IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-90L-DPW-50-80CRI.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-03-LED-90L-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	81537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	559
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)	3.42 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	73967	71495	69520
55	70936	66376	61645
65	67944	61427	52903
75	65992	56451	41966
85	66215	45766	23482

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	30832	30832	30832	30832	30832	30832	30832	30832	30832	30832
2.5	30745	30764	30781	30808	30833	30809	30774	30786	30854	30923
5.0	30519	30561	30618	30688	30760	30701	30629	30667	30769	30874
7.5	30314	30357	30425	30478	30566	30504	30422	30455	30560	30662
10.0	30025	30065	30127	30185	30271	30212	30125	30146	30256	30369
12.5	29641	29682	29738	29791	29873	29820	29734	29754	29856	29974
15.0	29208	29224	29287	29311	29401	29356	29270	29276	29383	29497
17.5	28760	28765	28832	28850	28934	28913	28841	28854	28974	29061
20.0	28179	28263	28299	28366	28439	28406	28324	28326	28415	28513
22.5	27484	27572	27599	27646	27722	27690	27601	27607	27684	27797
25.0	26725	26792	26816	26839	26910	26890	26794	26790	26871	26981
27.5	25895	25945	25948	25974	26027	26013	25917	25916	25985	26083
30.0	25033	25062	25040	25071	25088	25077	24972	24975	25033	25113
32.5	24166	24157	24120	24141	24121	24086	23967	23966	24018	24071
35.0	23246	23262	23186	23168	23112	23029	22898	22893	22927	22970
37.5	22303	22316	22204	22150	22048	21928	21782	21767	21782	21816
40.0	21351	21316	21174	21098	20960	20799	20639	20606	20613	20616
42.5	20342	20281	20155	20043	19870	19658	19469	19406	19392	19384
45.0	19295	19269	19143	18960	18783	18517	18280	18182	18135	18135
47.5	18281	18240	18086	17877	17657	17340	17059	16919	16875	16863
50.0	17245	17177	17009	16778	16510	16161	15833	15664	15610	15580
52.5	16140	16078	15909	15653	15368	14998	14634	14421	14361	14304
55.0	15010	14957	14818	14555	14235	13855	13457	13184	13101	13044
57.5	13905	13870	13725	13473	13118	12714	12292	11976	11844	11792
60.0	12825	12785	12644	12383	12002	11578	11135	10794	10635	10573
62.5	11723	11676	11537	11262	10887	10457	10000	9645	9452	9395
65.0	10593	10546	10407	10122	9791	9363	8891	8530	8295	8248
67.5	9476	9432	9317	9029	8711	8307	7824	7449	7182	7128
70.0	8406	8363	8242	7963	7652	7265	6800	6397	6099	6048
72.5	7375	7342	7204	6918	6614	6233	5792	5394	5058	5012
75.0	6301	6305	6177	5899	5570	5210	4816	4421	4073	4007
77.5	5102	5125	5034	4816	4546	4222	3863	3495	3142	3046
80.0	3960	3976	3831	3670	3491	3249	2937	2619	2295	2164
82.5	3019	2995	2844	2659	2456	2284	2048	1796	1531	1390
85.0	2129	2090	1936	1741	1565	1378	1195	1042	868	755
87.5	1092	1045	917	783	680	540	461	404	338	295
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	30832	30832	30832	30832	30832	30832	30832	30832	30832	30832
2.5	30881	30766	30724	30816	30898	30897	30820	30764	30635	30669
5.0	30794	30638	30584	30677	30793	30759	30693	30644	30519	30542
