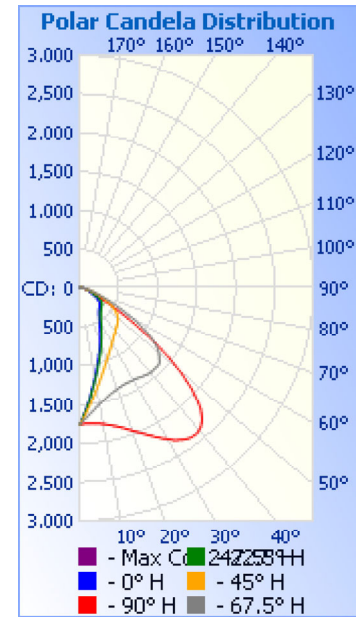


Photometrics Pro

Luminaire Photometric Report

Filename: Wall Pack WP05 35W - 277V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-WP05-4000-35 277V
Lamp Output: Total luminaire Lumens: 3955.4
Max Candela: 2,988.2 at Horizontal: 247.5°, Vertical: 29°
Input Wattage: 33.8
Luminous Opening: Point
Test: 01
Test Date: 2017/05/08
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 6 X 6

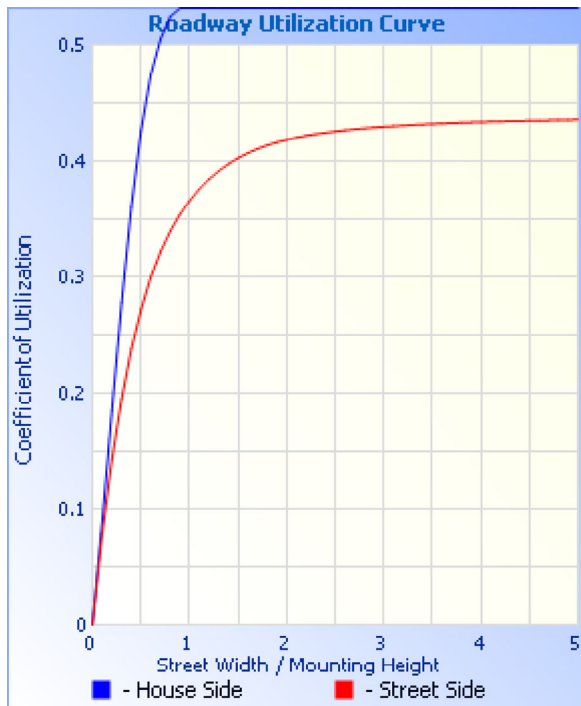
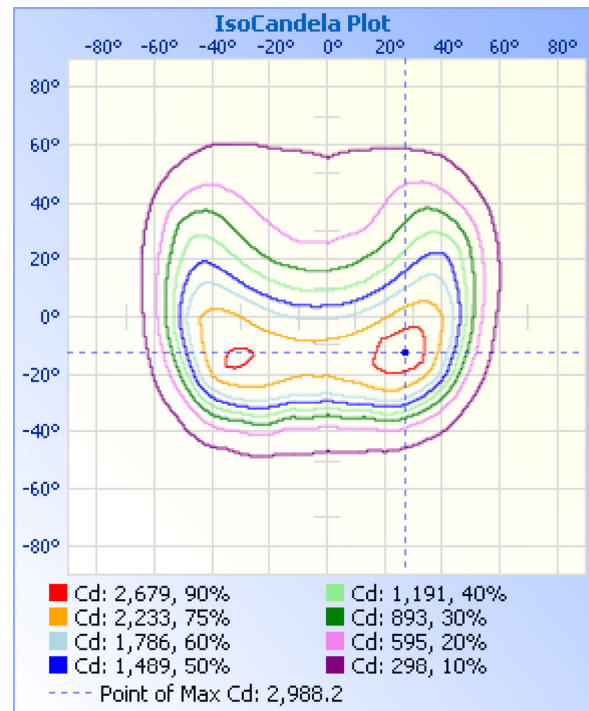
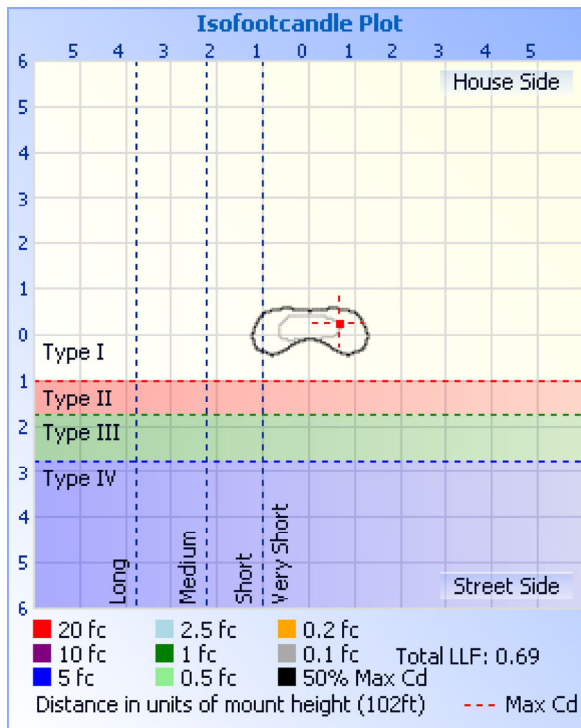


