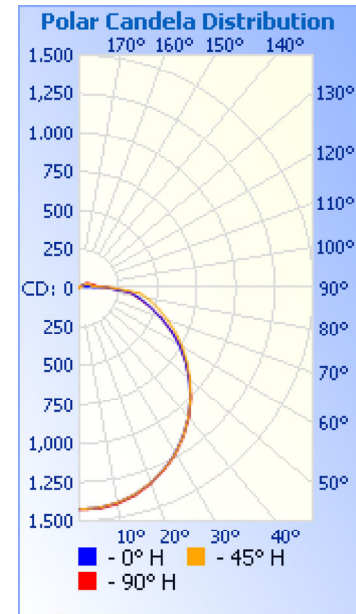


Photometrics Pro

Luminaire Photometric Report

Filename: T-Bar Panel 2x2 40W FL22
Manufacturer: SARIN Energy Inc
Luminaire: LED Luminaries
Luminaire Cat: SES-FL22-XXXX-40
Lamp Output: 1 lamp, rated Lumens/lamp: 5223.9
Max Candela: 1,432.8 at Horizontal: 90°, Vertical: 5°
Input Wattage: 41.46
Luminous Opening: Rectangle w/Luminous Sides (L: 22.83", W: 22.83", H: 0.39")
Test Date: 2019/11/8
Test Lab: LCTECH 191107108010
Photometry : Type C

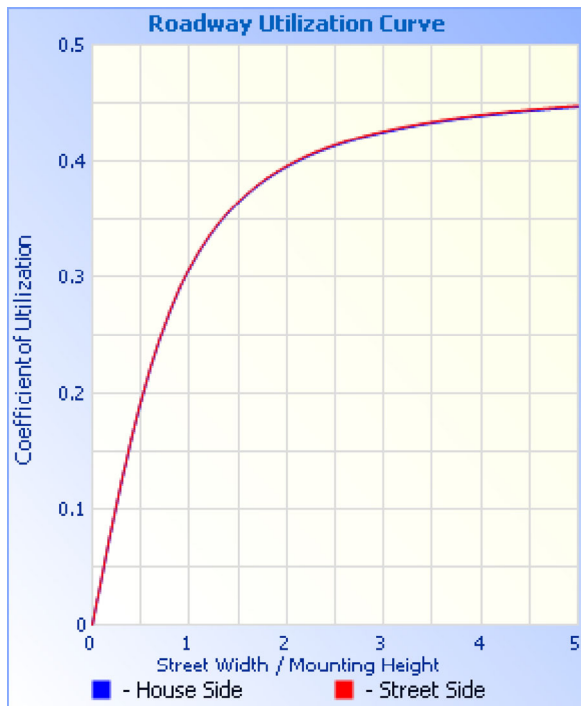
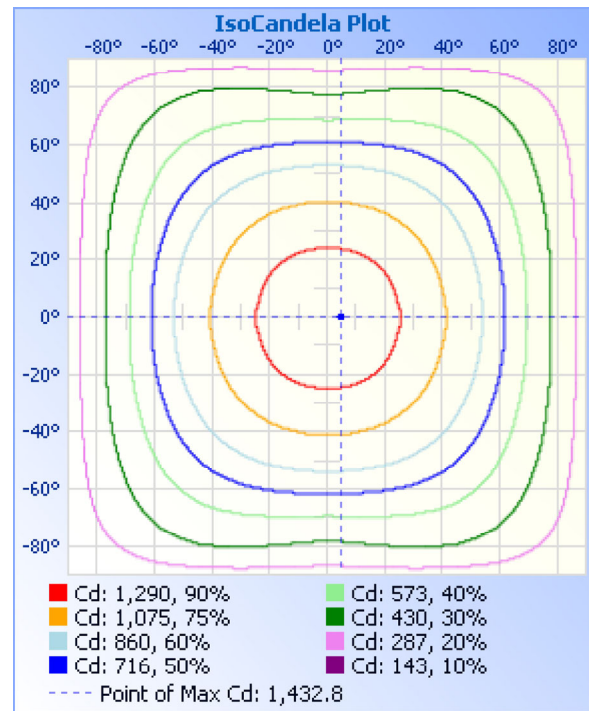
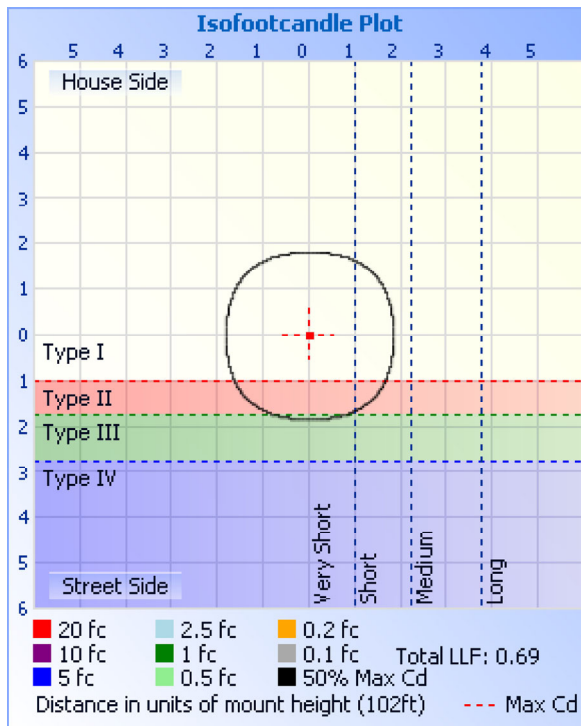


