IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-60L-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-60L-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	52939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	371
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	72039	69630	67709
55	69088	64640	60029
65	66174	59814	51521
75	64254	54993	40877
85	64520	44530	22813

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	20018	20018	20018	20018	20018	20018	20018	20018	20018	20018
2.5	19962	19974	19984	20003	20020	20003	19980	19989	20032	20078
5.0	19814	19841	19881	19924	19972	19933	19887	19912	19976	20045
7.5	19682	19709	19754	19790	19846	19804	19752	19773	19841	19908
10.0	19493	19520	19561	19597	19653	19615	19559	19574	19644	19717
12.5	19244	19271	19309	19342	19396	19360	19307	19319	19385	19460
15.0	18964	18975	19014	19031	19089	19060	19004	19008	19076	19151
17.5	18674	18676	18720	18732	18786	18774	18726	18734	18813	18867
20.0	18295	18349	18374	18417	18465	18444	18390	18390	18448	18513
22.5	17845	17903	17920	17951	17998	17978	17922	17924	17974	18048
25.0	17352	17395	17410	17426	17472	17457	17397	17395	17447	17517
27.5	16813	16846	16848	16864	16898	16889	16827	16827	16871	16935
30.0	16253	16272	16257	16278	16288	16282	16213	16216	16253	16305
32.5	15691	15685	15660	15672	15660	15639	15560	15560	15596	15629
35.0	15092	15102	15055	15042	15007	14953	14866	14864	14887	14914
37.5	14480	14489	14416	14381	14315	14238	14142	14132	14142	14165
40.0	13863	13840	13747	13699	13608	13504	13400	13380	13384	13386
42.5	13208	13168	13085	13013	12901	12764	12640	12600	12590	12586
45.0	12528	12511	12428	12310	12196	12022	11868	11804	11775	11775
47.5	11868	11843	11742	11607	11464	11259	11076	10985	10956	10948
50.0	11197	11151	11043	10894	10720	10492	10280	10170	10135	10115
52.5	10479	10440	10330	10162	9978	9737	9501	9364	9325	9287
55.0	9746	9712	9621	9449	9242	8995	8736	8560	8506	8468
57.5	9028	9005	8910	8748	8518	8255	7981	7776	7689	7656
60.0	8325	8301	8209	8039	7793	7517	7229	7007	6905	6864
62.5	7610	7581	7490	7312	7069	6789	6493	6263	6136	6099
65.0	6878	6845	6758	6572	6356	6078	5774	5537	5386	5355
67.5	6153	6124	6049	5863	5657	5394	5079	4836	4662	4627
70.0	5458	5429	5351	5170	4967	4716	4414	4154	3960	3926
72.5	4789	4768	4677	4490	4293	4047	3761	3501	3284	3255
75.0	4090	4094	4011	3829	3618	3383	3126	2869	2645	2602
77.5	3313	3327	3269	3126	2952	2741	2508	2268	2040	1978
80.0	2571	2581	2488	2384	2266	2108	1907	1700	1491	1406
82.5	1961	1945	1847	1727	1594	1482	1329	1165	993	902
85.0	1383	1358	1256	1130	1016	893	775	676	564	489
87.5	709	678	595	508	442	350	299	261	220	191
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	20018	20018	20018	20018	20018	20018	20018	20018	20018	20018
2.5	20051	19974	19949	20007	20061	20059	20009	19974	19889	19912
5.0	19995	19893	19856	19918	19993	19972	19928	19895	19814	19829
7.5	19852	19750	19715	19779	19858	19835	19783	19767	19688	19702
