IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-30L-DPW-50-80CRI.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-50-80CRI
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26379
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	177
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	35893	34694	33737
55	34424	32208	29915
65	32971	29806	25669
75	32017	27406	20360
85	32144	22183	11383

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	9974	9974	9974	9974	9974	9974	9974	9974	9974	9974
2.5	9946	9953	9958	9967	9975	9967	9956	9960	9982	10004
5.0	9873	9887	9906	9928	9952	9932	9909	9922	9954	9988
7.5	9807	9820	9843	9861	9889	9868	9842	9852	9887	9920
10.0	9713	9726	9747	9765	9793	9774	9746	9753	9788	9825
12.5	9589	9603	9621	9638	9664	9647	9620	9626	9659	9697
15.0	9450	9455	9474	9483	9512	9497	9469	9471	9505	9543
17.5	9305	9306	9328	9334	9361	9355	9331	9335	9374	9401
20.0	9116	9143	9155	9177	9201	9190	9163	9163	9192	9224
22.5	8892	8921	8929	8945	8968	8958	8930	8931	8956	8993
25.0	8646	8668	8675	8683	8706	8699	8669	8668	8693	8729
27.5	8377	8394	8395	8403	8420	8416	8385	8385	8406	8438
30.0	8098	8108	8101	8111	8116	8113	8079	8080	8098	8124
32.5	7819	7815	7803	7809	7803	7793	7753	7753	7771	7788
35.0	7520	7525	7501	7495	7478	7451	7407	7406	7418	7431
37.5	7215	7219	7183	7166	7133	7094	7047	7042	7047	7058
40.0	6907	6896	6850	6826	6780	6729	6677	6667	6669	6670
42.5	6581	6561	6520	6484	6428	6360	6298	6278	6273	6271
45.0	6242	6234	6193	6134	6077	5990	5914	5882	5867	5867
47.5	5914	5901	5851	5784	5712	5610	5519	5474	5459	5455
50.0	5579	5556	5503	5428	5341	5228	5123	5068	5050	5040
52.5	5222	5202	5147	5064	4972	4852	4734	4666	4646	4628
55.0	4856	4839	4794	4708	4605	4482	4353	4265	4238	4220
57.5	4499	4487	4440	4359	4244	4113	3977	3875	3831	3815
60.0	4148	4136	4091	4006	3883	3746	3602	3491	3441	3420
62.5	3792	3778	3732	3643	3522	3383	3235	3121	3058	3039
65.0	3427	3411	3367	3275	3167	3029	2877	2759	2684	2668
67.5	3066	3051	3014	2921	2819	2688	2531	2410	2323	2306
70.0	2720	2705	2666	2576	2475	2350	2199	2070	1973	1956
72.5	2386	2376	2330	2237	2139	2016	1874	1745	1636	1622
75.0	2038	2040	1999	1908	1803	1686	1558	1430	1318	1296
77.5	1651	1658	1629	1558	1471	1366	1250	1130	1016	985
80.0	1281	1286	1240	1188	1129	1051	950	847	743	700
82.5	977	969	920	860	794	739	662	581	495	449
85.0	689	677	626	563	506	445	386	337	281	244
87.5	353	338	296	253	220	175	149	130	109	95
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	9974	9974	9974	9974	9974	9974	9974	9974	9974	9974
2.5	9991	9953	9940	9969	9996	9995	9970	9953	9910	9922
5.0	9963	9912	9894	9925	9962	9952	9930	9913	9873	9880
