IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-36L-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-36L-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	34414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	46824	45263	44018
55	44908	42023	39024
65	43016	38883	33491
75	41773	35740	26565
85	41941	28948	14835

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	13013	13013	13013	13013	13013	13013	13013	13013	13013	13013
2.5	12976	12984	12992	13004	13014	13004	12989	12994	13022	13052
5.0	12881	12898	12924	12953	12983	12958	12928	12944	12986	13031
7.5	12795	12812	12842	12864	12901	12875	12841	12854	12898	12941
10.0	12672	12690	12717	12739	12776	12751	12716	12725	12770	12817
12.5	12510	12528	12552	12574	12609	12586	12550	12558	12602	12651
15.0	12329	12335	12360	12372	12410	12390	12354	12356	12401	12450
17.5	12140	12141	12170	12178	12213	12204	12174	12179	12230	12265
20.0	11893	11928	11944	11972	12003	11990	11955	11955	11993	12034
22.5	11601	11638	11649	11670	11701	11687	11650	11652	11684	11732
25.0	11280	11308	11318	11328	11358	11349	11310	11308	11341	11388
27.5	10930	10951	10952	10964	10985	10979	10939	10939	10967	11009
30.0	10565	10578	10569	10582	10588	10585	10540	10541	10565	10599
32.5	10200	10196	10181	10188	10181	10166	10116	10116	10139	10160
35.0	9811	9817	9787	9778	9756	9721	9664	9662	9678	9695
37.5	9413	9419	9372	9348	9305	9256	9193	9187	9193	9209
40.0	9012	8997	8937	8905	8846	8779	8711	8698	8701	8702
42.5	8586	8560	8507	8460	8387	8297	8216	8191	8185	8181
45.0	8143	8133	8079	8003	7928	7815	7716	7673	7655	7655
47.5	7716	7699	7633	7545	7453	7319	7200	7141	7122	7117
50.0	7278	7249	7179	7082	6968	6821	6683	6611	6589	6575
52.5	6812	6787	6715	6606	6486	6330	6176	6088	6062	6038
55.0	6335	6314	6254	6142	6008	5848	5679	5564	5530	5505
57.5	5869	5854	5792	5688	5538	5366	5189	5055	4998	4976
60.0	5413	5396	5337	5226	5066	4886	4699	4555	4489	4462
62.5	4948	4928	4869	4753	4596	4414	4221	4071	3989	3964
65.0	4471	4450	4393	4272	4132	3951	3753	3599	3502	3481
67.5	3999	3981	3933	3812	3678	3507	3302	3144	3031	3008
70.0	3549	3529	3478	3361	3229	3065	2869	2701	2574	2552
72.5	3113	3099	3040	2919	2791	2630	2445	2276	2135	2116
75.0	2659	2661	2608	2489	2351	2199	2032	1865	1720	1691
77.5	2153	2163	2125	2032	1919	1782	1631	1475	1326	1286
80.0	1671	1678	1617	1550	1473	1370	1240	1105	969	913
82.5	1275	1264	1201	1123	1037	964	864	757	646	586
85.0	899	883	817	735	660	581	504	439	366	318
87.5	461	440	387	330	287	228	194	169	143	124
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	13013	13013	13013	13013	13013	13013	13013	13013	13013	13013
2.5	13035	12984	12968	13006	13041	13040	13008	12984	12929	12944
5.0	12998	12932	12907	12948	12997	12983	12955	12933	12881	12890
7.5	12905	12839	12816	12858	12909	12894	12860	12850	12799	12808