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	9.2	
Max Cd, 80 to <90 Deg:	96.4	
	Lumens	% Lamp
Downward Street Side:	1,740.2	44%
Downward House Side:	2,211.0	55.9%
Downward Total:	3,951.2	99.9%
Upward Street Side:	2.5	0.1%
Upward House Side:	2.3	0.1%
Upward Total:	4.8	0.1%
Total Lumens:	3,956.0	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	91.9%	3,635.8	119.3	104
Beam (50%):	55.2%	2,185.0	92.8	46.8
Total:	100%	3,954.7		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,490.9	37.7%
0-40	2,415.7	61.1%
0-60	3,622.8	91.6%
60-90	327.9	8.3%
70-100	116.3	2.9%
90-120	1.5	0%
0-90	3,950.7	99.9%
90-180	4.8	0.1%
0-180	3,955.4	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	170.1	4.3%	90-100	0.7	0%
10-20	510.8	12.9%	100-110	0.3	0%
20-30	810.0	20.5%	110-120	0.4	0%
30-40	924.7	23.4%	120-130	0.5	0%
40-50	760.4	19.2%	130-140	0.7	0%
50-60	446.7	11.3%	140-150	0.8	0%
60-70	212.3	5.4%	150-160	0.7	0%
70-80	92.3	2.3%	160-170	0.5	0%
80-90	23.3	0.6%	170-180	0.2	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	6.35 fc	14.5 ft	35.1 ft
33.3ft	1.60 fc	28.8 ft	69.9 ft
50.0ft	0.71 fc	43.3 ft	105.0 ft
66.7ft	0.40 fc	57.8 ft	140.0 ft
83.3ft	0.26 fc	72.1 ft	174.9 ft
100.0ft	0.18 fc	86.6 ft	209.9 ft

■ Vert. Spread: 46.8°
 ■ Horiz. Spread: 92.8°

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	1.04	1.01	1.08	1.05	1.02	.89	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2	1.03	.96	.90	.86	1.00	.94	.89	.78	.91	.86	.83	.88	.84	.81	.85	.82	.79	.77
3	.95	.86	.79	.74	.93	.85	.78	.69	.82	.76	.72	.79	.75	.71	.77	.73	.70	.68

