IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-60L-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-02-LED-60L-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	54686
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	367
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	74414	71927	69946
55	71371	66774	62007
65	68358	61791	53224
75	66374	56807	42228
85	66666	45999	23559

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	20679	20679	20679	20679	20679	20679	20679	20679	20679	20679
2.5	20621	20633	20643	20663	20681	20663	20639	20649	20693	20741
5.0	20468	20496	20537	20581	20631	20591	20543	20569	20635	20706
7.5	20332	20359	20406	20443	20501	20458	20404	20426	20496	20565
10.0	20136	20164	20207	20244	20302	20262	20204	20220	20292	20368
12.5	19879	19907	19946	19980	20036	19999	19944	19957	20025	20102
15.0	19590	19601	19641	19659	19719	19689	19631	19635	19706	19783
17.5	19290	19292	19338	19350	19406	19394	19344	19352	19434	19490
20.0	18899	18955	18980	19025	19074	19053	18997	18997	19057	19124
22.5	18434	18494	18511	18543	18592	18571	18513	18515	18567	18644
25.0	17925	17969	17985	18001	18049	18033	17971	17969	18023	18095
27.5	17368	17402	17404	17421	17456	17446	17382	17382	17428	17494
30.0	16789	16809	16793	16815	16826	16819	16748	16751	16789	16843
32.5	16209	16203	16177	16189	16177	16155	16073	16073	16111	16145
35.0	15590	15600	15552	15538	15502	15446	15357	15355	15378	15406
37.5	14958	14967	14892	14856	14787	14708	14609	14598	14609	14632
40.0	14320	14297	14201	14151	14057	13950	13842	13822	13826	13828
42.5	13644	13603	13517	13442	13327	13185	13057	13016	13005	13001
45.0	12941	12924	12838	12716	12598	12419	12260	12194	12164	12164
47.5	12260	12234	12129	11990	11842	11631	11442	11348	11318	11309
50.0	11567	11519	11407	11254	11074	10838	10619	10506	10469	10449
52.5	10825	10785	10671	10497	10307	10058	9815	9673	9633	9593
55.0	10068	10032	9938	9761	9547	9292	9024	8842	8787	8747
57.5	9326	9302	9204	9037	8799	8527	8244	8033	7943	7909
60.0	8600	8575	8480	8304	8050	7765	7468	7238	7133	7091
62.5	7861	7831	7737	7553	7302	7013	6707	6470	6338	6300
65.0	7105	7071	6981	6789	6566	6279	5965	5720	5564	5532
67.5	6356	6326	6249	6056	5844	5572	5247	4996	4816	4780
70.0	5638	5608	5528	5341	5131	4872	4560	4291	4091	4056
72.5	4947	4925	4831	4638	4435	4181	3885	3617	3392	3362
75.0	4225	4229	4143	3955	3737	3495	3229	2964	2732	2688
77.5	3422	3437	3377	3229	3049	2831	2591	2343	2107	2043
80.0	2656	2666	2570	2463	2341	2178	1970	1756	1540	1452
82.5	2026	2009	1908	1784	1647	1531	1373	1203	1026	932
85.0	1429	1403	1297	1167	1050	922	801	698	583	505
87.5	732	700	615	525	457	362	309	270	227	197
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	20679	20679	20679	20679	20679	20679	20679	20679	20679	20679
2.5	20713	20633	20607	20667	20723	20721	20669	20633	20545	20569
5.0	20655	20549	20511	20575	20653	20631	20586	20552	20468	20483
7.5	20507	20402	20366	20432	20513	20490	20436	20419	20338	20352
