IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-18L-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-18L-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	16767
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	122
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	46588	44863	42552
55	44873	41910	37770
65	43025	39206	32269
75	42103	36636	25419
85	43573	32890	13902

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	6403	6403	6403	6403	6403	6403	6403	6403	6403	6403
2.5	6379	6381	6381	6381	6382	6382	6382	6382	6381	6379
5.0	6376	6372	6366	6358	6363	6367	6369	6367	6355	6352
7.5	6348	6346	6329	6329	6332	6331	6329	6326	6314	6308
10.0	6302	6290	6283	6281	6281	6278	6272	6268	6254	6247
12.5	6239	6215	6213	6213	6210	6206	6198	6189	6176	6165
15.0	6152	6126	6129	6126	6123	6115	6106	6094	6079	6067
17.5	6037	6019	6022	6021	6017	6008	5998	5984	5966	5953
20.0	5907	5895	5898	5898	5894	5883	5873	5856	5835	5819
22.5	5758	5755	5758	5757	5752	5742	5728	5710	5687	5669
25.0	5597	5599	5602	5599	5594	5582	5567	5549	5520	5502
27.5	5424	5430	5430	5425	5419	5406	5391	5368	5339	5320
30.0	5244	5252	5249	5241	5232	5216	5198	5175	5143	5121
32.5	5055	5065	5061	5047	5032	5014	4993	4969	4934	4908
35.0	4860	4872	4863	4847	4825	4801	4779	4749	4712	4687
37.5	4663	4678	4661	4637	4607	4578	4550	4518	4479	4452
40.0	4465	4479	4456	4425	4385	4348	4315	4277	4238	4206
42.5	4262	4277	4247	4208	4162	4113	4069	4030	3988	3959
45.0	4051	4067	4034	3988	3930	3872	3820	3777	3734	3700
47.5	3835	3853	3819	3766	3698	3632	3569	3517	3472	3442
50.0	3614	3638	3600	3541	3463	3389	3318	3263	3214	3180
52.5	3394	3416	3377	3314	3234	3150	3071	3010	2954	2922
55.0	3165	3190	3151	3086	3002	2910	2824	2750	2693	2664
57.5	2933	2961	2925	2859	2773	2673	2580	2500	2440	2407
60.0	2701	2732	2698	2630	2544	2440	2340	2253	2193	2154
62.5	2467	2499	2468	2405	2315	2212	2107	2015	1952	1914
65.0	2236	2270	2236	2178	2090	1985	1879	1783	1713	1677
67.5	2009	2045	2010	1950	1866	1765	1658	1558	1484	1448
70.0	1784	1823	1790	1727	1643	1546	1439	1337	1263	1227
72.5	1564	1603	1564	1506	1421	1329	1230	1129	1046	1008
75.0	1340	1385	1350	1288	1209	1123	1028	931	845	809
77.5	1088	1141	1120	1071	999	918	832	740	653	615
80.0	847	892	873	836	787	719	643	559	479	436
82.5	653	684	654	616	570	521	460	392	321	279
85.0	467	509	475	426	378	327	283	232	181	149
87.5	240	301	265	229	196	151	121	98	69	57
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	6403	6403	6403	6403	6403	6403	6403	6403	6403	6403
2.5	6379	6379	6378	6378	6376	6376	6378	6381	6381	6381
5.0	6349	6349	6349	6345	6340	6340	6340	6340	6340	6340
