IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-48L-DPW-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3913
[TESTLAB] TUV SUD America
[TESTDATE] 7/20/2020 8:23:12 AM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-02-LED-48L-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	43011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	324
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.28 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	58526	56571	55012
55	56130	52518	48772
65	53772	48596	41861
75	52204	44679	33211
85	52391	36179	18521

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	16264	16264	16264	16264	16264	16264	16264	16264	16264	16264
2.5	16218	16228	16237	16252	16265	16252	16233	16240	16275	16312
5.0	16099	16120	16152	16188	16227	16195	16158	16178	16230	16286
7.5	15991	16013	16050	16078	16124	16090	16048	16065	16120	16174
10.0	15837	15859	15893	15922	15967	15937	15891	15903	15960	16019
12.5	15635	15657	15688	15715	15758	15730	15686	15696	15750	15811
15.0	15408	15416	15448	15462	15509	15485	15440	15443	15499	15560
17.5	15172	15174	15209	15219	15263	15253	15214	15221	15285	15329
20.0	14864	14908	14928	14963	15002	14985	14941	14941	14989	15041
22.5	14498	14546	14559	14584	14623	14606	14561	14562	14603	14664
25.0	14098	14133	14145	14158	14195	14184	14135	14133	14175	14232
27.5	13660	13687	13688	13702	13729	13722	13671	13671	13707	13759
30.0	13205	13220	13208	13225	13234	13229	13173	13175	13205	13247
32.5	12748	12743	12723	12733	12723	12706	12642	12642	12671	12698
35.0	12262	12270	12231	12221	12193	12149	12078	12076	12095	12117
37.5	11765	11772	11713	11684	11630	11568	11490	11482	11490	11509
40.0	11263	11244	11169	11130	11056	10972	10887	10870	10874	10876
42.5	10731	10699	10631	10572	10481	10370	10269	10237	10229	10225
45.0	10178	10165	10097	10001	9909	9767	9643	9590	9567	9567
47.5	9643	9622	9540	9430	9314	9147	8999	8925	8902	8895
50.0	9097	9060	8972	8851	8710	8524	8352	8263	8235	8218
52.5	8514	8482	8393	8256	8107	7911	7719	7608	7576	7546
55.0	7918	7891	7817	7677	7509	7308	7098	6954	6911	6880
57.5	7335	7317	7239	7108	6921	6707	6485	6318	6247	6220
60.0	6764	6744	6670	6532	6331	6107	5873	5693	5610	5577
62.5	6183	6159	6085	5941	5743	5516	5275	5088	4986	4955
65.0	5589	5562	5491	5339	5164	4938	4691	4499	4376	4351
67.5	4999	4975	4915	4763	4596	4383	4127	3929	3788	3759
70.0	4435	4411	4347	4201	4036	3832	3586	3375	3217	3190
72.5	3891	3874	3800	3648	3488	3288	3055	2845	2668	2644
75.0	3323	3326	3259	3111	2939	2749	2540	2331	2149	2114
77.5	2692	2703	2656	2540	2398	2227	2038	1843	1657	1607
80.0	2089	2097	2021	1937	1841	1713	1550	1381	1211	1142
82.5	1593	1580	1501	1403	1295	1204	1080	947	807	733
85.0	1123	1103	1021	918	825	726	630	549	458	397
87.5	576	551	483	413	359	285	243	212	179	155
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	16264	16264	16264	16264	16264	16264	16264	16264	16264	16264
2.5	16291	16228	16208	16255	16299	16297	16257	16228	16159	16178
5.0	16245	16163	16132	16183	16243	16227	16191	16164	16099	16110