10.0	20294	20194	20160	20228	20308	20284	20244	20214	20138	20162
12.5	20038	19933	19901	19978	20057	20025	19980	19961	19877	19905
15.0	19725	19620	19593	19669	19745	19711	19669	19648	19597	19584
17.5	19456	19364	19352	19447	19449	19389	19320	19406	19312	19312
20.0	19059	18967	18950	19042	19093	19042	19025	18989	18922	18935
22.5	18558	18474	18464	18558	18607	18567	18550	18513	18440	18449
25.0	18012	17935	17927	18023	18063	18010	18012	17977	17905	17919
27.5	17414	17346	17338	17416	17470	17412	17428	17402	17338	17359
30.0	16764	16712	16706	16791	16858	16800	16821	16806	16759	16791
32.5	16071	16033	16041	16129	16213	16177	16209	16219	16171	16196
35.0	15346	15318	15331	15432	15532	15528	15575	15622	15580	15560
37.5	14590	14573	14577	14694	14806	14836	14909	14975	14941	14909
40.0	13794	13794	13800	13937	14061	14119	14217	14293	14263	14255
42.5	12966	12982	13014	13175	13329	13403	13517	13605	13575	13579
45.0	12119	12149	12204	12397	12605	12706	12832	12918	12908	12900
47.5	11279	11305	11395	11622	11858	11994	12127	12226	12228	12217
50.0	10425	10469	10581	10836	11074	11241	11387	11509	11523	11495
52.5	9583	9639	9773	10048	10311	10472	10639	10759	10782	10752
55.0	8741	8823	8988	9274	9557	9746	9915	10010	10020	9992
57.5	7911	8009	8214	8523	8803	9016	9166	9294	9262	9254
60.0	7101	7226	7436	7753	8058	8282	8450	8570	8529	8523
62.5	6304	6470	6692	7009	7302	7538	7705	7823	7809	7795
65.0	5538	5716	5949	6285	6562	6769	6951	7063	7080	7056
67.5	4788	4983	5232	5572	5842	6039	6215	6328	6341	6300
70.0	4077	4283	4548	4887	5144	5330	5516	5622	5596	5555
72.5	3386	3614	3876	4167	4458	4630	4820	4934	4900	4865
75.0	2728	2972	3227	3504	3764	3957	4153	4259	4245	4193
77.5	2105	2355	2583	2838	3101	3263	3409	3469	3499	3448
80.0	1540	1780	1970	2212	2420	2493	2615	2704	2748	2712

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CANDELA TABULATION - (Cont.)

82.5	1036	1231	1399	1583	1732	1820	1966	2069	2109	2069
85.0	591	720	835	988	1139	1223	1351	1475	1435	1375
87.5	227	272	304	403	505	563	670	775	707	627
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	20679	20679	20679	20679	20679	20679	20679	20679	20679	20679
2.5	20607	20659	20709	20671	20631	20646	20719	20783	20729	20627
5.0	20535	20579	20627	20595	20554	20567	20639	20701	20649	20547
7.5	20400	20443	20492	20458	20417	20434	20505	20563	20509	20408
10.0	20204	20248	20292	20258	20218	20232	20302	20361	20308	20214
12.5	19952	19995	20036	20004	19965	19971	20038	20096	20046	19954
15.0	19633	19683	19723	19695	19673	19659	19727	19781	19727	19655
17.5	19354	19400	19440	19410	19382	19354	19424	19466	19394	19384
20.0	18975	19025	19068	19055	19019	19012	19070	19119	19070	18993
22.5	18490	18532	18580	18577	18534	18524	18571	18624	18580	18506
25.0	17959	17997	18051	18042	17995	17991	18027	18070	18019	17963
27.5	17391	17430	17464	17456	17406	17410	17430	17462	17412	17363

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CANDELA TABULATION - (Cont.)

