IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-15L-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-15L-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	14568
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	105
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	40482	38981	36963
55	38989	36409	32822
65	37387	34058	28036
75	36573	31813	22088
85	37882	28598	12130

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	5563	5563	5563	5563	5563	5563	5563	5563	5563	5563
2.5	5543	5544	5544	5544	5545	5545	5545	5545	5544	5543
5.0	5540	5536	5531	5524	5528	5532	5533	5532	5522	5519
7.5	5515	5514	5499	5499	5502	5501	5499	5497	5486	5481
10.0	5476	5465	5459	5457	5457	5455	5450	5446	5434	5427
12.5	5421	5400	5399	5399	5396	5392	5385	5378	5366	5357
15.0	5345	5323	5325	5323	5320	5313	5306	5295	5282	5272
17.5	5245	5230	5232	5231	5228	5220	5211	5199	5184	5172
20.0	5133	5122	5125	5125	5121	5112	5103	5088	5070	5055
22.5	5003	5000	5003	5002	4998	4989	4977	4961	4942	4926
25.0	4863	4864	4867	4864	4860	4850	4837	4821	4796	4780
27.5	4712	4718	4718	4714	4708	4697	4684	4664	4639	4622
30.0	4557	4563	4561	4554	4546	4532	4516	4496	4469	4449
32.5	4392	4401	4397	4385	4372	4356	4338	4317	4287	4265
35.0	4223	4233	4225	4211	4193	4172	4152	4126	4094	4072
37.5	4051	4064	4050	4029	4003	3978	3953	3925	3891	3868
40.0	3880	3891	3872	3844	3810	3778	3749	3716	3682	3654
42.5	3703	3716	3690	3656	3616	3573	3535	3501	3465	3440
45.0	3520	3534	3505	3465	3415	3364	3319	3281	3245	3214
47.5	3332	3348	3318	3272	3213	3156	3101	3056	3017	2991
50.0	3140	3161	3128	3077	3009	2945	2883	2835	2793	2763
52.5	2949	2968	2934	2879	2810	2737	2668	2615	2566	2539
55.0	2750	2772	2738	2682	2608	2528	2454	2390	2340	2315
57.5	2548	2573	2541	2484	2409	2323	2242	2172	2120	2091
60.0	2346	2374	2344	2285	2210	2120	2033	1958	1905	1871
62.5	2143	2171	2145	2090	2011	1922	1830	1751	1696	1663
65.0	1943	1972	1943	1892	1816	1724	1633	1549	1489	1457
67.5	1745	1777	1747	1694	1621	1533	1440	1354	1290	1258
70.0	1550	1584	1556	1501	1427	1343	1250	1161	1097	1066
72.5	1359	1393	1359	1308	1235	1155	1068	981	909	876
75.0	1164	1203	1173	1120	1050	975	893	809	735	703
77.5	945	991	973	931	868	797	723	643	567	534
80.0	736	775	758	727	683	625	559	486	416	378
82.5	567	594	568	536	495	453	399	340	279	242
85.0	406	443	412	371	329	284	246	202	157	130
87.5	208	262	230	199	170	131	105	85	60	50
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	5563	5563	5563	5563	5563	5563	5563	5563	5563	5563
2.5	5543	5543	5541	5541	5540	5540	5541	5544	5544	5544
5.0	5516	5516	5516	5512	5509	5509	5509	5509	5509	5509
