IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-36L-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-36L-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	33533
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	244
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	45628	44104	42891
55	43760	40946	38025
65	41919	37888	32635
75	40704	34829	25890
85	40868	28201	14462

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	12680	12680	12680	12680	12680	12680	12680	12680	12680	12680
2.5	12644	12652	12659	12671	12681	12671	12656	12661	12689	12718
5.0	12551	12568	12593	12621	12651	12626	12597	12613	12654	12697
7.5	12467	12484	12513	12535	12571	12545	12512	12525	12568	12610
10.0	12348	12365	12391	12413	12449	12425	12390	12399	12443	12489
12.5	12190	12207	12231	12252	12286	12264	12229	12237	12279	12327
15.0	12013	12019	12044	12055	12092	12073	12038	12040	12084	12131
17.5	11829	11830	11858	11866	11900	11892	11862	11867	11917	11951
20.0	11589	11623	11638	11666	11696	11683	11649	11649	11686	11726
22.5	11304	11340	11351	11371	11401	11388	11352	11354	11385	11432
25.0	10991	11019	11028	11038	11067	11058	11020	11019	11051	11096
27.5	10650	10671	10672	10683	10704	10698	10659	10659	10686	10727
30.0	10295	10307	10298	10311	10317	10314	10270	10271	10295	10328
32.5	9939	9935	9920	9927	9920	9906	9857	9857	9879	9900
35.0	9560	9566	9536	9528	9506	9472	9417	9415	9430	9447
37.5	9172	9178	9132	9109	9067	9019	8958	8952	8958	8973
40.0	8781	8767	8708	8677	8620	8554	8488	8475	8478	8479
42.5	8366	8341	8289	8243	8172	8085	8006	7981	7975	7972
45.0	7935	7925	7872	7798	7725	7615	7518	7477	7459	7459
47.5	7518	7502	7438	7352	7262	7132	7016	6958	6940	6935
50.0	7092	7063	6995	6901	6790	6646	6512	6442	6420	6407
52.5	6638	6613	6543	6437	6320	6168	6018	5932	5907	5883
55.0	6173	6152	6094	5985	5854	5698	5534	5422	5388	5364
57.5	5719	5704	5644	5542	5396	5229	5056	4926	4870	4849
60.0	5274	5258	5200	5092	4936	4761	4579	4438	4374	4348
62.5	4821	4802	4744	4631	4478	4301	4113	3967	3887	3863
65.0	4357	4336	4281	4163	4026	3850	3657	3507	3412	3392
67.5	3897	3879	3832	3714	3584	3417	3217	3064	2953	2931
70.0	3458	3439	3389	3275	3146	2987	2796	2632	2508	2487
72.5	3033	3020	2962	2844	2720	2563	2382	2218	2080	2062
75.0	2591	2593	2541	2425	2291	2143	1980	1817	1676	1648
77.5	2098	2108	2071	1980	1870	1736	1589	1437	1292	1253
80.0	1628	1635	1576	1510	1435	1335	1208	1077	944	890
82.5	1242	1232	1170	1094	1010	939	842	738	629	571
85.0	876	860	796	716	643	566	491	428	357	310
87.5	449	429	377	322	280	222	189	165	139	121
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	12680	12680	12680	12680	12680	12680	12680	12680	12680	12680
2.5	12701	12652	12636	12673	12707	12706	12675	12652	12598	12613
5.0	12665	12601	12577	12617	12664	12651	12623	12602	12551	12560
7.5	12575	12510	12488	12529	12579	12564	12531	12521	12471	12480
