IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-12L-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-12L-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	11126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	78
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	30913	29769	28234
55	29773	27810	25066
65	28555	26015	21416
75	27932	24303	16872
85	28925	21833	9237

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	4249	4249	4249	4249	4249	4249	4249	4249	4249	4249
2.5	4233	4234	4234	4234	4235	4235	4235	4235	4234	4233
5.0	4231	4228	4224	4219	4222	4225	4226	4225	4217	4215
7.5	4212	4211	4200	4200	4202	4201	4200	4198	4190	4186
10.0	4182	4174	4169	4168	4168	4166	4162	4159	4150	4145
12.5	4140	4124	4123	4123	4121	4118	4113	4107	4098	4091
15.0	4082	4065	4067	4065	4063	4058	4052	4044	4034	4026
17.5	4006	3994	3996	3995	3993	3987	3980	3971	3959	3950
20.0	3920	3912	3914	3914	3911	3904	3897	3886	3872	3861
22.5	3821	3819	3821	3820	3817	3810	3801	3789	3774	3762
25.0	3714	3715	3717	3715	3712	3704	3694	3682	3663	3651
27.5	3599	3603	3603	3600	3596	3587	3577	3562	3543	3530
30.0	3480	3485	3483	3478	3472	3461	3449	3434	3413	3398
32.5	3354	3361	3358	3349	3339	3327	3313	3297	3274	3257
35.0	3225	3233	3227	3216	3202	3186	3171	3151	3127	3110
37.5	3094	3104	3093	3077	3057	3038	3019	2998	2972	2954
40.0	2963	2972	2957	2936	2910	2885	2863	2838	2812	2791
42.5	2828	2838	2818	2792	2762	2729	2700	2674	2646	2627
45.0	2688	2699	2677	2646	2608	2569	2535	2506	2478	2455
47.5	2545	2557	2534	2499	2454	2410	2368	2334	2304	2284
50.0	2398	2414	2389	2350	2298	2249	2202	2165	2133	2110
52.5	2252	2267	2241	2199	2146	2090	2038	1997	1960	1939
55.0	2100	2117	2091	2048	1992	1931	1874	1825	1787	1768
57.5	1946	1965	1941	1897	1840	1774	1712	1659	1619	1597
60.0	1792	1813	1790	1745	1688	1619	1553	1495	1455	1429
62.5	1637	1658	1638	1596	1536	1468	1398	1337	1295	1270
65.0	1484	1506	1484	1445	1387	1317	1247	1183	1137	1113
67.5	1333	1357	1334	1294	1238	1171	1100	1034	985	961
70.0	1184	1210	1188	1146	1090	1026	955	887	838	814
72.5	1038	1064	1038	999	943	882	816	749	694	669
75.0	889	919	896	855	802	745	682	618	561	537
77.5	722	757	743	711	663	609	552	491	433	408
80.0	562	592	579	555	522	477	427	371	318	289
82.5	433	454	434	409	378	346	305	260	213	185
85.0	310	338	315	283	251	217	188	154	120	99
87.5	159	200	176	152	130	100	80	65	46	38
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	4249	4249	4249	4249	4249	4249	4249	4249	4249	4249
2.5	4233	4233	4232	4232	4231	4231	4232	4234	4234	4234
5.0	4213	4213	4213	4210	4207	4207	4207	4207	4207	4207
