



F2333 Wide 46°
F2335 Medium 29°
F2337 Narrow 23°

4 3/8" Round Directional Downlights with Lens
4000 and 5000 lumen
Xicato®

OPTICS and APPLICATIONS

High lumen directional downlights optimize output while controlling glare in both directional and downlight applications. The optical assembly is designed with locking capability to rotate 360° and angulate 35° to accommodate architectural aiming and control in horizontal and sloped ceiling applications. Products are provided standard with a Solite lens.

DESIGN FEATURES - MultiSource® Capable

The open housing top construction utilizes rigid steel parts to protect the LED optical components while providing adequate ventilation for passive cooling. Products are designed with MultiSource® plug and play connectors allowing field conversion to other sources. Components are Zhaga compatible to accommodate future source options. Proprietary heat sinks ensure proper temperatures are maintained. The lower cone is keyed to the optical assembly to assure center point alignment at any position. Service from below only. Maximum ceiling thickness 1 1/2".

MODULES and DRIVERS

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

FINISH

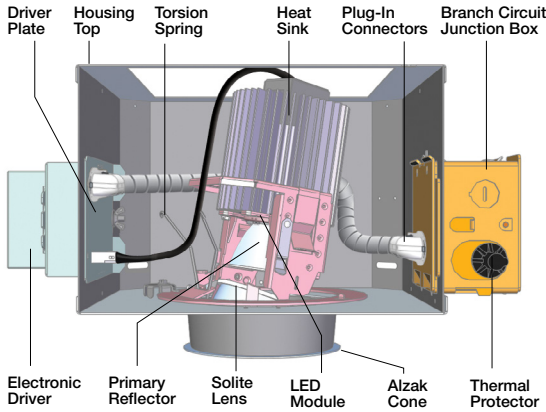
Specular Alzak cones are standard. The SoftSheen™ finish is designed to mitigate color over angle. Softglow® finish and other colors are available.

GENERAL

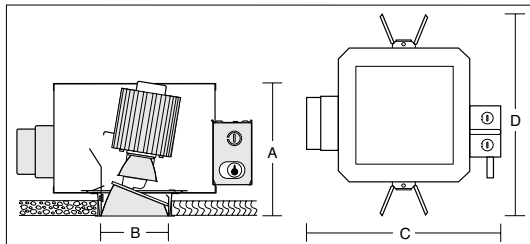
Fixture is pre-wired and thermal protected. UL and/or CSA certified to US and Canadian standards. Suitable for wet locations covered ceiling mount only. Approved for eight wire 90°C branch circuit wiring. All products are union made. Designed and manufactured in the USA.

WARRANTY

5 Year Warranty. See www.kurtversen.com for details or select hyperlink.



DIMENSIONS and SOURCES



Number	A Height	B Aperture	C Width	D Length	LED Module
F2333	9"	4 3/8"	15 3/4"	16 1/8"	4000 lm or 5000 lm Xicato®
F2335	228mm	111mm	400mm	409mm	
F2337					

Open housing top construction

ENERGY INFORMATION

Fixture	Module Lumens	Delivered Lumens	System Watts	lm/W
F2333	4000	2686	45	59.7
	5000	3152	56	56.3
F2335	4000	2846	45	63.2
	5000	3365	56	60.1
F2337	4000	2691	45	59.8
	5000	3056	56	54.6

Data recorded at 15 degree tilt.