10.0	12445	12383	12362	12404	12453	12438	12413	12395	12349	12363
12.5	12287	12223	12203	12250	12299	12279	12252	12240	12189	12206
15.0	12095	12031	12014	12061	12107	12086	12061	12048	12017	12009
17.5	11930	11874	11867	11925	11926	11889	11847	11900	11842	11842
20.0	11687	11631	11620	11677	11708	11677	11666	11644	11603	11611
22.5	11380	11329	11322	11380	11410	11385	11375	11352	11308	11313
25.0	11045	10998	10992	11051	11076	11044	11045	11024	10979	10988
27.5	10679	10637	10631	10680	10713	10677	10686	10671	10631	10644
30.0	10279	10248	10244	10296	10337	10302	10315	10306	10277	10296
32.5	9855	9832	9837	9891	9942	9920	9939	9946	9916	9931
35.0	9410	9393	9401	9463	9524	9522	9551	9579	9553	9541
37.5	8947	8936	8939	9011	9079	9098	9142	9183	9162	9142
40.0	8458	8458	8462	8546	8622	8658	8718	8764	8746	8742
42.5	7951	7960	7980	8079	8173	8219	8289	8342	8324	8327
45.0	7431	7450	7484	7602	7729	7791	7868	7921	7916	7910
47.5	6916	6932	6987	7126	7271	7355	7436	7497	7498	7492
50.0	6392	6420	6488	6645	6790	6893	6982	7057	7066	7049
52.5	5876	5911	5993	6161	6323	6421	6524	6597	6612	6593
55.0	5360	5410	5511	5687	5861	5976	6080	6138	6144	6127
57.5	4851	4911	5037	5226	5398	5528	5620	5699	5679	5674
60.0	4354	4431	4559	4754	4941	5078	5182	5255	5230	5226
62.5	3866	3967	4104	4298	4478	4622	4725	4797	4789	4780
65.0	3396	3505	3648	3854	4024	4151	4262	4331	4341	4327
67.5	2936	3056	3208	3417	3582	3703	3811	3880	3888	3863
70.0	2500	2626	2789	2997	3154	3268	3383	3447	3431	3406
72.5	2076	2217	2377	2555	2734	2839	2956	3026	3004	2983
75.0	1673	1823	1979	2148	2309	2427	2546	2612	2603	2571
77.5	1291	1444	1584	1740	1901	2001	2091	2127	2146	2114
80.0	944	1091	1208	1356	1484	1529	1603	1659	1685	1662

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CANDELA TABULATION - (Cont.)

82.5	636	755	857	970	1062	1116	1205	1269	1293	1269
85.0	362	441	512	605	699	750	829	905	880	843
87.5	139	167	186	247	310	345	411	475	433	385
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	12680	12680	12680	12680	12680	12680	12680	12680	12680	12680
2.5	12636	12668	12698	12676	12651	12660	12705	12744	12711	12648
5.0	12592	12619	12648	12629	12604	12612	12656	12694	12661	12600
7.5	12509	12535	12566	12545	12520	12530	12573	12609	12576	12514
10.0	12390	12416	12443	12422	12397	12407	12449	12485	12453	12395
12.5	12235	12261	12286	12266	12243	12246	12287	12323	12292	12236
15.0	12039	12069	12094	12077	12064	12055	12097	12130	12097	12052
17.5	11868	11896	11921	11902	11885	11868	11910	11937	11892	11887
20.0	11636	11666	11692	11684	11662	11658	11694	11724	11694	11646
22.5	11338	11364	11393	11392	11365	11359	11388	11420	11393	11348
25.0	11012	11036	11069	11063	11034	11032	11054	11080	11049	11015
27.5	10664	10688	10709	10704	10673	10676	10688	10707	10677	10647

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CANDELA TABULATION - (Cont.)