7.5	9892	9841	9824	9856	9895	9883	9858	9849	9810	9817
10.0	9789	9741	9724	9757	9796	9784	9765	9750	9714	9725
12.5	9666	9615	9599	9637	9675	9659	9638	9628	9588	9601
15.0	9515	9464	9451	9488	9524	9507	9488	9478	9453	9447
17.5	9385	9340	9335	9380	9381	9353	9319	9361	9315	9315
20.0	9193	9149	9141	9185	9210	9185	9177	9159	9127	9134
22.5	8952	8911	8906	8952	8975	8956	8948	8930	8895	8899
25.0	8688	8651	8647	8693	8713	8687	8688	8672	8637	8644
27.5	8400	8367	8363	8401	8427	8399	8406	8394	8363	8373
30.0	8086	8061	8058	8100	8132	8104	8114	8107	8084	8100
32.5	7752	7734	7738	7780	7821	7803	7819	7824	7800	7812
35.0	7402	7389	7395	7444	7492	7490	7513	7536	7515	7506
37.5	7038	7029	7031	7088	7142	7156	7192	7224	7207	7192
40.0	6653	6653	6656	6723	6782	6810	6858	6894	6880	6876
42.5	6255	6262	6277	6355	6429	6465	6520	6562	6548	6550
45.0	5846	5860	5887	5980	6080	6129	6190	6231	6227	6223
47.5	5441	5453	5496	5606	5720	5786	5850	5897	5898	5893
50.0	5029	5050	5104	5227	5341	5422	5492	5551	5558	5545
52.5	4623	4649	4714	4847	4974	5051	5132	5190	5201	5187
55.0	4217	4256	4335	4474	4610	4701	4783	4828	4833	4820
57.5	3816	3863	3962	4111	4247	4349	4421	4483	4468	4463
60.0	3425	3485	3586	3739	3887	3995	4076	4134	4114	4111
62.5	3041	3121	3228	3381	3522	3636	3717	3773	3767	3760
65.0	2671	2757	2870	3032	3165	3265	3353	3407	3415	3404
67.5	2310	2404	2524	2688	2818	2913	2998	3052	3059	3039
70.0	1967	2066	2194	2357	2481	2571	2661	2712	2699	2680
72.5	1633	1744	1870	2010	2151	2233	2325	2380	2363	2347
75.0	1316	1434	1557	1690	1816	1909	2003	2055	2047	2023
77.5	1015	1136	1246	1369	1496	1574	1644	1673	1688	1663
80.0	743	858	950	1067	1167	1202	1261	1305	1325	1308

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CANDELA TABULATION - (Cont.)

82.5	500	594	675	763	836	878	948	998	1017	998
85.0	285	347	403	476	550	590	652	712	692	663
87.5	109	131	147	194	244	272	323	374	341	303
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	9974	9974	9974	9974	9974	9974	9974	9974	9974	9974
2.5	9940	9965	9989	9971	9952	9959	9994	10025	9999	9950
5.0	9905	9927	9950	9934	9914	9921	9956	9986	9960	9911
7.5	9840	9861	9885	9868	9848	9857	9891	9919	9893	9844
10.0	9746	9767	9788	9772	9752	9760	9793	9821	9796	9750
12.5	9624	9645	9664	9649	9630	9633	9666	9693	9670	9625
15.0	9470	9494	9514	9500	9490	9483	9516	9542	9516	9481
17.5	9336	9358	9377	9363	9349	9336	9369	9390	9355	9350
20.0	9153	9177	9198	9191	9174	9171	9199	9222	9199	9161
22.5	8919	8939	8962	8961	8940	8935	8958	8984	8962	8927
25.0	8663	8681	8707	8703	8680	8678	8696	8716	8691	8665
27.5	8389	8407	8424	8420	8396	8398	8407	8423	8399	8375

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CANDELA TABULATION - (Cont.)