10.0	12772	12708	12687	12730	12780	12765	12739	12721	12673	12688
12.5	12610	12544	12524	12572	12622	12602	12574	12562	12509	12527
15.0	12413	12347	12330	12378	12425	12404	12378	12365	12333	12325
17.5	12243	12186	12179	12238	12239	12201	12158	12213	12153	12153
20.0	11994	11937	11925	11984	12016	11984	11972	11950	11908	11916
22.5	11679	11627	11619	11679	11710	11684	11674	11650	11605	11610
25.0	11335	11287	11281	11341	11367	11334	11335	11314	11267	11277
27.5	10960	10916	10910	10961	10994	10958	10967	10951	10910	10924
30.0	10549	10517	10513	10567	10609	10573	10586	10577	10547	10567
32.5	10114	10090	10095	10151	10203	10181	10200	10207	10177	10192
35.0	9657	9640	9648	9712	9774	9772	9802	9831	9804	9792
37.5	9182	9171	9174	9248	9318	9337	9382	9424	9403	9382
40.0	8680	8680	8684	8771	8849	8885	8947	8994	8976	8972
42.5	8160	8169	8190	8291	8388	8435	8507	8561	8543	8546
45.0	7626	7646	7681	7802	7932	7996	8075	8129	8124	8118
47.5	7098	7114	7171	7313	7462	7548	7631	7694	7695	7689
50.0	6560	6589	6658	6820	6968	7074	7165	7242	7252	7234
52.5	6030	6066	6150	6323	6489	6590	6695	6770	6786	6766
55.0	5501	5552	5656	5836	6015	6133	6240	6299	6305	6288
57.5	4978	5040	5169	5363	5540	5673	5768	5849	5828	5823
60.0	4468	4547	4679	4879	5071	5211	5318	5393	5367	5363
62.5	3968	4071	4212	4411	4596	4743	4849	4923	4915	4906
65.0	3485	3597	3744	3955	4130	4260	4374	4445	4455	4441
67.5	3013	3136	3292	3507	3676	3800	3911	3982	3990	3964
70.0	2566	2695	2862	3076	3237	3354	3472	3538	3521	3495
72.5	2131	2275	2439	2622	2806	2914	3034	3106	3083	3061
75.0	1717	1871	2031	2204	2370	2491	2613	2681	2671	2639
77.5	1325	1482	1626	1786	1951	2054	2146	2183	2202	2170
80.0	969	1120	1240	1392	1523	1569	1645	1703	1729	1706

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CANDELA TABULATION - (Cont.)

82.5	653	775	880	995	1090	1145	1237	1302	1327	1302
85.0	372	453	525	621	717	770	851	929	903	865
87.5	143	171	191	253	318	354	422	487	444	395
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	13013	13013	13013	13013	13013	13013	13013	13013	13013	13013
2.5	12968	13001	13032	13009	12983	12993	13039	13079	13045	12980
5.0	12923	12951	12980	12961	12935	12943	12989	13028	12994	12931
7.5	12838	12864	12896	12875	12849	12859	12903	12940	12906	12843
10.0	12716	12742	12770	12748	12723	12733	12776	12813	12780	12721
12.5	12556	12583	12609	12588	12565	12568	12610	12647	12615	12557
15.0	12355	12386	12412	12394	12381	12372	12415	12449	12415	12369
17.5	12180	12209	12234	12215	12197	12180	12223	12251	12204	12199
20.0	11942	11972	11999	11991	11968	11964	12001	12032	12001	11952
22.5	11636	11663	11692	11691	11664	11657	11687	11720	11692	11646
25.0	11301	11326	11360	11354	11324	11322	11344	11371	11339	11304
27.5	10944	10969	10990	10985	10953	10956	10969	10988	10958	10927

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CANDELA TABULATION - (Cont.)