7.5	30577	30419	30365	30465	30584	30551	30471	30443	30322	30346
10.0	30261	30111	30058	30162	30277	30245	30185	30138	30025	30061
12.5	29875	29722	29673	29788	29906	29857	29789	29761	29638	29677
15.0	29408	29253	29213	29326	29440	29389	29327	29295	29219	29200
17.5	29007	28872	28855	28995	28998	28910	28806	28934	28793	28794
20.0	28417	28280	28253	28392	28468	28390	28367	28314	28213	28231
22.5	27669	27547	27528	27669	27745	27684	27656	27603	27495	27509
25.0	26855	26739	26727	26871	26933	26854	26856	26805	26698	26717
27.5	25963	25863	25850	25970	26047	25961	25985	25946	25850	25882
30.0	24995	24916	24909	25037	25134	25049	25081	25057	24989	25036
32.5	23963	23904	23918	24050	24172	24120	24166	24183	24111	24148
35.0	22882	22837	22857	23011	23160	23151	23224	23292	23230	23201
37.5	21754	21727	21736	21911	22077	22119	22230	22328	22278	22230
40.0	20567	20567	20574	20780	20965	21051	21197	21311	21265	21254
42.5	19332	19356	19404	19643	19873	19984	20154	20284	20240	20246
45.0	18068	18113	18198	18483	18794	18944	19132	19260	19246	19234
47.5	16818	16856	16988	17328	17678	17886	18084	18230	18232	18216
50.0	15543	15611	15777	16155	16510	16757	16976	17160	17181	17139
52.5	14288	14373	14575	14981	15372	15614	15861	16042	16077	16030
55.0	13034	13156	13401	13830	14250	14532	14781	14925	14940	14897
57.5	11793	11941	12250	12710	13128	13441	13665	13858	13811	13795
60.0	10589	10772	11086	11559	12014	12347	12600	12778	12717	12708
62.5	9399	9645	9977	10451	10889	11239	11490	11665	11644	11621
65.0	8258	8523	8869	9369	9781	10093	10365	10530	10555	10522
67.5	7139	7429	7799	8310	8710	9003	9265	9435	9455	9395
70.0	6079	6386	6784	7285	7667	7946	8225	8381	8343	8284
72.5	5047	5389	5778	6215	6647	6903	7190	7357	7304	7253
75.0	4068	4431	4812	5223	5613	5901	6190	6350	6329	6251
77.5	3138	3515	3850	4230	4626	4868	5084	5174	5216	5141
80.0	2295	2653	2937	3300	3608	3717	3900	4034	4095	4042

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CANDELA TABULATION - (Cont.)

82.5	1546	1836	2085	2360	2583	2716	2933	3084	3145	3082
85.0	882	1072	1245	1470	1697	1822	2014	2201	2138	2049
87.5	338	407	454	599	754	841	998	1154	1054	934
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	30832	30832	30832	30832	30832	30832	30832	30832	30832	30832
2.5	30726	30803	30876	30821	30762	30782	30892	30989	30909	30756
5.0	30616	30684	30754	30707	30646	30665	30775	30866	30785	30636
7.5	30415	30481	30552	30503	30441	30465	30573	30660	30579	30430
10.0	30126	30190	30257	30205	30145	30166	30271	30359	30280	30138
12.5	29748	29813	29874	29824	29767	29778	29876	29960	29889	29751
15.0	29273	29346	29406	29366	29335	29311	29414	29493	29412	29304
17.5	28856	28925	28984	28940	28900	28857	28960	29024	28915	28902
20.0	28293	28365	28428	28411	28354	28348	28433	28506	28434	28319
22.5	27569	27631	27700	27699	27637	27621	27690	27769	27701	27594
25.0	26775	26835	26913	26903	26829	26824	26878	26942	26866	26781
27.5	25931	25985	26039	26025	25954	25960	25985	26036	25963	25888

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CANDELA TABULATION - (Cont.)

