IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-24L-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-24L-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	21506
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	162
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	59756	57543	54570
55	57548	53755	48446
65	55186	50289	41390
75	53979	46973	32614
85	55890	42174	17821

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	8213	8213	8213	8213	8213	8213	8213	8213	8213	8213
2.5	8182	8184	8184	8184	8186	8186	8186	8186	8184	8182
5.0	8178	8173	8165	8155	8161	8167	8169	8167	8151	8147
7.5	8142	8140	8118	8118	8122	8120	8118	8115	8099	8091
10.0	8084	8068	8058	8057	8057	8053	8045	8039	8022	8012
12.5	8002	7971	7970	7970	7966	7960	7950	7939	7921	7908
15.0	7890	7857	7861	7857	7854	7844	7832	7817	7798	7782
17.5	7743	7720	7724	7722	7718	7707	7693	7676	7653	7635
20.0	7577	7562	7566	7566	7560	7546	7533	7511	7484	7463
22.5	7386	7382	7386	7384	7378	7365	7347	7324	7295	7272
25.0	7179	7181	7185	7181	7175	7160	7140	7117	7080	7057
27.5	6957	6964	6964	6959	6951	6933	6914	6885	6848	6823
30.0	6727	6736	6732	6723	6711	6690	6667	6638	6597	6568
32.5	6483	6497	6491	6473	6454	6431	6404	6373	6328	6296
35.0	6234	6249	6238	6216	6189	6158	6129	6091	6044	6011
37.5	5981	6000	5979	5948	5909	5872	5836	5795	5745	5710
40.0	5727	5745	5716	5675	5625	5577	5534	5486	5435	5395
42.5	5466	5486	5447	5397	5339	5275	5219	5169	5115	5078
45.0	5196	5217	5175	5115	5041	4966	4900	4844	4790	4745
47.5	4919	4943	4898	4830	4743	4658	4577	4512	4454	4415
50.0	4635	4666	4618	4542	4442	4347	4256	4185	4123	4079
52.5	4353	4382	4332	4251	4148	4040	3939	3860	3789	3748
55.0	4059	4092	4042	3959	3850	3733	3622	3528	3454	3417
57.5	3762	3798	3752	3667	3557	3429	3309	3207	3129	3087
60.0	3464	3504	3460	3373	3263	3129	3002	2890	2812	2762
62.5	3164	3205	3166	3085	2969	2838	2702	2584	2503	2455
65.0	2868	2911	2868	2793	2681	2546	2410	2287	2198	2151
67.5	2577	2623	2579	2501	2393	2263	2126	1999	1904	1858
70.0	2289	2339	2296	2215	2107	1983	1846	1715	1620	1573
72.5	2006	2057	2006	1931	1823	1705	1577	1448	1341	1293
75.0	1718	1776	1732	1653	1550	1440	1318	1195	1084	1038
77.5	1396	1463	1436	1374	1282	1177	1067	949	837	789
80.0	1086	1144	1119	1073	1009	922	825	717	615	559
82.5	837	878	839	791	731	669	590	503	412	358
85.0	599	653	609	547	485	419	363	298	232	191
87.5	307	387	340	294	251	193	155	126	89	73
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	8213	8213	8213	8213	8213	8213	8213	8213	8213	8213
2.5	8182	8182	8180	8180	8178	8178	8180	8184	8184	8184
5.0	8144	8144	8144	8138	8132	8132	8132	8132	8132	8132