30.0	10565	10587	10595	10588	10559	10556	10564	10578	10551	10523
32.5	10174	10186	10182	10160	10138	10129	10129	10141	10119	10096
35.0	9772	9769	9748	9712	9688	9678	9673	9676	9664	9650
37.5	9359	9348	9303	9257	9223	9207	9200	9188	9180	9182
40.0	8937	8913	8844	8784	8742	8719	8703	8673	8675	8697
42.5	8503	8462	8373	8302	8238	8206	8187	8154	8161	8186
45.0	8065	8000	7902	7812	7729	7681	7664	7626	7634	7665
47.5	7621	7537	7429	7321	7220	7156	7127	7091	7091	7136
50.0	7165	7071	6951	6823	6709	6629	6592	6549	6556	6606
52.5	6700	6601	6476	6330	6202	6103	6056	6012	6025	6088
55.0	6223	6129	5995	5835	5694	5585	5520	5479	5499	5565
57.5	5759	5658	5516	5344	5198	5073	4997	4945	4976	5056
60.0	5303	5195	5039	4868	4713	4570	4484	4429	4464	4562
62.5	4847	4737	4575	4400	4231	4084	3988	3931	3971	4079
65.0	4381	4278	4123	3946	3764	3607	3500	3447	3484	3603
67.5	3915	3812	3670	3500	3313	3146	3022	2981	3016	3158
70.0	3456	3352	3219	3054	2875	2706	2574	2527	2568	2711
72.5	3011	2899	2777	2617	2458	2284	2132	2087	2126	2281
75.0	2586	2474	2342	2196	2047	1877	1718	1667	1718	1881
77.5	2120	2041	1931	1783	1644	1490	1329	1266	1331	1493
80.0	1647	1583	1500	1382	1257	1122	965	888	967	1123
82.5	1232	1159	1067	982	886	771	644	567	649	775
85.0	809	750	664	593	533	455	367	303	370	453
87.5	365	344	280	233	214	185	147	116	146	182
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	13013	13013	13013	13013	13013	13013	13013
2.5	12965	12997	13039	13036	13001	12982	12976
5.0	12915	12946	12987	12989	12950	12931	12881
7.5	12839	12862	12906	12906	12868	12847	12795
10.0	12716	12744	12782	12786	12748	12726	12672
12.5	12556	12584	12618	12623	12582	12558	12510
15.0	12366	12391	12417	12421	12380	12356	12329
17.5	12166	12225	12221	12231	12205	12197	12140
20.0	11962	11981	11997	12007	11964	11944	11893
22.5	11667	11677	11701	11701	11664	11637	11601
25.0	11326	11335	11358	11361	11328	11302	11280
