IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-30L-DPW-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3913
[TESTLAB] TUV SUD America
[TESTDATE] 7/20/2020 8:23:12 AM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-02-LED-30L-DPW-40-80CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	178
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	1.16 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34749	33587	32661
55	33325	31181	28958
65	31923	28854	24851
75	30996	26526	19716
85	31117	21483	11010

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	9656	9656	9656	9656	9656	9656	9656	9656	9656	9656
2.5	9629	9635	9640	9649	9657	9649	9638	9642	9663	9685
5.0	9558	9571	9590	9611	9634	9615	9593	9605	9636	9669
7.5	9494	9507	9529	9546	9573	9553	9528	9538	9571	9603
10.0	9403	9416	9436	9453	9480	9462	9435	9442	9476	9511
12.5	9283	9296	9314	9330	9356	9339	9313	9319	9351	9387
15.0	9148	9153	9172	9180	9208	9194	9167	9169	9202	9238
17.5	9008	9009	9030	9036	9062	9056	9033	9037	9075	9101
20.0	8825	8851	8863	8884	8907	8897	8871	8871	8899	8930
22.5	8608	8636	8644	8659	8682	8672	8645	8646	8670	8706
25.0	8370	8391	8398	8406	8428	8421	8392	8391	8416	8450
27.5	8110	8126	8127	8135	8151	8147	8117	8117	8138	8169
30.0	7840	7849	7842	7852	7857	7854	7821	7822	7840	7865
32.5	7569	7566	7554	7560	7554	7544	7506	7506	7523	7539
35.0	7280	7285	7262	7256	7239	7213	7171	7170	7181	7194
37.5	6985	6989	6954	6937	6905	6868	6822	6817	6822	6833
40.0	6687	6676	6631	6608	6564	6514	6464	6454	6456	6457
42.5	6371	6352	6312	6277	6223	6157	6097	6078	6073	6071
45.0	6043	6035	5995	5938	5883	5799	5725	5694	5680	5680
47.5	5725	5713	5664	5599	5530	5431	5343	5299	5285	5281
50.0	5401	5379	5327	5255	5171	5061	4959	4906	4889	4879
52.5	5055	5036	4983	4902	4813	4697	4583	4517	4498	4480
55.0	4701	4685	4641	4558	4458	4339	4214	4129	4103	4085
57.5	4355	4344	4298	4220	4109	3982	3850	3751	3709	3693
60.0	4016	4004	3960	3878	3759	3626	3487	3380	3331	3311
62.5	3671	3657	3613	3527	3410	3275	3132	3021	2960	2942
65.0	3318	3302	3260	3170	3066	2932	2785	2671	2598	2583
67.5	2968	2954	2918	2828	2729	2602	2450	2333	2249	2232
70.0	2633	2619	2581	2494	2396	2275	2129	2004	1910	1894
72.5	2310	2300	2256	2166	2071	1952	1814	1689	1584	1570
75.0	1973	1975	1935	1847	1745	1632	1508	1384	1276	1255
77.5	1598	1605	1577	1508	1424	1322	1210	1094	984	954
80.0	1240	1245	1200	1150	1093	1017	920	820	719	678
82.5	946	938	891	833	769	715	641	562	479	435
85.0	667	655	606	545	490	431	374	326	272	236
87.5	342	327	287	245	213	169	144	126	106	92
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	100	**110**	**120**	**130**	**140**	**150**	**160**	**170**	**180**	**190**
0.0	9656	9656	9656	9656	9656	9656	9656	9656	9656	9656
2.5	9672	9635	9623	9651	9677	9676	9652	9635	9594	9605
5.0	9645	9596	9578	9608	9644	9634	9613	9597	9558	9565
7.5	9576	9527	9510	9541	9579	9568	9543	9535	9497	9504
10.0	9477	9430	9414	9446	9483	9472	9453	9439	9404	9415
12.5	9357	9308	9293	9329	9366	9351	9330	9321	9282	9295
15.0	9211	9162	9149	9185	9220	9204	9185	9175	9151	9145
17.5	9085	9042	9037	9081	9082	9054	9022	9062	9018	9018
20.0	8900	8857	8849	8892	8916	8892	8884	8867	8836	8842
22.5	8666	8627	8622	8666	8689	8670	8662	8645	8611	8615
25.0	8411	8375	8371	8416	8435	8410	8411	8395	8361	8368
27.5	8132	8100	8096	8133	8158	8131	8138	8126	8096	8106
30.0	7828	7804	7801	7841	7872	7845	7855	7848	7826	7841
32.5	7505	7487	7491	7532	7571	7554	7569	7574	7551	7563
35.0	7166	7153	7159	7206	7253	7251	7273	7295	7275	7266
37.5	6813	6805	6807	6862	6914	6928	6962	6993	6977	6962
40.0	6441	6441	6444	6508	6566	6593	6639	6674	6660	6657
42.5	6055	6062	6077	6152	6224	6259	6312	6353	6339	6341
45.0	5659	5673	5699	5789	5886	5933	5992	6032	6028	6024
47.5	5267	5279	5321	5427	5537	5601	5663	5709	5710	5705
50.0	4868	4889	4941	5060	5171	5249	5317	5374	5381	5368
52.5	4475	4501	4564	4692	4815	4890	4968	5024	5035	5021
55.0	4082	4120	4197	4331	4463	4551	4630	4674	4679	4666
57.5	3694	3740	3836	3980	4111	4210	4280	4340	4325	4321
60.0	3316	3374	3472	3620	3763	3867	3946	4002	3983	3980
62.5	2944	3021	3125	3273	3410	3520	3598	3653	3647	3640
65.0	2586	2669	2778	2935	3064	3161	3246	3298	3306	3295
67.5	2236	2327	2443	2602	2728	2820	2902	2955	2961	2942
70.0	1904	2000	2124	2282	2402	2489	2576	2625	2613	2594
72.5	1581	1688	1810	1946	2082	2162	2251	2304	2288	2272
75.0	1274	1388	1507	1636	1758	1848	1939	1989	1982	1958
77.5	983	1100	1206	1325	1448	1524	1592	1620	1634	1610
80.0	719	831	920	1033	1130	1164	1221	1263	1283	1266

