

Photometrics Pro

Luminaire Photometric Report

Filename: UDWP01C - Up-Down - CCT - 72W - 3000K - IES

Manufacturer: SARIN Energy Solutions

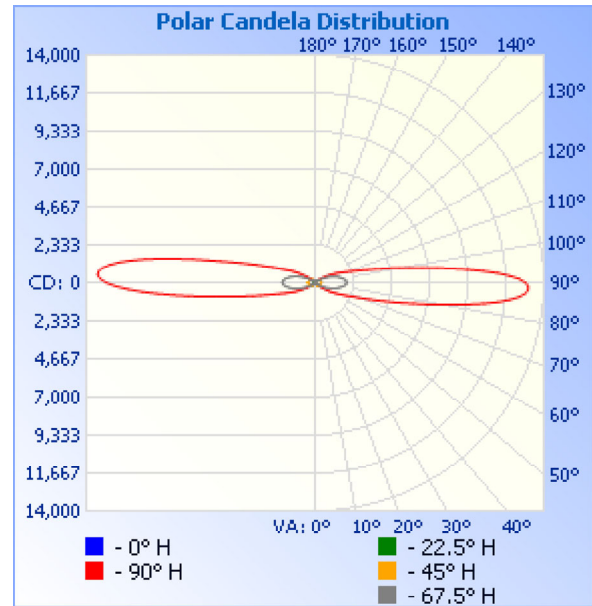
Lamp Output: 1 lamp, rated Lumens/lamp: 8538.6

Max Candela: 13,319.6 at Horizontal: 270°, Vertical: 92°

Input Wattage: 74.72

Luminous Opening: Point

Photometry : Type C



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	Unclassified, Unclassified	
Max Cd, 90 Deg Vert:	12,876.6	
Max Cd, 80 to <90 Deg:	13,046.9	
	Lumens	% Lamp
Downward Street Side:	2,039.0	23.9%
Downward House Side:	2,148.3	25.2%
Downward Total:	4,187.4	49%
Upward Street Side:	2,208.0	25.9%
Upward House Side:	2,143.1	25.1%
Upward Total:	4,351.1	51%
Total Lumens:	8,538.5	100%