30.0	25034	25083	25104	25086	25017	25011	25029	25062	24997	24935
32.5	24108	24134	24122	24073	24016	23998	23998	24027	23977	23921
35.0	23151	23147	23094	23009	22954	22928	22916	22924	22898	22865
37.5	22172	22150	22041	21933	21851	21813	21795	21771	21750	21755
40.0	21171	21120	20955	20813	20712	20659	20619	20548	20551	20602
42.5	20143	20049	19839	19668	19520	19442	19398	19318	19336	19393
45.0	19110	18956	18724	18508	18310	18197	18158	18069	18088	18162
47.5	18055	17858	17601	17347	17104	16954	16889	16799	16798	16906
50.0	16976	16752	16469	16168	15896	15705	15617	15515	15534	15653
52.5	15872	15640	15341	14999	14692	14463	14348	14244	14275	14423
55.0	14745	14521	14205	13827	13491	13231	13079	12983	13027	13185
57.5	13646	13403	13068	12661	12318	12016	11839	11716	11792	11980
60.0	12565	12308	11937	11531	11164	10827	10622	10496	10578	10807
62.5	11483	11223	10839	10425	10026	9675	9447	9314	9407	9667
65.0	10382	10136	9768	9348	8919	8549	8292	8168	8254	8539
67.5	9277	9030	8696	8293	7848	7452	7162	7064	7144	7481
70.0	8190	7940	7626	7235	6810	6409	6098	5985	6081	6424
72.5	7132	6869	6581	6200	5821	5411	5052	4948	5038	5405
75.0	6128	5861	5551	5203	4848	4448	4071	3948	4071	4458
77.5	5023	4836	4575	4225	3896	3531	3149	3003	3154	3540
80.0	3904	3748	3553	3276	2979	2657	2287	2106	2289	2659
82.5	2919	2746	2530	2330	2098	1826	1526	1341	1537	1837
85.0	1915	1779	1573	1406	1260	1075	873	719	878	1072
87.5	866	815	664	552	507	438	349	276	345	432
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	30832	30832	30832	30832	30832	30832	30832
2.5	30718	30794	30890	30885	30803	30757	30745
5.0	30600	30674	30771	30774	30680	30635	30519
7.5	30420	30472	30580	30580	30488	30437	30314
10.0	30125	30195	30285	30294	30204	30150	30025
12.5	29748	29815	29896	29908	29808	29756	29641
15.0	29300	29361	29419	29429	29329	29275	29208
17.5	28825	28962	28955	28979	28918	28900	28760
20.0	28342	28384	28425	28448	28347	28298	28179
22.5	27642	27666	27721	27722	27634	27572	27484
25.0	26833	26856	26911	26916	26839	26779	26725
