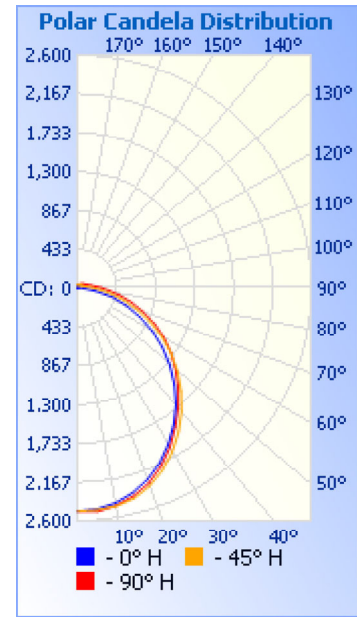


Photometrics Pro

Luminaire Photometric Report

Filename: Tri-Proof 5ft 40W TP15
Manufacturer: SARIN Energy Inc.
Luminaire: SES-TP15-5000-80 (5 Ft)
Lamp: LED
Lamp Cat: LED
Lamp Output: 1 lamp, rated Lumens/lamp: 7473.8
Max Candela: 2,514.0 at Horizontal: 90°, Vertical: 5°
Input Wattage: 77.65
Luminous Opening: Rectangle w/Luminous Sides (L: 56.69", W: 3.15", H: 1.18")
Test: LCZP14120308
Test Date: 2015-1-3
Test Lab: LCTECH
Photometry : Type C



Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	261.9	
Max Cd, 80 to <90 Deg:	474.3	
	Lumens	% Lamp
Downward Street Side:	3,550.7	47.5%
Downward House Side:	3,550.7	47.5%
Downward Total:	7,101.4	95%
Upward Street Side:	183.6	2.5%
Upward House Side:	183.6	2.5%
Upward Total:	367.2	4.9%
Total Lumens:	7,468.7	99.9%

Flood Summary

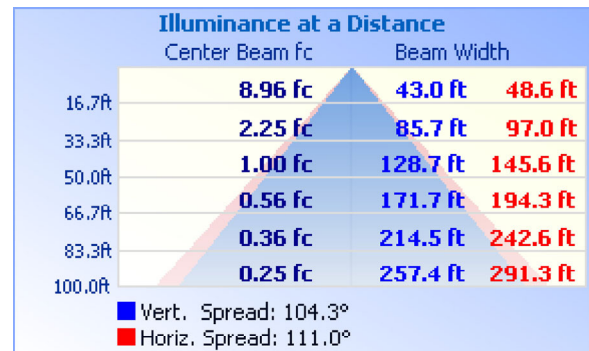
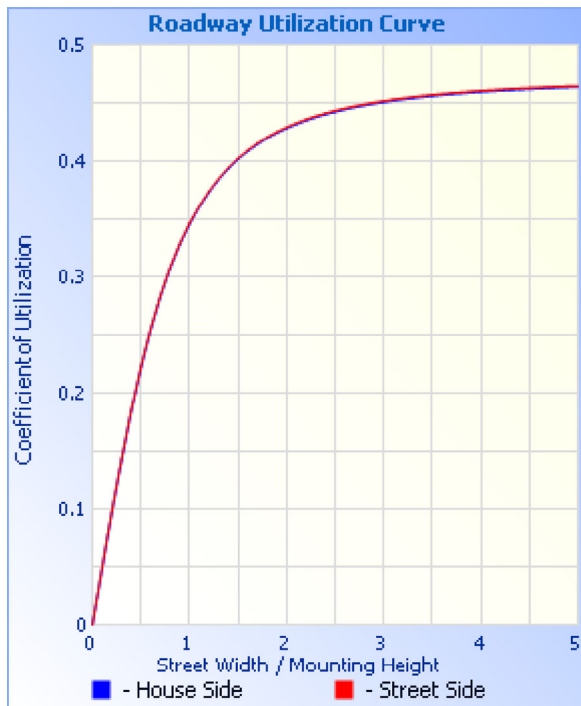
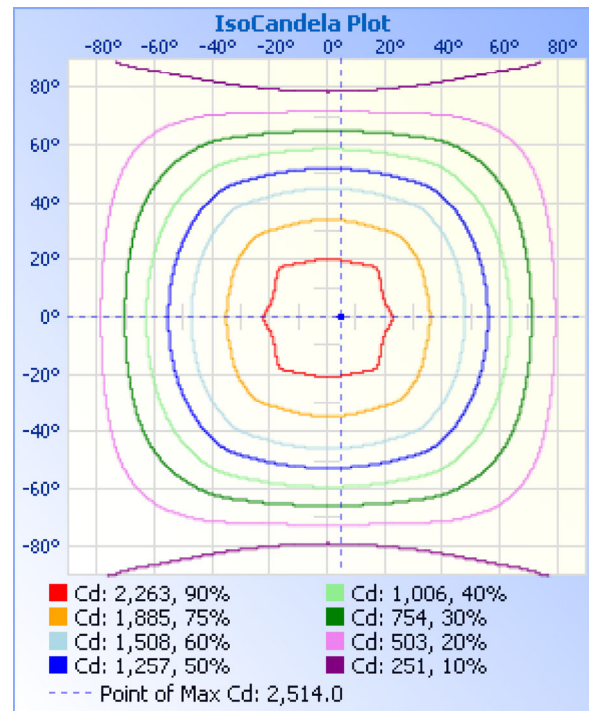
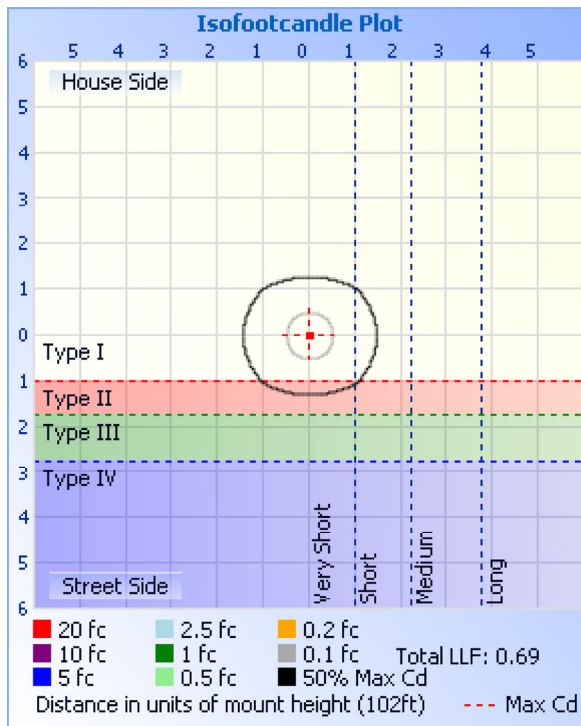
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	93.9%	7,019.2	n/a	158.2
Beam (50%):	64.6%	4,829.5	111	104.3
Total:	99.9%	7,467.2		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,912.9	25.6%	25.6%
0-40	3,104.0	41.5%	41.6%
0-60	5,422.2	72.5%	72.6%
60-90	1,676.3	22.4%	22.5%
70-100	939.8	12.6%	12.6%
90-120	251.3	3.4%	3.4%
0-90	7,098.5	95%	95.1%
90-180	367.3	4.9%	4.9%
0-180	7,465.8	99.9%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	236.1	3.2%	90-100	122.8	1.6%
10-20	672.1	9.0%	100-110	74.3	1%
20-30	1,004.7	13.5%	110-120	54.3	0.7%
30-40	1,191.1	16.0%	120-130	40.5	0.5%
40-50	1,218.6	16.3%	130-140	29.0	0.4%
50-60	1,099.7	14.7%	140-150	20.8	0.3%
60-70	859.3	11.5%	150-160	14.5	0.2%
70-80	550.1	7.4%	160-170	8.5	0.1%
80-90	266.8	3.6%	170-180	2.7	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	.95	1.08	1.08	1.08	1.03	1.03	1.03	.97	.97	.97	.95
1	1.07	1.02	.97	.93	1.03	.99	.95	.79	.94	.90	.87	.89	.86	.84	.85	.82	.80	.78
2	.97	.88	.81	.75	.94	.86	.80	.66	.82	.76	.72	.78	.73	.69	.74	.70	.67	.64
3	.88	.77	.69	.62	.85	.75	.68	.56	.72	.65	.60	.68	.63	.58	.65	.61	.57	.54

