IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-30L-DPW-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3915
[TESTLAB] TUV SUD America
[TESTDATE] 7/20/2020 10:57:09 AM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-01-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	26471
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	185
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.14 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	73545	70826	67174
55	70832	66161	59632
65	67944	61892	50953
75	66453	57813	40155
85	68859	51924	22020

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	10109	10109	10109	10109	10109	10109	10109	10109	10109	10109
2.5	10071	10073	10073	10073	10076	10076	10076	10076	10073	10071
5.0	10066	10059	10049	10037	10045	10052	10054	10052	10033	10028
7.5	10021	10018	9992	9992	9997	9995	9992	9988	9968	9959
10.0	9949	9930	9919	9916	9916	9911	9902	9895	9873	9861
12.5	9850	9811	9809	9809	9804	9797	9785	9771	9750	9733
15.0	9712	9671	9676	9671	9666	9654	9640	9621	9597	9578
17.5	9531	9502	9507	9505	9500	9486	9469	9447	9419	9397
20.0	9326	9307	9312	9312	9305	9288	9271	9245	9212	9186
22.5	9091	9086	9091	9088	9081	9064	9043	9014	8979	8950
25.0	8836	8838	8843	8838	8831	8812	8788	8760	8715	8686
27.5	8562	8572	8572	8565	8555	8534	8510	8474	8429	8398
30.0	8279	8291	8286	8275	8260	8234	8206	8170	8120	8084
32.5	7980	7996	7989	7968	7944	7915	7882	7844	7789	7749
35.0	7673	7692	7677	7651	7618	7580	7544	7497	7439	7399
37.5	7361	7385	7359	7321	7273	7228	7183	7133	7071	7028
40.0	7049	7071	7035	6985	6923	6864	6811	6752	6690	6640
42.5	6728	6752	6704	6642	6571	6493	6424	6362	6295	6250
45.0	6395	6421	6369	6295	6205	6112	6031	5962	5895	5841
47.5	6055	6083	6029	5945	5838	5734	5634	5553	5481	5434
50.0	5705	5743	5684	5591	5467	5351	5239	5151	5075	5020
52.5	5358	5393	5332	5232	5106	4972	4849	4751	4663	4613
55.0	4996	5037	4975	4872	4739	4594	4458	4342	4251	4206
57.5	4630	4675	4618	4513	4378	4221	4073	3947	3852	3799
60.0	4263	4313	4259	4152	4016	3852	3695	3557	3462	3400
62.5	3895	3945	3897	3797	3654	3493	3326	3181	3081	3021
65.0	3531	3583	3531	3438	3300	3133	2967	2814	2705	2648
67.5	3171	3228	3174	3079	2945	2786	2617	2460	2343	2286
70.0	2817	2879	2826	2726	2593	2441	2272	2110	1994	1937
72.5	2470	2531	2470	2377	2244	2098	1941	1782	1651	1592
75.0	2115	2186	2132	2034	1908	1772	1623	1470	1335	1278
77.5	1718	1801	1768	1692	1577	1449	1313	1168	1030	971
80.0	1337	1408	1378	1320	1242	1135	1016	883	757	688
82.5	1030	1080	1033	973	899	823	726	619	507	440
85.0	738	804	749	673	597	516	447	366	285	236
87.5	378	476	419	362	309	238	190	155	109	90
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	10109	10109	10109	10109	10109	10109	10109	10109	10109	10109
2.5	10071	10071	10068	10068	10066	10066	10068	10073	10073	10073