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CANDELA TABULATION - (Cont.)

82.5	484	575	653	739	809	850	918	966	985	966
85.0	276	336	390	461	532	571	631	689	670	642
87.5	106	127	142	188	236	263	313	362	330	293
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	200	**210**	**220**	**230**	**240**	**250**	**260**	**270**	**280**	**290**
0.0	9656	9656	9656	9656	9656	9656	9656	9656	9656	9656
2.5	9623	9647	9670	9653	9634	9641	9675	9705	9680	9632
5.0	9589	9610	9632	9617	9598	9604	9638	9667	9642	9595
7.5	9526	9546	9569	9553	9534	9542	9575	9602	9577	9530
10.0	9435	9455	9476	9460	9441	9448	9480	9508	9483	9439
12.5	9317	9337	9356	9341	9323	9326	9357	9384	9361	9318
15.0	9168	9191	9210	9197	9187	9180	9212	9237	9212	9178
17.5	9038	9059	9078	9064	9051	9038	9070	9090	9056	9052
20.0	8861	8884	8904	8898	8881	8878	8905	8928	8905	8869
22.5	8634	8654	8676	8675	8655	8650	8672	8697	8676	8642
25.0	8386	8404	8429	8425	8403	8401	8418	8438	8414	8388
27.5	8121	8139	8155	8151	8128	8130	8139	8154	8131	8108

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CANDELA TABULATION - (Cont.)

