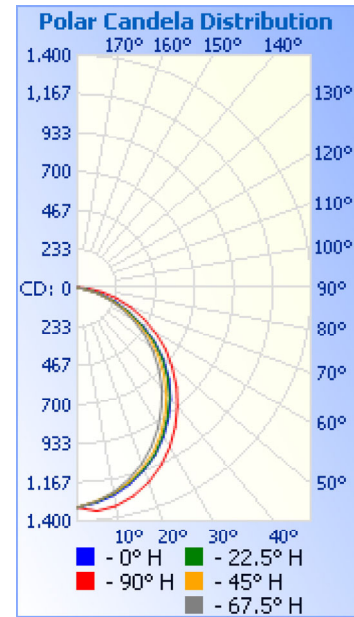


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** T8 U-Tube 18W U2T8  
**Manufacturer:** SARIN Energy Inc.  
**Luminaire:** SES-U2T8-5000-18  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 3412.8  
**Max Candela:** 1,349.7 at Horizontal: 90°, Vertical: 5°  
**Input Wattage:** 34.07  
**Luminous Opening:** Point  
**Test:** Sam  
**Test Date:** 2016-11-22  
**Photometry :** Type C  
**Nema Type:** 7 X 7

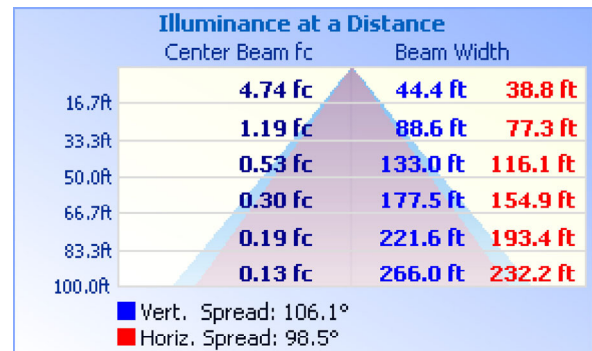
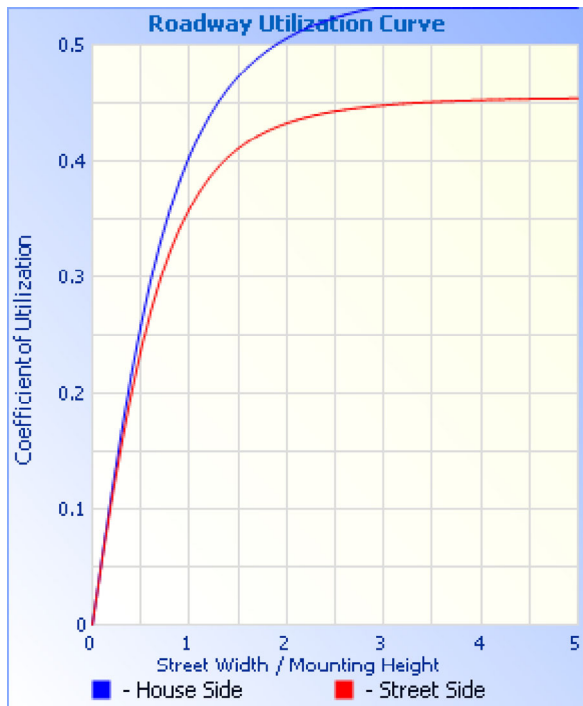
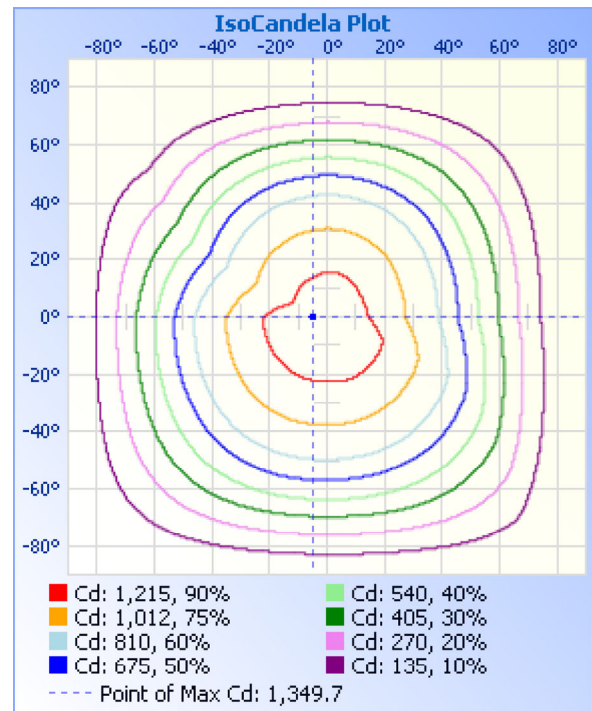
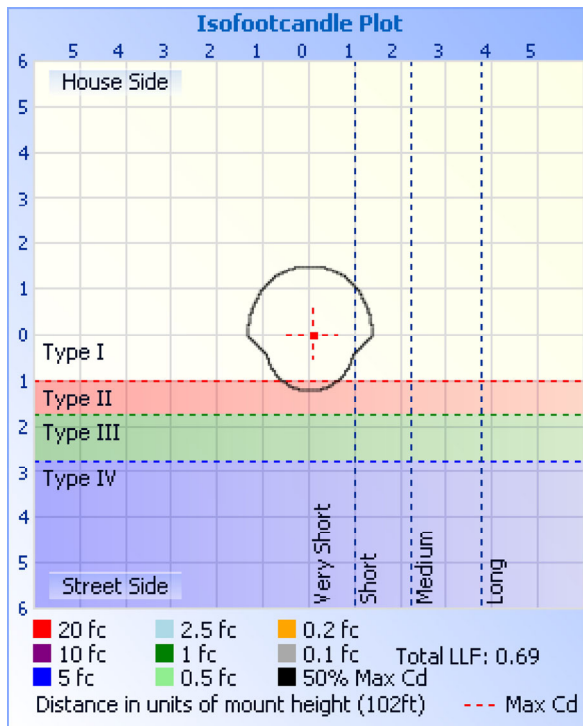