27.5	25940	25978	26018	26029	25980	25920	25895
30.0	25008	25017	25067	25061	25055	25036	25033
32.5	24008	24050	24099	24126	24172	24147	24166
35.0	22953	23023	23062	23173	23254	23248	23246
37.5	21854	21946	22012	22167	22283	22301	22303
40.0	20720	20832	20942	21121	21266	21288	21351
42.5	19520	19677	19814	20055	20203	20253	20342
45.0	18309	18511	18668	18975	19153	19245	19295
47.5	17123	17336	17567	17875	18124	18209	18281
50.0	15918	16176	16469	16823	17067	17156	17245
52.5	14707	15020	15334	15724	15980	16060	16140
55.0	13525	13868	14176	14601	14830	14909	15010
57.5	12363	12697	13040	13461	13694	13767	13905
60.0	11200	11574	11910	12341	12601	12697	12825
62.5	10081	10488	10820	11290	11510	11599	11723
65.0	8990	9389	9754	10220	10465	10524	10593
67.5	7917	8343	8701	9138	9366	9436	9476
70.0	6864	7282	7605	8014	8237	8297	8406
72.5	5868	6232	6544	6926	7154	7220	7375
75.0	4892	5223	5512	5906	6149	6201	6301
77.5	3934	4235	4531	4898	5042	5015	5102
80.0	3016	3307	3503	3779	3906	3939	3960
82.5	2131	2358	2507	2776	2927	3008	3019
85.0	1281	1437	1595	1876	1984	2055	2129
87.5	501	576	660	840	943	987	1092
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	11200.68	N.A.	13.70
0-30	23553.19	N.A.	28.90
0-40	37967.27	N.A.	46.60
0-60	64886.05	N.A.	79.60
0-80	79862.73	N.A.	97.90
0-90	81536.9	N.A.	100.00
10-90	78623.56	N.A.	96.40
20-40	26766.6	N.A.	32.80
20-50	41152.99	N.A.	50.50
40-70	36317.69	N.A.	44.50
60-80	14976.67	N.A.	18.40
70-80	5577.76	N.A.	6.80
80-90	1674.18	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	81536.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2913.34
10-20	8287.34
20-30	12352.51
30-40	14414.09
40-50	14386.39
50-60	12532.39
60-70	9398.91
70-80	5577.76
80-90	1674.18
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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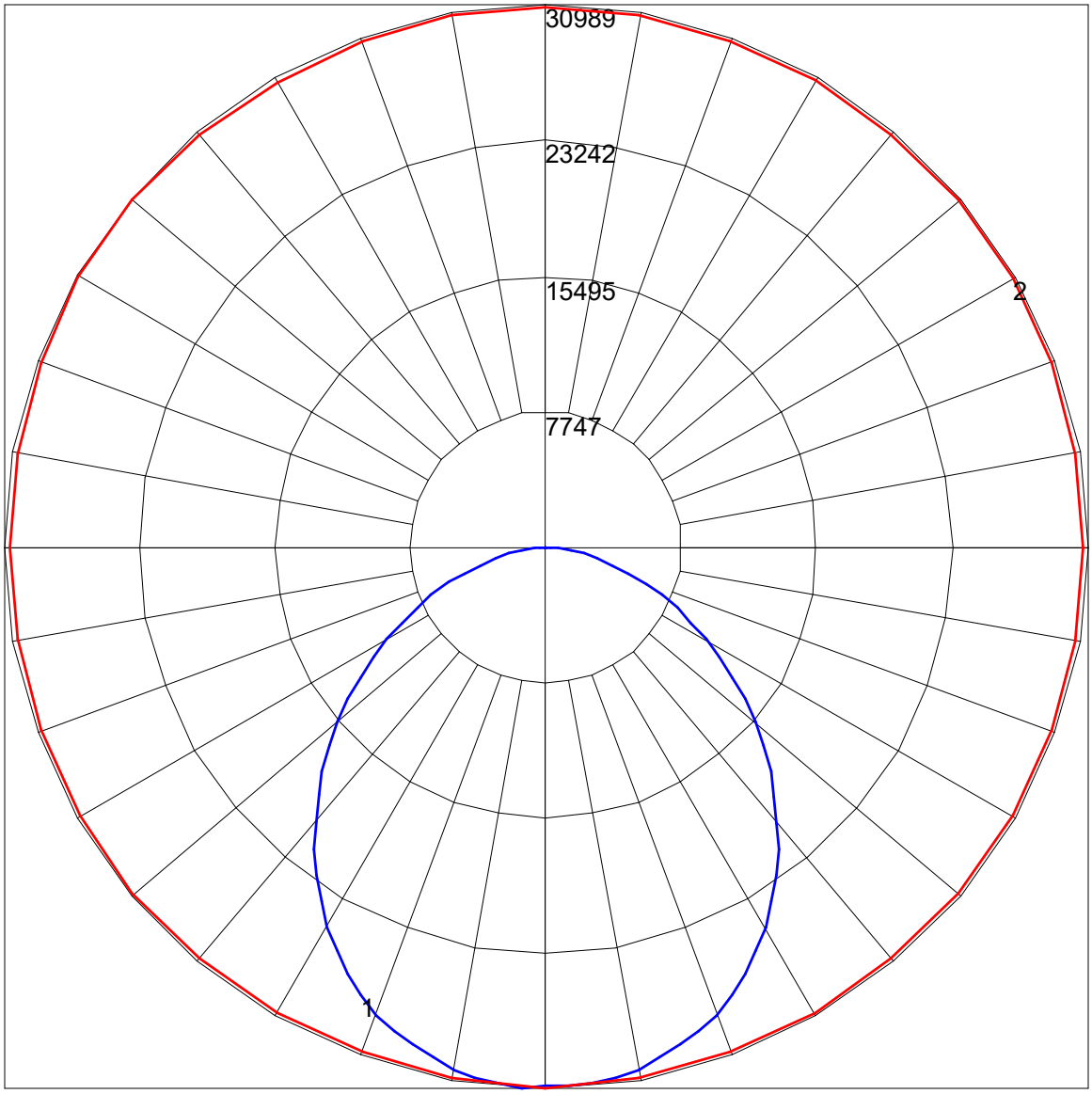
POLAR GRAPH



Maximum Candela = 30989 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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