30.0	16789	16823	16836	16826	16779	16774	16787	16809	16766	16723
32.5	16169	16185	16179	16145	16109	16095	16095	16115	16081	16044
35.0	15528	15524	15490	15432	15395	15378	15369	15376	15357	15335
37.5	14870	14856	14782	14710	14656	14630	14618	14600	14588	14590
40.0	14201	14163	14055	13958	13892	13856	13830	13782	13784	13819
42.5	13511	13447	13305	13191	13091	13040	13010	12956	12969	13008
45.0	12816	12712	12557	12415	12281	12204	12179	12119	12132	12181
47.5	12110	11978	11806	11635	11471	11371	11326	11266	11266	11339
50.0	11387	11236	11046	10842	10661	10534	10474	10405	10418	10497
52.5	10645	10489	10290	10058	9855	9699	9623	9553	9575	9673
55.0	9889	9739	9527	9272	9048	8875	8771	8707	8737	8845
57.5	9152	8990	8765	8491	8260	8061	7941	7857	7909	8035
60.0	8427	8256	8007	7735	7489	7262	7125	7039	7095	7249
62.5	7703	7527	7270	6992	6724	6488	6336	6247	6309	6482
65.0	6962	6797	6551	6270	5981	5733	5562	5478	5536	5726
67.5	6221	6056	5831	5562	5264	4999	4803	4737	4793	5017
70.0	5492	5326	5116	4853	4568	4300	4091	4015	4079	4309
72.5	4784	4606	4414	4159	3906	3630	3388	3317	3379	3626
75.0	4109	3932	3722	3491	3253	2983	2730	2649	2730	2990
77.5	3369	3245	3069	2834	2612	2369	2111	2013	2116	2373
80.0	2617	2514	2383	2197	1998	1782	1533	1411	1535	1784
82.5	1958	1842	1696	1561	1407	1225	1024	900	1030	1231
85.0	1285	1193	1056	942	846	722	585	481	589	720
87.5	581	546	445	371	341	293	233	184	231	289
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	20679	20679	20679	20679	20679	20679	20679
2.5	20601	20653	20719	20715	20659	20629	20621
5.0	20522	20573	20637	20639	20577	20547	20468
7.5	20402	20438	20509	20509	20449	20415	20332
10.0	20204	20252	20312	20318	20258	20222	20136
12.5	19952	19997	20051	20059	19993	19957	19879
15.0	19650	19691	19731	19738	19671	19635	19590
17.5	19334	19426	19419	19436	19396	19382	19290
20.0	19008	19038	19063	19081	19012	18980	18899
22.5	18539	18556	18592	18592	18534	18492	18434
25.0	17997	18012	18049	18053	18001	17961	17925