7.5	5478	5476	5472	5469	5465	5463	5467	5464	5463	5464
10.0	5422	5418	5413	5409	5406	5402	5402	5405	5404	5405
12.5	5350	5346	5340	5334	5332	5325	5321	5328	5326	5328
15.0	5264	5258	5252	5245	5240	5232	5226	5236	5235	5236
17.5	5162	5156	5148	5141	5135	5127	5118	5127	5130	5127
20.0	5046	5040	5031	5021	5015	5007	4997	5007	5014	5007
22.5	4913	4908	4897	4888	4881	4873	4864	4875	4885	4875
25.0	4765	4761	4749	4741	4735	4728	4720	4732	4745	4732
27.5	4606	4600	4591	4580	4576	4572	4567	4580	4597	4580
30.0	4436	4430	4418	4411	4409	4410	4409	4422	4441	4422
32.5	4252	4244	4236	4232	4233	4238	4242	4259	4283	4259
35.0	4056	4050	4045	4045	4052	4063	4072	4093	4121	4093
37.5	3855	3847	3844	3850	3864	3882	3898	3924	3956	3924
40.0	3640	3639	3639	3649	3671	3699	3719	3749	3784	3749
42.5	3425	3424	3427	3446	3475	3508	3535	3568	3605	3568
45.0	3203	3203	3213	3239	3277	3317	3348	3381	3420	3381
47.5	2979	2983	2995	3032	3077	3120	3154	3188	3229	3188
50.0	2754	2760	2781	2824	2875	2923	2959	2991	3034	2991
52.5	2532	2539	2568	2619	2675	2723	2763	2793	2839	2793
55.0	2306	2319	2354	2411	2473	2524	2561	2593	2642	2593
57.5	2087	2104	2147	2208	2272	2324	2363	2392	2442	2392
60.0	1874	1895	1944	2006	2074	2128	2167	2193	2242	2193
62.5	1664	1690	1743	1810	1878	1933	1967	1993	2041	1993
65.0	1459	1491	1546	1614	1683	1734	1768	1798	1844	1798
67.5	1257	1295	1358	1426	1490	1540	1579	1605	1650	1605
70.0	1068	1110	1169	1239	1298	1351	1389	1413	1460	1413
72.5	883	931	994	1054	1112	1161	1202	1226	1274	1226
75.0	710	761	822	877	931	979	1015	1029	1080	1029
77.5	547	600	655	704	756	784	807	820	871	820
80.0	397	449	494	537	568	592	614	632	677	632

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CANDELA TABULATION - (Cont.)

82.5	263	305	340	368	395	427	458	477	520	477
85.0	148	173	191	209	236	261	285	304	364	304
87.5	58	62	65	71	81	88	92	110	166	110
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	5563	5563	5563	5563	5563	5563	5563	5563	5563	5563
2.5	5541	5540	5540	5541	5541	5543	5543	5543	5544	5545
5.0	5509	5509	5509	5512	5516	5516	5516	5519	5522	5532
7.5	5467	5463	5465	5469	5472	5476	5478	5481	5486	5497
10.0	5402	5402	5406	5409	5413	5418	5422	5427	5434	5446
12.5	5321	5325	5332	5334	5340	5346	5350	5357	5366	5378
15.0	5226	5232	5240	5245	5252	5258	5264	5272	5282	5295
17.5	5118	5127	5135	5141	5148	5156	5162	5172	5184	5199
20.0	4997	5007	5015	5021	5031	5040	5046	5055	5070	5088
22.5	4864	4873	4881	4888	4897	4908	4913	4926	4942	4961
25.0	4720	4728	4735	4741	4749	4761	4765	4780	4796	4821
27.5	4567	4572	4576	4580	4591	4600	4606	4622	4639	4664

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CANDELA TABULATION - (Cont.)

