IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-30L-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-30L-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	27343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	184
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	75972	73154	69382
55	73172	68337	61603
65	70176	63932	52627
75	68652	59713	41474
85	71098	53650	22766

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	10442	10442	10442	10442	10442	10442	10442	10442	10442	10442
2.5	10403	10405	10405	10405	10408	10408	10408	10408	10405	10403
5.0	10398	10390	10380	10368	10376	10383	10385	10383	10364	10358
7.5	10351	10348	10321	10321	10326	10324	10321	10317	10296	10287
10.0	10277	10257	10246	10243	10243	10237	10228	10221	10198	10186
12.5	10174	10134	10132	10132	10127	10120	10107	10093	10071	10054
15.0	10032	9990	9995	9990	9984	9972	9958	9938	9913	9894
17.5	9845	9815	9820	9818	9813	9798	9781	9758	9729	9707
20.0	9633	9614	9619	9619	9612	9594	9576	9550	9515	9489
22.5	9390	9385	9390	9387	9380	9363	9341	9311	9275	9245
25.0	9127	9129	9134	9129	9122	9102	9077	9049	9002	8972
27.5	8844	8854	8854	8847	8837	8815	8790	8753	8707	8675
30.0	8552	8564	8559	8548	8532	8505	8476	8439	8387	8350
32.5	8243	8259	8252	8230	8206	8176	8142	8102	8046	8004
35.0	7926	7945	7930	7903	7869	7830	7793	7744	7684	7643
37.5	7603	7628	7601	7562	7513	7466	7420	7368	7304	7260
40.0	7281	7304	7267	7215	7151	7090	7035	6974	6910	6859
42.5	6950	6974	6925	6861	6787	6707	6636	6572	6502	6456
45.0	6606	6633	6579	6502	6409	6313	6230	6158	6089	6033
47.5	6254	6283	6228	6141	6030	5923	5820	5736	5662	5613
50.0	5893	5932	5871	5775	5647	5527	5412	5321	5242	5185
52.5	5535	5571	5508	5404	5274	5136	5009	4908	4817	4765
55.0	5161	5203	5139	5032	4895	4745	4605	4485	4391	4345
57.5	4783	4829	4770	4662	4522	4360	4207	4077	3979	3924
60.0	4403	4455	4399	4289	4148	3979	3817	3674	3576	3512
62.5	4023	4075	4025	3922	3774	3608	3436	3286	3182	3121
65.0	3647	3701	3647	3551	3409	3236	3065	2907	2794	2735
67.5	3275	3334	3279	3180	3042	2878	2703	2541	2420	2361
70.0	2910	2974	2919	2816	2678	2521	2347	2180	2060	2001
72.5	2551	2614	2551	2455	2318	2167	2005	1841	1705	1644
75.0	2185	2258	2202	2101	1971	1830	1676	1518	1379	1320
77.5	1775	1860	1826	1748	1629	1497	1356	1206	1064	1003
80.0	1381	1454	1423	1363	1283	1172	1049	912	782	711
82.5	1064	1116	1067	1005	929	850	750	639	524	454
85.0	762	830	774	695	617	533	462	378	294	244
87.5	390	492	433	374	319	246	196	160	113	93
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	10442	10442	10442	10442	10442	10442	10442	10442	10442	10442
2.5	10403	10403	10400	10400	10398	10398	10400	10405	10405	10405
5.0	10353	10353	10353	10346	10339	10339	10339	10339	10339	10339
