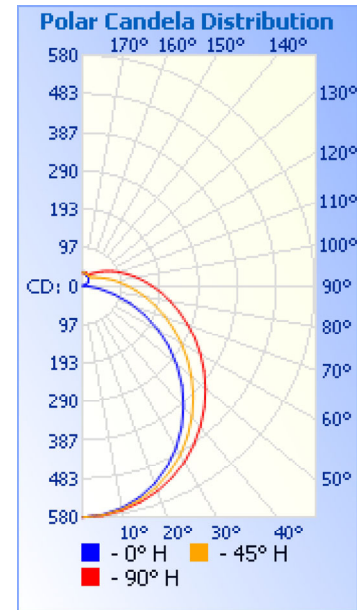


Photometrics Pro

Luminaire Photometric Report

Filename: SES-VF-3FT-36 W #10271
Manufacturer: SARIN Energy Inc
Luminaire: SES-VF-3FT-36 W
Lamp: LED
Lamp Cat: LED
Lamp Output: 1 lamp, rated Lumens/lamp: 2189.3
Max Candela: 577.8 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.89
Luminous Opening: Rectangle w/Luminous Sides (L: 35.43", W: 5.91", H: 3.15")
Test: LCZP15060004
Test Date: 2015-06-04
Test Lab: LCTECH
Photometry : Type C



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE II, VERY SHORT	
Max Cd, 90 Deg Vert:	172.0	
Max Cd, 80 to <90 Deg:	221.5	
	Lumens	% Lamp
Downward Street Side:	940.3	42.9%
Downward House Side:	940.3	42.9%
Downward Total:	1,880.6	85.9%
Upward Street Side:	153.9	7%
Upward House Side:	153.9	7%
Upward Total:	307.7	14.1%
Total Lumens:	2,188.3	100%

Flood Summary

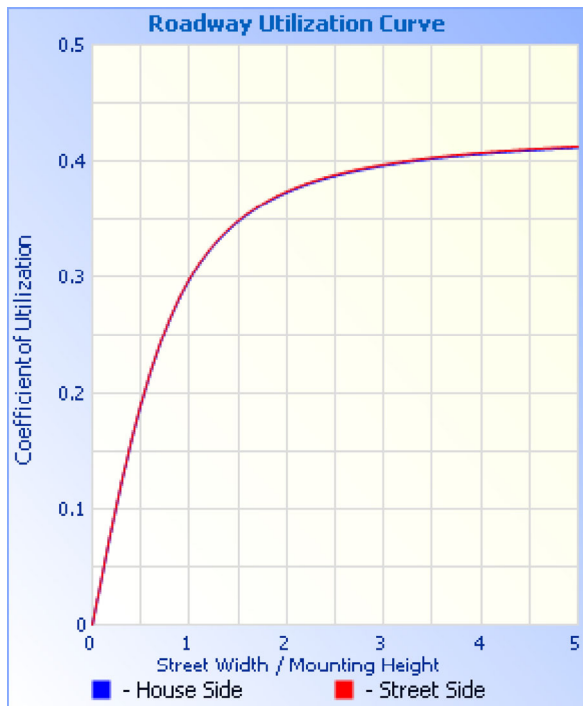
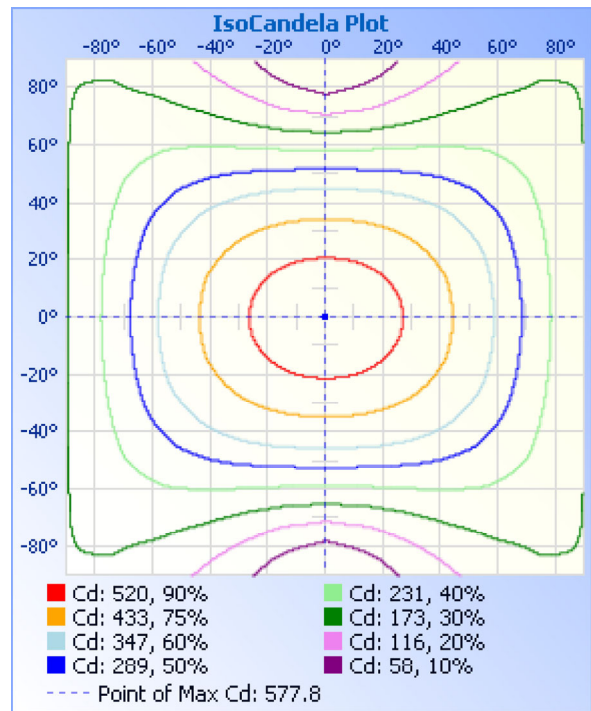
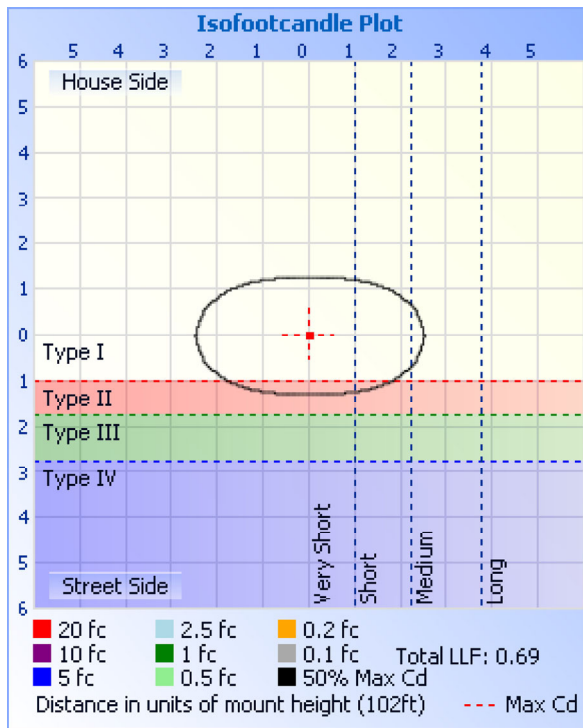
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	93.6%	2,048.1	n/a	156
Beam (50%):	60.5%	1,324.5	136.4	103.9
Total:	100%	2,188.2		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	446.4	20.4%	20.4%
0-40	731.6	33.4%	33.4%
0-60	1,315.9	60.1%	60.1%
60-90	564.1	25.8%	25.8%
70-100	415.0	19%	19%
90-120	205.7	9.4%	9.4%
0-90	1,880.0	85.9%	85.9%
90-180	307.8	14.1%	14.1%
0-180	2,187.8	99.9%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	54.5	2.5%	90-100	93.4	4.3%
10-20	155.9	7.1%	100-110	65.8	3%
20-30	235.9	10.8%	110-120	46.5	2.1%
30-40	285.3	13.0%	120-130	33.3	1.5%
40-50	300.5	13.7%	130-140	24.4	1.1%
50-60	283.8	13.0%	140-150	18.5	0.8%
60-70	242.5	11.1%	150-160	13.8	0.6%
70-80	187.7	8.6%	160-170	8.8	0.4%
80-90	133.9	6.1%	170-180	3.1	0.1%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	2.07 fc	42.6 ft	83.5 ft
33.3ft	0.52 fc	85.0 ft	166.4 ft
50.0ft	0.23 fc	127.7 ft	249.9 ft
66.7ft	0.13 fc	170.3 ft	333.4 ft
83.3ft	0.08 fc	212.7 ft	416.3 ft
100.0ft	0.06 fc	255.3 ft	499.8 ft