10.0	19646	19549	19516	19582	19659	19636	19597	19568	19495	19518
12.5	19398	19296	19265	19340	19416	19385	19342	19323	19242	19269
15.0	19095	18993	18967	19041	19114	19081	19041	19020	18971	18958
17.5	18834	18745	18734	18826	18828	18770	18703	18786	18695	18695
20.0	18450	18361	18345	18434	18483	18434	18417	18382	18318	18330
22.5	17965	17884	17874	17965	18013	17974	17957	17922	17851	17860
25.0	17437	17362	17354	17447	17486	17435	17437	17403	17333	17347
27.5	16858	16792	16784	16860	16912	16856	16871	16846	16784	16804
30.0	16228	16178	16172	16255	16319	16263	16284	16269	16224	16255
32.5	15558	15521	15529	15614	15695	15660	15691	15701	15654	15679
35.0	14856	14829	14841	14939	15036	15032	15077	15123	15082	15063
37.5	14124	14107	14111	14225	14333	14362	14433	14497	14464	14433
40.0	13353	13353	13359	13492	13612	13668	13763	13836	13807	13800
42.5	12552	12567	12598	12754	12903	12975	13085	13170	13141	13145
45.0	11732	11761	11814	12001	12202	12300	12422	12505	12496	12488
47.5	10919	10944	11031	11251	11479	11611	11740	11835	11837	11827
50.0	10092	10135	10243	10490	10720	10882	11023	11141	11155	11128
52.5	9277	9331	9461	9727	9982	10137	10299	10415	10438	10409
55.0	8462	8541	8701	8978	9252	9435	9598	9690	9700	9673
57.5	7658	7753	7952	8251	8522	8728	8873	8997	8966	8958
60.0	6874	6995	7198	7505	7801	8017	8180	8296	8257	8251
62.5	6103	6263	6478	6785	7069	7297	7459	7573	7560	7546
65.0	5361	5533	5759	6084	6352	6553	6729	6837	6854	6831
67.5	4635	4824	5065	5394	5655	5846	6016	6126	6138	6099
70.0	3947	4146	4403	4731	4980	5160	5340	5442	5417	5378
72.5	3278	3499	3752	4034	4316	4482	4666	4776	4743	4710
75.0	2641	2877	3124	3392	3644	3831	4020	4123	4109	4059
77.5	2038	2280	2500	2747	3002	3159	3300	3358	3387	3338
80.0	1491	1723	1907	2141	2343	2413	2531	2618	2660	2625

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CANDELA TABULATION - (Cont.)

82.5	1003	1192	1354	1532	1677	1762	1903	2003	2042	2003
85.0	572	697	808	956	1103	1184	1308	1428	1389	1331
87.5	220	263	294	390	489	545	649	750	684	607
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	20018	20018	20018	20018	20018	20018	20018	20018	20018	20018
2.5	19949	19999	20047	20011	19972	19986	20057	20119	20067	19968
5.0	19879	19922	19968	19937	19897	19910	19980	20040	19989	19891
7.5	19748	19790	19837	19804	19765	19781	19850	19906	19854	19756
10.0	19559	19601	19644	19611	19572	19586	19653	19711	19659	19568
12.5	19315	19356	19396	19365	19327	19333	19398	19454	19406	19317
15.0	19006	19054	19093	19066	19045	19031	19097	19149	19097	19027
17.5	18736	18780	18819	18790	18763	18736	18803	18844	18774	18765
20.0	18369	18417	18459	18446	18411	18405	18461	18508	18461	18386
22.5	17899	17940	17986	17984	17942	17932	17978	18029	17986	17915
25.0	17385	17422	17474	17466	17420	17416	17451	17493	17443	17389
27.5	16835	16873	16906	16898	16850	16854	16873	16904	16856	16808

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CANDELA TABULATION - (Cont.)

