IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-12L-DPW-50-80CRI.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-12L-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	11418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	79
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	31730	30545	28970
55	30553	28540	25719
65	29306	26698	21974
75	28655	24947	17312
85	29671	22440	9517

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
2.5	4344	4345	4345	4345	4346	4346	4346	4346	4345	4344
5.0	4342	4339	4335	4330	4333	4336	4337	4336	4328	4326
7.5	4323	4322	4310	4310	4312	4311	4310	4308	4300	4296
10.0	4292	4284	4278	4277	4277	4275	4271	4268	4259	4254
12.5	4249	4232	4231	4231	4229	4226	4221	4215	4206	4198
15.0	4189	4172	4174	4172	4170	4165	4158	4150	4140	4132
17.5	4111	4099	4101	4100	4098	4092	4084	4075	4063	4054
20.0	4023	4015	4017	4017	4014	4006	3999	3988	3974	3962
22.5	3921	3919	3921	3920	3917	3910	3901	3888	3873	3861
25.0	3811	3812	3815	3812	3809	3801	3791	3779	3759	3747
27.5	3693	3698	3698	3694	3690	3681	3671	3655	3636	3623
30.0	3571	3576	3574	3569	3563	3552	3540	3524	3503	3487
32.5	3442	3449	3446	3437	3427	3414	3400	3384	3360	3342
35.0	3310	3318	3312	3300	3286	3270	3254	3234	3209	3192
37.5	3175	3185	3174	3158	3137	3118	3098	3077	3050	3032
40.0	3041	3050	3035	3013	2986	2961	2938	2912	2886	2864
42.5	2902	2912	2892	2865	2834	2801	2771	2744	2715	2696
45.0	2759	2770	2747	2715	2676	2636	2602	2572	2543	2519
47.5	2612	2624	2601	2565	2518	2473	2430	2395	2364	2344
50.0	2461	2477	2452	2412	2358	2308	2260	2222	2189	2165
52.5	2311	2326	2300	2257	2202	2145	2091	2049	2011	1990
55.0	2155	2173	2146	2102	2044	1982	1923	1873	1834	1814
57.5	1997	2017	1992	1947	1888	1821	1757	1703	1661	1639
60.0	1839	1861	1837	1791	1732	1661	1594	1534	1493	1467
62.5	1680	1702	1681	1638	1576	1507	1435	1372	1329	1303
65.0	1523	1546	1523	1483	1423	1352	1280	1214	1167	1142
67.5	1368	1393	1369	1328	1270	1202	1129	1061	1011	986
70.0	1215	1242	1219	1176	1119	1053	980	910	860	835
72.5	1065	1092	1065	1025	968	905	837	769	712	687
75.0	912	943	920	877	823	765	700	634	576	551
77.5	741	777	762	730	680	625	566	504	444	419
80.0	577	608	594	570	536	490	438	381	326	297
82.5	444	466	445	420	388	355	313	267	219	190
85.0	318	347	323	290	258	223	193	158	123	102
87.5	163	205	181	156	133	103	82	67	47	39
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	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
2.5	4344	4344	4343	4343	4342	4342	4343	4345	4345	4345
5.0	4324	4324	4324	4320	4317	4317	4317	4317	4317	4317
7.5	4294	4292	4289	4287	4284	4281	4285	4283	4281	4283
