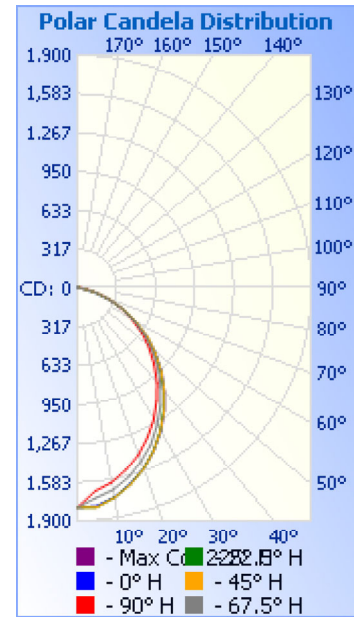


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Wraparound 4ft 48W WR  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-WR-5000-48  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 4952.4  
**Max Candela:** 1,858.4 at Horizontal: 225°, Vertical: 5°  
**Input Wattage:** 46.413  
**Luminous Opening:** Point  
**Test:** Sam  
**Photometry :** Type C  
**Nema Type:** 7 X 7

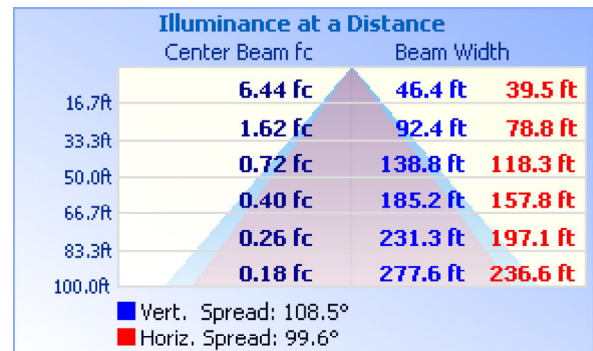
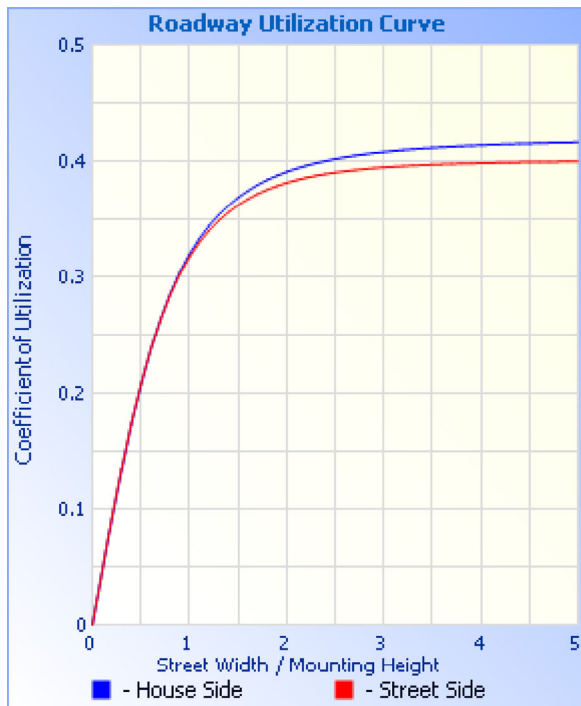
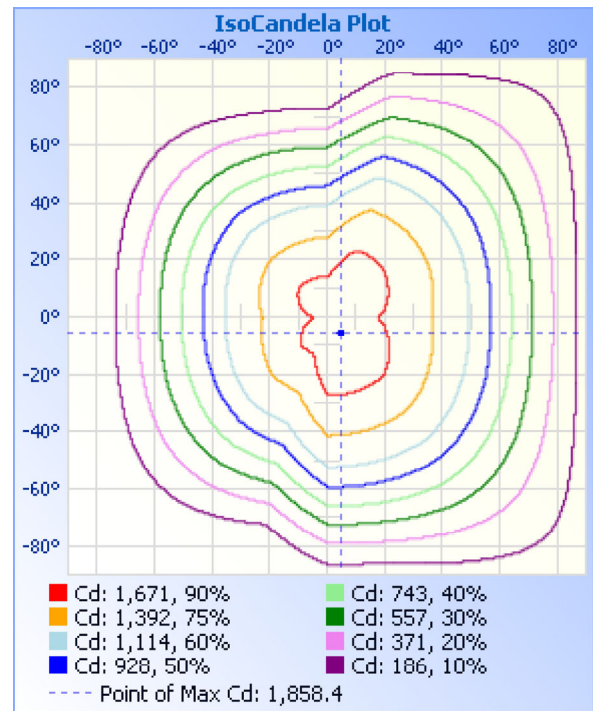
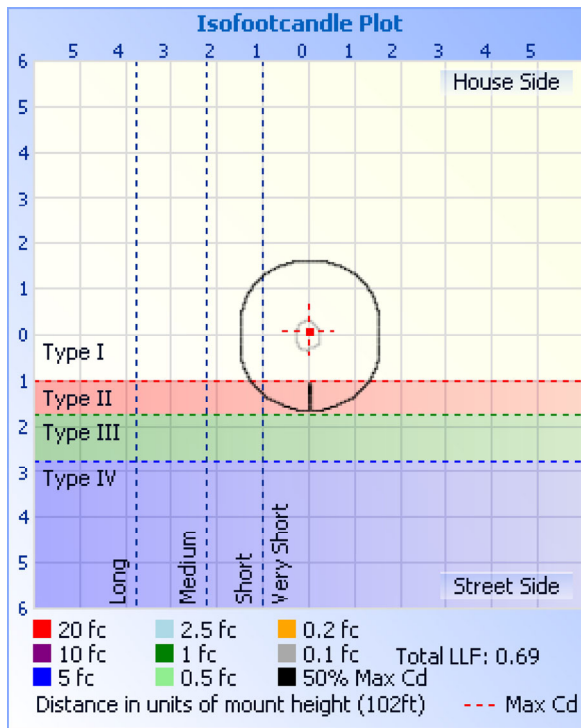


