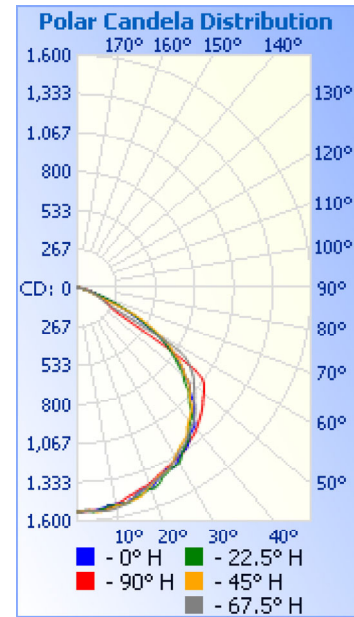


Photometrics Pro

Luminaire Photometric Report

Filename: T8 4ft Tube 22W T84FT
Manufacturer: SARIN Energy Inc.
Luminaire: SES-T84FT-3000-22
Lamp Output: 2 lamps, rated Lumens/lamp: 1991.1
Max Candela: 1,562.7 at Horizontal: 270°, Vertical: 10°
Input Wattage: 42.9
Luminous Opening: Rectangle (L: 20.87", W: 20.87")
Test Date: 2014-12-09
Test Lab: Standard-Tech Co.,Ltd
Photometry : Type C
Nema Type: 6 X 7

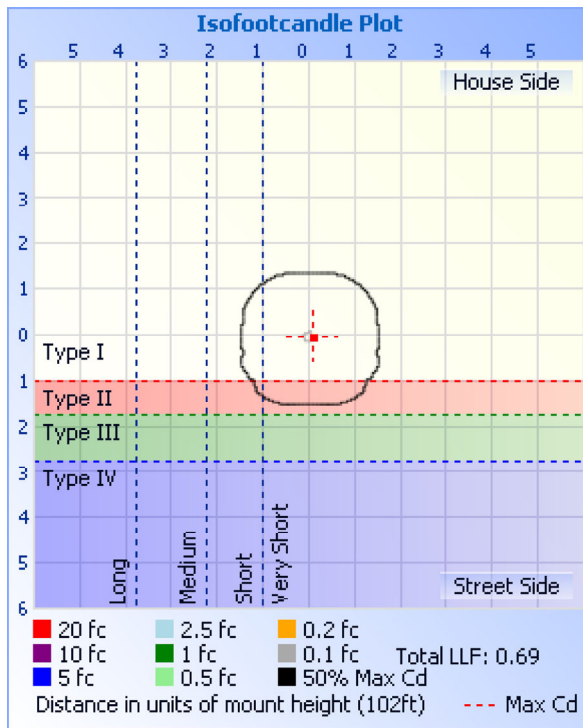


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0.0	
Max Cd, 80 to <90 Deg:	45.6	
	Lumens	% Lamp
Downward Street Side:	2,047.1	51.4%
Downward House Side:	1,933.9	48.6%
Downward Total:	3,981.1	100%
Upward Street Side:	0.3	0%
Upward House Side:	0.9	0%
Upward Total:	1.2	0%
Total Lumens:	3,982.3	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.3%	3,872.8	130	139.7
Beam (50%):	85.2%	3,394.0	111.1	110.4
Total:	100%	3,981.0		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,212.4	30.4%	30.4%
0-40	2,021.6	50.8%	50.8%
0-60	3,622.2	91%	91%
60-90	358.3	9%	9%
70-100	78.0	2%	2%
90-120	0.0	0%	0%
0-90	3,980.5	100%	100%
90-180	1.2	0%	0%
0-180	3,981.7	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	146.3	3.7%	90-100	0.0	0%
10-20	420.5	10.6%	100-110	0.0	0%
20-30	645.6	16.2%	110-120	0.0	0%
30-40	809.2	20.3%	120-130	0.1	0%
40-50	874.5	22.0%	130-140	0.2	0%
50-60	726.1	18.2%	140-150	0.2	0%
60-70	280.3	7.0%	150-160	0.3	0%
70-80	67.9	1.7%	160-170	0.2	0%
80-90	10.1	0.3%	170-180	0.1	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	1.19	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	1.11	1.07	1.03	1.00	1.08	1.04	1.01	.88	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2	1.02	.95	.89	.84	.99	.93	.87	.76	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3	.93	.84	.77	.71	.91	.83	.76	.66	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65