4	.88	.78	.70	.64	.86	.77	.69	.61	.74	.68	.63	.72	.67	.62	.70	.65	.62	.60
5	.82	.70	.63	.57	.80	.69	.62	.55	.67	.61	.56	.66	.60	.55	.64	.59	.55	.53
6	.76	.64	.56	.50	.74	.63	.56	.49	.62	.55	.50	.60	.54	.49	.58	.53	.49	.47
7	.71	.59	.51	.45	.69	.58	.50	.44	.56	.50	.45	.55	.49	.44	.54	.48	.44	.42
8	.66	.54	.46	.41	.65	.53	.46	.40	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
9	.62	.50	.42	.37	.61	.49	.42	.36	.48	.41	.37	.47	.41	.37	.46	.40	.36	.35
10	.58	.46	.39	.34	.57	.46	.38	.33	.45	.38	.34	.44	.38	.33	.43	.37	.33	.32

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	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771	1771
1	1707	1711	1715	1735	1756	1782	1816	1832	1846	1843	1822	1797	1766	1741	1726	1709	1707
2	1633	1638	1669	1702	1753	1807	1856	1898	1920	1916	1881	1833	1774	1721	1675	1644	1633
3	1575	1583	1617	1679	1752	1827	1907	1950	1979	1973	1929	1864	1782	1706	1630	1593	1575
4	1504	1515	1564	1651	1752	1855	1956	2012	2047	2042	1987	1904	1795	1687	1594	1529	1504
5	1448	1463	1523	1629	1753	1878	1996	2070	2112	2107	2046	1946	1809	1671	1549	1478	1448
6	1379	1397	1473	1602	1757	1909	2042	2114	2158	2156	2093	1981	1822	1658	1515	1417	1379
7	1313	1334	1435	1581	1762	1941	2079	2165	2211	2213	2149	2025	1840	1643	1474	1358	1313
8	1262	1286	1388	1556	1766	1966	2122	2201	2248	2255	2205	2063	1856	1633	1442	1313	1262
9	1203	1229	1344	1534	1774	1999	2164	2242	2289	2302	2248	2111	1878	1621	1405	1259	1203
10	1158	1186	1309	1517	1782	2024	2195	2277	2321	2343	2300	2162	1903	1613	1369	1218	1158
11	1105	1136	1268	1499	1793	2059	2233	2300	2341	2370	2341	2204	1925	1604	1342	1170	1105
12	1065	1098	1237	1485	1806	2094	2262	2322	2357	2399	2390	2258	1955	1598	1309	1134	1065
13	1019	1053	1200	1469	1817	2121	2294	2335	2364	2417	2437	2303	1981	1593	1284	1092	1019
14	975	1010	1172	1453	1833	2160	2323	2345	2366	2432	2472	2362	2015	1589	1256	1053	975
15	941	978	1140	1442	1847	2200	2345	2347	2359	2440	2515	2422	2045	1588	1230	1023	941
16	901	940	1109	1429	1866	2233	2369	2344	2348	2442	2546	2471	2085	1587	1210	987	901
17	870	909	1085	1420	1884	2272	2386	2335	2327	2437	2580	2534	2126	1587	1187	960	870
18	834	874	1056	1409	1907	2304	2402	2322	2304	2429	2606	2583	2162	1588	1170	927	834
