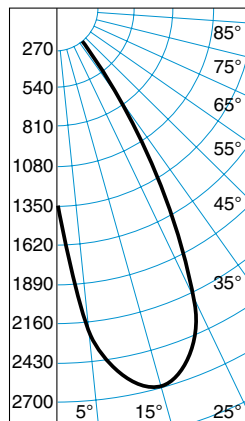
F244 Xicato® 1500 lm
3000K S/M.54
Luminous efficacy 43.0



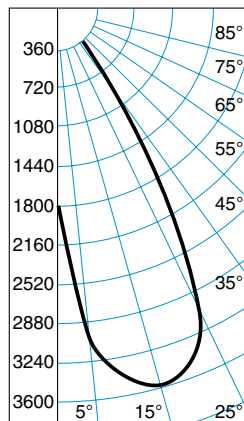
F244 Xicato® 2100 lm
3000K S/M.54
Luminous efficacy 45.0



F244 Xicato® 1100 lm
15° tilt 3000K S/M.52
Luminous efficacy 41.0



F244 Xicato® 1500 lm
15° tilt 3000K S/M.52
Luminous efficacy 43.0



F244 Xicato® 2100 lm
15° tilt 3000K S/M.52
Luminous efficacy 42.0

Candelas

o	14W	18W	24W
	570*	775*	1086*
0	2138	2915	4081
5	1954	2665	3731
10	1687	2300	3221
15	1138	1551	2172
20	458	625	875
25	96	131	183
30	21	29	40
35	10	14	20
40	7	9	13
45	4	6	8
50	2	2	3
55	2	2	3
60	2	2	3
65	2	2	3
70	2	2	3
75	2	2	3
80	2	2	3
85	0	0	0
90	0	0	0

o Vertical Angles
* Luminaire Lumens

Notes

- Photometric Reports:
F244 1100 lm KV Report No. 22916, 1500 lm KV Report No. 23916, 2100 lm KV Report No. 31116.
- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- The luminous efficacy (lm/W) refers to the total measured luminous flux (lumens) of the fixture divided by the total measured electrical input power (watts) of the complete fixture.

o	14W	18W	24W
	573*	772*	1082*
0	1990	2697	3580
5	1897	2572	3467
10	1691	2244	3042
15	1006	1347	1797
20	432	597	760
25	148	223	258
30	34	52	56
35	15	20	27
40	11	13	18
45	8	9	13
50	6	6	9
55	5	5	8
60	6	6	9
65	6	6	9
70	5	6	8
75	4	4	6
80	4	4	5
85	4	5	7
90	0	0	0

o Vertical Angles
* Luminaire Lumens

F246 Narrow 19°

Cut out dimensions: 4 1/4". Outer flange dimension: 4 1/2".

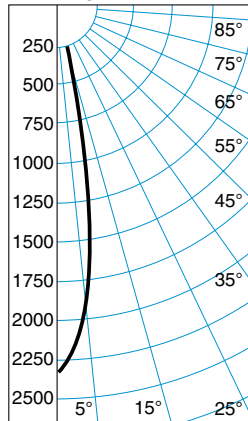
Footcandle Values at 15° Tilt

Distance	5'			8'			10'			12'		
	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°
Source	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam
F246 1100 lm	91	73	1'	36	29	1'	14	23	18	9	6'	6'
F246 1500 lm	124	101	1'	52	39	1'	20	31	25	13	6'	9
F246 2100 lm	162	131	1'	66	51	1'	26	41	33	17	6'	11