7.5	10282	10277	10270	10265	10257	10253	10260	10255	10253	10255
10.0	10177	10169	10159	10152	10147	10139	10139	10145	10142	10145
12.5	10041	10034	10022	10012	10007	9995	9988	10000	9997	10000
15.0	9879	9870	9857	9845	9835	9820	9808	9827	9825	9827
17.5	9687	9678	9663	9648	9638	9624	9606	9624	9628	9624
20.0	9471	9459	9442	9425	9412	9398	9378	9398	9410	9398
22.5	9220	9211	9191	9174	9161	9147	9129	9149	9168	9149
25.0	8943	8935	8913	8899	8886	8874	8860	8881	8906	8881
27.5	8646	8633	8616	8596	8589	8582	8571	8596	8628	8596
30.0	8326	8314	8291	8279	8274	8277	8274	8299	8336	8299
32.5	7979	7965	7950	7942	7945	7955	7962	7994	8038	7994
35.0	7613	7601	7591	7591	7606	7625	7643	7682	7734	7682
37.5	7235	7220	7215	7225	7252	7286	7316	7365	7424	7365
40.0	6832	6830	6830	6849	6891	6942	6980	7035	7103	7035
42.5	6429	6426	6431	6468	6522	6584	6636	6697	6766	6697
45.0	6011	6011	6030	6080	6151	6225	6283	6345	6419	6345
47.5	5590	5599	5620	5692	5775	5856	5920	5984	6060	5984
50.0	5168	5180	5219	5301	5397	5485	5554	5613	5694	5613
52.5	4753	4765	4819	4915	5021	5112	5185	5242	5328	5242
55.0	4328	4352	4419	4524	4642	4738	4807	4866	4959	4866
57.5	3917	3949	4031	4143	4264	4362	4435	4490	4583	4490
60.0	3517	3556	3649	3765	3893	3993	4067	4116	4207	4116
62.5	3124	3172	3271	3396	3524	3628	3691	3740	3831	3740
65.0	2737	2799	2903	3030	3158	3254	3318	3375	3460	3375
67.5	2359	2431	2548	2676	2796	2890	2964	3013	3097	3013
70.0	2005	2083	2195	2325	2436	2536	2607	2652	2740	2652
72.5	1657	1748	1865	1978	2087	2180	2256	2300	2391	2300
75.0	1331	1428	1543	1647	1748	1839	1905	1932	2028	1932
77.5	1027	1126	1229	1322	1418	1472	1514	1538	1634	1538
80.0	745	843	927	1007	1067	1110	1153	1187	1271	1187

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CANDELA TABULATION - (Cont.)

82.5	494	572	639	691	742	802	860	895	976	895
85.0	278	324	358	394	442	489	536	570	683	570
87.5	108	116	123	132	153	164	173	207	312	207
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	10442	10442	10442	10442	10442	10442	10442	10442	10442	10442
2.5	10400	10398	10398	10400	10400	10403	10403	10403	10405	10408
5.0	10339	10339	10339	10346	10353	10353	10353	10358	10364	10383
7.5	10260	10253	10257	10265	10270	10277	10282	10287	10296	10317
10.0	10139	10139	10147	10152	10159	10169	10177	10186	10198	10221
12.5	9988	9995	10007	10012	10022	10034	10041	10054	10071	10093
15.0	9808	9820	9835	9845	9857	9870	9879	9894	9913	9938
17.5	9606	9624	9638	9648	9663	9678	9687	9707	9729	9758
20.0	9378	9398	9412	9425	9442	9459	9471	9489	9515	9550
22.5	9129	9147	9161	9174	9191	9211	9220	9245	9275	9311
25.0	8860	8874	8886	8899	8913	8935	8943	8972	9002	9049
27.5	8571	8582	8589	8596	8616	8633	8646	8675	8707	8753

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CANDELA TABULATION - (Cont.)