5.0	10023	10023	10023	10016	10009	10009	10009	10009	10009	10009
7.5	9954	9949	9942	9938	9930	9926	9933	9928	9926	9928
10.0	9852	9845	9835	9828	9823	9816	9816	9821	9819	9821
12.5	9721	9714	9702	9693	9688	9676	9669	9681	9678	9681
15.0	9564	9555	9543	9531	9521	9507	9495	9514	9512	9514
17.5	9378	9369	9355	9340	9331	9317	9300	9317	9321	9317
20.0	9169	9157	9141	9124	9112	9098	9079	9098	9110	9098
22.5	8926	8917	8898	8881	8869	8855	8838	8857	8876	8857
25.0	8658	8650	8629	8615	8603	8591	8577	8598	8622	8598
27.5	8370	8358	8341	8322	8315	8308	8298	8322	8353	8322
30.0	8060	8049	8027	8015	8010	8013	8010	8034	8070	8034
32.5	7725	7711	7696	7689	7692	7701	7708	7739	7782	7739
35.0	7370	7359	7349	7349	7363	7382	7399	7437	7487	7437
37.5	7004	6990	6985	6995	7021	7054	7083	7130	7187	7130
40.0	6614	6612	6612	6631	6671	6721	6757	6811	6876	6811
42.5	6224	6221	6226	6262	6314	6374	6424	6483	6550	6483
45.0	5819	5819	5838	5886	5955	6026	6083	6143	6214	6143
47.5	5412	5420	5441	5510	5591	5669	5731	5793	5867	5793
50.0	5003	5015	5053	5132	5225	5310	5377	5434	5512	5434
52.5	4601	4613	4665	4758	4861	4949	5020	5075	5158	5075
55.0	4190	4213	4278	4380	4494	4587	4654	4711	4801	4711
57.5	3792	3823	3902	4011	4128	4223	4294	4347	4437	4347
60.0	3405	3443	3533	3645	3769	3866	3937	3985	4073	3985
62.5	3024	3071	3167	3288	3412	3512	3573	3621	3709	3621
65.0	2650	2710	2810	2933	3057	3150	3212	3267	3350	3267
67.5	2284	2353	2467	2591	2707	2798	2869	2917	2998	2917
70.0	1941	2017	2125	2251	2358	2455	2524	2567	2653	2567
72.5	1604	1692	1806	1915	2020	2110	2184	2227	2315	2227
75.0	1289	1382	1494	1594	1692	1780	1844	1870	1963	1870
77.5	994	1090	1190	1280	1373	1425	1466	1489	1582	1489
80.0	721	816	897	975	1033	1075	1116	1149	1230	1149

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CANDELA TABULATION - (Cont.)

82.5	478	554	619	669	718	776	833	866	945	866
85.0	269	314	347	381	428	473	519	552	661	552
87.5	105	112	119	128	148	159	167	200	302	200
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	10109	10109	10109	10109	10109	10109	10109	10109	10109	10109
2.5	10068	10066	10066	10068	10068	10071	10071	10071	10073	10076
5.0	10009	10009	10009	10016	10023	10023	10023	10028	10033	10052
7.5	9933	9926	9930	9938	9942	9949	9954	9959	9968	9988
10.0	9816	9816	9823	9828	9835	9845	9852	9861	9873	9895
12.5	9669	9676	9688	9693	9702	9714	9721	9733	9750	9771
15.0	9495	9507	9521	9531	9543	9555	9564	9578	9597	9621
17.5	9300	9317	9331	9340	9355	9369	9378	9397	9419	9447
20.0	9079	9098	9112	9124	9141	9157	9169	9186	9212	9245
22.5	8838	8855	8869	8881	8898	8917	8926	8950	8979	9014
25.0	8577	8591	8603	8615	8629	8650	8658	8686	8715	8760
27.5	8298	8308	8315	8322	8341	8358	8370	8398	8429	8474

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CANDELA TABULATION - (Cont.)