4	.86	.75	.67	.61	.84	.74	.66	.58	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5	.79	.67	.59	.53	.77	.66	.58	.50	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49
6	.73	.61	.52	.46	.71	.60	.52	.45	.58	.51	.45	.56	.50	.45	.55	.49	.45	.43
7	.68	.55	.47	.41	.66	.54	.46	.40	.53	.45	.40	.51	.45	.40	.50	.44	.40	.38
8	.63	.50	.42	.36	.62	.49	.42	.35	.48	.41	.36	.47	.40	.36	.46	.40	.36	.34
9	.59	.46	.38	.33	.57	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10	.55	.42	.35	.30	.54	.42	.34	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27

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	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543
1	1545	1541	1540	1545	1537	1541	1544	1544	1539	1543	1548	1547	1549	1547	1542	1544	1545
2	1535	1534	1535	1540	1540	1542	1539	1537	1523	1529	1550	1550	1547	1550	1545	1542	1535
3	1533	1539	1532	1542	1539	1537	1524	1523	1513	1524	1533	1547	1551	1549	1544	1544	1533
4	1540	1546	1541	1541	1535	1529	1514	1524	1521	1521	1526	1549	1552	1549	1549	1553	1540
5	1537	1543	1547	1540	1539	1525	1517	1532	1534	1533	1522	1543	1557	1547	1554	1551	1537
6	1529	1533	1549	1545	1535	1517	1530	1528	1524	1532	1534	1537	1558	1546	1551	1547	1529
7	1524	1533	1545	1548	1534	1509	1538	1522	1516	1526	1539	1528	1560	1550	1551	1540	1524
8	1510	1515	1542	1546	1530	1503	1534	1523	1510	1523	1541	1525	1560	1555	1545	1535	1510
9	1513	1519	1536	1546	1523	1508	1523	1514	1501	1510	1534	1525	1563	1554	1536	1522	1513
10	1513	1519	1523	1539	1515	1509	1512	1502	1490	1495	1531	1528	1563	1559	1538	1528	1513
11	1517	1520	1526	1535	1508	1506	1508	1488	1464	1487	1522	1528	1562	1555	1534	1528	1517
12	1520	1520	1524	1525	1497	1504	1500	1461	1450	1465	1510	1529	1559	1553	1530	1527	1520
13	1517	1522	1516	1520	1486	1497	1487	1449	1450	1451	1494	1526	1554	1548	1532	1526	1517
14	1502	1517	1512	1509	1476	1485	1476	1451	1437	1456	1489	1517	1546	1540	1530	1521	1502
15	1498	1502	1511	1493	1469	1475	1450	1447	1438	1451	1469	1507	1541	1535	1522	1508	1498
16	1477	1499	1505	1476	1461	1464	1437	1443	1434	1447	1454	1500	1535	1526	1523	1500	1477
17	1468	1487	1500	1466	1453	1453	1422	1438	1425	1446	1454	1490	1527	1516	1521	1494	1468
18	1460	1483	1482	1460	1448	1441	1412	1431	1414	1438	1449	1480	1523	1515	1515	1482	1460
19	1464	1472	1463	1456	1445	1435	1404	1416	1382	1423	1443	1470	1518	1510	1506	1473	1464