7.5	6305	6302	6298	6295	6290	6287	6292	6289	6287	6289
10.0	6241	6236	6230	6225	6222	6218	6218	6221	6219	6221
12.5	6158	6153	6146	6140	6137	6129	6124	6132	6131	6132
15.0	6058	6052	6045	6037	6031	6022	6014	6027	6025	6027
17.5	5941	5935	5926	5917	5910	5901	5891	5901	5904	5901
20.0	5808	5800	5790	5779	5772	5763	5751	5763	5770	5763
22.5	5654	5648	5636	5626	5618	5609	5599	5611	5623	5611
25.0	5484	5479	5466	5457	5449	5442	5433	5446	5461	5446
27.5	5302	5294	5284	5272	5267	5262	5256	5272	5291	5272
30.0	5106	5098	5085	5077	5074	5076	5074	5089	5112	5089
32.5	4893	4884	4875	4871	4872	4878	4883	4902	4929	4902
35.0	4669	4661	4655	4655	4664	4676	4687	4711	4743	4711
37.5	4437	4428	4425	4431	4447	4468	4486	4517	4553	4517
40.0	4189	4188	4188	4200	4226	4257	4280	4315	4355	4315
42.5	3942	3941	3944	3966	4000	4037	4069	4107	4149	4107
45.0	3686	3686	3698	3728	3772	3817	3853	3891	3936	3891
47.5	3428	3433	3447	3490	3541	3591	3630	3670	3716	3670
50.0	3169	3177	3201	3251	3309	3364	3406	3442	3492	3442
52.5	2915	2922	2955	3014	3079	3135	3180	3214	3267	3214
55.0	2654	2669	2710	2774	2847	2906	2948	2984	3041	2984
57.5	2402	2422	2471	2541	2615	2675	2720	2753	2811	2753
60.0	2157	2181	2238	2309	2387	2449	2494	2524	2580	2524
62.5	1915	1946	2006	2083	2161	2224	2264	2294	2349	2294
65.0	1679	1716	1780	1858	1937	1995	2034	2069	2122	2069
67.5	1447	1490	1563	1641	1715	1772	1817	1848	1899	1848
70.0	1230	1278	1346	1426	1493	1555	1599	1626	1680	1626
72.5	1016	1071	1144	1213	1279	1337	1383	1411	1466	1411
75.0	817	876	946	1010	1071	1127	1168	1185	1243	1185
77.5	630	690	754	811	870	903	928	943	1002	943
80.0	457	517	568	618	654	681	707	728	779	728

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CANDELA TABULATION - (Cont.)

82.5	303	351	392	423	455	491	527	549	598	549
85.0	170	199	220	241	271	300	329	350	419	350
87.5	66	71	75	81	93	101	105	127	191	127
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	6403	6403	6403	6403	6403	6403	6403	6403	6403	6403
2.5	6378	6376	6376	6378	6378	6379	6379	6379	6381	6382
5.0	6340	6340	6340	6345	6349	6349	6349	6352	6355	6367
7.5	6292	6287	6290	6295	6298	6302	6305	6308	6314	6326
10.0	6218	6218	6222	6225	6230	6236	6241	6247	6254	6268
12.5	6124	6129	6137	6140	6146	6153	6158	6165	6176	6189
15.0	6014	6022	6031	6037	6045	6052	6058	6067	6079	6094
17.5	5891	5901	5910	5917	5926	5935	5941	5953	5966	5984
20.0	5751	5763	5772	5779	5790	5800	5808	5819	5835	5856
22.5	5599	5609	5618	5626	5636	5648	5654	5669	5687	5710
25.0	5433	5442	5449	5457	5466	5479	5484	5502	5520	5549
27.5	5256	5262	5267	5272	5284	5294	5302	5320	5339	5368

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CANDELA TABULATION - (Cont.)