7.5	8087	8084	8078	8074	8068	8064	8070	8066	8064	8066
10.0	8004	7999	7991	7985	7981	7975	7975	7979	7977	7979
12.5	7898	7892	7883	7875	7871	7861	7856	7865	7863	7865
15.0	7770	7763	7753	7743	7736	7724	7714	7730	7728	7730
17.5	7620	7612	7600	7589	7581	7569	7556	7569	7573	7569
20.0	7450	7440	7426	7413	7403	7392	7376	7392	7401	7392
22.5	7252	7245	7229	7216	7206	7194	7181	7196	7212	7196
25.0	7034	7028	7011	6999	6990	6980	6968	6986	7005	6986
27.5	6800	6790	6777	6761	6756	6750	6742	6761	6787	6761
30.0	6549	6539	6522	6512	6508	6510	6508	6528	6557	6528
32.5	6276	6265	6253	6247	6249	6257	6263	6288	6323	6288
35.0	5988	5979	5971	5971	5982	5998	6011	6042	6083	6042
37.5	5691	5679	5675	5683	5704	5731	5754	5793	5839	5793
40.0	5374	5372	5372	5387	5420	5461	5490	5534	5586	5534
42.5	5057	5055	5059	5088	5130	5178	5219	5267	5321	5267
45.0	4728	4728	4743	4782	4838	4896	4943	4991	5049	4991
47.5	4397	4403	4421	4477	4542	4606	4656	4707	4767	4707
50.0	4065	4075	4106	4169	4245	4314	4368	4415	4479	4415
52.5	3738	3748	3791	3866	3949	4021	4079	4123	4191	4123
55.0	3404	3423	3475	3559	3651	3727	3781	3827	3901	3827
57.5	3081	3106	3170	3259	3354	3431	3489	3531	3605	3531
60.0	2766	2797	2870	2961	3062	3141	3199	3238	3309	3238
62.5	2457	2495	2573	2671	2772	2853	2903	2942	3013	2942
65.0	2153	2202	2283	2383	2484	2559	2609	2654	2722	2654
67.5	1856	1912	2004	2105	2200	2273	2331	2370	2436	2370
70.0	1577	1639	1726	1829	1916	1995	2051	2086	2155	2086
72.5	1303	1374	1467	1556	1641	1715	1774	1809	1881	1809
75.0	1048	1123	1214	1295	1374	1446	1498	1519	1595	1519
77.5	808	885	966	1040	1115	1158	1191	1210	1285	1210
80.0	586	663	729	793	839	874	907	934	999	934

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CANDELA TABULATION - (Cont.)

82.5	389	450	503	543	584	630	677	704	767	704
85.0	218	255	282	309	348	385	421	448	537	448
87.5	85	91	97	104	120	130	135	162	245	162
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	8213	8213	8213	8213	8213	8213	8213	8213	8213	8213
2.5	8180	8178	8178	8180	8180	8182	8182	8182	8184	8186
5.0	8132	8132	8132	8138	8144	8144	8144	8147	8151	8167
7.5	8070	8064	8068	8074	8078	8084	8087	8091	8099	8115
10.0	7975	7975	7981	7985	7991	7999	8004	8012	8022	8039
12.5	7856	7861	7871	7875	7883	7892	7898	7908	7921	7939
15.0	7714	7724	7736	7743	7753	7763	7770	7782	7798	7817
17.5	7556	7569	7581	7589	7600	7612	7620	7635	7653	7676
20.0	7376	7392	7403	7413	7426	7440	7450	7463	7484	7511
22.5	7181	7194	7206	7216	7229	7245	7252	7272	7295	7324
25.0	6968	6980	6990	6999	7011	7028	7034	7057	7080	7117
27.5	6742	6750	6756	6761	6777	6790	6800	6823	6848	6885

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CANDELA TABULATION - (Cont.)