Flood Summary

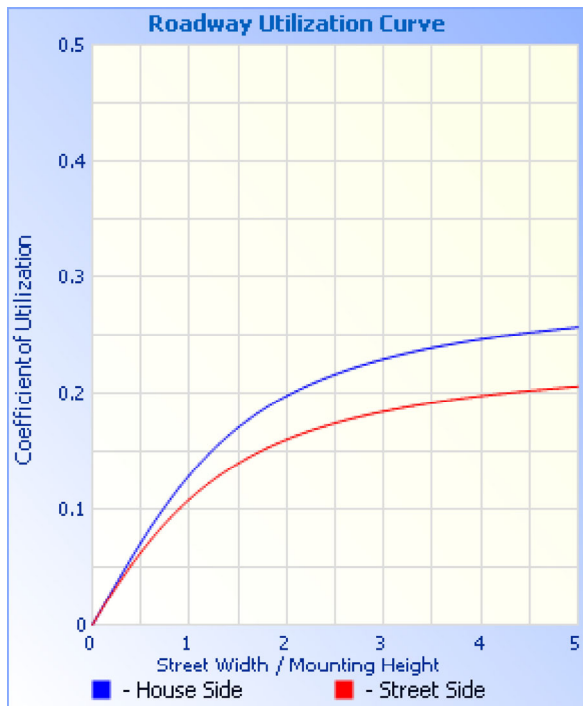
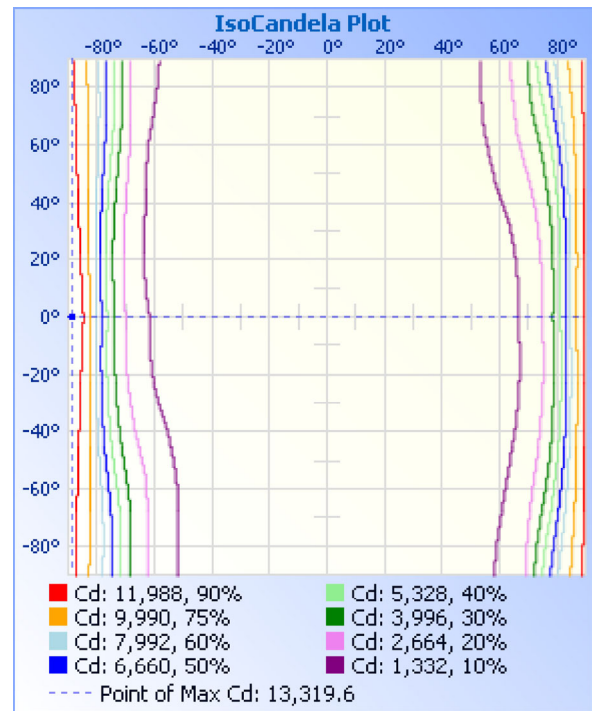
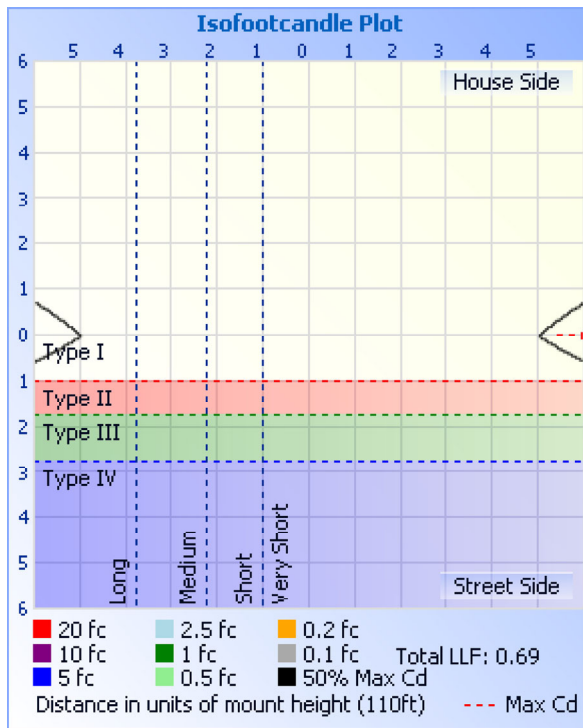
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	73.5%	6,277.9	27	n/a
Beam (50%):	25.2%	2,150.6	10.1	n/a
Total:	100.5%	8,577.6		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	40.4	0.5%	0.5%
0-40	107.1	1.3%	1.3%
0-60	425.1	5%	5%
60-90	3,763.1	44.1%	44.1%
70-100	5,497.3	64.4%	64.4%
90-120	3,921.8	45.9%	45.9%
0-90	4,188.2	49.1%	49%
90-180	4,352.1	51%	51%
0-180	8,540.3	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.2	0.0%	90-100	2,242.3	26.3%
10-20	7.1	0.1%	100-110	1,149.1	13.5%
20-30	33.1	0.4%	110-120	530.4	6.2%
30-40	66.7	0.8%	120-130	215.7	2.5%
40-50	110.2	1.3%	130-140	115.1	1.3%
50-60	207.9	2.4%	140-150	64.3	0.8%
60-70	508.1	5.9%	150-160	29.8	0.3%
70-80	1,094.5	12.8%	160-170	5.3	0.1%
80-90	2,160.5	25.3%	170-180	0.1	0%



Illuminance at a Distance

	Center Beam fc	Beam Width
1.7R	0.25 fc	0.3 ft
3.3R	0.07 fc	0.6 ft
5.0R	0.03 fc	0.9 ft
6.7R	0.02 fc	1.2 ft
8.3R	0.01 fc	1.5 ft
10.0R	0.01 fc	1.8 ft

■ Horiz. Spread: 10.1°

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	1.07	1.07	1.07	1.07	.99	.99	.99	.49	.83	.83	.83	.68	.68	.68	.68	.55	.55	.55	.55	.49	.49
1	.86	.77	.69	.62	.78	.70	.63	.20	.56	.50	.45	.43	.39	.34	.31	.28	.25	.25	.25	.18	.18
2	.76	.64	.53	.45	.68	.57	.48	.11	.45	.38	.32	.34	.28	.23	.24	.19	.15	.15	.15	.10	.10
3	.68	.54	.43	.35	.61	.48	.39	.07	.38	.30	.24	.28	.22	.17	.19	.15	.11	.11	.11	.06	.06