30.0	4409	4410	4409	4411	4418	4430	4436	4449	4469	4496
32.5	4242	4238	4233	4232	4236	4244	4252	4265	4287	4317
35.0	4072	4063	4052	4045	4045	4050	4056	4072	4094	4126
37.5	3898	3882	3864	3850	3844	3847	3855	3868	3891	3925
40.0	3719	3699	3671	3649	3639	3639	3640	3654	3682	3716
42.5	3535	3508	3475	3446	3427	3424	3425	3440	3465	3501
45.0	3348	3317	3277	3239	3213	3203	3203	3214	3245	3281
47.5	3154	3120	3077	3032	2995	2983	2979	2991	3017	3056
50.0	2959	2923	2875	2824	2781	2760	2754	2763	2793	2835
52.5	2763	2723	2675	2619	2568	2539	2532	2539	2566	2615
55.0	2561	2524	2473	2411	2354	2319	2306	2315	2340	2390
57.5	2363	2324	2272	2208	2147	2104	2087	2091	2120	2172
60.0	2167	2128	2074	2006	1944	1895	1874	1871	1905	1958
62.5	1967	1933	1878	1810	1743	1690	1664	1663	1696	1751
65.0	1768	1734	1683	1614	1546	1491	1459	1457	1489	1549
67.5	1579	1540	1490	1426	1358	1295	1257	1258	1290	1354
70.0	1389	1351	1298	1239	1169	1110	1068	1066	1097	1161
72.5	1202	1161	1112	1054	994	931	883	876	909	981
75.0	1015	979	931	877	822	761	710	703	735	809
77.5	807	784	756	704	655	600	547	534	567	643
80.0	614	592	568	537	494	449	397	378	416	486
82.5	458	427	395	368	340	305	263	242	279	340
85.0	285	261	236	209	191	173	148	130	157	202
87.5	92	88	81	71	65	62	58	50	60	85
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	5563	5563	5563	5563	5563	5563	5563
2.5	5545	5545	5545	5544	5544	5544	5543
5.0	5533	5532	5528	5524	5531	5536	5540
7.5	5499	5501	5502	5499	5499	5514	5515
10.0	5450	5455	5457	5457	5459	5465	5476
12.5	5385	5392	5396	5399	5399	5400	5421
15.0	5306	5313	5320	5323	5325	5323	5345
17.5	5211	5220	5228	5231	5232	5230	5245
20.0	5103	5112	5121	5125	5125	5122	5133
22.5	4977	4989	4998	5002	5003	5000	5003
25.0	4837	4850	4860	4864	4867	4864	4863
27.5	4684	4697	4708	4714	4718	4718	4712