30.0	8010	8013	8010	8015	8027	8049	8060	8084	8120	8170
32.5	7708	7701	7692	7689	7696	7711	7725	7749	7789	7844
35.0	7399	7382	7363	7349	7349	7359	7370	7399	7439	7497
37.5	7083	7054	7021	6995	6985	6990	7004	7028	7071	7133
40.0	6757	6721	6671	6631	6612	6612	6614	6640	6690	6752
42.5	6424	6374	6314	6262	6226	6221	6224	6250	6295	6362
45.0	6083	6026	5955	5886	5838	5819	5819	5841	5895	5962
47.5	5731	5669	5591	5510	5441	5420	5412	5434	5481	5553
50.0	5377	5310	5225	5132	5053	5015	5003	5020	5075	5151
52.5	5020	4949	4861	4758	4665	4613	4601	4613	4663	4751
55.0	4654	4587	4494	4380	4278	4213	4190	4206	4251	4342
57.5	4294	4223	4128	4011	3902	3823	3792	3799	3852	3947
60.0	3937	3866	3769	3645	3533	3443	3405	3400	3462	3557
62.5	3573	3512	3412	3288	3167	3071	3024	3021	3081	3181
65.0	3212	3150	3057	2933	2810	2710	2650	2648	2705	2814
67.5	2869	2798	2707	2591	2467	2353	2284	2286	2343	2460
70.0	2524	2455	2358	2251	2125	2017	1941	1937	1994	2110
72.5	2184	2110	2020	1915	1806	1692	1604	1592	1651	1782
75.0	1844	1780	1692	1594	1494	1382	1289	1278	1335	1470
77.5	1466	1425	1373	1280	1190	1090	994	971	1030	1168
80.0	1116	1075	1033	975	897	816	721	688	757	883
82.5	833	776	718	669	619	554	478	440	507	619
85.0	519	473	428	381	347	314	269	236	285	366
87.5	167	159	148	128	119	112	105	90	109	155
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	10109	10109	10109	10109	10109	10109	10109
2.5	10076	10076	10076	10073	10073	10073	10071
5.0	10054	10052	10045	10037	10049	10059	10066
7.5	9992	9995	9997	9992	9992	10018	10021
10.0	9902	9911	9916	9916	9919	9930	9949
12.5	9785	9797	9804	9809	9809	9811	9850
15.0	9640	9654	9666	9671	9676	9671	9712
17.5	9469	9486	9500	9505	9507	9502	9531
20.0	9271	9288	9305	9312	9312	9307	9326
22.5	9043	9064	9081	9088	9091	9086	9091
25.0	8788	8812	8831	8838	8843	8838	8836
27.5	8510	8534	8555	8565	8572	8572	8562
30.0	8206	8234	8260	8275	8286	8291	8279
32.5	7882	7915	7944	7968	7989	7996	7980
35.0	7544	7580	7618	7651	7677	7692	7673
37.5	7183	7228	7273	7321	7359	7385	7361