4	.62	.47	.36	.28	.55	.42	.32	.05	.33	.25	.19	.24	.18	.13	.17	.12	.08	.04
5	.56	.41	.31	.23	.50	.37	.28	.04	.29	.22	.16	.22	.16	.11	.15	.10	.06	.03
6	.52	.37	.27	.20	.46	.33	.24	.03	.26	.19	.13	.19	.14	.09	.13	.09	.05	.02
7	.48	.33	.23	.17	.43	.30	.21	.03	.23	.16	.11	.18	.12	.08	.12	.08	.04	.01
8	.44	.30	.21	.14	.40	.27	.19	.02	.21	.15	.10	.16	.11	.07	.11	.07	.04	.01
9	.41	.27	.18	.13	.37	.24	.17	.02	.19	.13	.09	.15	.10	.06	.10	.06	.03	.01
10	.38	.25	.17	.11	.35	.22	.15	.02	.18	.12	.08	.14	.09	.05	.10	.06	.03	.01

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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1
2	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1
3	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
4	1	1	1	0	2	2	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	3	2	3	1	1	1	1	1	1	1	1	1	1
6	1	1	2	2	4	6	3	1	1	1	1	1	1	1	1	1	1
7	1	1	1	2	6	8	4	1	1	1	2	3	1	2	1	1	1
8	1	1	4	4	8	12	5	1	1	1	3	3	2	2	1	1	1
9	1	1	4	4	11	17	7	1	1	1	4	4	3	4	2	1	1
10	1	1	6	6	15	22	9	1	1	1	6	6	5	6	3	1	1
11	1	1	9	9	21	30	13	1	1	1	7	9	6	9	4	1	1
12	1	1	11	12	28	41	15	1	1	1	9	12	9	12	5	1	1
13	1	1	14	16	36	54	20	1	1	1	12	16	13	17	7	1	1
14	1	1	17	22	43	69	25	1	1	1	16	21	17	23	9	1	1
15	1	1	23	29	51	81	30	1	1	1	20	29	24	32	12	1	1
16	1	2	29	37	57	94	38	2	1	1	25	37	31	42	14	1	1
17	1	2	36	43	64	106	47	2	1	1	30	44	40	56	17	1	1
18	1	2	45	49	69	118	57	2	1	1	38	51	47	71	22	1	1
19	1	2	56	55	75	129	69	2	1	1	48	57	54	87	27	1	1
20	1	3	67	60	79	138	78	3	1	2	59	63	60	99	34	1	1
21	1	3	79	65	84	148	87	3	1	2	72	69	67	111	43	1	1
22	1	3	88	70	88	157	95	3	1	2	84	74	73	123	52	2	1
23	1	4	95	75	92	164	105	4	1	3	94	79	78	134	64	2	1
24	1	4	105	78	95	171	114	4	1	3	104	83	83	145	76	2	1
25	1	5	113	82	98	178	121	5	1	3	114	88	88	155	86	2	1
26	1	5	122	86	101	184	129	5	1	4	122	91	92	163	95	2	1
27	1	6	129	89	103	190	135	5	1	4	132	94	96	172	103	3	1
28	1	7	136	92	107	195	143	6	1	5	140	99	100	180	112	3	1
29	1	7	144	94	109	200	149	7	1	5	148	102	103	187	122	3	1
30	1	8	150	97	112	205	154	7	0	6	154	105	106	193	129	3	1
31	1	9	156	99	116	208	159	8	1	7	161	107	109	199	136	4	1
32	1	10	161	102	121	213	165	9	1	8	168	110	112	205	144	5	1
33	0	12	168	104	124	220	170	10	1	9	174	113	115	210	151	5	0
34	1	13	172	107	129	226	175	11	1	10	180	115	118	216	158	6	1
35	1	14	178	110	133	233	178	12	0	11	186	118	122	220	163	6	1
36	1	15	182	114	137	240	182	13	0	12	191	122	127	226	169	7	1
37	1	17	186	118	142	246	185	14	0	13	196	126	132	231	175	8	1
38	1	18	190	122	147	254	189	15	1	14	200	130	136	237	180	8	1
39	1	19	192	125	153	260	192	16	1	15	205	135	141	244	185	9	1
40	1	20	197	129	159	268	195	18	1	17	208	139	145	253	190	10	1
41	1	22	199	133	167	274	198	19	1	18	213	143	150	260	193	11	1
42	1	22	203	136	174	284	200	20	1	20	216	146	156	269	197	12	1
43	1	24	206	141	183	292	204	20	0	21	220	151	161	275	200	13	1
44	1	24	210	146	192	302	206	21	0	22	224	156	168	285	204	14	1
45	1	26	213	151	201	315	210	22	0	23	227	162	177	293	208	15	1
46	1	26	216	157	212	328	213	23	0	24	231	169	186	302	210	16	1

47	1	27	220	163	223	342	216	24	0	25	234	176	195	312	213	17	1
48	1	28	224	170	239	359	219	25	1	26	238	186	205	324	217	18	1
49	1	29	229	176	262	373	222	25	0	27	242	193	215	336	219	20	1
50	0	30	234	184	298	385	226	26	1	28	247	201	228	350	222	20	0
51	1	31	239	191	343	399	230	27	0	29	252	208	241	364	226	21	1
52	1	32	242	197	405	414	234	28	0	30	258	217	255	377	229	22	1
53	1	32	246	204	476	432	237	28	1	31	263	226	276	395	234	23	1
54	1	33	251	213	556	458	242	29	0	32	268	237	305	414	238	24	1
55	1	34	257	226	639	490	244	29	0	33	273	246	346	433	242	25	1
56	1	34	260	245	724	534	247	30	0	33	277	263	407	451	247	26	1
57	1	35	265	268	819	592	250	30	0	34	281	286	480	471	252	26	1
58	1	36	270	298	926	668	255	31	0	35	286	313	556	489	258	27	1
59	1	36	273	335	1027	765	257	32	1	35	291	349	634	522	260	28	1
60	1	37	278	383	1132	879	260	32	1	36	296	394	721	553	264	29	1
61	1	37	284	437	1225	998	264	33	0	37	300	449	813	605	268	30	1
62	1	38	288	493	1335	1114	268	33	1	37	306	507	911	669	272	30	1
63	1	38	292	551	1442	1227	273	33	0	38	311	565	1012	751	276	31	1
64	1	39	297	611	1554	1345	274	34	0	39	318	629	1121	856	280	31	1
65	1	39	302	675	1674	1466	278	34	1	39	321	695	1231	956	284	32	1
66	1	40	307	742	1803	1588	283	34	0	40	327	761	1341	1071	289	32	1
67	1	40	312	810	1949	1714	286	35	0	40	333	832	1461	1184	292	33	1
68	1	40	318	879	2113	1845	289	35	0	40	338	900	1586	1298	298	33	1
69	1	41	324	941	2306	1970	293	35	0	41	343	971	1705	1415	302	34	1
70	1	41	328	1003	2531	2085	297	36	0	42	349	1043	1835	1530	306	34	1
71	1	41	332	1066	2806	2206	300	36	1	42	354	1113	1982	1646	310	35	1
72	1	42	336	1131	3122	2308	305	36	1	42	360	1186	2145	1761	314	35	1
73	1	42	339	1192	3479	2403	308	36	0	43	366	1254	2331	1878	318	36	1
74	1	42	342	1251	3907	2506	311	37	0	43	373	1320	2557	1996	322	36	1
75	1	43	347	1311	4388	2606	314	37	0	43	379	1383	2813	2115	324	37	1
76	0	43	351	1369	4899	2700	317	37	1	44	383	1441	3106	2234	328	37	0
77	1	43	354	1424	5469	2791	320	37	1	44	389	1496	3457	2343	333	37	1
78	1	43	360	1477	6108	2877	322	37	0	44	394	1549	3883	2446	336	37	1
79	1	44	363	1532	6895	2953	324	37	0	45	399	1603	4331	2548	341	38	1
80	1	44	366	1585	7694	3024	326	37	1	45	404	1655	4848	2644	344	38	1
81	1	44	369	1637	8584	3090	328	38	1	45	408	1706	5433	2726	348	38	1
82	1	44	370	1687	9510	3152	331	38	0	45	413	1757	6093	2807	350	39	1
83	1	44	373	1737	10437	3198	331	38	0	45	416	1805	6863	2878	353	39	1
84	1	44	375	1783	11280	3240	333	38	1	46	417	1850	7778	2946	356	39	1
85	1	44	376	1824	11962	3271	333	38	0	46	420	1894	8689	3008	358	39	1
86	1	44	377	1859	12522	3296	333	38	0	46	422	1931	9669	3065	361	39	1
87	1	44	378	1889	12866	3314	333	38	0	46	425	1961	10607	3117	362	39	1
88	1	44	380	1910	13039	3321	334	38	0	46	427	1982	11455	3155	363	40	1
89	1	44	380	1925	13047	3314	333	38	1	46	427	1998	12207	3191	365	40	1
90	1	44	379	1930	12877	3301	333	38	0	46	428	2004	12780	3215	366	40	1
91	1	44	378	1930	12516	3279	333	38	0	46	428	2002	13138	3229	366	40	1
92	1	44	378	1922	11925	3248	332	38	0	46	428	1996	13320	3234	367	40	1
93	1	44	378	1905	11207	3212	332	37	1	46	425	1977	13280	3230	367	40	1
94	1	44	376	1884	10331	3163	331	37	0	46	425	1956	13058	3212	368	40	1
95	1	44	375	1855	9373	3105	329	37	1	46	422	1927	12625	3190	367	40	1

96	1	44	372	1818	8409	3044	328	37	0	46	419	1889	12056	3164	366	40	1
97	1	44	368	1778	7490	2976	327	37	0	46	417	1850	11334	3125	365	40	1
98	1	44	367	1737	6622	2904	325	37	0	46	414	1803	10491	3082	365	40	1
99	1	43	362	1691	5869	2822	322	37	1	46	412	1756	9537	3034	365	40	1
100	1	43	359	1643	5243	2737	319	37	1	46	408	1707	8570	2985	362	40	1
101	1	43	356	1592	4680	2645	316	36	1	45	405	1652	7618	2925	360	40	1
102	1	43	354	1543	4161	2546	315	36	0	45	401	1595	6715	2856	358	40	1
103	1	43	351	1491	3730	2443	312	36	0	45	399	1538	5896	2780	356	39	1
104	1	42	349	1436	3330	2355	308	36	1	45	394	1480	5253	2688	353	39	1
105	1	42	346	1380	2979	2242	304	36	1	44	391	1420	4692	2590	350	39	1
106	1	42	344	1320	2695	2124	302	35	0	44	386	1356	4188	2494	347	39	1
107	1	41	340	1257	2457	1999	299	35	1	44	381	1290	3779	2393	344	39	1
108	1	41	336	1192	2248	1868	294	35	0	44	377	1223	3375	2283	341	38	1
109	1	41	332	1130	2066	1741	291	34	0	43	371	1157	3035	2171	337	38	1
110	1	40	327	1067	1910	1618	287	34	1	43	366	1084	2762	2056	334	38	1
111	1	40	323	1000	1769	1489	284	33	0	43	361	1012	2510	1934	330	38	1
112	1	39	318	928	1638	1369	281	33	0	42	355	942	2303	1816	328	37	1
113	1	39	314	857	1519	1251	277	33	0	42	349	870	2128	1698	324	37	1
114	1	39	307	784	1411	1134	273	32	0	41	344	799	1968	1573	320	37	1
115	1	38	302	715	1296	1011	271	32	0	41	337	733	1830	1445	316	36	1
116	1	38	296	647	1203	893	266	31	0	40	332	667	1703	1323	312	36	1
117	1	37	291	582	1099	778	263	31	1	40	325	600	1581	1202	308	35	1
118	0	37	286	521	980	677	258	30	0	39	320	540	1449	1078	304	35	0
119	0	36	281	459	871	603	255	30	0	39	315	482	1319	967	300	35	0
120	0	36	276	399	771	547	252	29	0	38	310	420	1207	856	295	34	0
121	1	35	273	347	679	493	249	28	0	38	304	370	1096	759	291	34	1
122	0	34	268	307	590	463	244	28	0	37	299	332	984	684	289	33	0
123	1	34	263	275	510	441	242	27	0	37	294	302	881	623	285	32	1
124	0	33	260	251	429	422	238	26	0	36	289	278	778	581	281	32	0
125	0	32	256	233	357	408	235	25	0	35	285	261	680	543	277	31	0
126	0	32	252	221	308	394	231	24	0	35	280	248	589	513	273	30	0
127	1	31	248	211	272	382	227	24	0	34	273	237	507	489	268	30	1
128	0	30	243	201	244	368	224	23	0	33	271	228	430	467	265	29	0
129	0	29	241	194	228	355	220	22	1	32	265	219	368	448	260	28	0
130	0	29	235	187	217	342	216	21	0	31	260	210	325	432	255	27	0
131	0	27	231	179	206	329	213	20	0	30	255	203	294	415	250	26	0
132	1	27	226	173	197	314	210	19	0	29	250	195	273	403	244	26	1
133	0	26	223	167	188	302	208	18	0	28	243	187	257	392	242	25	0
134	1	24	219	161	180	293	205	17	0	27	242	178	244	376	237	24	1
135	0	24	216	154	172	283	202	16	0	26	237	170	232	361	234	23	0
136	0	22	213	148	164	277	199	15	0	25	233	164	221	346	231	22	0
137	0	21	210	143	157	270	196	14	0	24	229	158	210	335	228	21	0
138	0	20	207	139	143	263	192	13	0	23	225	153	201	326	225	20	0
139	0	19	203	135	129	256	190	12	0	22	221	148	192	316	222	19	0
140	0	18	199	131	114	249	185	11	0	21	218	144	174	306	218	18	0
141	0	17	197	127	100	242	180	10	0	19	214	140	154	297	214	16	0
142	0	15	192	124	76	234	176	9	0	18	210	136	135	289	210	15	0
143	0	14	189	120	51	226	172	8	0	16	205	131	121	279	206	14	0
144	1	12	184	117	35	221	168	7	0	15	200	127	99	270	202	13	1

145	0	11	181	113	31	216	161	7	0	14	195	122	70	261	197	12	0
146	0	10	175	109	31	210	156	6	0	12	190	119	48	252	191	11	0
147	1	9	170	107	30	205	150	5	0	11	183	116	38	244	187	10	1
148	1	8	163	105	29	200	143	5	0	10	176	114	36	241	180	9	1
149	0	7	158	103	29	195	136	4	0	9	169	111	35	234	174	8	0
150	0	6	151	100	27	190	129	4	0	8	162	108	35	228	167	7	0
151	0	5	144	97	26	182	121	3	0	7	155	105	34	222	161	7	0
152	0	4	137	95	25	176	114	3	0	6	146	101	33	217	154	6	0
153	0	4	129	92	24	166	105	3	0	5	138	97	32	210	147	5	0
154	0	3	122	88	23	157	95	2	1	5	130	92	30	203	139	5	0
155	0	3	112	84	21	146	86	2	0	4	120	86	29	196	130	5	0
156	0	2	103	78	21	134	77	2	0	4	111	80	27	188	122	4	0
157	1	2	94	73	18	122	67	2	0	3	101	73	26	179	112	3	1
158	0	2	84	67	17	111	56	2	0	3	91	67	25	168	103	3	0
159	1	2	73	61	14	97	46	1	1	3	80	60	23	155	93	3	1
160	0	2	61	55	13	84	37	1	0	2	67	54	21	143	83	2	0
161	0	1	47	49	10	72	30	1	0	2	54	47	20	129	70	2	0
162	1	1	35	42	8	59	23	1	0	2	45	41	17	116	58	2	1
163	0	1	25	36	7	42	18	1	0	1	35	34	16	101	47	2	0
164	0	1	19	30	5	30	14	1	0	1	28	26	13	88	38	1	0
165	0	1	15	22	3	20	11	1	0	1	22	19	12	74	30	1	0
166	0	1	12	16	3	14	8	1	0	1	17	14	9	57	25	1	0
167	1	1	9	10	2	9	6	1	0	1	13	9	8	41	20	1	1
168	1	0	8	7	1	6	4	1	0	1	9	6	6	29	15	1	1
169	0	0	6	5	1	4	3	1	0	0	6	4	5	20	11	0	0
170	1	0	4	4	1	1	2	1	0	0	4	3	3	13	9	0	1
171	0	0	3	2	0	1	0	0	0	0	4	2	3	9	6	1	0
172	0	0	3	2	1	1	1	0	0	0	2	1	2	6	5	0	0
173	0	0	1	1	0	0	0	1	0	0	1	1	1	3	3	0	0
174	0	0	1	0	0	0	1	0	0	0	1	1	1	2	2	0	0
175	0	0	0	0	0	1	1	0	0	0	1	0	1	1	1	0	0
176	0	0	1	0	0	0	1	0	0	0	1	0	1	1	1	0	0
177	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0
178	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
179	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0
180	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB]
[ISSUEDATE] 2025/1/15 01:49
[MANUFAC] SARIN Energy Solutions
[_TOTALLUMINAIRELUMENS] 8540.3
[_VOLTAGE] 120.6 V
[_CURRENT] 0.625 A
[_POWERFACTOR] 0.990
[_TESTINST] GPM-1800B
[_TESTDIST] 8.190 M
[_TESTTEMPERATURE]
[_TESTHUMIDITY]
[_TESTOPERATOR]
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.