30.0	16253	16286	16298	16288	16243	16238	16251	16272	16230	16189
32.5	15652	15668	15662	15629	15594	15581	15581	15600	15567	15531
35.0	15032	15028	14995	14939	14903	14887	14878	14885	14866	14845
37.5	14395	14381	14310	14240	14188	14163	14151	14134	14122	14124
40.0	13747	13711	13606	13512	13448	13413	13388	13342	13344	13378
42.5	13079	13017	12880	12770	12673	12623	12594	12542	12555	12592
45.0	12407	12306	12156	12018	11889	11814	11790	11732	11744	11792
47.5	11723	11595	11429	11263	11105	11008	10964	10906	10906	10977
50.0	11023	10877	10693	10496	10320	10197	10139	10073	10085	10162
52.5	10305	10154	9961	9737	9540	9389	9316	9248	9269	9364
55.0	9573	9428	9223	8976	8759	8591	8491	8429	8458	8562
57.5	8860	8703	8485	8220	7996	7803	7687	7606	7656	7778
60.0	8158	7992	7751	7488	7250	7030	6897	6814	6868	7017
62.5	7457	7287	7038	6769	6509	6281	6134	6047	6107	6275
65.0	6740	6580	6342	6070	5790	5550	5384	5303	5359	5543
67.5	6022	5863	5645	5384	5096	4839	4650	4586	4640	4857
70.0	5317	5156	4953	4698	4422	4163	3960	3887	3949	4171
72.5	4631	4459	4273	4026	3781	3514	3280	3211	3271	3510
75.0	3978	3806	3603	3379	3149	2888	2643	2564	2643	2894
77.5	3261	3141	2971	2743	2529	2293	2044	1949	2048	2297
80.0	2533	2434	2307	2127	1934	1725	1484	1366	1486	1727
82.5	1895	1783	1642	1511	1362	1186	991	871	997	1192
85.0	1244	1155	1022	912	819	699	566	466	570	697
87.5	562	529	431	359	330	284	226	178	224	280
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	20018	20018	20018	20018	20018	20018	20018
2.5	19943	19993	20057	20053	19999	19970	19962
5.0	19866	19916	19978	19980	19920	19891	19814
7.5	19750	19785	19854	19854	19796	19763	19682
10.0	19559	19605	19663	19669	19611	19576	19493
12.5	19315	19358	19410	19418	19354	19319	19244
15.0	19022	19062	19101	19107	19043	19008	18964
17.5	18716	18805	18799	18815	18776	18763	18674
20.0	18401	18430	18454	18471	18405	18374	18295
22.5	17947	17963	17998	17998	17942	17901	17845
25.0	17422	17437	17472	17476	17426	17387	17352