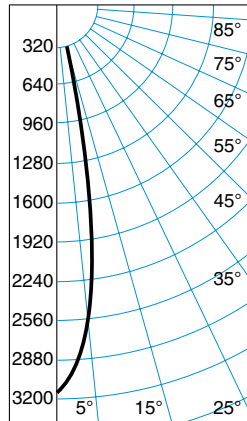
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane					Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane			
F246 Xicato® 1100 lm 3000K Read Top F246 Xicato® 1500 lm 3000K Read Middle F246 Xicato® 2100 lm 3000K Read Bottom									Ceiling 80% Walls 50% Floor 20%			
Nadir									Spacing is Maximum Over Work Plane			
10°					Spacing				RCR 1			
20°					RCR 3				RCR 8			
30°												
FC	FC	Diam	FC	Diam	FC	Diam	FC	Diam	FC	Diam	FC	Diam
76	34	2'	6	4'	0	6'	2'	120	110	94		
104	46	2'	8	4'	0	6'	2'	164	150	128		
146	65	2'	12	4'	1	6'	2'	230	209	179		
55	24	2'	4	5'	0	8'	2'	86	78	67		
74	33	2'	6	5'	0	8'	2'	118	107	92		
104	47	2'	8	5'	0	8'	2'	164	150	128		
41	18	3'	3	5'	0	9'	3'	65	59	50		
56	25	3'	5	5'	0	9'	3'	88	80	69		
78	35	3'	6	5'	0	9'	3'	124	113	96		
32	14	3'	3	6'	0	10'	3'	50	46	39		
44	19	3'	4	6'	0	10'	3'	69	63	54		
61	27	3'	5	6'	0	10'	3'	96	88	75		
26	11	3'	2	7'	0	11'	3'	40	37	31		
35	16	3'	3	7'	0	11'	3'	55	50	43		
49	22	3'	4	7'	0	11'	3'	77	70	60		

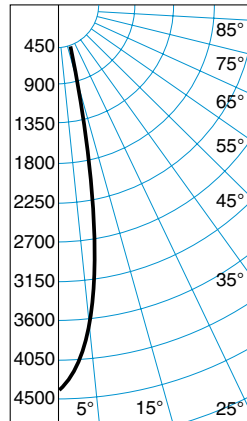
Candlepower Distribution



F246 Xicato® 1100 lm
3000K S/M .34
Luminous efficacy 27.0



F246 Xicato® 1500 lm
3000K S/M .34
Luminous efficacy 28.0



F246 Xicato® 2100 lm
3000K S/M .34
Luminous efficacy 30.0

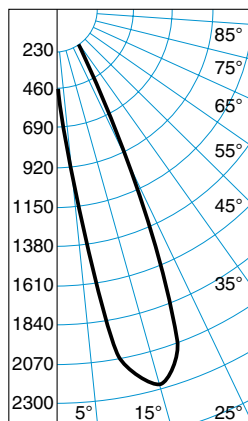
Candelas

o	14W	18W	24W
	372*	508*	771*
0	2307	3146	4405
5	1897	2587	3622
10	1078	1470	2058
15	560	764	1070
20	225	307	430
25	37	51	71
30	15	20	28
35	11	15	21
40	7	10	14
45	4	6	8
50	2	3	4
55	2	3	4
60	2	3	4
65	0	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

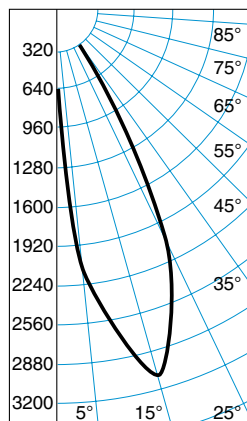
o Vertical Angles
* Luminaire Lumens

Notes

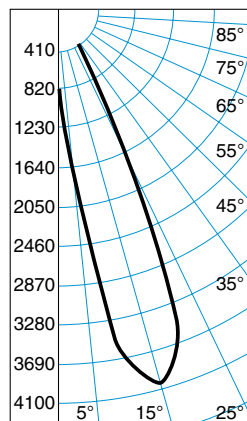
- Photometric Reports:
F246 1100 lm KV Report No. 63916, 1500 lm KV Report No. 53916, 2100 lm KV Report No. 43916.
- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- The luminous efficacy (lm/W) refers to the total measured luminous flux (lumens) of the fixture divided by the total measured electrical input power (watts) of the complete fixture.



F246 Xicato® 1100 lm
15° tilt 3000K S/M .32
Luminous efficacy 26.0



F246 Xicato® 1500 lm
15° tilt 3000K S/M .34
Luminous efficacy 29.0



F246 Xicato® 2100 lm
15° tilt 3000K S/M .32
Luminous efficacy 29.0

o	14W	18W	24W
	369*	528*	695*
0	2281	3102	4050
5	1849	2556	3317
10	1008	1430	1833
15	444	644	840
20	229	335	452
25	97	151	197
30	24	38	46
35	13	18	24
40	9	14	19
45	7	10	15
50	4	7	11
55	3	5	10
60	5	8	11
65	4	5	9
70	4	5	8
75	2	3	5
80	2	3	5
85	0	0	0
90	0	0	0

o Vertical Angles
* Luminaire Lumens