30.0	8274	8277	8274	8279	8291	8314	8326	8350	8387	8439
32.5	7962	7955	7945	7942	7950	7965	7979	8004	8046	8102
35.0	7643	7625	7606	7591	7591	7601	7613	7643	7684	7744
37.5	7316	7286	7252	7225	7215	7220	7235	7260	7304	7368
40.0	6980	6942	6891	6849	6830	6830	6832	6859	6910	6974
42.5	6636	6584	6522	6468	6431	6426	6429	6456	6502	6572
45.0	6283	6225	6151	6080	6030	6011	6011	6033	6089	6158
47.5	5920	5856	5775	5692	5620	5599	5590	5613	5662	5736
50.0	5554	5485	5397	5301	5219	5180	5168	5185	5242	5321
52.5	5185	5112	5021	4915	4819	4765	4753	4765	4817	4908
55.0	4807	4738	4642	4524	4419	4352	4328	4345	4391	4485
57.5	4435	4362	4264	4143	4031	3949	3917	3924	3979	4077
60.0	4067	3993	3893	3765	3649	3556	3517	3512	3576	3674
62.5	3691	3628	3524	3396	3271	3172	3124	3121	3182	3286
65.0	3318	3254	3158	3030	2903	2799	2737	2735	2794	2907
67.5	2964	2890	2796	2676	2548	2431	2359	2361	2420	2541
70.0	2607	2536	2436	2325	2195	2083	2005	2001	2060	2180
72.5	2256	2180	2087	1978	1865	1748	1657	1644	1705	1841
75.0	1905	1839	1748	1647	1543	1428	1331	1320	1379	1518
77.5	1514	1472	1418	1322	1229	1126	1027	1003	1064	1206
80.0	1153	1110	1067	1007	927	843	745	711	782	912
82.5	860	802	742	691	639	572	494	454	524	639
85.0	536	489	442	394	358	324	278	244	294	378
87.5	173	164	153	132	123	116	108	93	113	160
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	10442	10442	10442	10442	10442	10442	10442
2.5	10408	10408	10408	10405	10405	10405	10403
5.0	10385	10383	10376	10368	10380	10390	10398
7.5	10321	10324	10326	10321	10321	10348	10351
10.0	10228	10237	10243	10243	10246	10257	10277
12.5	10107	10120	10127	10132	10132	10134	10174
15.0	9958	9972	9984	9990	9995	9990	10032
17.5	9781	9798	9813	9818	9820	9815	9845
20.0	9576	9594	9612	9619	9619	9614	9633
22.5	9341	9363	9380	9387	9390	9385	9390
25.0	9077	9102	9122	9129	9134	9129	9127
27.5	8790	8815	8837	8847	8854	8854	8844