30.0	5074	5076	5074	5077	5085	5098	5106	5121	5143	5175
32.5	4883	4878	4872	4871	4875	4884	4893	4908	4934	4969
35.0	4687	4676	4664	4655	4655	4661	4669	4687	4712	4749
37.5	4486	4468	4447	4431	4425	4428	4437	4452	4479	4518
40.0	4280	4257	4226	4200	4188	4188	4189	4206	4238	4277
42.5	4069	4037	4000	3966	3944	3941	3942	3959	3988	4030
45.0	3853	3817	3772	3728	3698	3686	3686	3700	3734	3777
47.5	3630	3591	3541	3490	3447	3433	3428	3442	3472	3517
50.0	3406	3364	3309	3251	3201	3177	3169	3180	3214	3263
52.5	3180	3135	3079	3014	2955	2922	2915	2922	2954	3010
55.0	2948	2906	2847	2774	2710	2669	2654	2664	2693	2750
57.5	2720	2675	2615	2541	2471	2422	2402	2407	2440	2500
60.0	2494	2449	2387	2309	2238	2181	2157	2154	2193	2253
62.5	2264	2224	2161	2083	2006	1946	1915	1914	1952	2015
65.0	2034	1995	1937	1858	1780	1716	1679	1677	1713	1783
67.5	1817	1772	1715	1641	1563	1490	1447	1448	1484	1558
70.0	1599	1555	1493	1426	1346	1278	1230	1227	1263	1337
72.5	1383	1337	1279	1213	1144	1071	1016	1008	1046	1129
75.0	1168	1127	1071	1010	946	876	817	809	845	931
77.5	928	903	870	811	754	690	630	615	653	740
80.0	707	681	654	618	568	517	457	436	479	559
82.5	527	491	455	423	392	351	303	279	321	392
85.0	329	300	271	241	220	199	170	149	181	232
87.5	105	101	93	81	75	71	66	57	69	98
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	6403	6403	6403	6403	6403	6403	6403
2.5	6382	6382	6382	6381	6381	6381	6379
5.0	6369	6367	6363	6358	6366	6372	6376
7.5	6329	6331	6332	6329	6329	6346	6348
10.0	6272	6278	6281	6281	6283	6290	6302
12.5	6198	6206	6210	6213	6213	6215	6239
15.0	6106	6115	6123	6126	6129	6126	6152
17.5	5998	6008	6017	6021	6022	6019	6037
20.0	5873	5883	5894	5898	5898	5895	5907
22.5	5728	5742	5752	5757	5758	5755	5758
25.0	5567	5582	5594	5599	5602	5599	5597
27.5	5391	5406	5419	5425	5430	5430	5424