27.5	17398	17424	17450	17458	17426	17384	17368
30.0	16772	16781	16813	16809	16804	16791	16789
32.5	16101	16129	16164	16181	16213	16196	16209
35.0	15395	15440	15468	15543	15596	15592	15590
37.5	14658	14718	14764	14866	14945	14956	14958
40.0	13896	13971	14046	14166	14263	14277	14320
42.5	13091	13198	13290	13451	13551	13583	13644
45.0	12281	12417	12521	12727	12846	12906	12941
47.5	11485	11628	11780	11988	12155	12213	12260
50.0	10675	10849	11046	11283	11447	11507	11567
52.5	9864	10074	10286	10545	10718	10772	10825
55.0	9072	9300	9508	9793	9947	10000	10068
57.5	8292	8517	8745	9028	9184	9234	9326
60.0	7510	7763	7988	8276	8452	8517	8600
62.5	6761	7035	7258	7572	7720	7780	7861
65.0	6029	6296	6542	6855	7017	7058	7105
67.5	5309	5596	5835	6129	6281	6330	6356
70.0	4604	4885	5101	5375	5526	5566	5638
72.5	3936	4181	4390	4644	4799	4842	4947
75.0	3281	3504	3696	3962	4125	4159	4225
77.5	2638	2840	3039	3285	3381	3364	3422
80.0	2024	2219	2349	2536	2619	2640	2656
82.5	1429	1580	1681	1860	1964	2017	2026
85.0	858	964	1068	1259	1329	1377	1429
87.5	336	387	443	563	632	662	732
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	7512.22	N.A.	13.70
0-30	15796.99	N.A.	28.90
0-40	25464.4	N.A.	46.60
0-60	43518.65	N.A.	79.60
0-80	53563.37	N.A.	97.90
0-90	54686.12	N.A.	100.00
10-90	52732.17	N.A.	96.40
20-40	17952.17	N.A.	32.80
20-50	27601.06	N.A.	50.50
40-70	24358.01	N.A.	44.50
60-80	10044.73	N.A.	18.40
70-80	3740.97	N.A.	6.80
80-90	1122.74	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	54686.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1953.95
10-20	5558.27
20-30	8284.77
30-40	9667.4
40-50	9648.89
50-60	8405.36
60-70	6303.76
70-80	3740.97
80-90	1122.74
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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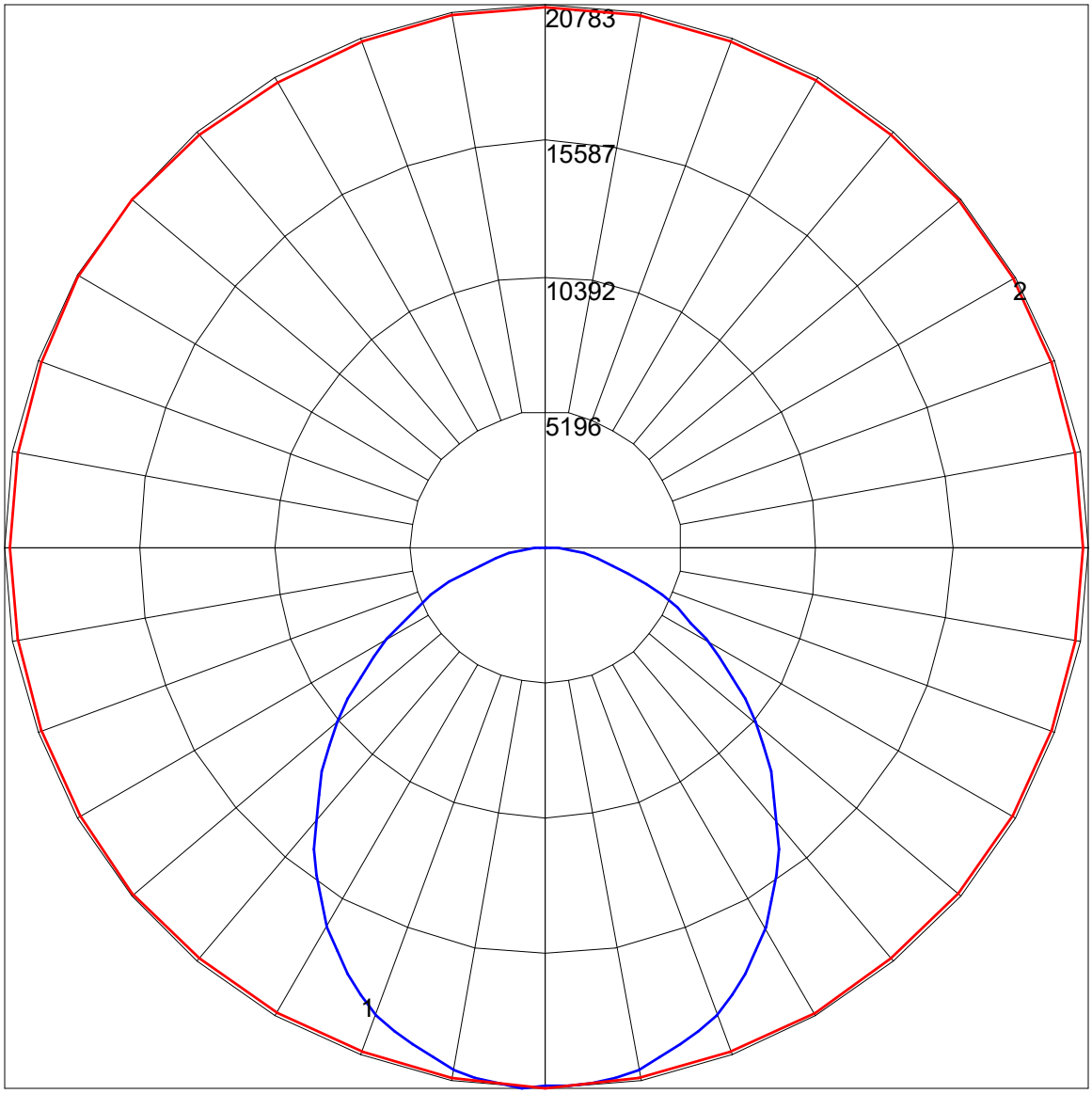
POLAR GRAPH



Maximum Candela = 20783 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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