ORDERING GUIDE

Base Specification (required) Example: F2335-403012D				Options (optional)											
Model	Source Lumens	Kelvin	Volts	Dimming	CRI	Cone Finish	Cone Color	Cone Paint	Cone Style	Factory Settings	Lens Options	Flush Mount	Fuse	EM	Support Rails
F2333 Wide	40 4000 50 5000	27 2700K 30 3000K	12 120V 27 277V	D Standard 0-10V, to 10%.	Standard 83 CRI	Standard	Standard clear	Standard clear	Standard with bias cut directional cone.	Standard adjustable	Standard Solite Clear on cone	Standard with flange	F3 Fuse.	REM Remote EM. Includes battery pack, charger light, test switch for 90 minutes. Remote mount only. Ceiling access required.	R2 26" R5 52"
F2335 Medium	35 3500K 40 4000K	35 3500K 40 4000K		D1 ¹ Hi-lume 1% 3-wire LED driver. DE ¹ Hi-lume 1% EcoSystem LED driver 0-10V to 1%.	VS8 ² Vibrant 83 CRI.	SS SoftSheen™ S Softglow®	B Black G Gold W Wheat Y Pewter	WT White Flange. WHT White Cone, complete. BT Black Flange.	STC Straight top cone.	DP Fixed Downlight Position.	SOFR Solite lens frosted. LL Linear lens. LLFR Linear lens frosted. LS Clear lens LSFR Clear lens frosted.	FMR4 Flush mount drywall.			Products designated FMR4 provided with FMBKT
F2337 Narrow				DM1 0-10V to 1%. DM01 0-10V to 0.1%. DALI to 1%. DMX ³ DMX Enabled.											

OPTION NOTES

1. Available with 4000 lumen option only.
2. Vibrant Series™, 83 CRI, 3000K only. Contact factory for energy information.
3. Not available with REM option.



F2333 Wide 46°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

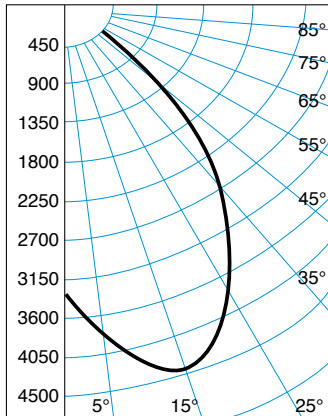
Performance Datachart

Distance	8'			10'			12'			14'												
	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							
F2333 4000 lm 3000K	69	64	1'	55	4'		44	41	2'	35	5'		31	28	2'	24	6'	23	21	2'	18	8'
F2333 5000 lm 3000K	84	78	1'	55	4'		54	50	2'	35	5'		37	34	2'	24	6'	28	25	2'	18	8'

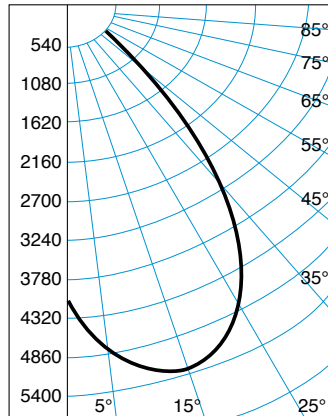
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane			
F2333 Xicato® 4000 lm 3000K Read Top Data								Ceiling 80% Walls 50% Floor 20%			
F2333 Xicato® 5000 lm 3000K Read Bottom Data								Spacing is Maximum Over Work Plane			
Nadir	10°	20°	30°					Spacing	RCR 1	RCR 3	RCR 8
FC	FC	Diam	FC	Diam	FC	Diam					
113	97	2'	72	4'	35	6'	8'	5'	112	98	73
138	117	2'	87	4'	42	6'		5'	142	124	92
81	69	2'	51	5'	25	8'	9'	6'	81	70	52
99	84	2'	62	5'	30	8'		6'	102	89	66
61	52	3'	39	5'	19	9'	10'	7'	60	53	39
74	63	3'	47	5'	23	9'		7'	76	67	50
47	41	3'	30	6'	15	10'	11'	8'	47	41	31
58	49	3'	36	6'	18	10'		8'	59	52	39
38	32	3'	24	7'	12	11'	12'	9'	38	33	24
46	39	3'	29	7'	14	11'		9'	48	42	31