30.0	10295	10316	10324	10317	10289	10286	10294	10307	10281	10254
32.5	9914	9925	9921	9900	9878	9870	9870	9881	9860	9838
35.0	9522	9519	9498	9463	9440	9430	9425	9428	9417	9403
37.5	9119	9109	9065	9020	8987	8971	8964	8953	8945	8947
40.0	8708	8685	8618	8559	8518	8496	8480	8451	8453	8474
42.5	8285	8245	8159	8089	8027	7996	7977	7945	7952	7976
45.0	7859	7795	7700	7612	7531	7484	7468	7431	7439	7469
47.5	7426	7344	7239	7134	7035	6973	6945	6909	6909	6953
50.0	6982	6890	6773	6648	6537	6459	6423	6381	6388	6437
52.5	6528	6432	6310	6168	6043	5947	5901	5858	5871	5932
55.0	6064	5972	5842	5686	5548	5442	5379	5339	5358	5423
57.5	5612	5513	5375	5207	5065	4943	4869	4818	4849	4927
60.0	5167	5062	4910	4743	4592	4453	4369	4316	4350	4445
62.5	4723	4616	4458	4287	4123	3979	3886	3830	3869	3975
65.0	4269	4168	4017	3845	3668	3515	3410	3359	3395	3511
67.5	3815	3714	3576	3410	3228	3065	2945	2905	2939	3077
70.0	3368	3266	3137	2976	2801	2637	2508	2462	2502	2642
72.5	2934	2825	2706	2550	2395	2226	2077	2034	2072	2223
75.0	2520	2411	2282	2140	1995	1829	1674	1624	1674	1833
77.5	2066	1989	1882	1737	1602	1452	1295	1234	1297	1455
80.0	1605	1542	1462	1347	1225	1093	940	865	942	1094
82.5	1200	1129	1040	957	863	751	628	552	632	755
85.0	788	731	647	578	519	443	358	295	361	441
87.5	356	335	273	227	209	180	143	113	142	177
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	12680	12680	12680	12680	12680	12680	12680
2.5	12633	12664	12705	12702	12668	12650	12644
5.0	12584	12615	12655	12656	12618	12600	12551
7.5	12510	12533	12576	12576	12539	12518	12467
10.0	12390	12418	12455	12459	12422	12400	12348
12.5	12235	12262	12295	12300	12260	12237	12190
15.0	12049	12074	12099	12103	12063	12040	12013
17.5	11855	11912	11908	11918	11893	11885	11829
20.0	11656	11674	11690	11700	11658	11638	11589
22.5	11368	11378	11401	11401	11365	11339	11304
25.0	11036	11045	11067	11070	11038	11013	10991