30.0	6508	6510	6508	6512	6522	6539	6549	6568	6597	6638
32.5	6263	6257	6249	6247	6253	6265	6276	6296	6328	6373
35.0	6011	5998	5982	5971	5971	5979	5988	6011	6044	6091
37.5	5754	5731	5704	5683	5675	5679	5691	5710	5745	5795
40.0	5490	5461	5420	5387	5372	5372	5374	5395	5435	5486
42.5	5219	5178	5130	5088	5059	5055	5057	5078	5115	5169
45.0	4943	4896	4838	4782	4743	4728	4728	4745	4790	4844
47.5	4656	4606	4542	4477	4421	4403	4397	4415	4454	4512
50.0	4368	4314	4245	4169	4106	4075	4065	4079	4123	4185
52.5	4079	4021	3949	3866	3791	3748	3738	3748	3789	3860
55.0	3781	3727	3651	3559	3475	3423	3404	3417	3454	3528
57.5	3489	3431	3354	3259	3170	3106	3081	3087	3129	3207
60.0	3199	3141	3062	2961	2870	2797	2766	2762	2812	2890
62.5	2903	2853	2772	2671	2573	2495	2457	2455	2503	2584
65.0	2609	2559	2484	2383	2283	2202	2153	2151	2198	2287
67.5	2331	2273	2200	2105	2004	1912	1856	1858	1904	1999
70.0	2051	1995	1916	1829	1726	1639	1577	1573	1620	1715
72.5	1774	1715	1641	1556	1467	1374	1303	1293	1341	1448
75.0	1498	1446	1374	1295	1214	1123	1048	1038	1084	1195
77.5	1191	1158	1115	1040	966	885	808	789	837	949
80.0	907	874	839	793	729	663	586	559	615	717
82.5	677	630	584	543	503	450	389	358	412	503
85.0	421	385	348	309	282	255	218	191	232	298
87.5	135	130	120	104	97	91	85	73	89	126
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	8213	8213	8213	8213	8213	8213	8213
2.5	8186	8186	8186	8184	8184	8184	8182
5.0	8169	8167	8161	8155	8165	8173	8178
7.5	8118	8120	8122	8118	8118	8140	8142
10.0	8045	8053	8057	8057	8058	8068	8084
12.5	7950	7960	7966	7970	7970	7971	8002
15.0	7832	7844	7854	7857	7861	7857	7890
17.5	7693	7707	7718	7722	7724	7720	7743
20.0	7533	7546	7560	7566	7566	7562	7577
22.5	7347	7365	7378	7384	7386	7382	7386
25.0	7140	7160	7175	7181	7185	7181	7179
27.5	6914	6933	6951	6959	6964	6964	6957