Roadway Summary		
Cutoff Classification:	SEMICUTOFF	
Distribution:	TYPE II, VERY SHORT	
Max Cd, 90 Deg Vert:	125.6	
Max Cd, 80 to <90 Deg:	347.0	
	Lumens	% Lamp
Downward Street Side:	2,364.0	47.7%
Downward House Side:	2,483.5	50.1%
Downward Total:	4,847.5	97.9%
Upward Street Side:	20.9	0.4%
Upward House Side:	22.2	0.4%
Upward Total:	43.0	0.9%
Total Lumens:	4,890.5	98.8%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	96.1%	4,757.5	160.5	162.2
Beam (50%):	65.8%	3,259.9	99.6	108.5
Total:	98.7%	4,888.7		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,366.9	27.6%	27.6%
0-40	2,212.0	44.7%	44.7%
0-60	3,834.6	77.4%	77.5%
60-90	1,067.9	21.6%	21.6%
70-100	513.6	10.4%	10.4%
90-120	32.9	0.7%	0.7%
0-90	4,902.5	99%	99.1%
90-180	43.9	0.9%	0.9%
0-180	4,946.4	99.9%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	169.4	3.4%	90-100	27.5	0.6%
10-20	481.0	9.7%	100-110	3.6	0.1%
20-30	716.5	14.5%	110-120	1.8	0%
30-40	845.1	17.1%	120-130	2.2	0%
40-50	858.0	17.3%	130-140	2.5	0.1%
50-60	764.7	15.5%	140-150	2.6	0.1%
60-70	581.8	11.8%	150-160	2.0	0%
70-80	346.7	7.0%	160-170	1.2	0%
80-90	139.3	2.8%	170-180	0.4	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	0	50	30	20	0	50	30	20	0	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.10	1.10	1.10	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99	
1	1.08	1.03	.99	.95	1.05	1.01	.97	.83	.96	.93	.90	.92	.90	.87	.89	.86	.84	.84	.84	.82	
2	.98	.90	.83	.77	.96	.88	.82	.70	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68	.68	.68	
3	.90	.79	.71	.64	.87	.77	.70	.59	.74	.68	.62	.71	.66	.61	.69	.64	.60	.60	.60	.58	