7.5	4184	4182	4179	4177	4174	4172	4175	4173	4172	4173
10.0	4141	4138	4134	4131	4129	4126	4126	4128	4127	4128
12.5	4086	4083	4078	4074	4072	4067	4064	4069	4068	4069
15.0	4020	4016	4011	4006	4002	3996	3991	3999	3998	3999
17.5	3942	3938	3932	3926	3922	3916	3909	3916	3918	3916
20.0	3854	3849	3842	3835	3830	3824	3816	3824	3829	3824
22.5	3752	3748	3740	3733	3728	3722	3715	3723	3731	3723
25.0	3639	3636	3627	3621	3616	3611	3605	3614	3624	3614
27.5	3518	3513	3506	3498	3495	3492	3488	3498	3511	3498
30.0	3388	3383	3374	3369	3367	3368	3367	3377	3392	3377
32.5	3247	3241	3235	3232	3233	3237	3240	3253	3271	3253
35.0	3098	3093	3089	3089	3095	3103	3110	3126	3147	3126
37.5	2944	2938	2936	2940	2951	2965	2977	2997	3021	2997
40.0	2780	2779	2779	2787	2804	2825	2840	2863	2890	2863
42.5	2616	2615	2617	2632	2654	2679	2700	2725	2753	2725
45.0	2446	2446	2454	2474	2503	2533	2557	2582	2612	2582
47.5	2275	2278	2287	2316	2350	2383	2409	2435	2466	2435
50.0	2103	2108	2124	2157	2196	2232	2260	2284	2317	2284
52.5	1934	1939	1961	2000	2043	2080	2110	2133	2168	2133
55.0	1761	1771	1798	1841	1889	1928	1956	1980	2018	1980
57.5	1594	1607	1640	1686	1735	1775	1805	1827	1865	1827
60.0	1431	1447	1485	1532	1584	1625	1655	1675	1712	1675
62.5	1271	1291	1331	1382	1434	1476	1502	1522	1559	1522
65.0	1114	1139	1181	1233	1285	1324	1350	1373	1408	1373
67.5	960	989	1037	1089	1138	1176	1206	1226	1260	1226
70.0	816	848	893	946	991	1032	1061	1079	1115	1079
72.5	674	711	759	805	849	887	918	936	973	936
75.0	542	581	628	670	711	748	775	786	825	786
77.5	418	458	500	538	577	599	616	626	665	626
80.0	303	343	377	410	434	452	469	483	517	483

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CANDELA TABULATION - (Cont.)

82.5	201	233	260	281	302	326	350	364	397	364
85.0	113	132	146	160	180	199	218	232	278	232
87.5	44	47	50	54	62	67	70	84	127	84
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	4249	4249	4249	4249	4249	4249	4249	4249	4249	4249
2.5	4232	4231	4231	4232	4232	4233	4233	4233	4234	4235
5.0	4207	4207	4207	4210	4213	4213	4213	4215	4217	4225
7.5	4175	4172	4174	4177	4179	4182	4184	4186	4190	4198
10.0	4126	4126	4129	4131	4134	4138	4141	4145	4150	4159
12.5	4064	4067	4072	4074	4078	4083	4086	4091	4098	4107
15.0	3991	3996	4002	4006	4011	4016	4020	4026	4034	4044
17.5	3909	3916	3922	3926	3932	3938	3942	3950	3959	3971
20.0	3816	3824	3830	3835	3842	3849	3854	3861	3872	3886
22.5	3715	3722	3728	3733	3740	3748	3752	3762	3774	3789
25.0	3605	3611	3616	3621	3627	3636	3639	3651	3663	3682
27.5	3488	3492	3495	3498	3506	3513	3518	3530	3543	3562

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CANDELA TABULATION - (Cont.)