30.0	4516	4532	4546	4554	4561	4563	4557
32.5	4338	4356	4372	4385	4397	4401	4392
35.0	4152	4172	4193	4211	4225	4233	4223
37.5	3953	3978	4003	4029	4050	4064	4051
40.0	3749	3778	3810	3844	3872	3891	3880
42.5	3535	3573	3616	3656	3690	3716	3703
45.0	3319	3364	3415	3465	3505	3534	3520
47.5	3101	3156	3213	3272	3318	3348	3332
50.0	2883	2945	3009	3077	3128	3161	3140
52.5	2668	2737	2810	2879	2934	2968	2949
55.0	2454	2528	2608	2682	2738	2772	2750
57.5	2242	2323	2409	2484	2541	2573	2548
60.0	2033	2120	2210	2285	2344	2374	2346
62.5	1830	1922	2011	2090	2145	2171	2143
65.0	1633	1724	1816	1892	1943	1972	1943
67.5	1440	1533	1621	1694	1747	1777	1745
70.0	1250	1343	1427	1501	1556	1584	1550
72.5	1068	1155	1235	1308	1359	1393	1359
75.0	893	975	1050	1120	1173	1203	1164
77.5	723	797	868	931	973	991	945
80.0	559	625	683	727	758	775	736
82.5	399	453	495	536	568	594	567
85.0	246	284	329	371	412	443	406
87.5	105	131	170	199	230	262	208
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	2011.83	N.A.	13.80
0-30	4218.17	N.A.	29.00
0-40	6792.83	N.A.	46.60
0-60	11603.82	N.A.	79.70
0-80	14272.83	N.A.	98.00
0-90	14568.36	N.A.	100.00
10-90	14044.13	N.A.	96.40
20-40	4781.00	N.A.	32.80
20-50	7351.9	N.A.	50.50
40-70	6488.96	N.A.	44.50
60-80	2669.00	N.A.	18.30
70-80	991.03	N.A.	6.80
80-90	295.53	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	14568.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	524.23
10-20	1487.6
20-30	2206.34
30-40	2574.66
40-50	2570.89
50-60	2240.1
60-70	1677.97
70-80	991.03
80-90	295.53
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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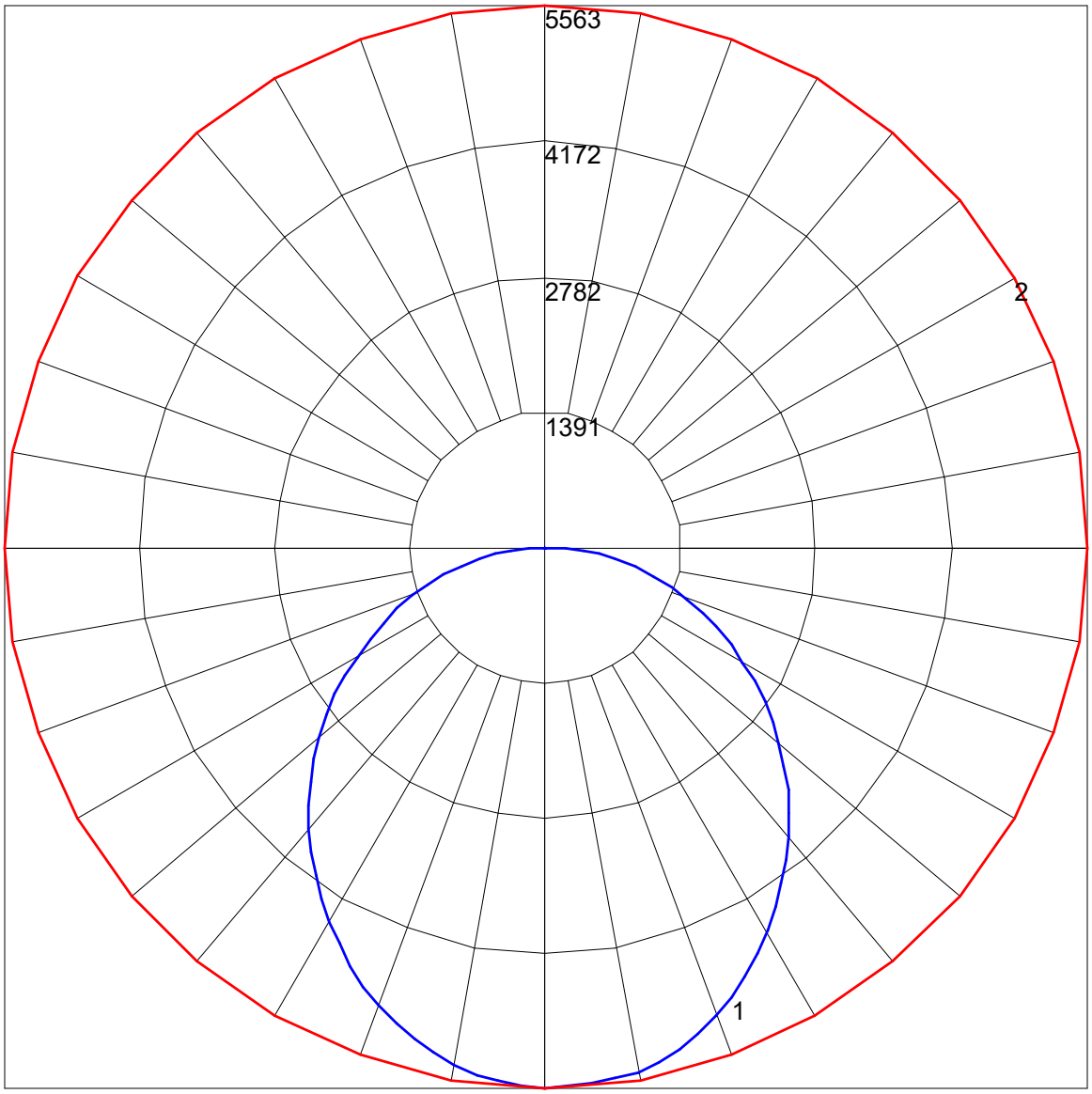
POLAR GRAPH



Maximum Candela = 5563 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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