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	TYPE II, VERY SHORT	
Max Cd, 90 Deg Vert:	21.8	
Max Cd, 80 to <90 Deg:	184.5	
	Lumens	% Lamp
Downward Street Side:	1,534.8	45%
Downward House Side:	1,873.0	54.9%
Downward Total:	3,407.8	99.9%
Upward Street Side:	0.1	0%
Upward House Side:	2.0	0.1%
Upward Total:	2.0	0.1%
Total Lumens:	3,409.8	99.9%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.9%	3,341.4	154.8	157.6
Beam (50%):	67.7%	2,310.9	98.5	106.1
Total:	99.9%	3,408.5		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	994.2	29.1%	29.2%
0-40	1,601.8	46.9%	47%
0-60	2,751.4	80.6%	80.7%
60-90	654.7	19.2%	19.2%
70-100	264.3	7.7%	7.8%
90-120	2.0	0.1%	0.1%
0-90	3,406.1	99.8%	99.9%
90-180	2.0	0.1%	0.1%
0-180	3,408.2	99.9%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	124.6	3.7%	90-100	2.0	0.1%
10-20	351.0	10.3%	100-110	0	0%
20-30	518.7	15.2%	110-120	0	0%
30-40	607.6	17.8%	120-130	0	0%
40-50	613.0	18.0%	130-140	0	0%
50-60	536.6	15.7%	140-150	0	0%
60-70	392.4	11.5%	150-160	0	0%
70-80	209.0	6.1%	160-170	0	0%
80-90	53.3	1.6%	170-180	0	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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.85	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2	.99	.91	.85	.79	.97	.89	.83	.72	.86	.81	.76	.83	.78	.74	.80	.76	.73	.71
3	.91	.80	.72	.66	.88	.79	.71	.62	.76	.69	.64	.73	.68	.63	.71	.66	.62	.60

4	.83	.71	.63	.56	.81	.70	.62	.53	.68	.61	.55	.65	.59	.54	.63	.58	.53	.51
5	.77	.64	.55	.49	.74	.63	.54	.46	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6	.71	.58	.49	.42	.69	.57	.48	.41	.55	.47	.42	.53	.47	.42	.52	.46	.41	.39
7	.66	.52	.44	.38	.64	.52	.43	.37	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8	.61	.48	.39	.34	.60	.47	.39	.33	.46	.39	.33	.45	.38	.33	.43	.37	.33	.31
9	.57	.44	.36	.30	.56	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10	.54	.41	.33	.28	.52	.40	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25

Candela Table - Type C																	
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
5	1300	1295	1289	1292	1350	1339	1334	1326	1321	1326	1323	1323	1318	1310	1302	1302	1300
10	1268	1258	1255	1250	1334	1326	1318	1316	1310	1318	1313	1313	1271	1260	1260	1266	1268
15	1224	1213	1208	1192	1297	1292	1287	1284	1279	1287	1284	1279	1203	1195	1205	1221	1224
20	1169	1163	1148	1127	1247	1245	1242	1242	1237	1242	1234	1226	1129	1129	1148	1163	1169
25	1106	1100	1082	1051	1182	1182	1184	1184	1182	1187	1174	1158	1045	1051	1077	1098	1106
30	1032	1024	1006	969	1106	1106	1119	1121	1119	1119	1106	1085	956	967	998	1022	1032
35	953	943	919	877	1022	1027	1043	1051	1045	1043	1024	1001	867	877	914	943	953
40	869	859	830	791	932	943	964	972	969	964	943	914	775	791	825	854	869
45	778	764	733	691	841	854	875	888	885	877	856	825	675	694	730	762	778
50	675	665	633	591	741	757	783	799	799	791	767	736	578	594	633	662	675
55	565	555	528	492	646	657	683	704	707	694	673	641	484	502	528	557	565
60	452	442	418	389	541	557	586	607	610	602	578	547	387	402	431	444	452
65	345	334	316	289	442	457	481	499	507	497	481	452	292	305	321	337	345
70	240	224	211	195	342	352	373	387	392	389	376	355	200	208	221	232	240
75	140	127	114	106	242	253	268	282	287	284	279	263	116	122	127	135	140
80	56	45	38	30	150	153	164	174	184	182	177	169	45	48	48	51	56
85	1	0	0	0	69	69	74	85	90	87	87	87	0	0	0	1	1
90	0	0	0	0	9	9	11	14	17	19	19	22	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] Sam  
[TESTDATE] 2016-11-22  
[TESTLAB]  
[ISSUE DATE]  
[MANUFAC] SARIN Energy Inc.  
[LUMINAIRE] SES-U2T8-5000-18  
[\_TOTALLUMINAIRELUMENS] 3408.2  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 17  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

Photometrics Pro 1.3.29 copyright 2003-2020 by jSolutions, Inc.  
Reported data calculated from manufacturer's data file, based on IES recommended methods.