Vert. Spread: 103.9°
 Horiz. Spread: 136.4°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.16	1.16	1.16	1.16	1.11	1.11	1.11	.86	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1	1.03	.98	.93	.88	.99	.94	.89	.68	.87	.83	.80	.81	.78	.75	.75	.73	.70	.67
2	.93	.84	.77	.70	.89	.81	.74	.56	.75	.69	.65	.70	.65	.61	.65	.61	.58	.55
3	.85	.73	.65	.58	.81	.71	.63	.47	.66	.59	.53	.61	.55	.51	.57	.52	.48	.45

4	.77	.65	.55	.48	.74	.62	.54	.40	.58	.51	.45	.54	.48	.43	.50	.45	.41	.38
5	.71	.57	.48	.41	.68	.56	.47	.35	.52	.44	.39	.48	.42	.37	.45	.40	.35	.33
6	.65	.52	.42	.36	.62	.50	.41	.30	.47	.39	.34	.44	.37	.32	.41	.35	.31	.29
7	.60	.47	.38	.31	.58	.45	.37	.27	.42	.35	.30	.40	.33	.29	.37	.32	.27	.25
8	.56	.42	.34	.28	.54	.41	.33	.24	.39	.32	.26	.36	.30	.25	.34	.29	.24	.22
9	.52	.39	.31	.25	.50	.38	.30	.22	.36	.29	.24	.33	.27	.23	.32	.26	.22	.20
10	.49	.36	.28	.23	.47	.35	.27	.20	.33	.26	.21	.31	.25	.21	.29	.24	.20	.18

Candela Table - Type C

	0	15	30	45	60	75	90
0	578	578	578	578	578	578	578
5	573	574	575	575	575	576	576
10	563	564	566	566	568	569	569
15	546	547	550	553	556	558	559
20	525	526	530	535	540	544	545
25	497	499	505	512	520	526	527
30	465	468	476	486	496	504	507
35	430	433	443	456	469	480	483
40	391	395	408	424	440	454	456
45	350	355	370	389	409	425	428
50	306	313	331	354	377	395	399
55	261	270	291	318	344	365	369
60	216	226	252	283	312	333	338
65	170	184	214	249	280	302	308
70	125	142	178	217	249	271	278
75	81	104	145	186	220	242	249
80	42	71	116	158	192	214	222
85	13	45	91	133	167	189	196
90	1	27	71	111	144	165	172
95	2	18	55	93	124	143	150
100	4	13	44	78	106	124	131
105	7	12	35	65	90	107	113
110	10	12	30	55	77	92	98
115	13	13	26	46	66	79	84
120	16	15	24	40	56	67	72
125	18	17	23	35	48	58	62
130	19	19	23	32	42	50	53
135	21	21	23	29	37	43	45
140	23	23	24	28	34	38	40
145	25	26	26	28	31	34	36
150	27	27	28	29	30	32	33
155	27	28	29	30	31	31	32
160	27	28	29	31	32	33	33
165	29	30	30	31	32	33	34
170	32	31	32	32	32	33	34
175	35	34	34	34	33	32	30
180	33	33	33	33	33	33	33

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LCZP15060004
[TESTDATE] 2015-06-04
[TESTLAB] LCTECH
[ISSUE DATE]
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-VF-3FT-36 W
[LAMPCAT] LED
[LAMP] LED
[_TOTALLUMINAIRELUMENS] 2187.8
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 7
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.