30.0	8098	8115	8121	8116	8093	8091	8097	8108	8087	8066
32.5	7799	7807	7804	7788	7770	7764	7764	7773	7757	7739
35.0	7490	7488	7471	7444	7426	7418	7414	7417	7407	7397
37.5	7173	7166	7131	7095	7070	7057	7051	7043	7037	7038
40.0	6850	6832	6779	6733	6701	6683	6671	6648	6649	6666
42.5	6517	6486	6418	6363	6315	6290	6275	6249	6256	6274
45.0	6182	6132	6057	5988	5924	5887	5875	5846	5852	5876
47.5	5841	5777	5695	5612	5534	5485	5463	5434	5434	5470
50.0	5492	5420	5328	5230	5142	5081	5052	5019	5025	5064
52.5	5135	5059	4963	4852	4754	4678	4642	4608	4618	4666
55.0	4770	4698	4596	4473	4364	4281	4231	4200	4215	4266
57.5	4415	4336	4228	4096	3984	3888	3830	3790	3815	3876
60.0	4065	3982	3862	3731	3612	3503	3437	3395	3422	3497
62.5	3716	3631	3507	3373	3244	3130	3057	3013	3043	3127
65.0	3358	3279	3160	3025	2885	2765	2683	2642	2670	2762
67.5	3001	2921	2813	2683	2539	2411	2317	2285	2312	2420
70.0	2650	2569	2468	2341	2203	2074	1973	1937	1968	2078
72.5	2308	2222	2129	2006	1884	1751	1634	1600	1630	1749
75.0	1982	1897	1795	1684	1569	1439	1317	1278	1317	1442
77.5	1625	1565	1480	1367	1260	1142	1019	971	1021	1145
80.0	1262	1213	1150	1060	964	859	740	681	741	860
82.5	944	888	818	753	679	591	494	434	497	594
85.0	620	575	509	455	408	348	282	232	284	347
87.5	280	263	215	179	164	142	113	89	112	139
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	9974	9974	9974	9974	9974	9974	9974
2.5	9937	9962	9994	9992	9965	9951	9946
5.0	9899	9924	9955	9956	9926	9911	9873
7.5	9841	9859	9893	9893	9864	9847	9807
10.0	9746	9769	9798	9801	9772	9754	9713
12.5	9624	9646	9672	9676	9644	9626	9589
15.0	9479	9498	9518	9521	9489	9471	9450
17.5	9326	9370	9367	9375	9356	9349	9305
20.0	9169	9183	9196	9204	9171	9155	9116
22.5	8942	8951	8968	8968	8940	8920	8892
25.0	8681	8688	8706	8708	8683	8664	8646
27.5	8392	8404	8418	8421	8405	8386	8377