19	805	846	1035	1401	1932	2344	2414	2301	2268	2410	2627	2648	2207	1591	1150	902	805
20	770	812	1009	1393	1953	2379	2423	2279	2232	2390	2645	2695	2245	1594	1135	871	770
21	742	780	990	1386	1981	2422	2430	2244	2178	2356	2663	2754	2291	1599	1117	848	742
22	709	755	968	1380	2004	2465	2432	2201	2128	2324	2672	2801	2329	1604	1103	818	709
23	683	725	950	1375	2033	2499	2431	2161	2054	2273	2675	2854	2376	1612	1087	790	683
24	653	702	929	1372	2059	2542	2427	2101	1969	2212	2676	2889	2422	1618	1072	768	653
25	624	674	909	1369	2091	2576	2416	2046	1892	2155	2669	2929	2457	1627	1061	741	624
26	602	652	895	1368	2119	2616	2407	1968	1787	2072	2653	2956	2498	1635	1049	720	602
27	576	625	877	1367	2155	2649	2390	1898	1695	1998	2629	2975	2528	1645	1040	694	576
28	556	605	863	1368	2183	2688	2374	1801	1572	1894	2614	2987	2560	1654	1029	675	556
29	533	581	846	1370	2218	2712	2348	1717	1469	1804	2571	2988	2580	1665	1021	651	533
30	515	563	833	1371	2245	2742	2314	1605	1337	1681	2529	2979	2598	1677	1012	633	515
31	495	542	818	1373	2280	2764	2282	1511	1230	1578	2464	2961	2604	1685	1005	611	495
32	481	525	805	1376	2312	2777	2233	1389	1098	1444	2401	2920	2603	1695	997	595	481
33	464	507	791	1383	2336	2792	2186	1265	974	1306	2311	2875	2591	1703	992	576	464
34	452	490	780	1390	2361	2799	2118	1166	880	1196	2226	2821	2572	1711	986	562	452
35	438	478	767	1395	2378	2797	2056	1045	775	1062	2107	2739	2535	1715	981	545	438
36	427	464	758	1401	2394	2785	1969	953	700	961	1974	2658	2496	1717	976	530	427
37	416	453	748	1406	2402	2760	1890	847	618	844	1858	2569	2436	1716	972	519	416
38	406	441	740	1414	2407	2732	1783	769	562	760	1704	2471	2379	1710	967	507	406
39	398	433	729	1419	2404	2680	1666	682	502	667	1576	2335	2295	1702	963	497	398
40	389	423	719	1423	2392	2627	1565	607	452	587	1410	2184	2216	1688	958	486	389
41	383	416	711	1423	2376	2566	1432	554	419	532	1276	2056	2106	1672	953	478	383
42	376	408	702	1421	2345	2491	1323	497	385	474	1112	1884	1983	1646	948	469	376
43	371	403	695	1420	2312	2384	1185	458	362	436	957	1741	1876	1613	940	463	371
44	365	397	687	1422	2257	2260	1049	417	338	396	843	1559	1736	1580	932	455	365
45	361	393	682	1423	2204	2150	945	390	321	369	716	1377	1620	1542	920	450	361
46	356	388	675	1419	2122	1999	824	361	302	342	629	1234	1470	1489	909	443	356