27.5	10948	10965	10982	10986	10966	10940	10930
30.0	10555	10560	10581	10578	10575	10567	10565
32.5	10133	10151	10172	10183	10203	10192	10200
35.0	9688	9717	9734	9781	9815	9812	9811
37.5	9225	9262	9291	9356	9405	9412	9413
40.0	8745	8792	8839	8915	8976	8985	9012
42.5	8238	8306	8363	8465	8528	8548	8586
45.0	7729	7814	7880	8009	8085	8122	8143
47.5	7227	7317	7414	7544	7649	7686	7716
50.0	6718	6827	6951	7101	7203	7241	7278
52.5	6207	6339	6473	6636	6745	6779	6812
55.0	5709	5853	5983	6163	6260	6293	6335
57.5	5219	5359	5504	5681	5780	5811	5869
60.0	4726	4885	5027	5208	5319	5359	5413
62.5	4255	4427	4567	4765	4858	4896	4948
65.0	3794	3962	4117	4313	4416	4442	4471
67.5	3341	3521	3672	3857	3952	3984	3999
70.0	2897	3074	3210	3383	3477	3503	3549
72.5	2477	2630	2763	2923	3020	3047	3113
75.0	2065	2204	2327	2493	2595	2617	2659
77.5	1661	1787	1912	2067	2127	2117	2153
80.0	1274	1396	1479	1596	1648	1662	1671
82.5	899	994	1058	1171	1236	1269	1275
85.0	541	607	672	792	836	866	899
87.5	211	244	279	354	397	417	461
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	4727.51	N.A.	13.70
0-30	9941.16	N.A.	28.90
0-40	16024.98	N.A.	46.60
0-60	27386.59	N.A.	79.60
0-80	33707.75	N.A.	97.90
0-90	34414.28	N.A.	100.00
10-90	33184.65	N.A.	96.40
20-40	11297.47	N.A.	32.80
20-50	17369.58	N.A.	50.50
40-70	15328.6	N.A.	44.50
60-80	6321.16	N.A.	18.40
70-80	2354.17	N.A.	6.80
80-90	706.53	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	34414.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1229.63
10-20	3497.87
20-30	5213.66
30-40	6083.82
40-50	6072.11
50-60	5289.51
60-70	3966.98
70-80	2354.17
80-90	706.53
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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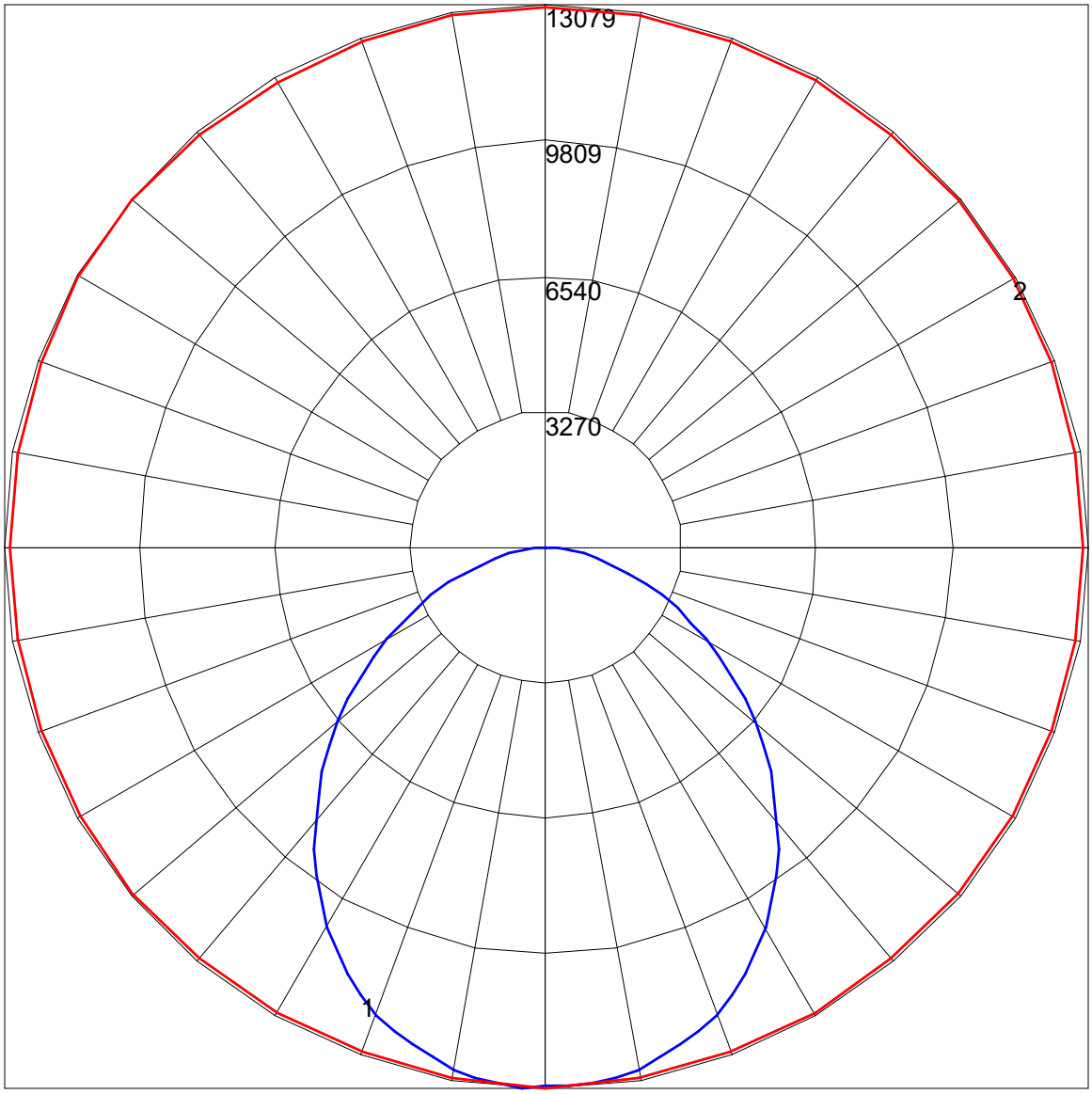
POLAR GRAPH



Maximum Candela = 13079 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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