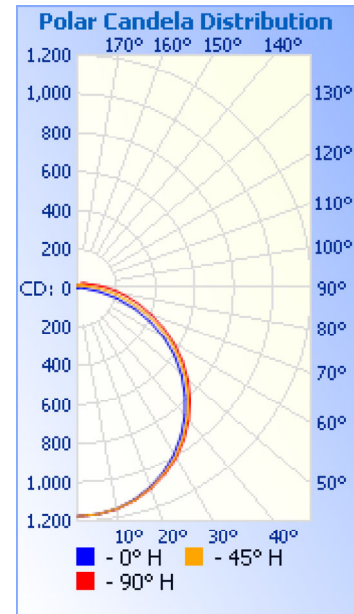


Photometrics Pro

Luminaire Photometric Report

Filename: Tri-Proof 4ft 40W TP12
Manufacturer: SARIN Energy Inc.
Luminaire: SES-TP12-5000-40 (4 Ft)
Lamp: LED
Lamp Cat: LED
Lamp Output: 1 lamp, rated Lumens/lamp: 3776.8
Max Candela: 1,179.5 at Horizontal: 0°, Vertical: 0°
Input Wattage: 38.93
Luminous Opening: Rectangle w/Luminous Sides (L: 47.24", W: 3.54", H: 1.18")
Test: LCZP15120424
Test Date: 2015-05-19
Test Lab: LCTECH
Photometry : Type C



Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	150.7	
Max Cd, 80 to <90 Deg:	260.0	
	Lumens	% Lamp
Downward Street Side:	1,792.5	47.5%
Downward House Side:	1,792.5	47.5%
Downward Total:	3,584.9	94.9%
Upward Street Side:	94.8	2.5%
Upward House Side:	94.8	2.5%
Upward Total:	189.7	5%
Total Lumens:	3,774.6	99.9%

Flood Summary

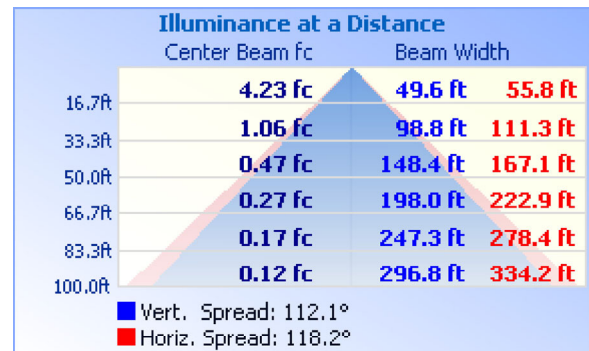
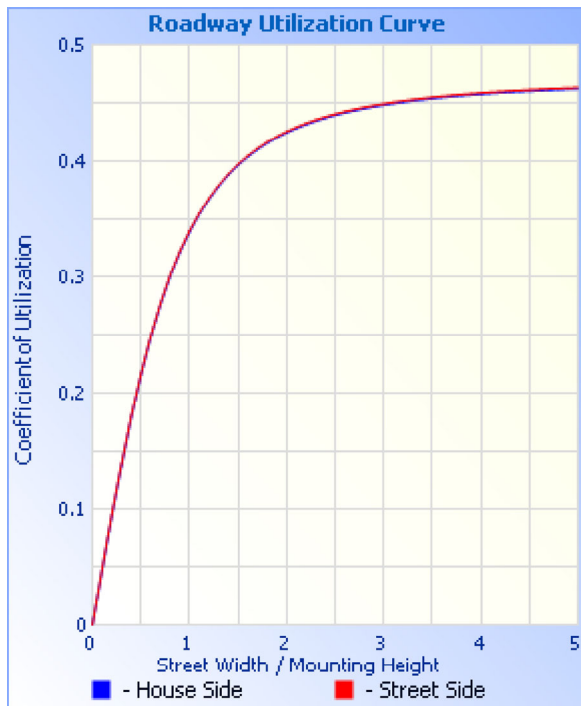
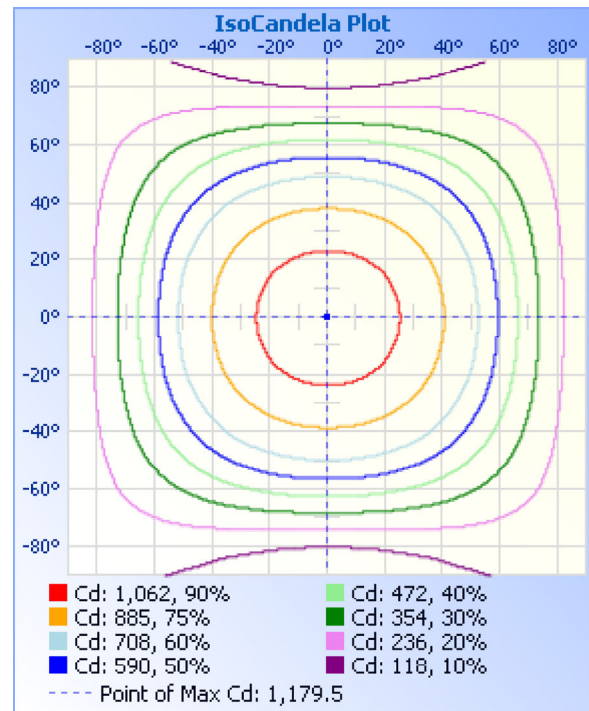
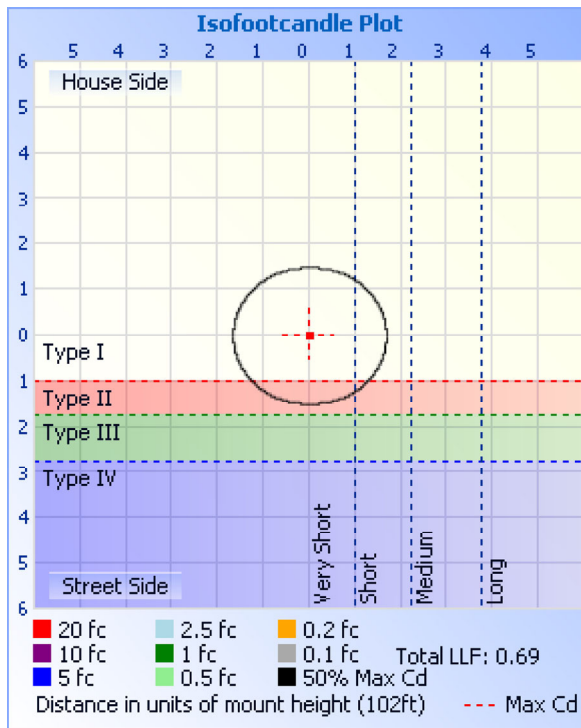
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.5%	3,569.5	n/a	159.6
Beam (50%):	67.9%	2,562.6	118.2	112.1
Total:	99.9%	3,773.7		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	916.7	24.3%	24.3%
0-40	1,505.8	39.9%	39.9%
0-60	2,692.2	71.3%	71.3%
60-90	891.4	23.6%	23.6%
70-100	511.2	13.5%	13.5%
90-120	136.8	3.6%	3.6%
0-90	3,583.6	94.9%	95%
90-180	189.7	5%	5%
0-180	3,773.3	99.9%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	111.5	3.0%	90-100	69.7	1.8%
10-20	319.6	8.5%	100-110	39.5	1%
20-30	485.7	12.9%	110-120	27.5	0.7%
30-40	589.1	15.6%	120-130	19.9	0.5%
40-50	617.8	16.4%	130-140	13.5	0.4%
50-60	568.6	15.1%	140-150	9.1	0.2%
60-70	449.9	11.9%	150-160	5.9	0.2%
70-80	292.5	7.8%	160-170	3.4	0.1%
80-90	149.0	3.9%	170-180	1.1	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	1.06	1.01	.97	.92	1.03	.98	.94	.78	.93	.90	.87	.88	.86	.83	.84	.82	.80	.77
2	.96	.88	.80	.74	.93	.85	.79	.65	.81	.75	.71	.77	.72	.68	.73	.69	.66	.64
3	.88	.77	.68	.61	.85	.75	.67	.55	.71	.64	.59	.68	.62	.57	.64	.60	.56	.53