27.5	10668	10684	10701	10705	10685	10660	10650
30.0	10285	10290	10310	10307	10304	10296	10295
32.5	9874	9891	9912	9922	9942	9931	9939
35.0	9440	9468	9485	9531	9564	9561	9560
37.5	8989	9025	9053	9116	9164	9171	9172
40.0	8521	8567	8613	8687	8746	8755	8781
42.5	8027	8093	8149	8248	8310	8329	8366
45.0	7531	7614	7678	7804	7878	7914	7935
47.5	7042	7130	7224	7351	7453	7489	7518
50.0	6546	6652	6773	6919	7019	7056	7092
52.5	6048	6177	6307	6466	6572	6605	6638
55.0	5563	5703	5830	6005	6100	6132	6173
57.5	5085	5222	5363	5536	5632	5662	5719
60.0	4605	4760	4898	5075	5183	5222	5274
62.5	4146	4314	4450	4643	4734	4771	4821
65.0	3697	3861	4012	4203	4303	4328	4357
67.5	3255	3431	3578	3758	3851	3882	3897
70.0	2823	2995	3128	3296	3388	3413	3458
72.5	2414	2563	2692	2848	2943	2969	3033
75.0	2012	2148	2267	2429	2529	2550	2591
77.5	1618	1741	1863	2014	2073	2063	2098
80.0	1241	1360	1441	1555	1606	1619	1628
82.5	876	969	1031	1141	1204	1237	1242
85.0	527	591	655	772	815	844	876
87.5	206	238	272	345	387	406	449
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	4606.48	N.A.	13.70
0-30	9686.67	N.A.	28.90
0-40	15614.74	N.A.	46.60
0-60	26685.5	N.A.	79.60
0-80	32844.85	N.A.	97.90
0-90	33533.28	N.A.	100.00
10-90	32335.13	N.A.	96.40
20-40	11008.26	N.A.	32.80
20-50	16924.9	N.A.	50.50
40-70	14936.2	N.A.	44.50
60-80	6159.35	N.A.	18.40
70-80	2293.91	N.A.	6.80
80-90	688.43	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	33533.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1198.15
10-20	3408.33
20-30	5080.19
30-40	5928.06
40-50	5916.64
50-60	5154.12
60-70	3865.44
70-80	2293.91
80-90	688.43
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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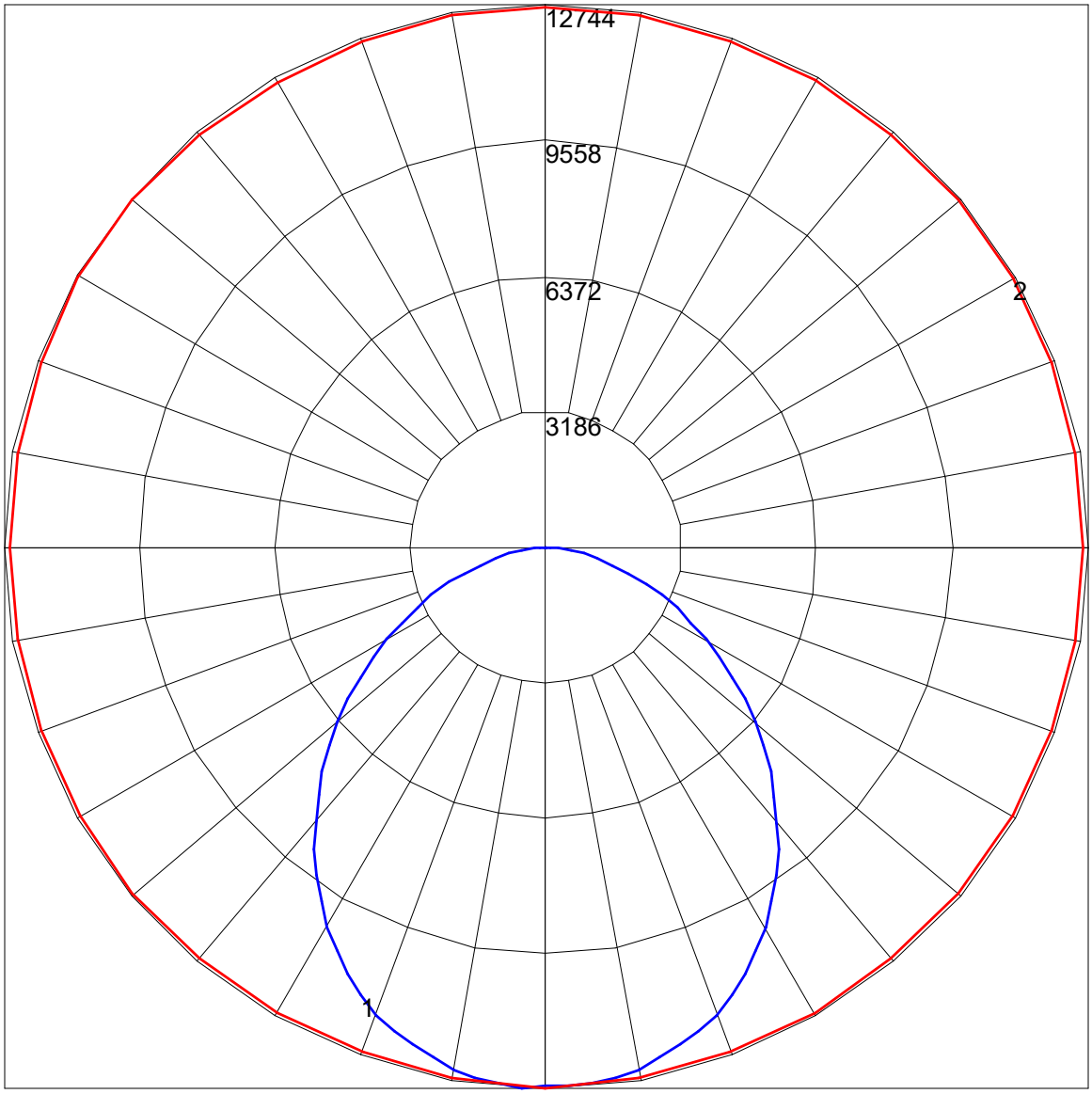
POLAR GRAPH



Maximum Candela = 12744 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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