47	352	384	669	1406	2027	1866	737	337	284	319	538	1063	1320	1427	892	438	352
48	347	380	661	1383	1940	1692	640	320	269	303	464	935	1200	1373	876	433	347
49	343	376	653	1361	1821	1548	573	301	251	284	416	787	1057	1298	853	427	343
50	339	373	645	1335	1717	1364	502	287	235	270	366	657	949	1233	831	422	339
51	335	370	638	1307	1579	1182	442	269	223	253	333	567	823	1147	802	415	335
52	330	366	628	1275	1464	1043	402	252	206	238	299	472	710	1076	776	410	330
53	325	363	617	1237	1317	882	359	240	194	227	277	409	629	985	739	402	325
54	317	360	603	1185	1200	765	330	226	182	214	253	347	539	911	699	396	317
55	308	356	587	1140	1058	637	300	212	171	202	233	308	476	819	666	385	308
56	300	351	573	1077	949	530	274	202	163	192	218	270	407	747	622	376	300
57	288	343	555	1021	824	461	256	189	153	181	202	241	359	662	586	362	288
58	278	335	539	946	731	391	236	180	144	169	187	221	309	598	541	350	278
59	264	324	517	883	625	346	217	168	136	160	177	202	267	524	505	332	264
60	251	314	498	807	550	301	204	157	128	149	165	185	240	471	460	316	251
61	235	298	474	729	467	265	189	149	119	141	154	173	211	412	425	293	235
62	222	283	452	670	397	242	179	139	113	131	145	160	188	370	384	274	222
63	207	263	424	597	348	218	166	129	106	121	135	148	173	325	354	250	207
64	194	242	400	540	298	202	154	121	100	113	126	139	157	288	321	233	194
65	186	226	371	476	264	184	145	112	94	104	114	128	147	262	296	214	186
66	177	207	348	429	230	169	134	104	89	95	100	120	135	236	269	198	177
67	171	195	320	375	208	157	122	97	85	88	90	110	125	218	248	187	171
68	163	182	298	337	185	144	112	89	78	80	79	101	117	199	224	175	163
69	156	173	271	296	170	132	99	82	73	73	70	93	109	185	203	166	156
70	150	162	244	269	154	123	89	74	70	63	64	84	101	170	186	156	150
71	143	153	224	239	140	112	79	65	68	54	56	75	96	157	166	146	143
72	137	146	201	218	131	102	69	57	67	48	50	68	89	146	150	139	137
73	130	138	184	196	120	94	63	50	65	41	45	60	82	133	133	130	130
74	125	131	164	177	113	84	55	43	60	34	38	54	76	123	121	123	125
75	118	123	150	163	104	77	49	37	54	28	33	47	69	110	107	114	118
76	111	116	134	147	97	68	43	30	41	22	28	40	64	100	95	107	111
77	106	108	119	136	89	60	37	24	26	16	22	35	57	88	86	98	106
78	99	100	108	121	81	54	31	19	17	12	17	29	49	77	76	90	99
79	94	93	95	110	75	46	27	14	9	7	12	23	43	68	69	82	94
80	87	85	86	96	68	39	21	9	4	4	7	19	35	56	61	73	87
81	81	78	76	84	62	34	16	5	3	2	3	13	27	46	55	66	81
82	74	69	68	74	54	28	10	3	1	1	2	8	22	38	47	57	74
83	68	62	60	62	48	22	6	1	1	1	1	4	15	32	38	50	68
84	60	54	51	53	40	18	3	1	1	1	1	2	9	25	32	41	60
85	51	45	44	43	33	12	1	1	1	1	1	1	5	18	24	32	51
86	43	38	35	37	27	7	1	1	1	1	1	1	2	13	18	26	43
87	33	29	29	29	19	3	1	1	1	1	1	1	1	6	11	18	33
88	25	23	21	22	14	1	1	1	0	1	1	1	1	3	6	13	25
89	15	15	15	16	8	1	1	1	1	1	1	1	1	1	3	7	15
90	7	8	9	9	3	1	1	0	0	0	1	1	1	0	1	3	7
91	3	4	4	5	1	1	0	0	0	0	1	1	1	0	1	1	3
92	1	2	2	1	0	0	0	0	0	1	0	1	1	0	0	1	1
93	1	1	1	1	0	1	0	0	0	0	1	1	1	0	0	1	1
94	0	1	0	1	0	1	1	0	0	0	1	1	1	0	0	0	0
95	0	0	0	1	0	1	0	0	0	0	1	1	1	0	0	0	0

96	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
99	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0
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111	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0
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114	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0
115	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0
116	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0
117	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0
118	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0	0
119	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0
120	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0
121	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0
122	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0
123	0	0	0	1	1	1	1	1	0	0	1	1	1	1	0	0	0
124	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0
125	0	0	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0
126	0	0	0	1	1	1	1	0	1	0	1	1	1	1	1	0	0
127	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0
128	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0
129	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0
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131	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0
132	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
133	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1
134	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
135	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
136	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
137	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
138	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
139	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
140	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
141	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
142	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
143	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
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145	1	1	1	2	2	1	1	1	1	1	1	1	2	1	1	1	1
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST] 01
[TESTDATE] 2017/05/08
[TESTLAB] Standard-Tech Co. Ltd
[ISSUE DATE]
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-WP05-4000-35 277V
[_TOTALLUMINAIRELUMENS] 3955.4

FILE: CREATED USING ABSOLUTE PHOTOMETRY
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.