4	.82	.70	.61	.54	.80	.69	.60	.51	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5	.75	.63	.54	.47	.73	.61	.53	.45	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6	.70	.56	.47	.41	.68	.55	.47	.39	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7	.65	.51	.42	.36	.63	.50	.42	.35	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8	.60	.47	.38	.32	.59	.46	.38	.31	.45	.37	.32	.43	.37	.32	.42	.36	.31	.30
9	.56	.43	.35	.29	.55	.42	.34	.28	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10	.53	.40	.32	.26	.51	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24

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	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797	1797
5	1792	1800	1801	1725	1667	1723	1780	1777	1847	1855	1858	1779	1706	1775	1838	1829	1847
10	1739	1740	1741	1675	1612	1658	1723	1721	1841	1849	1855	1783	1719	1758	1832	1823	1841
15	1660	1662	1665	1602	1535	1581	1647	1645	1815	1822	1827	1749	1695	1752	1805	1795	1815
20	1572	1572	1572	1509	1450	1492	1553	1552	1768	1775	1779	1707	1646	1706	1753	1749	1768
25	1466	1465	1466	1412	1348	1386	1446	1451	1702	1707	1712	1646	1591	1642	1684	1681	1702
30	1355	1348	1351	1295	1242	1274	1332	1335	1621	1622	1629	1562	1513	1567	1600	1600	1621
35	1230	1222	1231	1177	1123	1155	1208	1212	1523	1522	1530	1467	1415	1475	1499	1502	1523
40	1100	1095	1102	1054	1008	1033	1081	1084	1413	1413	1419	1363	1310	1363	1392	1393	1413
45	968	958	966	928	883	904	950	957	1294	1291	1305	1247	1202	1249	1273	1275	1294
50	829	824	825	796	762	784	819	822	1166	1163	1173	1124	1086	1127	1148	1150	1166
55	687	684	695	670	641	658	687	684	1037	1033	1038	1003	961	1005	1019	1023	1037
60	544	548	553	543	516	533	549	543	901	903	900	872	837	874	890	887	901
65	408	404	414	410	393	404	411	407	759	764	764	736	711	739	753	749	759
70	268	271	283	283	273	282	283	271	622	622	624	604	582	605	613	605	622
75	141	146	162	168	165	168	164	148	479	482	483	476	454	469	472	464	479
80	40	51	68	79	80	80	71	53	338	339	347	340	331	334	337	326	338
85	1	6	18	26	30	28	19	7	208	206	217	218	213	216	208	200	208
90	1	1	5	8	10	9	5	1	94	95	122	123	122	126	121	86	94
95	1	1	1	2	4	3	1	1	11	19	34	46	46	44	35	18	11
100	1	1	1	1	1	1	1	1	1	3	10	17	18	16	10	4	1
105	1	2	1	1	1	1	1	1	1	1	5	8	9	8	6	1	1
110	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	1	1
115	2	2	2	2	2	2	2	2	1	1	2	2	1	2	2	1	1
120	2	3	3	2	2	2	2	3	2	2	2	3	3	3	2	2	2
125	2	3	3	3	2	2	3	3	2	2	2	2	2	2	2	2	2
130	3	4	4	4	3	3	3	4	2	3	2	2	2	2	2	3	2
135	3	4	4	4	4	4	4	4	2	3	3	2	3	3	3	3	2
140	3	4	6	5	5	4	5	4	3	3	3	3	3	3	4	3	3
145	3	5	5	6	5	5	4	3	3	4	4	3	4	4	4	4	3
150	3	5	5	6	6	5	4	3	3	4	4	4	4	5	5	4	3
155	4	5	5	5	5	4	3	4	3	3	5	5	5	5	6	4	3
160	3	5	5	5	5	3	4	3	3	3	4	6	6	6	6	5	3
165	4	4	4	5	6	4	5	4	3	3	3	5	5	6	5	6	3
170	4	4	5	4	4	4	4	5	4	4	4	4	4	5	5	5	4
175	5	5	5	4	3	4	5	5	4	4	4	4	4	5	5	6	4
180	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] Sam  
[TESTLAB]  
[ISSUE DATE]  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-WR-5000-48  
[\_TOTALLUMINAIRELUMENS] 4946.4  
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

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Reported data calculated from manufacturer's data file, based on IES recommended methods.