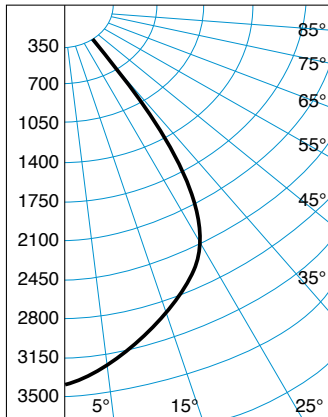
Candlepower Distribution



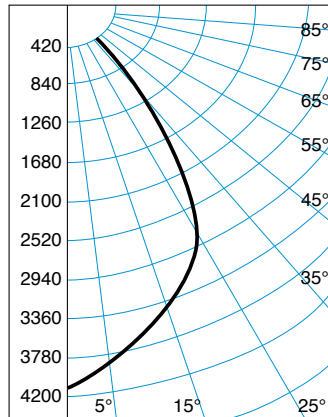
F2333 Xicato® 4000lm 3000K
15° Tilt
Luminous efficacy 60.0 S/M .74



F2333 Xicato® 5000lm 3000K
15° Tilt
Luminous efficacy 56.0 S/M .72



F2333 Xicato® 4000lm 3000K
Luminous efficacy 60.0 S/M .94



F2333 Xicato® 5000lm 3000K
Luminous efficacy 58.0 S/M .92

Candelas

o	45W	56W
	2686*	3152*
0	4442	5391
5	4139	5019
10	3772	4582
15	3309	3902
20	2675	3106
25	1899	2237
30	1187	1392
35	563	652
40	258	287
45	93	95
50	35	34
55	16	14
60	11	10
65	9	9
70	7	7
75	6	6
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

o	45W	56W
	2708*	3275*
0	3429	4181
5	3245	3949
10	3066	3711
15	2861	3463
20	2622	3167
25	2269	2754
30	1631	1953
35	737	889
40	215	265
45	51	65
50	17	21
55	11	14
60	8	9
65	7	8
70	7	7
75	5	6
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2333 4000 lm 15° Tilt
KV Report No. 102016-C,
5000 lm 15° Tilt KV Report No. 102016-B,
4000 lm KV Report No. 102516,
5000 lm KV Report No. 102516-A,
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact
factory.
- Single unit Datachart pattern
diameters are determined by the
number of degrees from each side
of nadir. Therefore a 15° diameter
represents a total 30° pattern width
at the work plane. Footcandle values
are at the edge of that diameter.
- 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.

F2335 Medium 29°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

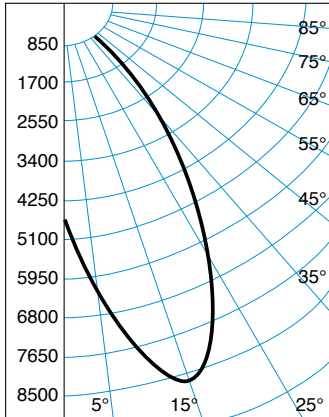
Performance Datachart

Distance	8'			10'			12'			14'		
	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°	Nadir	5°	15°
Source	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam
F2335 4000 lm 3000K	133	118 1'	58 4'	85	75 2'	37 5'	59	52 2'	26 6'	43	38 2'	19 8'
F2335 5000 lm 3000K	152	134 1'	66 4'	98	86 2'	42 5'	68	59 2'	29 6'	50	44 2'	22 8'

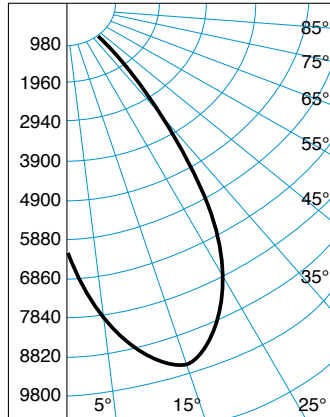
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane			
F2335 Xicato® 4000 lm 3000K Read Top Data F2335 Xicato® 5000 lm 3000K Read Bottom Data								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					FC	FC Diam	FC Diam	FC Diam
285	187 2'	80 4'	17 6'	8'				3'	472	421	337
350	230 2'	98 4'	21 6'					3'	577	520	412
204	134 2'	57 5'	12 8'	9'				3'	338	302	241
250	164 2'	70 5'	15 8'					3'	413	372	295
153	100 3'	43 5'	9 9'	10'				4'	254	227	181
188	124 3'	53 5'	11 9'					4'	310	280	222
120	78 3'	34 6'	7 10'	11'				4'	198	176	141
146	96 3'	41 6'	9 10'					4'	242	218	173
96	63 3'	27 7'	6 11'	12'				5'	158	141	113
117	77 3'	33 7'	7 11'					5'	193	174	138