Roadway Summary		
Cutoff Classification:	SEMICUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	206.8	
Max Cd, 80 to <90 Deg:	462.9	
	Lumens	% Lamp
Downward Street Side:	2,468.4	47.3%
Downward House Side:	2,468.4	47.3%
Downward Total:	4,936.8	94.5%
Upward Street Side:	142.4	2.7%
Upward House Side:	142.4	2.7%
Upward Total:	284.8	5.5%
Total Lumens:	5,221.6	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.3%	4,980.5	n/a	182.8
Beam (50%):	67.4%	3,520.6	123	122.7
Total:	99.9%	5,221.0		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,118.1	21.4%	21.4%
0-40	1,845.1	35.3%	35.3%
0-60	3,373.3	64.6%	64.6%
60-90	1,562.2	29.9%	29.9%
70-100	1,021.7	19.6%	19.6%
90-120	244.4	4.7%	4.7%
0-90	4,935.4	94.5%	94.5%
90-180	284.9	5.5%	5.5%
0-180	5,220.3	99.9%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	135.3	2.6%	90-100	119.9	2.3%
10-20	389.0	7.5%	100-110	73.2	1.4%
20-30	593.7	11.4%	110-120	51.3	1%
30-40	727.0	13.9%	120-130	27.5	0.5%
40-50	777.7	14.9%	130-140	7.2	0.1%
50-60	750.5	14.4%	140-150	2.0	0%
60-70	660.4	12.6%	150-160	1.9	0%
70-80	534.3	10.2%	160-170	1.4	0%
80-90	367.5	7.0%	170-180	0.6	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	5.13 fc	61.1 ft	61.5 ft
33.3ft	1.29 fc	121.9 ft	122.7 ft
50.0ft	0.57 fc	183.1 ft	184.2 ft
66.7ft	0.32 fc	244.2 ft	245.7 ft
83.3ft	0.21 fc	305.0 ft	306.9 ft
100.0ft	0.14 fc	366.2 ft	368.4 ft

■ Vert. Spread: 122.7°
 ■ Horiz. Spread: 123.0°

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	1.18	1.18	1.18	1.18	1.14	1.14	1.14	.94	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1	1.05	.99	.93	.89	1.01	.96	.91	.74	.90	.86	.83	.86	.82	.79	.81	.78	.76	.73
2	.94	.85	.77	.70	.91	.82	.75	.61	.78	.72	.66	.73	.68	.64	.70	.65	.62	.59
3	.85	.73	.64	.57	.82	.71	.63	.50	.68	.60	.55	.64	.58	.53	.61	.56	.51	.49

4	.78	.65	.55	.48	.75	.63	.54	.43	.60	.52	.46	.57	.50	.45	.54	.48	.43	.41
5	.71	.57	.48	.41	.69	.56	.47	.37	.53	.45	.39	.51	.44	.38	.48	.42	.37	.35
6	.66	.52	.42	.35	.63	.50	.41	.32	.48	.40	.34	.46	.39	.33	.44	.37	.33	.30
7	.61	.47	.37	.31	.59	.46	.37	.29	.43	.36	.30	.42	.35	.29	.40	.34	.29	.27
8	.57	.42	.34	.28	.55	.42	.33	.25	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9	.53	.39	.30	.25	.51	.38	.30	.23	.36	.29	.24	.35	.28	.24	.34	.28	.23	.21
10	.49	.36	.28	.22	.48	.35	.27	.21	.34	.27	.22	.32	.26	.21	.31	.25	.21	.19

Candela Table - Type C

	0	15	30	45	60	75	90
0	1430	1430	1430	1430	1430	1430	1430
5	1425	1424	1424	1424	1424	1424	1433
10	1408	1407	1408	1407	1408	1406	1416
15	1379	1378	1380	1378	1379	1378	1388
20	1338	1338	1339	1339	1340	1337	1346
25	1287	1287	1289	1289	1290	1287	1294
30	1228	1228	1231	1230	1232	1227	1234
35	1161	1161	1163	1163	1162	1160	1166
40	1088	1087	1089	1088	1089	1085	1093
45	1007	1006	1009	1008	1010	1005	1012
50	921	922	926	928	925	921	923
55	832	835	844	845	842	834	836
60	741	746	758	763	757	745	745
65	650	658	674	683	673	657	651
70	557	573	596	605	596	569	558
75	472	492	520	531	521	490	468
80	395	421	452	463	450	416	389
85	328	353	381	390	376	345	321
90	174	182	202	207	204	184	184
95	54	62	76	91	107	111	112
100	27	35	60	79	88	94	97
105	69	59	66	73	79	80	84
110	60	51	57	63	67	68	73
115	51	45	44	53	53	58	61
120	43	39	30	40	40	48	52
125	36	32	23	19	31	40	43
130	26	22	12	3	18	29	33
135	12	8	3	3	4	12	16
140	3	3	3	3	3	3	3
145	3	3	3	3	3	3	3
150	4	4	4	4	4	4	4
155	4	4	4	4	4	4	4
160	4	4	5	4	5	4	4
165	5	5	5	5	5	5	4
170	5	5	5	5	5	5	5
175	6	6	6	6	6	6	6
180	6	6	6	6	6	6	6

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2019/11/8
[TESTLAB] LCTECH 191107108010
[ISSUE DATE] 2019/11/8
[MANUFAC] SARIN Energy Inc
[LUMCAT] SES-FL22-XXXX-40
[LUMINAIRE] LED Luminaires
[_TOTALLUMINAIRELUMENS] 5220.3
[LUMELE] 120.02 0.35 41.46 0.9873
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.