40.0	6811	6864	6923	6985	7035	7071	7049
42.5	6424	6493	6571	6642	6704	6752	6728
45.0	6031	6112	6205	6295	6369	6421	6395
47.5	5634	5734	5838	5945	6029	6083	6055
50.0	5239	5351	5467	5591	5684	5743	5705
52.5	4849	4972	5106	5232	5332	5393	5358
55.0	4458	4594	4739	4872	4975	5037	4996
57.5	4073	4221	4378	4513	4618	4675	4630
60.0	3695	3852	4016	4152	4259	4313	4263
62.5	3326	3493	3654	3797	3897	3945	3895
65.0	2967	3133	3300	3438	3531	3583	3531
67.5	2617	2786	2945	3079	3174	3228	3171
70.0	2272	2441	2593	2726	2826	2879	2817
72.5	1941	2098	2244	2377	2470	2531	2470
75.0	1623	1772	1908	2034	2132	2186	2115
77.5	1313	1449	1577	1692	1768	1801	1718
80.0	1016	1135	1242	1320	1378	1408	1337
82.5	726	823	899	973	1033	1080	1030
85.0	447	516	597	673	749	804	738
87.5	190	238	309	362	419	476	378
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	3655.49	N.A.	13.80
0-30	7664.37	N.A.	29.00
0-40	12342.51	N.A.	46.60
0-60	21084.04	N.A.	79.70
0-80	25933.67	N.A.	98.00
0-90	26470.66	N.A.	100.00
10-90	25518.14	N.A.	96.40
20-40	8687.01	N.A.	32.80
20-50	13358.27	N.A.	50.50
40-70	11790.4	N.A.	44.50
60-80	4849.63	N.A.	18.30
70-80	1800.77	N.A.	6.80
80-90	536.99	N.A.	2.00
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	26470.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	952.52
10-20	2702.98
20-30	4008.88
30-40	4678.14
40-50	4671.26
50-60	4070.28
60-70	3048.87
70-80	1800.76
80-90	536.99
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	98	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	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	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	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	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	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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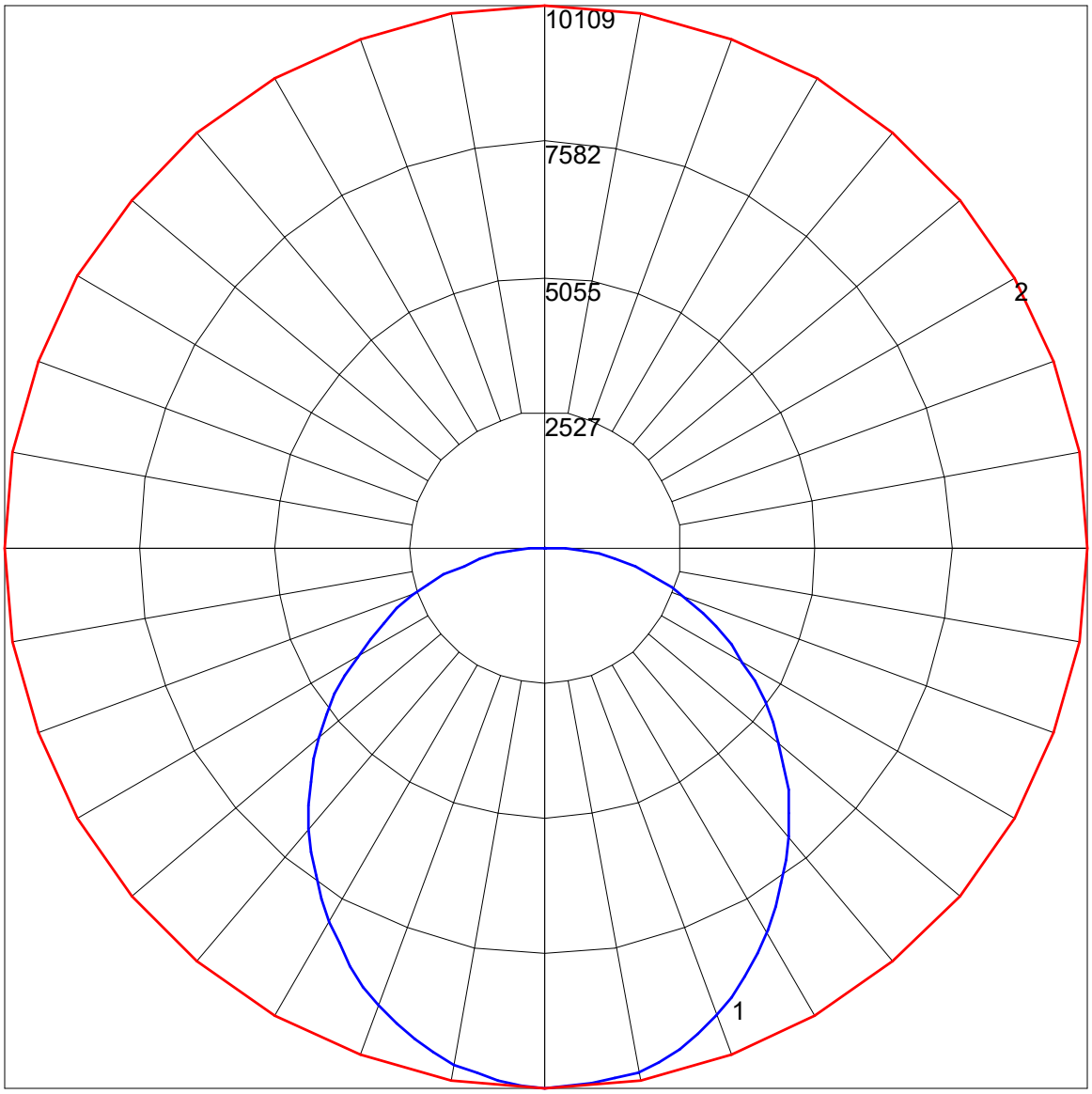
POLAR GRAPH



Maximum Candela = 10109 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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