7.5	16129	16046	16018	16070	16134	16115	16073	16060	15996	16008
10.0	15962	15883	15856	15910	15972	15954	15922	15898	15839	15858
12.5	15760	15677	15652	15713	15775	15750	15715	15699	15634	15656
15.0	15514	15432	15410	15470	15529	15502	15470	15453	15413	15403
17.5	15302	15229	15221	15295	15297	15250	15196	15263	15189	15189
20.0	14990	14918	14904	14977	15017	14977	14963	14935	14882	14893
22.5	14596	14530	14522	14596	14635	14603	14589	14561	14504	14510
25.0	14167	14106	14099	14175	14207	14165	14167	14140	14082	14094
27.5	13697	13643	13636	13698	13741	13695	13707	13687	13636	13653
30.0	13185	13144	13139	13207	13259	13213	13230	13218	13181	13207
32.5	12641	12610	12617	12686	12752	12723	12748	12757	12718	12738
35.0	12070	12048	12058	12137	12216	12213	12250	12287	12253	12238
37.5	11475	11462	11465	11558	11645	11669	11726	11778	11751	11726
40.0	10849	10849	10854	10961	11059	11105	11182	11241	11217	11212
42.5	10198	10210	10235	10362	10483	10542	10631	10700	10677	10680
45.0	9531	9555	9599	9750	9914	9993	10092	10160	10153	10146
47.5	8871	8891	8962	9141	9326	9434	9538	9616	9617	9609
50.0	8199	8235	8322	8523	8710	8841	8955	9051	9063	9041
52.5	7537	7581	7687	7903	8110	8236	8368	8462	8480	8457
55.0	6875	6939	7069	7295	7517	7665	7798	7872	7881	7859
57.5	6222	6299	6461	6704	6924	7091	7209	7310	7285	7278
60.0	5585	5683	5848	6097	6338	6513	6646	6741	6709	6704
62.5	4959	5088	5263	5513	5743	5929	6060	6153	6143	6131
65.0	4356	4495	4679	4943	5161	5324	5467	5555	5568	5550
67.5	3766	3919	4115	4383	4595	4750	4888	4977	4987	4955
70.0	3207	3369	3577	3844	4046	4192	4339	4421	4401	4369
72.5	2663	2843	3049	3278	3507	3641	3791	3881	3854	3827
75.0	2146	2338	2538	2756	2961	3113	3266	3350	3338	3298
77.5	1656	1853	2031	2232	2439	2567	2681	2729	2752	2712
80.0	1211	1400	1550	1740	1903	1961	2057	2127	2161	2132

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CANDELA TABULATION - (Cont.)

82.5	815	968	1100	1245	1363	1432	1546	1627	1659	1627
85.0	465	566	657	776	896	962	1063	1160	1128	1081
87.5	179	214	239	317	397	443	527	610	556	494
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	16264	16264	16264	16264	16264	16264	16264	16264	16264	16264
2.5	16208	16248	16287	16259	16227	16238	16296	16346	16304	16223
5.0	16151	16186	16223	16198	16166	16176	16233	16282	16240	16161
7.5	16045	16078	16117	16090	16058	16072	16127	16173	16131	16051
10.0	15891	15925	15960	15933	15901	15913	15967	16014	15972	15898
12.5	15693	15726	15758	15733	15703	15708	15760	15805	15767	15694
15.0	15442	15480	15512	15491	15474	15462	15516	15558	15516	15459
17.5	15223	15258	15290	15267	15245	15223	15277	15310	15253	15246
20.0	14925	14963	14997	14987	14958	14953	14999	15037	14999	14938
22.5	14542	14576	14613	14611	14578	14569	14606	14648	14613	14556
25.0	14125	14155	14197	14190	14153	14150	14178	14212	14172	14128
27.5	13678	13709	13735	13729	13690	13693	13709	13734	13695	13656

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CANDELA TABULATION - (Cont.)