10.0	4250	4247	4242	4239	4237	4234	4234	4236	4235	4236
12.5	4193	4190	4185	4181	4179	4174	4171	4176	4175	4176
15.0	4126	4121	4116	4111	4107	4101	4096	4104	4103	4104
17.5	4045	4041	4035	4029	4025	4019	4012	4019	4021	4019
20.0	3955	3950	3943	3936	3931	3924	3916	3924	3929	3924
22.5	3850	3846	3838	3831	3826	3820	3812	3821	3829	3821
25.0	3735	3731	3722	3716	3711	3706	3700	3709	3719	3709
27.5	3610	3605	3598	3590	3587	3584	3580	3590	3603	3590
30.0	3477	3472	3463	3457	3455	3456	3455	3466	3481	3466
32.5	3332	3326	3320	3317	3318	3322	3325	3338	3357	3338
35.0	3179	3174	3170	3170	3176	3184	3192	3208	3230	3208
37.5	3021	3015	3013	3017	3028	3043	3055	3076	3100	3076
40.0	2853	2852	2852	2860	2878	2899	2915	2938	2966	2938
42.5	2685	2684	2686	2701	2724	2749	2771	2797	2825	2797
45.0	2510	2510	2518	2539	2569	2599	2624	2650	2681	2650
47.5	2335	2338	2347	2377	2412	2446	2472	2499	2531	2499
50.0	2158	2163	2180	2214	2254	2291	2319	2344	2378	2344
52.5	1985	1990	2012	2052	2097	2135	2165	2189	2225	2189
55.0	1807	1817	1845	1889	1939	1979	2007	2032	2071	2032
57.5	1636	1649	1683	1730	1781	1822	1852	1875	1914	1875
60.0	1469	1485	1524	1572	1626	1668	1698	1719	1757	1719
62.5	1304	1325	1366	1418	1472	1515	1541	1562	1600	1562
65.0	1143	1169	1212	1265	1319	1359	1385	1409	1445	1409
67.5	985	1015	1064	1118	1168	1207	1238	1258	1293	1258
70.0	837	870	916	971	1017	1059	1089	1107	1144	1107
72.5	692	730	779	826	871	910	942	961	999	961
75.0	556	596	644	688	730	768	795	807	847	807
77.5	429	470	513	552	592	615	632	642	682	642
80.0	311	352	387	421	445	464	481	496	531	496

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CANDELA TABULATION - (Cont.)

82.5	206	239	267	288	310	335	359	374	407	374
85.0	116	135	150	164	185	204	224	238	285	238
87.5	45	48	51	55	64	69	72	86	130	86
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	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
2.5	4343	4342	4342	4343	4343	4344	4344	4344	4345	4346
5.0	4317	4317	4317	4320	4324	4324	4324	4326	4328	4336
7.5	4285	4281	4284	4287	4289	4292	4294	4296	4300	4308
10.0	4234	4234	4237	4239	4242	4247	4250	4254	4259	4268
12.5	4171	4174	4179	4181	4185	4190	4193	4198	4206	4215
15.0	4096	4101	4107	4111	4116	4121	4126	4132	4140	4150
17.5	4012	4019	4025	4029	4035	4041	4045	4054	4063	4075
20.0	3916	3924	3931	3936	3943	3950	3955	3962	3974	3988
22.5	3812	3820	3826	3831	3838	3846	3850	3861	3873	3888
25.0	3700	3706	3711	3716	3722	3731	3735	3747	3759	3779
27.5	3580	3584	3587	3590	3598	3605	3610	3623	3636	3655

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CANDELA TABULATION - (Cont.)