4	.80	.68	.59	.52	.77	.66	.58	.47	.63	.56	.50	.60	.54	.49	.57	.52	.47	.45
5	.74	.60	.51	.44	.71	.59	.50	.41	.56	.49	.43	.54	.47	.42	.51	.46	.41	.39
6	.68	.54	.45	.39	.66	.53	.44	.36	.51	.43	.37	.49	.42	.37	.47	.41	.36	.34
7	.63	.49	.40	.34	.61	.48	.40	.32	.46	.39	.33	.44	.37	.33	.42	.36	.32	.30
8	.58	.45	.36	.30	.57	.44	.36	.28	.42	.35	.30	.40	.34	.29	.39	.33	.29	.27
9	.55	.41	.33	.27	.53	.40	.32	.26	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24
10	.51	.38	.30	.25	.50	.37	.30	.23	.36	.29	.24	.35	.28	.24	.33	.28	.23	.22

Candela Table - Type C

	0	15	30	45	60	75	90
0	1179	1179	1179	1179	1179	1179	1179
5	1174	1174	1174	1174	1174	1175	1175
10	1158	1157	1158	1158	1158	1160	1161
15	1131	1131	1132	1135	1134	1136	1137
20	1093	1094	1096	1099	1101	1103	1104
25	1048	1048	1050	1056	1058	1060	1062
30	990	995	998	1004	1008	1011	1013
35	928	932	935	945	949	953	954
40	859	862	868	877	883	889	890
45	782	787	792	803	811	818	819
50	699	703	710	725	732	741	742
55	609	616	625	639	650	659	660
60	515	520	532	550	562	573	574
65	414	423	436	458	473	486	489
70	311	322	340	366	387	402	406
75	210	224	248	280	307	323	328
80	114	132	166	204	234	254	260
85	38	61	102	142	174	194	200
90	3	23	58	95	125	145	151
95	2	12	35	65	90	108	114
100	2	9	26	47	67	81	86
105	2	8	22	37	52	63	67
110	2	7	19	33	44	53	56
115	2	7	17	29	40	47	49
120	2	6	16	26	35	42	44
125	2	6	14	23	32	37	39
130	2	6	13	21	28	33	34
135	3	6	11	18	24	28	30
140	3	6	10	16	21	25	26
145	4	6	10	15	19	22	23
150	5	7	10	14	17	20	20
155	7	8	10	13	16	17	18
160	8	9	11	12	15	15	16
165	9	10	11	12	13	14	14
170	10	10	11	11	12	13	13
175	11	11	11	11	11	11	11
180	11	11	11	11	11	11	11

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LCZP15120424
[TESTDATE] 2015-05-19
[TESTLAB] LCTECH
[ISSUE DATE]
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-TP12-5000-40 (4 Ft)
[LAMPCAT] LED
[LAMP] LED
[_TOTALLUMINAIRELUMENS] 3773.3
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.