Candlepower Distribution



F2335 Xicato® 4000 lm 3000K
15° Tilt
Luminous efficacy 63.0 S/M .50



F2335 Xicato® 5000 lm 3000K
15° Tilt
Luminous efficacy 60.0 S/M .50

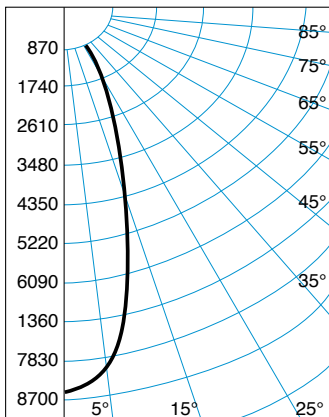
Candelas

°	45W	56W
	2846*	3365*
0	8510	9758
5	7621	8664
10	5971	6811
15	4096	4693
20	2750	3195
25	1564	1909
30	702	992
35	251	349
40	97	132
45	42	56
50	23	27
55	16	16
60	11	10
65	9	7
70	7	6
75	6	4
80	0	0
85	0	0
90	0	0

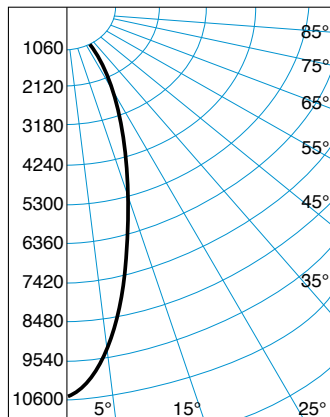
°Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2335 4000 lm 15° Tilt
KV Report No. 102016,
5000 lm 15° Tilt KV Report No. 112316,
4000 lm KV Report No. 102516-C,
5000 lm KV Report No. 102516-B,
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact
factory.
- Single unit Datachart pattern
diameters are determined by the
number of degrees from each side
of nadir. Therefore a 15° diameter
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at the work plane. Footcandle values
are at the edge of that diameter.
- 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.



F2335 Xicato® 4000 lm 3000K
Luminous efficacy 65.0 S/M .48



F2335 Xicato® 5000 lm 3000K
Luminous efficacy 64.0 S/M .48

°	45W	56W
	2396*	3590*
0	8634	10580
5	7572	9319
10	5908	7275
15	4116	5067
20	2927	3569
25	1773	2165
30	807	979
35	218	261
40	82	98
45	42	49
50	25	28
55	15	17
60	10	11
65	8	8
70	7	7
75	6	6
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

F2337 Narrow 23°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

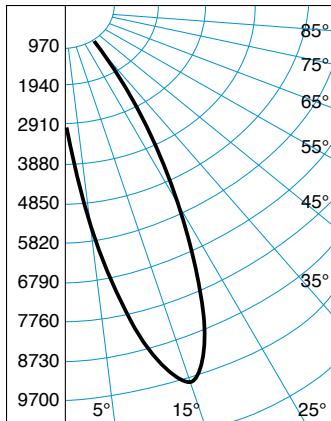
Performance Datachart

Distance	8'			10'			12'			14'												
	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							
F2337 4000 lm 3000K	152	131	1'	51	4'	4'	97	84	2'	33	5'	5'	67	58	2'	23	6'	50	43	2'	17	8'
F2337 5000 lm 3000K	178	148	1'	57	4'	4'	114	95	2'	36	5'	5'	79	66	2'	25	6'	58	48	2'	19	8'