30.0	13205	13232	13242	13234	13197	13193	13203	13220	13186	13153
32.5	12716	12730	12725	12698	12669	12659	12659	12674	12647	12619
35.0	12213	12209	12183	12137	12108	12095	12088	12093	12078	12061
37.5	11696	11684	11627	11569	11527	11507	11497	11484	11473	11475
40.0	11169	11140	11054	10978	10926	10897	10877	10840	10842	10869
42.5	10626	10576	10465	10375	10296	10256	10232	10190	10200	10230
45.0	10081	9998	9877	9764	9659	9599	9579	9531	9542	9580
47.5	9525	9420	9286	9151	9023	8944	8908	8861	8861	8918
50.0	8955	8838	8688	8528	8384	8285	8238	8184	8194	8256
52.5	8373	8250	8093	7911	7751	7628	7569	7514	7531	7608
55.0	7778	7660	7493	7293	7116	6980	6899	6848	6872	6956
57.5	7199	7071	6894	6678	6496	6340	6245	6180	6220	6319
60.0	6628	6493	6298	6084	5890	5711	5604	5536	5580	5701
62.5	6058	5920	5718	5499	5289	5103	4984	4913	4962	5098
65.0	5476	5346	5152	4932	4704	4509	4374	4308	4354	4504
67.5	4893	4763	4586	4374	4140	3931	3778	3726	3769	3946
70.0	4320	4189	4024	3817	3593	3382	3217	3158	3209	3389
72.5	3763	3623	3471	3271	3072	2855	2665	2609	2658	2852
75.0	3232	3092	2927	2745	2558	2346	2147	2083	2147	2351
77.5	2649	2552	2414	2228	2055	1863	1661	1583	1664	1866
80.0	2058	1977	1875	1728	1571	1401	1206	1110	1208	1403
82.5	1539	1448	1334	1228	1107	963	805	707	810	968
85.0	1011	938	830	741	665	568	460	379	463	566
87.5	456	429	350	291	268	231	184	145	182	227
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	16264	16264	16264	16264	16264	16264	16264
2.5	16203	16243	16296	16292	16248	16225	16218
5.0	16141	16181	16232	16233	16184	16161	16099
7.5	16046	16075	16131	16131	16083	16056	15991
10.0	15891	15928	15976	15981	15933	15905	15837
12.5	15693	15728	15770	15777	15725	15696	15635
15.0	15455	15487	15519	15524	15472	15443	15408
17.5	15206	15278	15273	15287	15255	15245	15172
20.0	14950	14973	14994	15007	14953	14928	14864
22.5	14581	14594	14623	14623	14578	14544	14498
25.0	14155	14167	14195	14199	14158	14126	14098
27.5	13683	13703	13725	13730	13705	13673	13660
30.0	13191	13198	13223	13220	13217	13207	13205
32.5	12664	12686	12713	12727	12752	12738	12748
35.0	12108	12144	12166	12225	12267	12263	12262