30.0	7840	7856	7862	7857	7835	7833	7839	7849	7829	7809
32.5	7550	7558	7555	7539	7522	7516	7516	7525	7509	7492
35.0	7251	7249	7233	7206	7189	7181	7177	7180	7171	7161
37.5	6944	6937	6903	6869	6844	6832	6826	6818	6812	6813
40.0	6631	6614	6563	6518	6487	6470	6458	6436	6437	6453
42.5	6309	6279	6213	6160	6113	6089	6075	6050	6056	6074
45.0	5985	5936	5864	5797	5735	5699	5687	5659	5665	5688
47.5	5655	5593	5513	5433	5357	5310	5289	5261	5261	5295
50.0	5317	5247	5158	5063	4978	4919	4891	4859	4865	4902
52.5	4971	4898	4805	4697	4602	4529	4494	4461	4471	4517
55.0	4618	4548	4449	4330	4225	4144	4096	4066	4080	4130
57.5	4274	4198	4093	3965	3857	3764	3708	3669	3693	3752
60.0	3935	3855	3739	3612	3497	3391	3327	3287	3313	3385
62.5	3597	3515	3395	3265	3140	3030	2959	2917	2946	3027
65.0	3251	3174	3059	2928	2793	2677	2597	2558	2585	2674
67.5	2905	2828	2723	2597	2458	2334	2243	2212	2238	2343
70.0	2565	2487	2389	2266	2133	2008	1910	1875	1905	2012
72.5	2234	2151	2061	1942	1824	1695	1582	1549	1578	1693
75.0	1919	1836	1738	1630	1519	1393	1275	1237	1275	1396
77.5	1573	1515	1433	1323	1220	1106	986	940	988	1108
80.0	1222	1174	1113	1026	933	832	716	659	717	833
82.5	914	860	792	729	657	572	478	420	481	575
85.0	600	557	493	440	395	337	273	225	275	336
87.5	271	255	208	173	159	137	109	86	108	135
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**						
	300	**310**	**320**	**330**	**340**	**350**	**360**
0.0	9656	9656	9656	9656	9656	9656	9656
2.5	9620	9644	9675	9673	9647	9633	9629
5.0	9583	9607	9637	9638	9609	9595	9558
7.5	9527	9544	9577	9577	9549	9533	9494
10.0	9435	9457	9485	9488	9460	9443	9403
12.5	9317	9338	9363	9367	9336	9319	9283
15.0	9176	9195	9214	9217	9186	9169	9148
17.5	9028	9071	9068	9076	9057	9051	9008
20.0	8876	8890	8902	8910	8878	8863	8825
22.5	8657	8665	8682	8682	8655	8635	8608
25.0	8404	8411	8428	8430	8406	8387	8370
27.5	8124	8136	8149	8152	8137	8118	8110
30.0	7832	7836	7851	7849	7847	7841	7840
32.5	7519	7532	7548	7556	7571	7563	7569
35.0	7189	7210	7223	7258	7283	7281	7280
37.5	6845	6873	6894	6942	6979	6984	6985
40.0	6489	6524	6559	6615	6660	6667	6687
42.5	6113	6163	6206	6281	6328	6343	6371
45.0	5735	5798	5847	5943	5999	6027	6043
47.5	5363	5430	5501	5598	5676	5703	5725
50.0	4985	5066	5158	5269	5345	5373	5401
52.5	4606	4704	4803	4924	5005	5030	5055
55.0	4236	4343	4440	4573	4645	4670	4701
57.5	3872	3977	4084	4216	4289	4312	4355
60.0	3507	3625	3730	3865	3947	3977	4016
62.5	3157	3285	3389	3536	3605	3633	3671
65.0	2815	2940	3055	3201	3277	3296	3318
67.5	2479	2613	2725	2862	2933	2956	2968
70.0	2150	2281	2382	2510	2580	2599	2633
72.5	1838	1952	2050	2169	2241	2261	2310
75.0	1532	1636	1726	1850	1926	1942	1973
77.5	1232	1326	1419	1534	1579	1571	1598
80.0	945	1036	1097	1184	1223	1233	1240
82.5	667	738	785	869	917	942	946
85.0	401	450	499	588	621	643	667
87.5	157	181	207	263	295	309	342
90.0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