20	1472	1471	1457	1447	1435	1428	1395	1398	1369	1402	1436	1461	1506	1497	1490	1469	1472
21	1459	1476	1442	1435	1428	1420	1390	1374	1370	1389	1429	1450	1504	1485	1477	1471	1459
22	1440	1467	1433	1428	1417	1407	1381	1367	1365	1382	1416	1429	1499	1485	1469	1471	1440
23	1425	1453	1419	1425	1406	1397	1376	1359	1363	1376	1396	1416	1493	1483	1455	1459	1425
24	1414	1430	1407	1417	1400	1385	1359	1352	1358	1374	1379	1410	1489	1482	1445	1443	1414
25	1400	1420	1400	1410	1392	1377	1349	1345	1339	1374	1367	1398	1481	1476	1430	1424	1400
26	1391	1410	1399	1398	1381	1363	1326	1338	1315	1361	1344	1385	1474	1467	1421	1411	1391
27	1394	1402	1390	1387	1376	1345	1307	1315	1304	1344	1336	1369	1465	1458	1421	1397	1394
28	1399	1395	1376	1374	1369	1330	1296	1293	1295	1325	1331	1358	1460	1453	1419	1386	1399
29	1392	1397	1356	1365	1362	1317	1293	1279	1290	1314	1326	1352	1455	1452	1409	1381	1392
30	1372	1391	1338	1349	1360	1314	1282	1267	1286	1307	1318	1348	1449	1448	1398	1386	1372
31	1355	1374	1324	1333	1353	1314	1270	1263	1275	1303	1316	1343	1445	1443	1382	1379	1355
32	1341	1349	1308	1319	1346	1312	1260	1252	1252	1292	1298	1333	1440	1434	1369	1364	1341
33	1334	1331	1295	1310	1341	1305	1247	1243	1222	1278	1282	1324	1435	1429	1354	1338	1334
34	1332	1316	1281	1302	1330	1299	1232	1217	1212	1249	1263	1322	1431	1421	1339	1320	1332
35	1319	1304	1276	1292	1315	1288	1209	1187	1206	1226	1247	1318	1425	1410	1326	1312	1319
36	1298	1296	1266	1278	1305	1278	1197	1176	1201	1214	1238	1303	1415	1403	1317	1300	1298
37	1271	1272	1251	1263	1295	1266	1188	1163	1185	1208	1234	1286	1409	1391	1318	1293	1271
38	1262	1239	1221	1248	1289	1252	1187	1159	1143	1193	1224	1266	1394	1378	1317	1273	1262
39	1255	1218	1205	1237	1279	1240	1182	1146	1129	1174	1214	1243	1386	1363	1309	1244	1255
40	1248	1203	1189	1228	1267	1228	1171	1117	1119	1133	1199	1223	1375	1346	1293	1225	1248
41	1226	1190	1173	1217	1255	1214	1160	1091	1119	1118	1176	1196	1362	1332	1272	1219	1226
42	1185	1174	1162	1199	1242	1192	1136	1080	1104	1111	1152	1180	1347	1319	1258	1216	1185
43	1169	1145	1150	1183	1228	1174	1110	1073	1065	1102	1138	1165	1332	1297	1243	1206	1169
44	1150	1105	1125	1161	1218	1156	1093	1068	1052	1087	1128	1148	1314	1283	1233	1175	1150
45	1133	1086	1095	1137	1203	1138	1080	1038	1038	1050	1110	1130	1299	1270	1227	1145	1133
46	1094	1065	1069	1113	1189	1126	1072	1013	1028	1037	1089	1113	1280	1256	1203	1129	1094