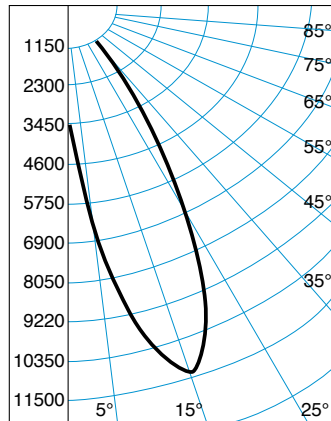
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane					
F2337 Xicato® 4000 lm 3000K Read Top Data								Ceiling 80% Walls 50% Floor 20%					
F2337 Xicato® 5000 lm 3000K Read Bottom Data								Spacing is Maximum Over Work Plane					
Nadir	10°	20°	30°					Spacing	RCR 1	RCR 3	RCR 8		
FC	FC	FC	FC					FC	Diam	FC	Diam	FC	Diam
342	185	2'	71	4'	15	6'	8'	2'	648	584	474		
415	225	2'	87	4'	19	6'		2'	787	710	577		
245	132	2'	51	5'	11	8'	9'	3'	464	418	340		
297	161	2'	62	5'	13	8'		3'	564	508	413		
184	99	3'	38	5'	8	9'	10'	3'	348	314	255		
223	121	3'	47	5'	10	9'		3'	423	382	310		
143	77	3'	30	6'	6	10'	11'	3'	271	245	199		
174	94	3'	36	6'	8	10'		3'	330	297	241		
114	62	3'	24	7'	5	11'	12'	4'	217	196	159		
139	75	3'	29	7'	6	11'		4'	264	238	193		

Candlepower Distribution



F2337 Xicato® 4000 lm 3000K
15° Tilt
Luminous efficacy 60.0 S/M .42



F2337 Xicato® 5000 lm 3000K
15° Tilt
Luminous efficacy 55.0 S/M .40

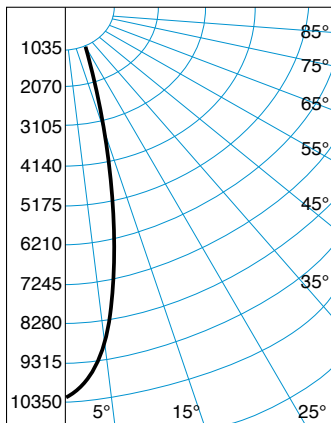
Candelas

°	45W	56W
	2691*	3056*
0	9716	11413
5	8459	9604
10	5874	6510
15	3653	4026
20	2458	2663
25	1414	1533
30	617	812
35	212	311
40	83	120
45	38	53
50	21	29
55	13	17
60	9	11
65	7	8
70	6	6
75	5	5
80	0	0
85	0	0
90	0	0

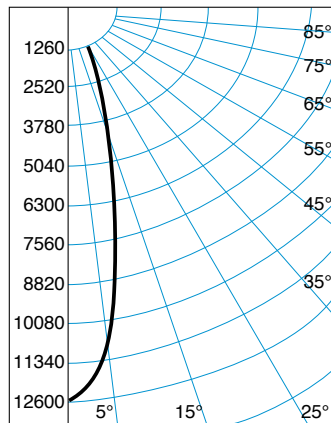
°Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2337 4000 lm 15° Tilt
KV Report No. 101916,
5000 lm 15° Tilt KV Report No. 112116,
4000 lm KV Report No. 102516-D,
5000 lm KV Report No. 102516-E.
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact
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- Single unit Datachart pattern
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the total measured luminous flux
(lumens) of the fixture divided by the
total measured electrical input power
(watts) of the complete fixture.



F2337 Xicato® 4000 lm 3000K
Luminous efficacy 62.0 S/M .40



F2337 Xicato® 5000 lm 3000K
Luminous efficacy 61.0 S/M .40

°	45W	56W
	2800*	3403*
0	10333	12542
5	8686	10552
10	5859	7119
15	3714	4513
20	2602	3164
25	1588	1932
30	710	864
35	183	222
40	68	83
45	38	46
50	26	32
55	17	21
60	10	12
65	7	9
70	6	7
75	5	6
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens