

Photometrics Pro

Luminaire Photometric Report

Filename: SB16 - Shoebox - CCT Tunable - 300W - 120V -T3 - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 43224

Max Candela: 20,748.0 at Horizontal: 67.5°, Vertical: 71°

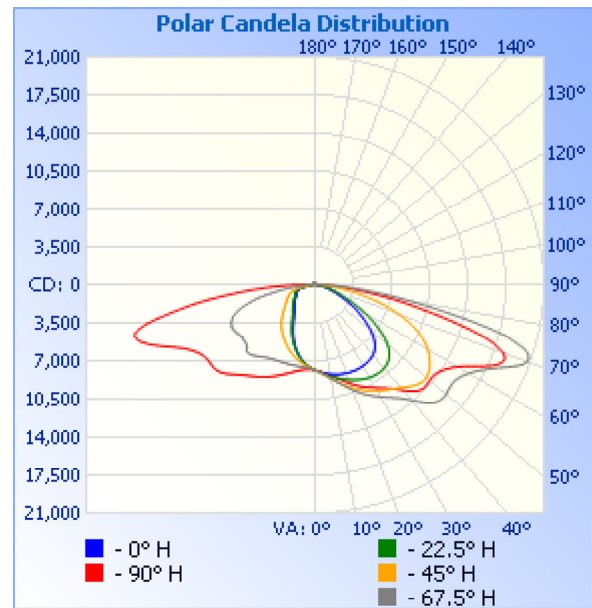
Input Wattage: 301.294

Luminous Opening: Circular (Dia: 3.94")

Test Date: 2023-02-02

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	2,372.6	
Max Cd, 80 to <90 Deg:	15,661.0	
	Lumens	% Lamp
Downward Street Side:	26,832.1	62.1%
Downward House Side:	15,696.9	36.3%
Downward Total:	42,529.0	98.4%
Upward Street Side:	250.7	0.6%
Upward House Side:	294.6	0.7%
Upward Total:	545.3	1.3%
Total Lumens:	43,074.3	99.7%

Flood Summary

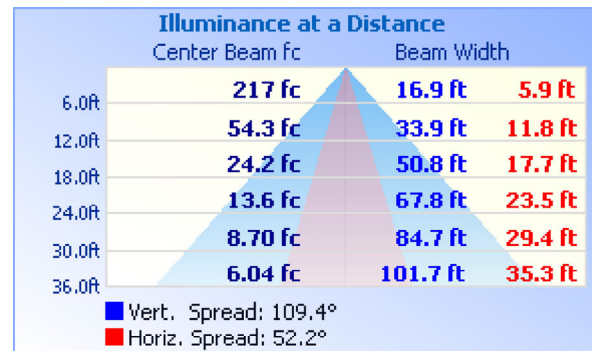
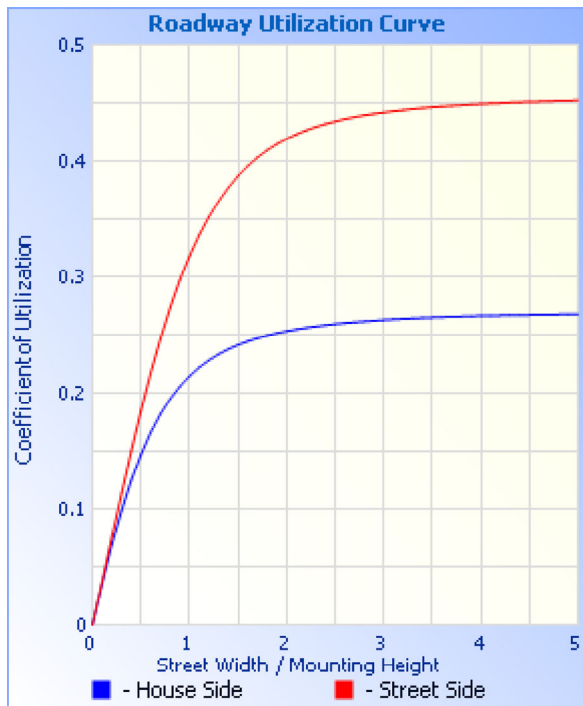
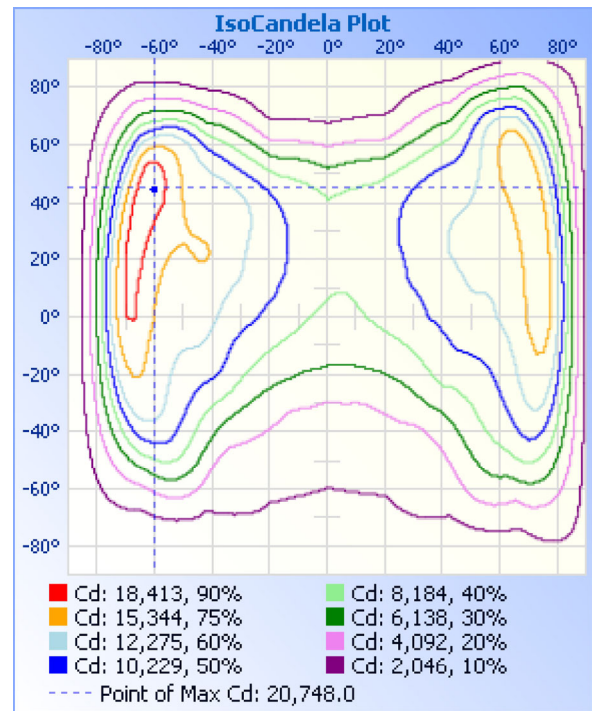
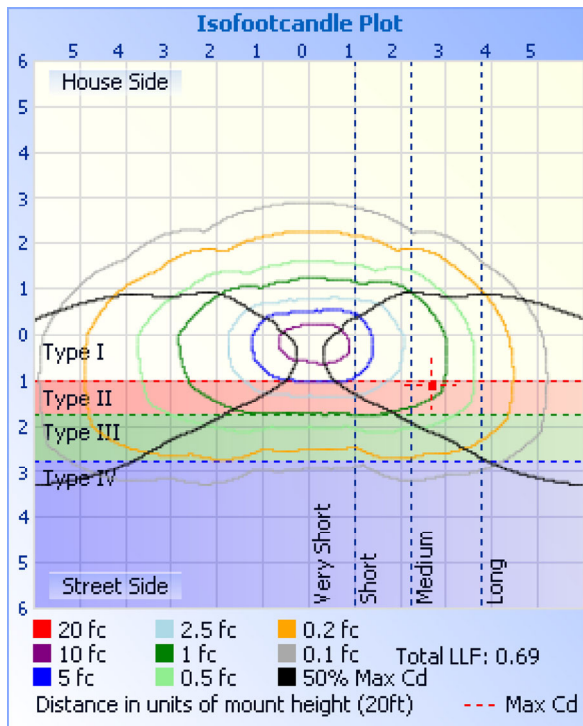
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.5%	41,298.9	173	151.6
Beam (50%):	47.2%	20,413.2	52.2	109.4
Total:	99.6%	43,058.8		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	6,851.9	15.9%	15.9%
0-40	12,151.1	28.1%	28.2%
0-60	26,252.7	60.7%	60.9%
60-90	16,275.5	37.7%	37.8%
70-100	8,655.4	20%	20.1%
90-120	283.2	0.7%	0.7%
0-90	42,528.1	98.4%	98.7%
90-180	545.3	1.3%	1.3%
0-180	43,073.5	99.7%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	753.5	1.7%	90-100	115.1	0.3%
10-20	2,282.9	5.3%	100-110	82.1	0.2%
20-30	3,815.6	8.9%	110-120	86.0	0.2%
30-40	5,299.1	12.3%	120-130	78.9	0.2%
40-50	6,726.1	15.6%	130-140	65.1	0.2%
50-60	7,375.5	17.1%	140-150	50.2	0.1%
60-70	7,735.2	18.0%	150-160	36.4	0.1%
70-80	6,489.0	15.1%	160-170	23.3	0.1%
80-90	2,051.2	4.8%	170-180	8.2	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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	.98	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.05	1.01	1.01	1.01	1.01	.98
1	1.05	.98	.93	.88	1.02	.96	.91	.77	.91	.87	.83	.77	.87	.84	.80	.77	.83	.80	.78	.75	.75
2	.93	.83	.74	.67	.90	.81	.73	.60	.77	.70	.64	.60	.73	.67	.63	.60	.70	.65	.61	.58	.58
3	.83	.70	.61	.53	.80	.69	.60	.48	.65	.57	.51	.48	.62	.56	.50	.48	.59	.54	.49	.46	.46

4	.75	.61	.51	.43	.72	.60	.50	.40	.57	.48	.42	.54	.47	.41	.52	.45	.40	.38
5	.68	.54	.43	.36	.66	.52	.43	.33	.50	.41	.35	.48	.40	.34	.46	.39	.34	.31
6	.63	.48	.37	.30	.60	.46	.37	.29	.44	.36	.30	.43	.35	.29	.41	.34	.29	.26
7	.58	.43	.33	.26	.56	.42	.32	.25	.40	.32	.26	.38	.31	.25	.37	.30	.25	.23
8	.53	.39	.29	.23	.52	.38	.29	.22	.36	.28	.22	.35	.27	.22	.34	.27	.22	.20
9	.50	.35	.26	.20	.48	.34	.26	.19	.33	.25	.20	.32	.25	.20	.31	.24	.19	.17
10	.47	.32	.24	.18	.45	.32	.23	.17	.30	.23	.18	.29	.22	.18	.28	.22	.17	.15

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	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826	7826
1	7889	7899	7897	7883	7858	7834	7810	7782	7766	7755	7759	7777	7802	7824	7844	7867	7889
2	7949	7971	7973	7949	7899	7848	7794	7736	7705	7685	7697	7734	7785	7827	7865	7907	7949
3	8007	8044	8057	8023	7948	7865	7781	7691	7639	7614	7641	7699	7778	7839	7889	7948	8007
4	8058	8117	8143	8105	8005	7888	7767	7642	7570	7545	7585	7671	7780	7856	7914	7985	8058
5	8107	8191	8236	8195	8070	7915	7752	7590	7496	7470	7532	7649	7790	7881	7943	8020	8107
6	8156	8264	8332	8292	8140	7944	7739	7535	7421	7393	7479	7633	7807	7913	7975	8056	8156
7	8200	8339	8433	8396	8215	7976	7722	7469	7334	7308	7428	7623	7835	7952	8013	8090	8200
8	8242	8409	8536	8509	8299	8011	7702	7397	7236	7216	7373	7616	7869	7999	8053	8122	8242
9	8279	8482	8647	8628	8392	8046	7677	7315	7124	7116	7316	7614	7913	8053	8097	8156	8279
10	8318	8553	8763	8756	8487	8082	7647	7228	7010	7012	7255	7615	7963	8117	8144	8189	8318
11	8355	8626	8881	8890	8583	8120	7612	7131	6894	6901	7191	7618	8020	8186	8197	8221	8355
12	8390	8697	8998	9030	8672	8156	7575	7031	6770	6788	7128	7623	8084	8264	8254	8254	8390
13	8424	8769	9122	9159	8761	8193	7530	6926	6638	6671	7060	7629	8152	8346	8314	8288	8424
14	8457	8841	9255	9289	8878	8229	7484	6816	6496	6548	6991	7635	8229	8436	8383	8324	8457
15	8488	8915	9383	9451	8998	8266	7434	6702	6358	6424	6923	7640	8308	8532	8453	8360	8488
16	8517	8986	9513	9611	9118	8306	7383	6586	6219	6296	6850	7648	8393	8632	8526	8395	8517
17	8543	9058	9644	9783	9247	8343	7330	6462	6071	6167	6780	7657	8479	8719	8602	8432	8543
18	8568	9130	9778	9952	9379	8383	7271	6338	5916	6032	6705	7666	8572	8807	8686	8468	8568
19	8588	9201	9910	10123	9516	8423	7211	6210	5760	5898	6631	7675	8668	8919	8773	8503	8588
20	8606	9271	10040	10295	9645	8467	7152	6080	5606	5760	6554	7684	8763	9035	8860	8539	8606
21	8622	9338	10172	10464	9776	8508	7088	5948	5446	5618	6477	7695	8862	9156	8948	8574	8622
22	8635	9406	10297	10629	9911	8549	7022	5811	5280	5476	6399	7705	8965	9275	9042	8609	8635
23	8647	9469	10422	10792	10046	8596	6952	5672	5112	5329	6318	7717	9067	9396	9133	8642	8647
24	8655	9531	10541	10948	10172	8644	6885	5533	4949	5183	6234	7730	9169	9514	9224	8677	8655
25	8665	9594	10659	11101	10297	8693	6818	5390	4781	5035	6150	7746	9271	9636	9318	8712	8665
26	8669	9651	10775	11254	10415	8746	6749	5246	4610	4886	6066	7762	9373	9754	9409	8747	8669
27	8671	9704	10888	11404	10540	8803	6681	5100	4440	4737	5980	7784	9471	9870	9502	8780	8671
28	8670	9757	11000	11557	10657	8863	6616	4954	4278	4589	5892	7807	9571	9986	9594	8811	8670
29	8663	9804	11107	11707	10777	8930	6553	4806	4126	4441	5805	7834	9666	10095	9682	8842	8663
30	8657	9848	11210	11854	10897	9002	6489	4657	3974	4294	5718	7866	9757	10201	9767	8872	8657
31	8644	9883	11319	12001	11026	9081	6425	4512	3824	4155	5630	7903	9850	10308	9856	8900	8644
32	8626	9917	11425	12154	11155	9169	6364	4372	3687	4019	5539	7947	9943	10412	9940	8926	8626
33	8606	9938	11525	12310	11287	9272	6307	4231	3567	3882	5450	7998	10033	10509	10022	8951	8606
34	8583	9959	11629	12476	11427	9382	6251	4098	3456	3759	5361	8056	10122	10607	10103	8971	8583
35	8554	9972	11734	12651	11583	9501	6193	3977	3354	3648	5272	8120	10218	10708	10180	8988	8554
36	8520	9978	11837	12833	11758	9636	6133	3861	3260	3539	5182	8194	10315	10809	10257	9000	8520
37	8482	9978	11943	13049	11940	9773	6071	3754	3175	3443	5092	8275	10417	10912	10331	9008	8482
38	8436	9970	12055	13284	12145	9905	6004	3660	3103	3359	5002	8357	10528	11019	10402	9008	8436
39	8383	9952	12175	13556	12371	10039	5931	3571	3036	3282	4910	8443	10645	11132	10476	9006	8383
40	8318	9926	12303	13847	12617	10153	5846	3490	2973	3212	4816	8526	10777	11250	10548	8995	8318
41	8240	9888	12441	14161	12868	10248	5749	3410	2914	3148	4719	8605	10919	11380	10621	8974	8240
42	8148	9838	12586	14477	13114	10317	5642	3333	2858	3085	4618	8676	11069	11520	10696	8944	8148
43	8040	9773	12733	14783	13333	10356	5526	3256	2805	3024	4517	8728	11225	11668	10769	8903	8040
44	7916	9689	12877	15067	13508	10366	5402	3182	2754	2966	4414	8760	11379	11828	10846	8845	7916
45	7774	9588	13008	15307	13645	10354	5274	3108	2703	2906	4308	8776	11528	11997	10921	8774	7774
46	7610	9464	13124	15488	13726	10328	5143	3034	2652	2847	4201	8762	11665	12160	10995	8684	7610

47	7431	9318	13217	15613	13767	10296	5014	2962	2604	2788	4096	8561	11785	12326	11061	8575	7431
48	7234	9151	13277	15675	13758	10269	4890	2893	2554	2731	3993	8420	11884	12477	11124	8448	7234
49	7019	8958	13304	15690	13731	10257	4765	2826	2505	2676	3893	8364	11957	12613	11175	8296	7019
50	6785	8737	13297	15665	13699	10266	4645	2761	2457	2620	3798	8326	12003	12722	11211	8122	6785
51	6541	8490	13258	15612	13676	10300	4528	2698	2409	2566	3704	8293	12027	12805	11227	7927	6541
52	6282	8216	13192	15562	13680	10354	4412	2639	2361	2515	3617	8291	12031	12861	11224	7708	6282
53	6018	7922	13100	15521	13715	10435	4300	2582	2315	2466	3532	8279	12027	12893	11196	7469	6018
54	5742	7601	12985	15506	13795	10536	4190	2528	2269	2417	3450	8204	12020	12911	11148	7211	5742
55	5462	7266	12853	15525	13909	10654	4082	2474	2223	2370	3372	8304	12027	12914	11078	6934	5462
56	5188	6920	12707	15588	14062	10784	3977	2425	2179	2324	3299	8331	12055	12914	10989	6645	5188
57	4905	6557	12538	15698	14244	10918	3874	2377	2135	2281	3228	8322	12112	12917	10878	6340	4905
58	4624	6196	12358	15842	14470	11058	3776	2331	2093	2239	3160	8435	12193	12938	10754	6034	4624
59	4343	5828	12160	16027	14742	11187	3680	2289	2053	2198	3095	8434	12309	12976	10610	5718	4343
60	4049	5463	11942	16262	15062	11298	3588	2249	2018	2162	3033	8536	12450	13036	10453	5400	4049
61	3765	5104	11707	16525	15458	11385	3499	2211	1983	2127	2974	8524	12625	13122	10279	5088	3765
62	3484	4714	11452	16841	15928	11439	3409	2176	1947	2094	2916	8596	12828	13235	10089	4768	3484
63	3220	4353	11169	17207	16458	11445	3322	2143	1914	2064	2862	8547	13069	13371	9880	4455	3220
64	2958	3993	10869	17632	17030	11395	3232	2111	1883	2038	2809	8578	13355	13540	9658	4137	2958
65	2722	3663	10537	18135	17615	11270	3138	2081	1850	2014	2757	8431	13703	13718	9412	3826	2722
66	2499	3348	10185	18695	18114	11047	3039	2049	1816	1990	2706	8484	14112	13941	9158	3533	2499
67	2291	3047	9808	19301	18472	10709	2932	2013	1791	1965	2656	8287	14572	14205	8890	3246	2291
68	2101	2782	9401	19898	18675	10275	2816	1979	1780	1935	2604	8186	15077	14510	8600	2991	2101
69	1926	2531	8971	20399	18666	9742	2690	1946	1770	1909	2549	8074	15578	14875	8299	2753	1926
70	1755	2297	8510	20685	18401	9144	2557	1910	1746	1890	2489	7826	16057	15282	7978	2532	1755
71	1596	2082	8020	20748	17768	8483	2414	1865	1705	1871	2421	7572	16494	15768	7648	2337	1596
72	1441	1867	7500	20567	17129	7768	2268	1811	1656	1849	2342	7280	16869	16289	7291	2158	1441
73	1303	1674	6969	20078	16022	7012	2124	1746	1594	1818	2249	6942	17119	16801	6928	1997	1303
74	1180	1494	6410	19102	14667	6215	1979	1638	1513	1755	2144	6556	17228	17250	6538	1837	1180
75	1065	1353	5866	18121	13151	5394	1835	1480	1407	1646	2023	6128	17091	17598	6141	1692	1065
76	941	1215	5302	16513	11653	4627	1687	1312	1250	1514	1902	5709	16621	17809	5724	1554	941
77	825	1082	4762	14580	10286	3962	1513	1137	1017	1366	1693	5262	15823	17705	5302	1428	825
78	708	957	4231	12550	9053	3372	1323	950	706	1191	1474	4751	14744	17597	4874	1304	708
79	597	844	3731	10795	7900	2830	1164	772	497	976	1291	4169	13515	16883	4447	1193	597
80	502	740	3264	9256	6752	2315	1005	594	410	753	1115	3670	12331	15661	4031	1084	502
81	430	649	2810	7912	5681	1891	812	466	348	530	953	3210	11151	14118	3622	984	430
82	371	567	2365	6597	4814	1514	625	389	289	416	823	2732	9894	12493	3230	886	371
83	320	494	1939	5415	3957	1193	441	314	231	349	677	2229	8480	10951	2849	792	320
84	276	430	1595	4454	3218	914	292	229	169	282	495	1840	7244	9470	2488	703	276
85	236	372	1296	3482	2525	675	188	125	106	176	356	1450	6163	7961	2119	621	236
86	202	319	1014	2645	1853	435	84	79	64	96	255	1122	5023	6635	1787	543	202
87	171	269	781	1918	1182	205	61	33	27	52	153	854	4019	5488	1486	470	171
88	140	221	549	1192	635	97	61	31	22	27	90	587	3060	4358	1224	401	140
89	113	174	348	588	94	97	64	31	22	24	58	345	2114	3285	978	333	113
90	88	128	172	328	93	101	67	32	22	25	51	149	1210	2373	744	264	88
91	62	81	105	70	96	106	70	34	22	27	54	122	834	1462	510	194	62
92	42	47	39	72	101	110	73	35	23	28	58	97	463	755	307	125	42
93	28	28	39	75	105	114	75	37	23	29	61	102	92	54	110	61	28
94	23	27	40	78	109	117	78	38	24	30	64	107	93	51	66	24	23
95	23	28	42	81	112	121	80	40	25	32	68	112	99	54	24	18	23

96	23	28	43	84	115	123	83	41	26	34	71	117	104	57	25	19	23
97	24	29	45	86	118	126	85	43	28	35	74	121	109	60	26	20	24
98	24	30	46	89	121	128	86	45	29	37	77	125	113	64	28	21	24
99	25	30	48	91	123	129	88	47	31	39	79	129	118	67	29	22	25
100	25	31	49	93	125	130	90	49	33	41	82	133	122	70	31	22	25
101	26	32	51	95	126	131	91	51	35	43	84	136	127	73	32	23	26
102	27	33	52	97	127	131	92	53	37	45	86	138	131	76	34	24	27
103	27	34	54	98	127	131	94	55	39	47	87	141	134	79	35	25	27
104	28	35	55	99	127	131	95	57	41	49	89	142	138	81	37	26	28
105	29	36	57	100	126	131	96	59	43	51	90	143	140	83	38	27	29
106	29	36	58	102	126	130	98	61	45	53	92	144	142	86	39	27	29
107	30	37	59	103	125	130	99	63	47	55	93	144	143	87	41	28	30
108	31	38	60	104	125	130	100	65	49	57	94	144	144	89	42	29	31
109	32	39	62	105	124	130	101	67	51	59	95	145	144	90	43	30	32
110	32	40	63	106	123	130	103	68	53	61	96	145	144	91	44	30	32
111	33	41	64	107	123	130	104	70	55	63	97	145	144	92	46	31	33
112	34	42	66	108	122	130	105	72	57	65	98	145	144	93	47	32	34
113	35	43	67	108	121	130	106	74	59	67	99	146	144	94	48	32	35
114	36	44	68	109	120	129	107	75	61	69	101	146	143	94	49	33	36
115	37	45	69	109	119	129	107	77	63	70	101	146	143	95	49	34	37
116	37	46	70	109	118	128	108	78	65	72	102	146	142	95	50	35	37
117	38	47	71	109	117	127	108	79	67	74	103	145	141	95	51	35	38
118	39	48	72	109	115	126	108	80	68	75	104	145	140	94	52	36	39
119	40	49	73	108	114	125	107	81	70	77	104	144	139	94	53	37	40
120	40	50	74	108	113	124	107	82	72	78	105	144	137	94	53	38	40
121	41	51	74	107	111	122	106	83	73	80	105	143	135	93	54	39	41
122	42	52	75	106	110	120	105	84	75	81	105	142	134	93	55	39	42
123	43	53	76	105	108	118	104	85	77	83	105	141	132	92	55	40	43
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2023-02-02
[TESTLAB]
[ISSUE DATE] 2023-02-02 10:24:06
[MANUFAC] SARIN Energy Solutions
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 43073.5
[OTHER] EVERFINE GO-2000A_V1 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.