30.0	3367	3368	3367	3369	3374	3383	3388	3398	3413	3434
32.5	3240	3237	3233	3232	3235	3241	3247	3257	3274	3297
35.0	3110	3103	3095	3089	3089	3093	3098	3110	3127	3151
37.5	2977	2965	2951	2940	2936	2938	2944	2954	2972	2998
40.0	2840	2825	2804	2787	2779	2779	2780	2791	2812	2838
42.5	2700	2679	2654	2632	2617	2615	2616	2627	2646	2674
45.0	2557	2533	2503	2474	2454	2446	2446	2455	2478	2506
47.5	2409	2383	2350	2316	2287	2278	2275	2284	2304	2334
50.0	2260	2232	2196	2157	2124	2108	2103	2110	2133	2165
52.5	2110	2080	2043	2000	1961	1939	1934	1939	1960	1997
55.0	1956	1928	1889	1841	1798	1771	1761	1768	1787	1825
57.5	1805	1775	1735	1686	1640	1607	1594	1597	1619	1659
60.0	1655	1625	1584	1532	1485	1447	1431	1429	1455	1495
62.5	1502	1476	1434	1382	1331	1291	1271	1270	1295	1337
65.0	1350	1324	1285	1233	1181	1139	1114	1113	1137	1183
67.5	1206	1176	1138	1089	1037	989	960	961	985	1034
70.0	1061	1032	991	946	893	848	816	814	838	887
72.5	918	887	849	805	759	711	674	669	694	749
75.0	775	748	711	670	628	581	542	537	561	618
77.5	616	599	577	538	500	458	418	408	433	491
80.0	469	452	434	410	377	343	303	289	318	371
82.5	350	326	302	281	260	233	201	185	213	260
85.0	218	199	180	160	146	132	113	99	120	154
87.5	70	67	62	54	50	47	44	38	46	65
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	4249	4249	4249	4249	4249	4249	4249
2.5	4235	4235	4235	4234	4234	4234	4233
5.0	4226	4225	4222	4219	4224	4228	4231
7.5	4200	4201	4202	4200	4200	4211	4212
10.0	4162	4166	4168	4168	4169	4174	4182
12.5	4113	4118	4121	4123	4123	4124	4140
15.0	4052	4058	4063	4065	4067	4065	4082
17.5	3980	3987	3993	3995	3996	3994	4006
20.0	3897	3904	3911	3914	3914	3912	3920
22.5	3801	3810	3817	3820	3821	3819	3821
25.0	3694	3704	3712	3715	3717	3715	3714
27.5	3577	3587	3596	3600	3603	3603	3599