30.0	8090	8094	8110	8108	8106	8100	8098
32.5	7767	7780	7797	7805	7821	7812	7819
35.0	7426	7448	7461	7497	7523	7521	7520
37.5	7071	7100	7121	7171	7209	7214	7215
40.0	6703	6739	6775	6833	6880	6887	6907
42.5	6315	6366	6411	6488	6537	6552	6581
45.0	5924	5989	6040	6139	6197	6226	6242
47.5	5540	5609	5682	5783	5863	5891	5914
50.0	5149	5233	5328	5443	5521	5550	5579
52.5	4758	4859	4961	5086	5170	5196	5222
55.0	4376	4486	4586	4724	4798	4824	4856
57.5	4000	4108	4219	4355	4430	4454	4499
60.0	3623	3745	3853	3992	4077	4108	4148
62.5	3261	3393	3501	3653	3724	3753	3792
65.0	2908	3037	3156	3307	3385	3405	3427
67.5	2561	2699	2815	2956	3030	3053	3066
70.0	2221	2356	2461	2593	2665	2685	2720
72.5	1899	2016	2118	2241	2315	2336	2386
75.0	1583	1690	1783	1911	1990	2006	2038
77.5	1273	1370	1466	1585	1631	1623	1651
80.0	976	1070	1133	1223	1263	1274	1281
82.5	689	762	811	898	947	973	977
85.0	414	465	515	607	641	664	689
87.5	162	187	214	272	305	319	353
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	3623.62	N.A.	13.70
0-30	7619.87	N.A.	28.90
0-40	12283.07	N.A.	46.60
0-60	20991.73	N.A.	79.60
0-80	25837.02	N.A.	97.90
0-90	26378.57	N.A.	100.00
10-90	25436.06	N.A.	96.40
20-40	8659.44	N.A.	32.80
20-50	13313.68	N.A.	50.50
40-70	11749.4	N.A.	44.50
60-80	4845.29	N.A.	18.40
70-80	1804.55	N.A.	6.80
80-90	541.56	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	26378.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	942.51
10-20	2681.11
20-30	3996.25
30-40	4663.19
40-50	4654.24
50-60	4054.43
60-70	3040.73
70-80	1804.55
80-90	541.56
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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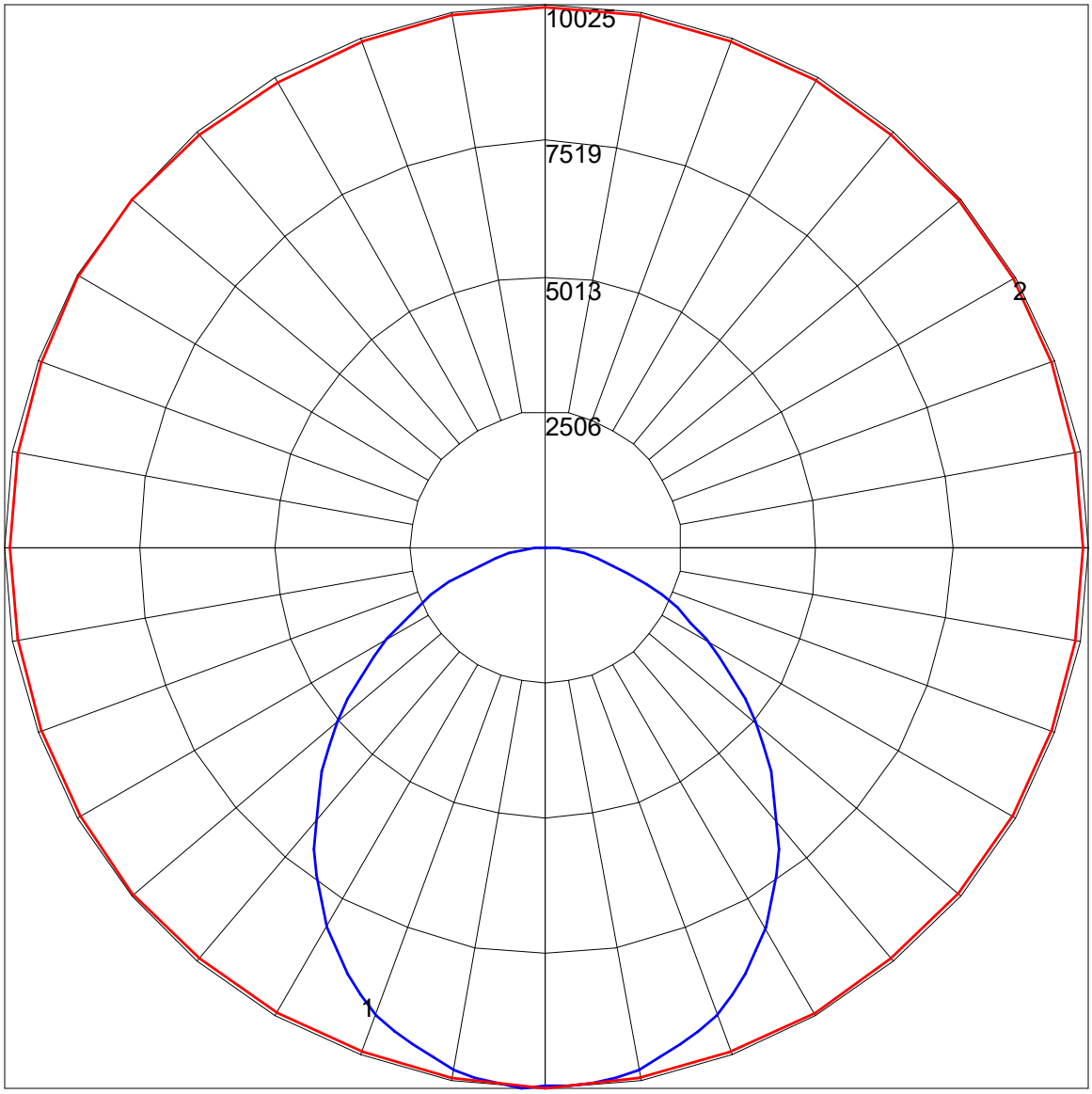
POLAR GRAPH



Maximum Candela = 10025 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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