37.5	11529	11576	11612	11692	11755	11763	11765
40.0	10929	10988	11047	11142	11217	11229	11263
42.5	10296	10380	10453	10579	10658	10684	10731
45.0	9659	9766	9848	10010	10104	10151	10178
47.5	9033	9146	9265	9429	9560	9606	9643
50.0	8396	8533	8688	8875	9003	9050	9097
52.5	7758	7923	8090	8293	8430	8472	8514
55.0	7135	7315	7478	7702	7824	7866	7918
57.5	6522	6698	6879	7101	7224	7263	7335
60.0	5907	6106	6282	6510	6648	6698	6764
62.5	5317	5533	5708	5956	6072	6119	6183
65.0	4741	4952	5146	5391	5519	5551	5589
67.5	4175	4401	4590	4820	4940	4979	4999
70.0	3621	3842	4012	4228	4345	4377	4435
72.5	3096	3288	3453	3653	3775	3808	3891
75.0	2580	2756	2907	3116	3244	3271	3323
77.5	2075	2233	2390	2584	2660	2646	2692
80.0	1592	1745	1848	1994	2060	2077	2089
82.5	1123	1243	1322	1464	1545	1587	1593
85.0	675	758	840	990	1046	1083	1123
87.5	264	305	349	443	497	520	576
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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IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5908.45	N.A.	13.70
0-30	12424.49	N.A.	28.90
0-40	20027.98	N.A.	46.60
0-60	34227.85	N.A.	79.60
0-80	42128.14	N.A.	97.90
0-90	43011.17	N.A.	100.00
10-90	41474.36	N.A.	96.40
20-40	14119.54	N.A.	32.80
20-50	21708.45	N.A.	50.50
40-70	19157.81	N.A.	44.50
60-80	7900.29	N.A.	18.40
70-80	2942.34	N.A.	6.80
80-90	883.03	N.A.	2.10
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	43011.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1536.8
10-20	4371.64
20-30	6516.04
30-40	7603.5
40-50	7588.91
50-60	6610.95
60-70	4957.95
70-80	2942.34
80-90	883.03
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	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	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	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	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	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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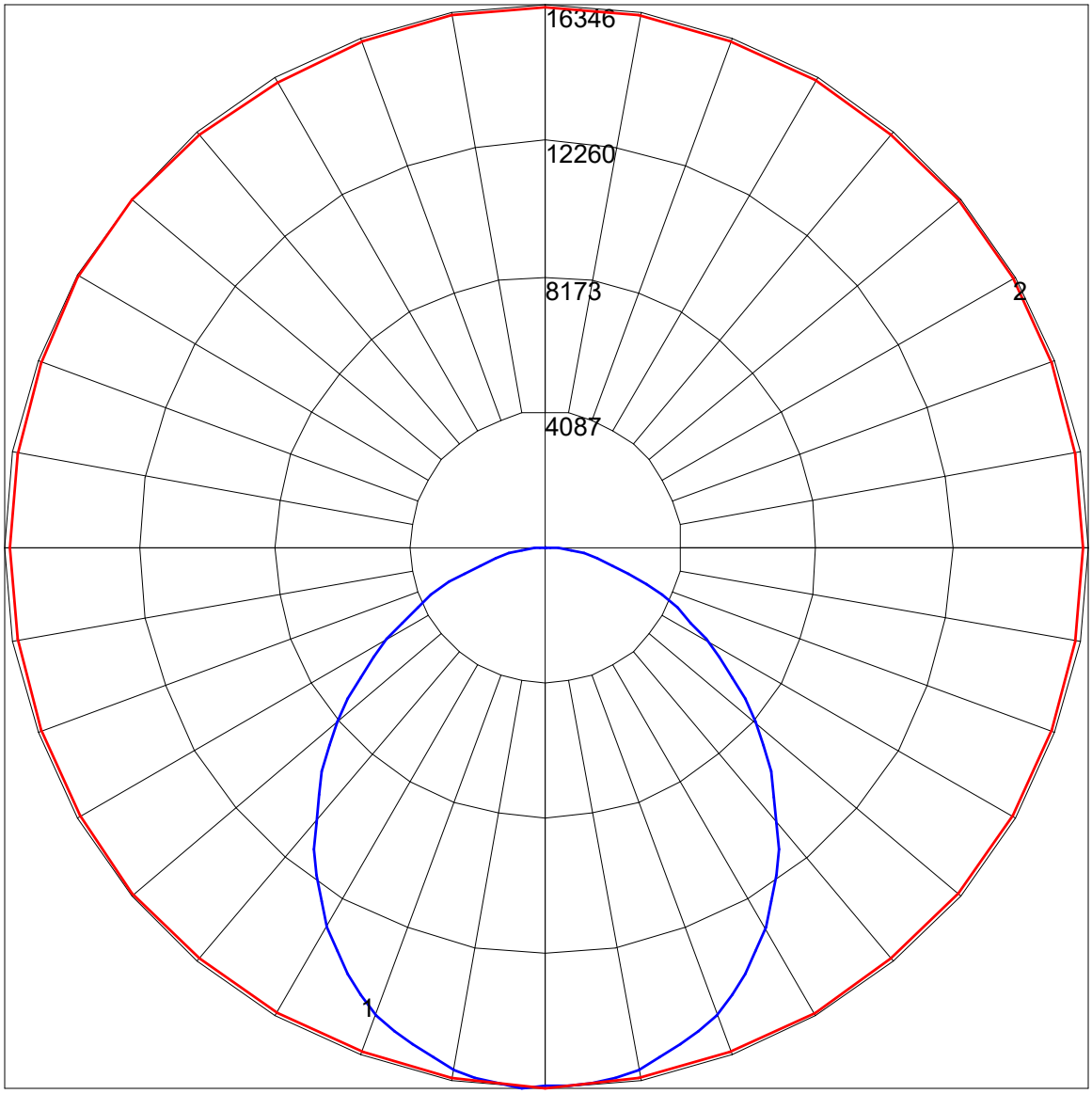
POLAR GRAPH



Maximum Candela = 16346 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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