47	1058	1048	1051	1098	1175	1111	1054	998	986	1019	1048	1095	1259	1236	1172	1118	1058
48	1037	1000	1029	1081	1157	1098	1023	986	968	1004	1020	1068	1242	1210	1143	1098	1037
49	1023	971	1016	1060	1143	1082	990	967	946	962	997	1038	1225	1185	1128	1051	1023
50	983	949	985	1044	1130	1066	974	928	922	943	982	1005	1201	1160	1114	1026	983
51	943	932	945	1026	1118	1047	961	915	872	919	958	978	1148	1132	1096	1012	943
52	922	889	923	1011	1101	1023	950	895	847	886	913	953	1085	1099	1063	993	922
53	890	856	897	991	1084	995	910	857	818	838	881	923	1000	1050	1015	952	890
54	850	830	869	965	1055	974	878	826	768	812	853	857	909	981	988	923	850
55	821	795	828	940	986	950	858	803	742	782	824	786	815	900	961	899	821
56	782	760	792	917	794	911	834	766	713	734	773	700	652	811	923	865	782
57	738	731	764	884	501	830	790	729	665	705	736	558	468	705	864	830	738
58	702	693	738	829	326	638	751	700	640	669	694	421	334	552	831	798	702
59	656	653	695	709	284	398	720	650	600	632	642	305	216	394	792	751	656
60	615	615	659	444	269	277	677	617	561	610	577	205	168	273	722	710	615
61	565	573	620	268	255	251	618	577	513	561	508	156	157	186	627	658	565
62	512	527	571	226	243	234	572	531	468	520	436	142	149	162	544	601	512
63	467	488	531	209	229	220	503	483	417	464	367	131	140	151	439	553	467
64	421	442	484	196	216	206	389	429	376	416	283	122	132	141	330	498	421
65	380	405	421	182	203	193	241	374	333	359	199	113	124	132	231	445	380
66	334	356	307	170	190	180	180	324	296	312	137	105	116	122	158	390	334
67	293	315	190	157	177	167	158	278	254	270	103	96	109	113	124	333	293
68	252	274	146	145	165	155	139	233	212	224	89	89	101	105	109	283	252
69	212	230	126	134	154	143	125	188	172	176	77	82	94	96	95	230	212
70	178	189	110	123	142	132	111	149	142	133	68	74	87	89	85	180	178
71	148	153	96	113	131	121	99	115	118	104	59	68	80	81	74	139	148
72	125	124	84	103	121	111	88	95	98	85	52	61	73	74	65	106	125
73	105	102	73	94	111	101	78	79	80	70	45	55	67	67	57	85	105
74	87	85	64	85	101	91	68	67	66	57	39	50	61	61	50	70	87
75	72	71	56	76	92	82	60	56	54	47	34	44	55	54	43	58	72
76	59	59	49	68	81	73	52	47	45	39	30	39	49	48	37	48	59
77	48	48	42	60	71	63	45	40	37	32	25	34	43	42	32	39	48
78	39	40	37	52	62	55	39	34	31	26	22	29	38	36	28	32	39
79	31	33	31	44	54	47	34	28	25	22	18	25	33	31	24	27	31
80	26	26	27	38	46	40	29	23	20	17	15	20	28	26	20	23	26
81	20	21	23	31	38	33	24	19	16	14	12	17	23	21	17	18	20
82	16	17	19	26	31	28	20	15	12	11	10	13	18	17	14	14	16
83	12	14	15	21	26	22	16	11	9	8	7	10	14	13	11	11	12
84	9	10	12	17	20	17	12	8	6	5	5	7	10	10	8	8	9
85	6	7	9	13	15	13	9	6	4	3	3	5	7	7	5	6	6
86	4	5	6	9	11	9	6	3	2	2	2	2	4	4	4	3	4
87	2	3	4	6	7	5	3	2	1	1	0	0	1	1	2	2	2
88	1	1	2	3	3	2	1	0	0	0	0	0	0	0	0	1	1
89	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	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
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	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
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	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
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	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
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	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
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	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
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
133	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
134	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
135	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0
136	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0
137	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0
138	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0
139	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0
140	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0
141	0	0	0	0	1	0	1	1	1	1	0	1	0	0	0	0	0
142	0	0	0	0	1	0	1	1	1	1	0	1	0	0	0	0	0
143	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0
144	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0

145	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0
146	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
147	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
148	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
149	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
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151	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
152	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
153	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0
154	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0
155	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0
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179	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1
180	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2014-12-09
[TESTLAB] Standard-Tech Co.,Ltd
[ISSUEDATE] 2014-12-09 14:46:20
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-T84FT-3000-22
[_TOTALLUMINAIRELUMENS] 3981.7
[_LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
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.