117.5	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3507.96	N.A.	13.70
0-30	7376.65	N.A.	28.90
0-40	11891.00	N.A.	46.60
0-60	20321.72	N.A.	79.60
0-80	25012.27	N.A.	97.90
0-90	25536.54	N.A.	100.00
10-90	24624.12	N.A.	96.40
20-40	8383.05	N.A.	32.80
20-50	12888.74	N.A.	50.50
40-70	11374.36	N.A.	44.50
60-80	4690.54	N.A.	18.40
70-80	1746.91	N.A.	6.80
80-90	524.28	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	25536.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	912.43
10-20	2595.53
20-30	3868.7
30-40	4514.35
40-50	4505.69
50-60	3925.03
60-70	2943.64
70-80	1746.91
80-90	524.28
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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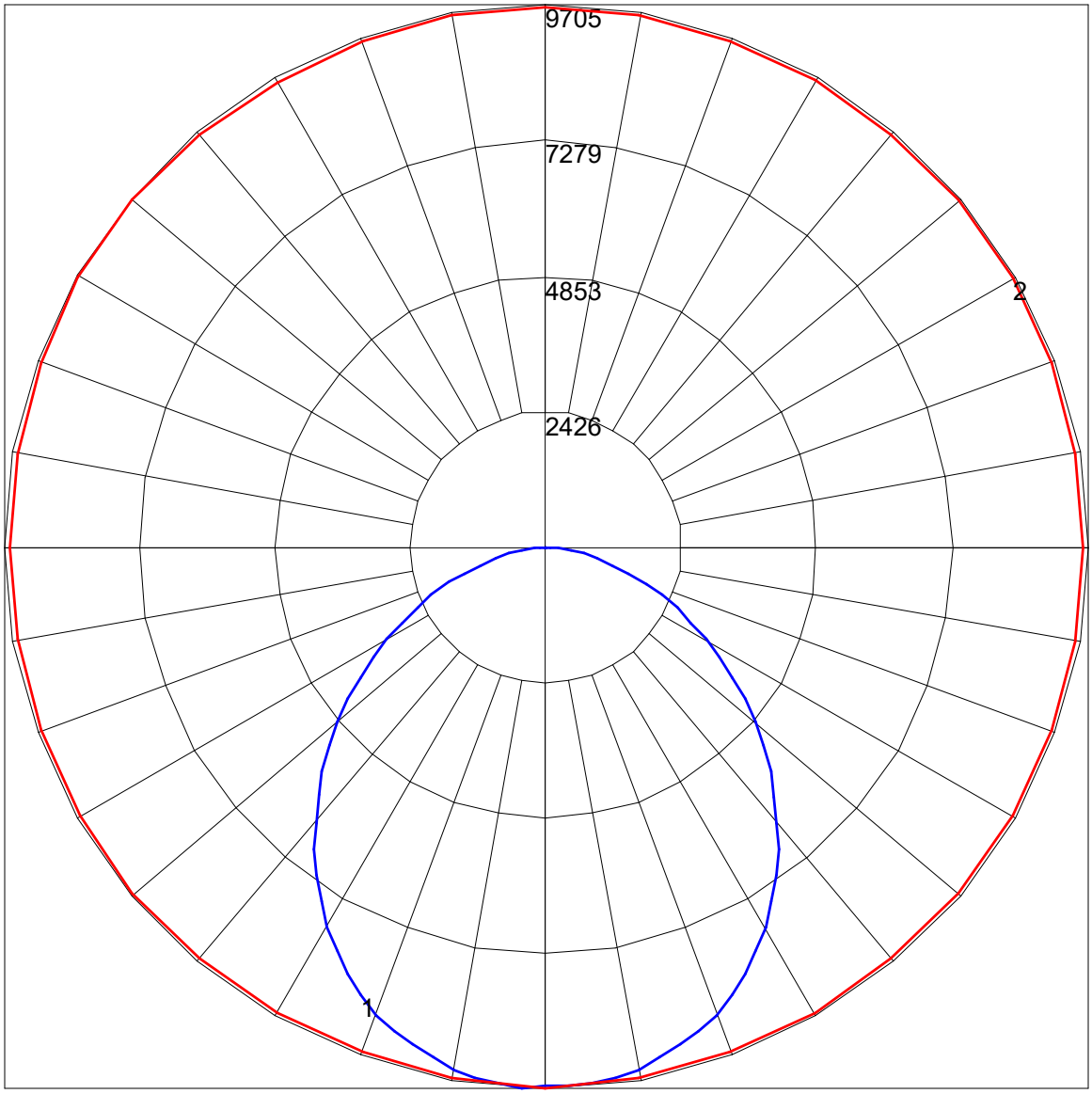
POLAR GRAPH



Maximum Candela = 9705 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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