30.0	8476	8505	8532	8548	8559	8564	8552
32.5	8142	8176	8206	8230	8252	8259	8243
35.0	7793	7830	7869	7903	7930	7945	7926
37.5	7420	7466	7513	7562	7601	7628	7603
40.0	7035	7090	7151	7215	7267	7304	7281
42.5	6636	6707	6787	6861	6925	6974	6950
45.0	6230	6313	6409	6502	6579	6633	6606
47.5	5820	5923	6030	6141	6228	6283	6254
50.0	5412	5527	5647	5775	5871	5932	5893
52.5	5009	5136	5274	5404	5508	5571	5535
55.0	4605	4745	4895	5032	5139	5203	5161
57.5	4207	4360	4522	4662	4770	4829	4783
60.0	3817	3979	4148	4289	4399	4455	4403
62.5	3436	3608	3774	3922	4025	4075	4023
65.0	3065	3236	3409	3551	3647	3701	3647
67.5	2703	2878	3042	3180	3279	3334	3275
70.0	2347	2521	2678	2816	2919	2974	2910
72.5	2005	2167	2318	2455	2551	2614	2551
75.0	1676	1830	1971	2101	2202	2258	2185
77.5	1356	1497	1629	1748	1826	1860	1775
80.0	1049	1172	1283	1363	1423	1454	1381
82.5	750	850	929	1005	1067	1116	1064
85.0	462	533	617	695	774	830	762
87.5	196	246	319	374	433	492	390
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	3775.92	N.A.	13.80
0-30	7916.85	N.A.	29.00
0-40	12749.08	N.A.	46.60
0-60	21778.57	N.A.	79.70
0-80	26787.9	N.A.	98.00
0-90	27342.59	N.A.	100.00
10-90	26358.69	N.A.	96.40
20-40	8973.16	N.A.	32.80
20-50	13798.3	N.A.	50.50
40-70	12178.77	N.A.	44.50
60-80	5009.33	N.A.	18.30
70-80	1860.06	N.A.	6.80
80-90	554.69	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	27342.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	983.90
10-20	2792.03
20-30	4140.93
30-40	4832.23
40-50	4825.14
50-60	4204.36
60-70	3149.27
70-80	1860.06
80-90	554.69
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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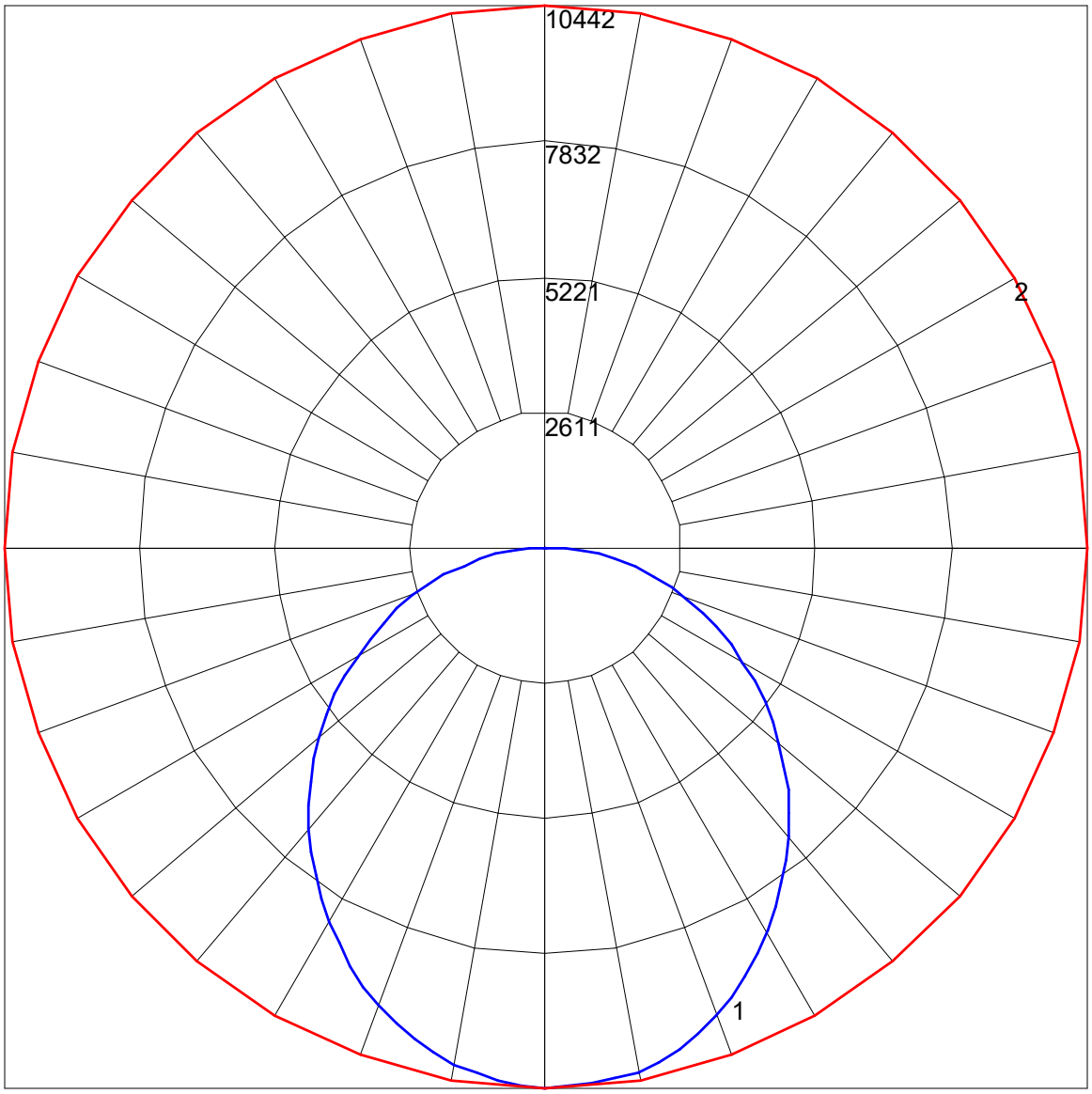
POLAR GRAPH



Maximum Candela = 10442 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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