30.0	3455	3456	3455	3457	3463	3472	3477	3487	3503	3524
32.5	3325	3322	3318	3317	3320	3326	3332	3342	3360	3384
35.0	3192	3184	3176	3170	3170	3174	3179	3192	3209	3234
37.5	3055	3043	3028	3017	3013	3015	3021	3032	3050	3077
40.0	2915	2899	2878	2860	2852	2852	2853	2864	2886	2912
42.5	2771	2749	2724	2701	2686	2684	2685	2696	2715	2744
45.0	2624	2599	2569	2539	2518	2510	2510	2519	2543	2572
47.5	2472	2446	2412	2377	2347	2338	2335	2344	2364	2395
50.0	2319	2291	2254	2214	2180	2163	2158	2165	2189	2222
52.5	2165	2135	2097	2052	2012	1990	1985	1990	2011	2049
55.0	2007	1979	1939	1889	1845	1817	1807	1814	1834	1873
57.5	1852	1822	1781	1730	1683	1649	1636	1639	1661	1703
60.0	1698	1668	1626	1572	1524	1485	1469	1467	1493	1534
62.5	1541	1515	1472	1418	1366	1325	1304	1303	1329	1372
65.0	1385	1359	1319	1265	1212	1169	1143	1142	1167	1214
67.5	1238	1207	1168	1118	1064	1015	985	986	1011	1061
70.0	1089	1059	1017	971	916	870	837	835	860	910
72.5	942	910	871	826	779	730	692	687	712	769
75.0	795	768	730	688	644	596	556	551	576	634
77.5	632	615	592	552	513	470	429	419	444	504
80.0	481	464	445	421	387	352	311	297	326	381
82.5	359	335	310	288	267	239	206	190	219	267
85.0	224	204	185	164	150	135	116	102	123	158
87.5	72	69	64	55	51	48	45	39	47	67
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	4361	4361	4361	4361	4361	4361	4361
2.5	4346	4346	4346	4345	4345	4345	4344
5.0	4337	4336	4333	4330	4335	4339	4342
7.5	4310	4311	4312	4310	4310	4322	4323
10.0	4271	4275	4277	4277	4278	4284	4292
12.5	4221	4226	4229	4231	4231	4232	4249
15.0	4158	4165	4170	4172	4174	4172	4189
17.5	4084	4092	4098	4100	4101	4099	4111
20.0	3999	4006	4014	4017	4017	4015	4023
22.5	3901	3910	3917	3920	3921	3919	3921
25.0	3791	3801	3809	3812	3815	3812	3811
27.5	3671	3681	3690	3694	3698	3698	3693