30.0	5198	5216	5232	5241	5249	5252	5244
32.5	4993	5014	5032	5047	5061	5065	5055
35.0	4779	4801	4825	4847	4863	4872	4860
37.5	4550	4578	4607	4637	4661	4678	4663
40.0	4315	4348	4385	4425	4456	4479	4465
42.5	4069	4113	4162	4208	4247	4277	4262
45.0	3820	3872	3930	3988	4034	4067	4051
47.5	3569	3632	3698	3766	3819	3853	3835
50.0	3318	3389	3463	3541	3600	3638	3614
52.5	3071	3150	3234	3314	3377	3416	3394
55.0	2824	2910	3002	3086	3151	3190	3165
57.5	2580	2673	2773	2859	2925	2961	2933
60.0	2340	2440	2544	2630	2698	2732	2701
62.5	2107	2212	2315	2405	2468	2499	2467
65.0	1879	1985	2090	2178	2236	2270	2236
67.5	1658	1765	1866	1950	2010	2045	2009
70.0	1439	1546	1643	1727	1790	1823	1784
72.5	1230	1329	1421	1506	1564	1603	1564
75.0	1028	1123	1209	1288	1350	1385	1340
77.5	832	918	999	1071	1120	1141	1088
80.0	643	719	787	836	873	892	847
82.5	460	521	570	616	654	684	653
85.0	283	327	378	426	475	509	467
87.5	121	151	196	229	265	301	240
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	2315.49	N.A.	13.80
0-30	4854.87	N.A.	29.00
0-40	7818.18	N.A.	46.60
0-60	13355.34	N.A.	79.70
0-80	16427.22	N.A.	98.00
0-90	16767.32	N.A.	100.00
10-90	16163.96	N.A.	96.40
20-40	5502.68	N.A.	32.80
20-50	8461.61	N.A.	50.50
40-70	7468.41	N.A.	44.50
60-80	3071.88	N.A.	18.30
70-80	1140.64	N.A.	6.80
80-90	340.10	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	16767.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	603.36
10-20	1712.14
20-30	2539.38
30-40	2963.3
40-50	2958.93
50-60	2578.24
60-70	1931.25
70-80	1140.64
80-90	340.10
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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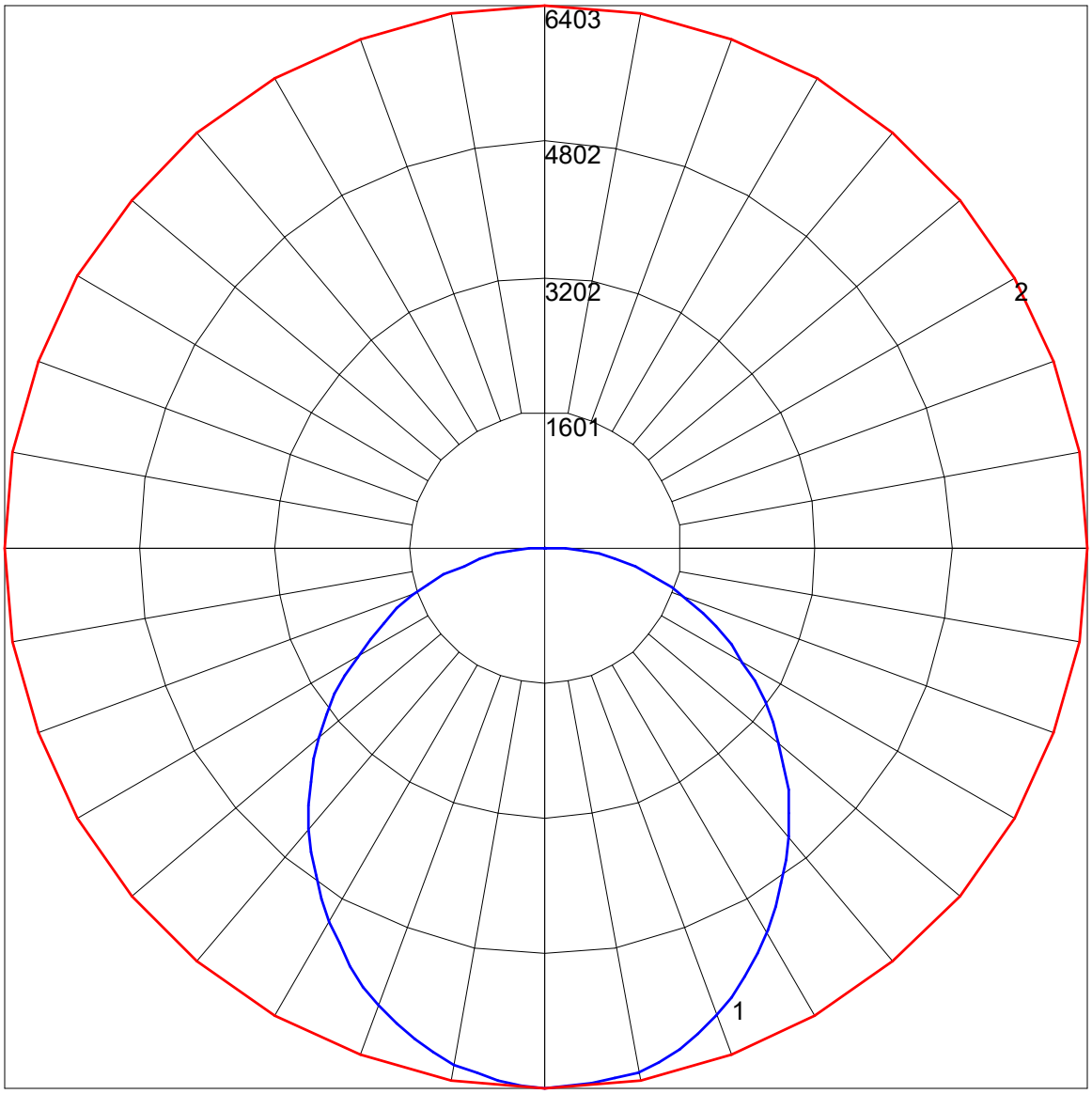
POLAR GRAPH



Maximum Candela = 6403 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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