30.0	3449	3461	3472	3478	3483	3485	3480
32.5	3313	3327	3339	3349	3358	3361	3354
35.0	3171	3186	3202	3216	3227	3233	3225
37.5	3019	3038	3057	3077	3093	3104	3094
40.0	2863	2885	2910	2936	2957	2972	2963
42.5	2700	2729	2762	2792	2818	2838	2828
45.0	2535	2569	2608	2646	2677	2699	2688
47.5	2368	2410	2454	2499	2534	2557	2545
50.0	2202	2249	2298	2350	2389	2414	2398
52.5	2038	2090	2146	2199	2241	2267	2252
55.0	1874	1931	1992	2048	2091	2117	2100
57.5	1712	1774	1840	1897	1941	1965	1946
60.0	1553	1619	1688	1745	1790	1813	1792
62.5	1398	1468	1536	1596	1638	1658	1637
65.0	1247	1317	1387	1445	1484	1506	1484
67.5	1100	1171	1238	1294	1334	1357	1333
70.0	955	1026	1090	1146	1188	1210	1184
72.5	816	882	943	999	1038	1064	1038
75.0	682	745	802	855	896	919	889
77.5	552	609	663	711	743	757	722
80.0	427	477	522	555	579	592	562
82.5	305	346	378	409	434	454	433
85.0	188	217	251	283	315	338	310
87.5	80	100	130	152	176	200	159
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	1536.49	N.A.	13.80
0-30	3221.54	N.A.	29.00
0-40	5187.87	N.A.	46.60
0-60	8862.14	N.A.	79.70
0-80	10900.53	N.A.	98.00
0-90	11126.23	N.A.	100.00
10-90	10725.86	N.A.	96.40
20-40	3651.37	N.A.	32.80
20-50	5614.82	N.A.	50.50
40-70	4955.77	N.A.	44.50
60-80	2038.39	N.A.	18.30
70-80	756.88	N.A.	6.80
80-90	225.71	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	11126.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	400.37
10-20	1136.13
20-30	1685.04
30-40	1966.33
40-50	1963.45
50-60	1710.82
60-70	1281.5
70-80	756.88
80-90	225.71
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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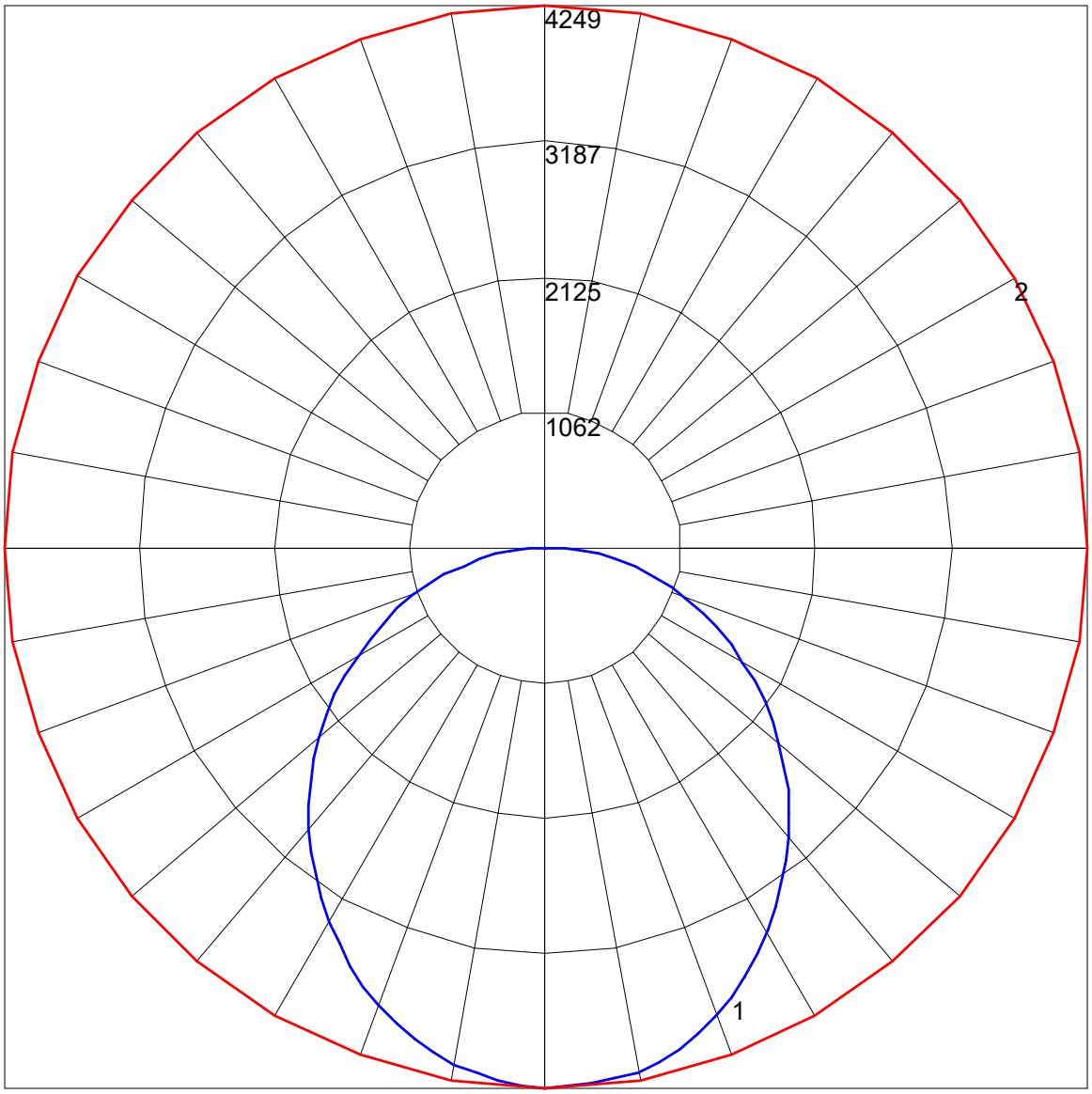
POLAR GRAPH



Maximum Candela = 4249 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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