4	.81	.69	.60	.53	.78	.67	.59	.48	.64	.57	.51	.61	.55	.50	.58	.53	.49	.46
5	.74	.61	.52	.45	.72	.60	.51	.42	.57	.50	.44	.55	.48	.43	.52	.47	.42	.40
6	.69	.55	.46	.40	.66	.54	.45	.37	.52	.44	.39	.49	.43	.38	.47	.42	.37	.35
7	.64	.50	.41	.35	.61	.49	.41	.33	.47	.39	.34	.45	.38	.34	.43	.37	.33	.31
8	.59	.46	.37	.31	.57	.45	.37	.29	.43	.36	.30	.41	.35	.30	.40	.34	.30	.28
9	.55	.42	.34	.28	.54	.41	.33	.26	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10	.52	.39	.31	.25	.50	.38	.30	.24	.37	.30	.25	.35	.29	.25	.34	.28	.24	.22

Candela Table - Type C

	0	15	30	45	60	75	90
0	2499	2499	2499	2499	2499	2499	2499
5	2486	2484	2486	2494	2483	2487	2514
10	2445	2441	2446	2479	2435	2442	2475
15	2374	2371	2388	2439	2369	2364	2411
20	2279	2275	2296	2357	2284	2267	2323
25	2160	2159	2177	2246	2186	2155	2199
30	2019	2021	2041	2112	2071	2034	2055
35	1867	1866	1890	1963	1935	1897	1897
40	1707	1704	1728	1804	1781	1751	1744
45	1527	1528	1554	1632	1617	1594	1587
50	1341	1345	1379	1455	1444	1434	1430
55	1154	1164	1195	1272	1271	1271	1274
60	963	974	1009	1085	1092	1102	1114
65	766	782	824	894	913	934	950
70	580	593	642	709	741	769	779
75	405	415	462	537	574	607	621
80	208	241	302	381	433	463	474
85	70	109	178	256	307	341	356
90	6	39	99	168	217	250	262
95	5	22	63	116	158	187	197
100	5	19	49	87	120	144	152
105	5	17	43	74	98	117	123
110	5	16	38	65	86	100	106
115	5	15	35	59	77	90	95
120	6	15	33	54	70	81	85
125	6	15	30	49	63	72	75
130	6	15	28	44	56	64	67
135	7	15	27	40	51	57	59
140	9	15	26	38	46	52	53
145	10	16	25	36	43	47	49
150	13	18	25	34	40	44	45
155	17	21	26	33	38	41	43
160	20	23	27	32	35	38	40
165	23	24	28	31	33	35	36
170	25	26	27	30	30	32	33
175	27	27	27	29	29	28	30
180	28	28	28	28	28	28	28

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LCZP14120308
[TESTDATE] 2015-1-3
[TESTLAB] LCTECH
[ISSUE DATE]
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-TP15-5000-80 (5 Ft)
[LAMPCAT] LED
[LAMP] LED
[_TOTALLUMINAIRELUMENS] 7465.8
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.