27.5	16842	16867	16893	16900	16869	16829	16813
30.0	16236	16245	16276	16272	16267	16255	16253
32.5	15587	15614	15648	15664	15695	15679	15691
35.0	14903	14947	14974	15046	15098	15094	15092
37.5	14190	14248	14292	14391	14468	14478	14480
40.0	13452	13525	13597	13713	13807	13821	13863
42.5	12673	12776	12865	13021	13118	13149	13208
45.0	11889	12020	12121	12320	12436	12494	12528
47.5	11118	11257	11404	11605	11767	11823	11868
50.0	10334	10502	10693	10923	11081	11139	11197
52.5	9549	9752	9957	10208	10376	10428	10479
55.0	8782	9003	9204	9480	9629	9681	9746
57.5	8027	8245	8466	8740	8891	8939	9028
60.0	7270	7515	7733	8012	8182	8245	8325
62.5	6545	6810	7026	7330	7473	7531	7610
65.0	5836	6095	6333	6636	6793	6833	6878
67.5	5139	5417	5649	5933	6080	6128	6153
70.0	4457	4729	4938	5203	5349	5388	5458
72.5	3810	4047	4250	4496	4646	4687	4789
75.0	3176	3392	3578	3835	3993	4026	4090
77.5	2554	2749	2942	3180	3273	3257	3313
80.0	1959	2148	2274	2455	2535	2556	2571
82.5	1383	1530	1627	1801	1901	1953	1961
85.0	831	933	1034	1219	1287	1333	1383
87.5	325	375	429	545	612	641	709
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	7272.23	N.A.	13.70
0-30	15292.33	N.A.	28.90
0-40	24650.91	N.A.	46.60
0-60	42128.38	N.A.	79.60
0-80	51852.19	N.A.	97.90
0-90	52939.07	N.A.	100.00
10-90	51047.54	N.A.	96.40
20-40	17378.67	N.A.	32.80
20-50	26719.29	N.A.	50.50
40-70	23579.83	N.A.	44.50
60-80	9723.82	N.A.	18.40
70-80	3621.45	N.A.	6.80
80-90	1086.87	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	52939.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1891.53
10-20	5380.71
20-30	8020.1
30-40	9358.58
40-50	9340.62
50-60	8136.85
60-70	6102.36
70-80	3621.45
80-90	1086.87
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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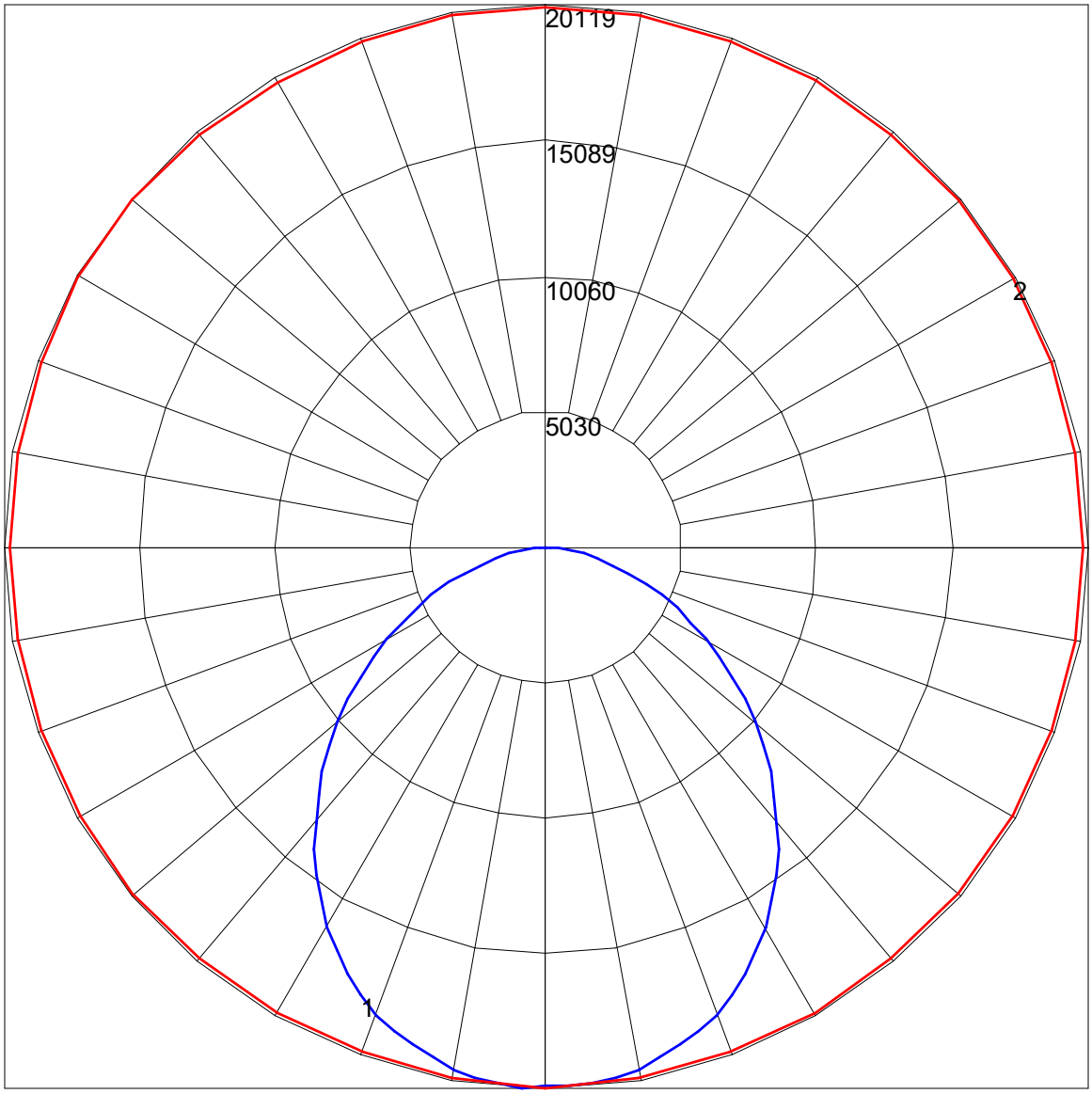
POLAR GRAPH



Maximum Candela = 20119 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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