30.0	6667	6690	6711	6723	6732	6736	6727
32.5	6404	6431	6454	6473	6491	6497	6483
35.0	6129	6158	6189	6216	6238	6249	6234
37.5	5836	5872	5909	5948	5979	6000	5981
40.0	5534	5577	5625	5675	5716	5745	5727
42.5	5219	5275	5339	5397	5447	5486	5466
45.0	4900	4966	5041	5115	5175	5217	5196
47.5	4577	4658	4743	4830	4898	4943	4919
50.0	4256	4347	4442	4542	4618	4666	4635
52.5	3939	4040	4148	4251	4332	4382	4353
55.0	3622	3733	3850	3959	4042	4092	4059
57.5	3309	3429	3557	3667	3752	3798	3762
60.0	3002	3129	3263	3373	3460	3504	3464
62.5	2702	2838	2969	3085	3166	3205	3164
65.0	2410	2546	2681	2793	2868	2911	2868
67.5	2126	2263	2393	2501	2579	2623	2577
70.0	1846	1983	2107	2215	2296	2339	2289
72.5	1577	1705	1823	1931	2006	2057	2006
75.0	1318	1440	1550	1653	1732	1776	1718
77.5	1067	1177	1282	1374	1436	1463	1396
80.0	825	922	1009	1073	1119	1144	1086
82.5	590	669	731	791	839	878	837
85.0	363	419	485	547	609	653	599
87.5	155	193	251	294	340	387	307
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	2969.96	N.A.	13.80
0-30	6227.05	N.A.	29.00
0-40	10027.87	N.A.	46.60
0-60	17130.09	N.A.	79.70
0-80	21070.16	N.A.	98.00
0-90	21506.46	N.A.	100.00
10-90	20732.57	N.A.	96.40
20-40	7057.9	N.A.	32.80
20-50	10853.18	N.A.	50.50
40-70	9579.29	N.A.	44.50
60-80	3940.07	N.A.	18.30
70-80	1463.00	N.A.	6.80
80-90	436.31	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	21506.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	773.89
10-20	2196.07
20-30	3257.09
30-40	3800.82
40-50	3795.28
50-60	3306.94
60-70	2477.07
70-80	1463.00
80-90	436.31
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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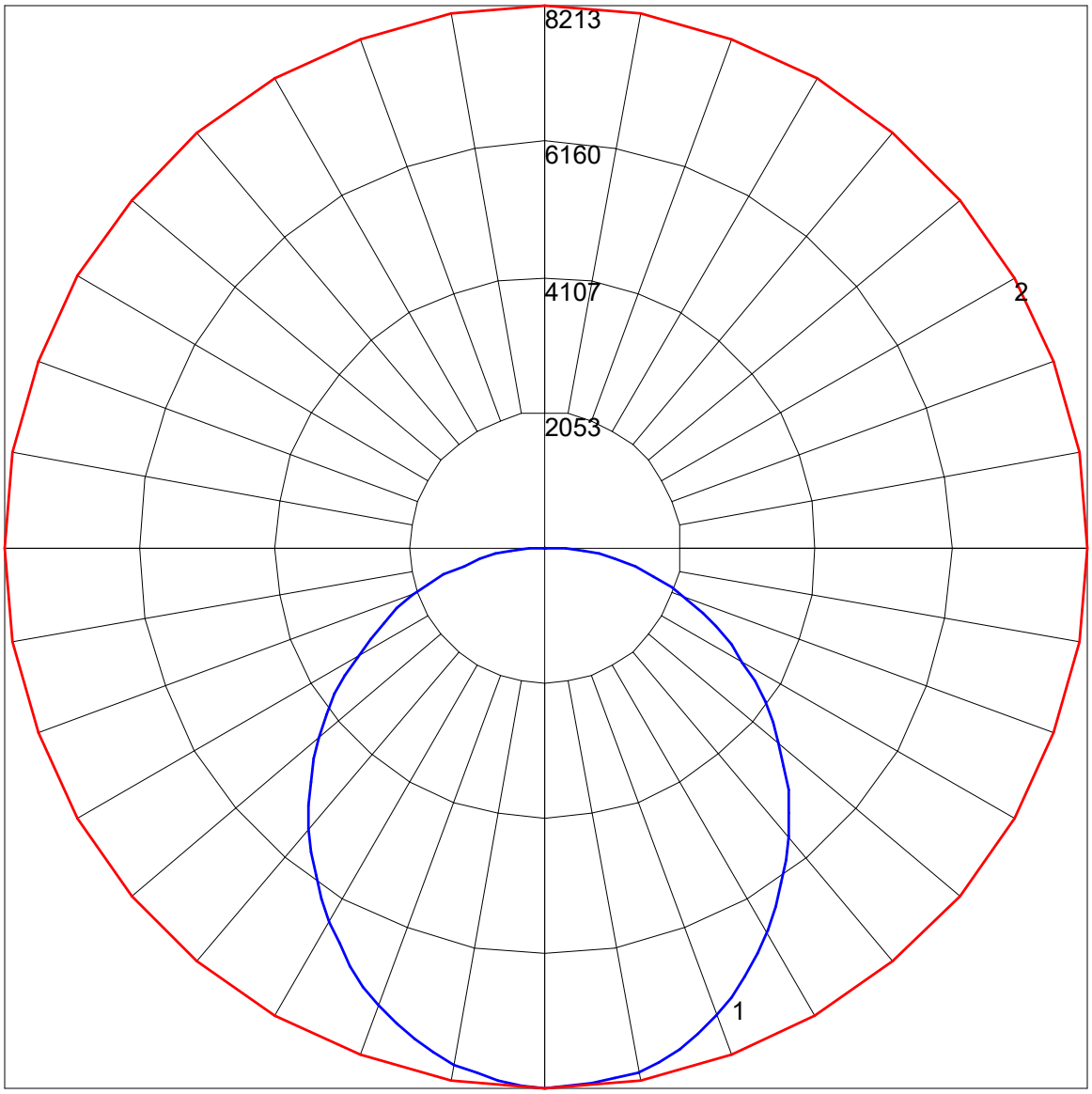
POLAR GRAPH



Maximum Candela = 8213 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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