30.0	3540	3552	3563	3569	3574	3576	3571
32.5	3400	3414	3427	3437	3446	3449	3442
35.0	3254	3270	3286	3300	3312	3318	3310
37.5	3098	3118	3137	3158	3174	3185	3175
40.0	2938	2961	2986	3013	3035	3050	3041
42.5	2771	2801	2834	2865	2892	2912	2902
45.0	2602	2636	2676	2715	2747	2770	2759
47.5	2430	2473	2518	2565	2601	2624	2612
50.0	2260	2308	2358	2412	2452	2477	2461
52.5	2091	2145	2202	2257	2300	2326	2311
55.0	1923	1982	2044	2102	2146	2173	2155
57.5	1757	1821	1888	1947	1992	2017	1997
60.0	1594	1661	1732	1791	1837	1861	1839
62.5	1435	1507	1576	1638	1681	1702	1680
65.0	1280	1352	1423	1483	1523	1546	1523
67.5	1129	1202	1270	1328	1369	1393	1368
70.0	980	1053	1119	1176	1219	1242	1215
72.5	837	905	968	1025	1065	1092	1065
75.0	700	765	823	877	920	943	912
77.5	566	625	680	730	762	777	741
80.0	438	490	536	570	594	608	577
82.5	313	355	388	420	445	466	444
85.0	193	223	258	290	323	347	318
87.5	82	103	133	156	181	205	163
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	1576.83	N.A.	13.80
0-30	3306.08	N.A.	29.00
0-40	5324.01	N.A.	46.60
0-60	9094.72	N.A.	79.70
0-80	11186.61	N.A.	98.00
0-90	11418.25	N.A.	100.00
10-90	11007.38	N.A.	96.40
20-40	3747.18	N.A.	32.80
20-50	5762.17	N.A.	50.50
40-70	5085.86	N.A.	44.50
60-80	2091.89	N.A.	18.30
70-80	776.74	N.A.	6.80
80-90	231.64	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	11418.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	410.88
10-20	1165.95
20-30	1729.26
30-40	2017.93
40-50	2014.98
50-60	1755.73
60-70	1315.15
70-80	776.74
80-90	231.64
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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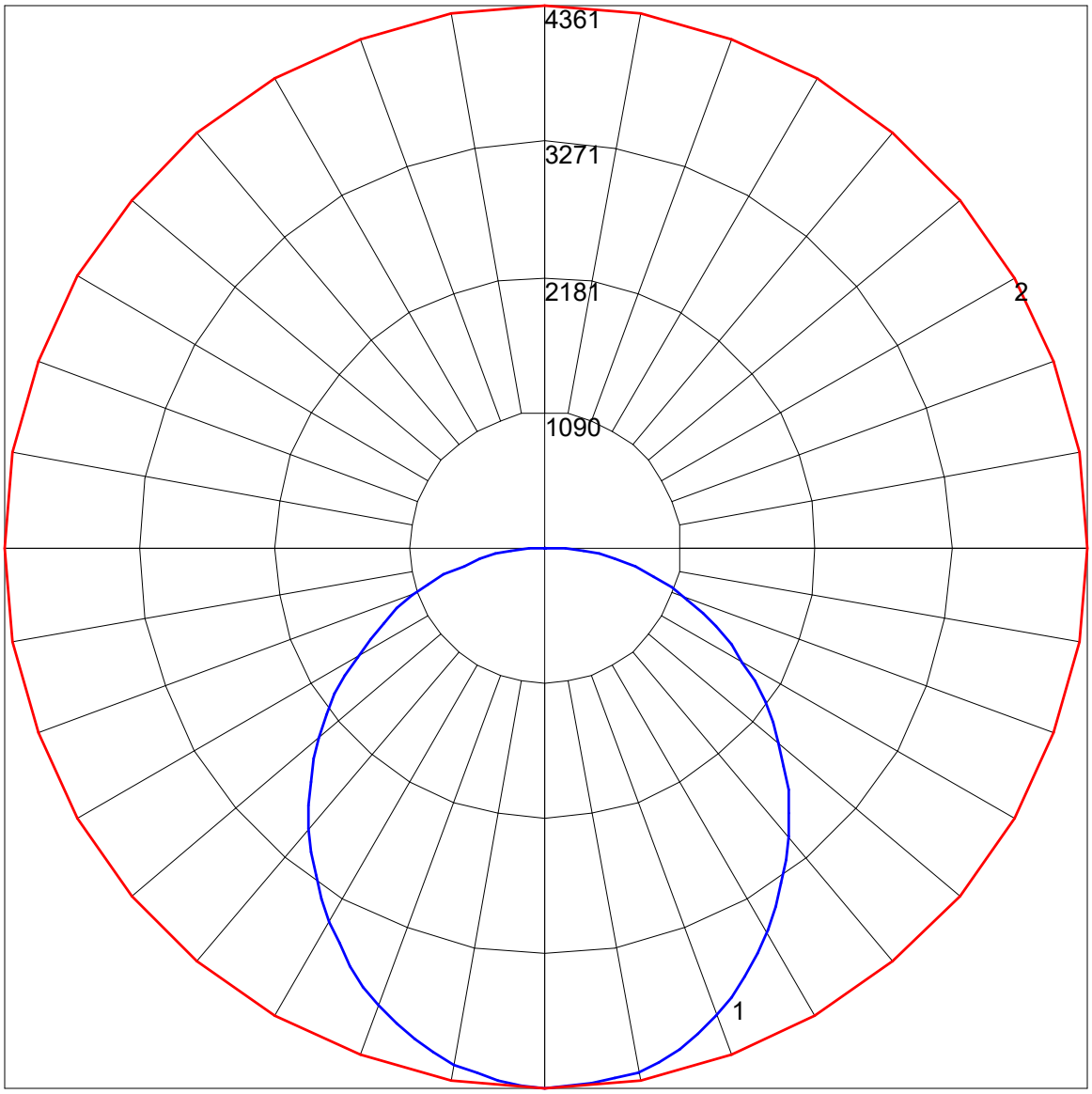
POLAR GRAPH



Maximum Candela = 4361 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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