IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-72L-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-72L-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	66671
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	489
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	60481	58459	56847
55	58001	54275	50407
65	55558	50228	43263
75	53969	46161	34310
85	54117	37415	19190

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	25211	25211	25211	25211	25211	25211	25211	25211	25211	25211
2.5	25139	25155	25169	25191	25212	25192	25163	25174	25229	25286
5.0	24955	24989	25036	25093	25152	25103	25044	25076	25158	25245
7.5	24787	24822	24877	24921	24993	24942	24876	24903	24988	25072
10.0	24551	24584	24635	24681	24752	24704	24633	24650	24739	24832
12.5	24237	24270	24317	24360	24426	24383	24314	24329	24412	24509
15.0	23883	23896	23947	23967	24040	24003	23933	23939	24025	24119
17.5	23517	23521	23575	23590	23659	23642	23583	23593	23691	23762
20.0	23042	23109	23140	23195	23254	23227	23160	23162	23234	23315
22.5	22473	22546	22567	22606	22668	22641	22569	22573	22636	22729
25.0	21853	21907	21927	21945	22004	21987	21909	21906	21972	22062
27.5	21174	21215	21217	21239	21281	21271	21192	21191	21247	21327
30.0	20469	20492	20475	20501	20514	20505	20420	20422	20469	20535
32.5	19760	19752	19722	19739	19723	19695	19597	19596	19639	19682
35.0	19008	19020	18959	18944	18898	18830	18723	18718	18747	18782
37.5	18237	18247	18156	18112	18029	17930	17811	17799	17811	17839
40.0	17459	17429	17313	17251	17138	17007	16876	16849	16855	16857
42.5	16633	16584	16480	16389	16247	16074	15919	15867	15856	15850
45.0	15777	15756	15653	15503	15358	15141	14947	14868	14829	14829
47.5	14948	14915	14789	14618	14438	14179	13949	13835	13799	13789
50.0	14101	14044	13908	13719	13500	13215	12947	12808	12764	12739
52.5	13197	13147	13008	12799	12566	12263	11966	11792	11743	11696
55.0	12273	12230	12116	11902	11640	11329	11003	10781	10712	10666
57.5	11370	11341	11222	11017	10726	10397	10051	9792	9684	9642
60.0	10486	10454	10338	10126	9813	9468	9104	8826	8697	8645
62.5	9586	9548	9434	9209	8902	8551	8177	7887	7728	7682
65.0	8662	8623	8510	8277	8006	7656	7270	6975	6783	6745
67.5	7748	7713	7619	7382	7124	6792	6397	6091	5872	5828
70.0	6873	6838	6739	6511	6256	5941	5559	5231	4987	4945
72.5	6030	6004	5891	5656	5408	5097	4736	4410	4136	4098
75.0	5153	5156	5051	4823	4555	4260	3938	3615	3330	3276
77.5	4172	4191	4117	3938	3717	3452	3159	2857	2570	2491
80.0	3238	3251	3132	3001	2854	2656	2401	2142	1877	1770
82.5	2469	2450	2325	2174	2008	1867	1674	1468	1251	1136
85.0	1740	1709	1582	1423	1280	1126	977	852	709	617
87.5	893	854	749	641	555	441	377	330	276	241
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	25211	25211	25211	25211	25211	25211	25211	25211	25211	25211
2.5	25251	25156	25123	25197	25264	25263	25201	25155	25050	25077
5.0	25180	25052	25008	25083	25179	25151	25097	25056	24955	24974
7.5	25001	24873	24829	24911	25009	24981	24916	24893	24794	24813
10.0	24744	24620	24578	24663	24757	24730	24681	24643	24551	24580
12.5	24429	24302	24263	24357	24453	24413	24358	24335	24234	24266
15.0	24047	23919	23886	23979	24072	24030	23980	23954	23892	23876
17.5	23719	23607	23594	23708	23711	23639	23554	23659	23544	23545
20.0	23237	23124	23102	23215	23278	23214	23196	23151	23068	23085
22.5	22625	22524	22510	22625	22686	22636	22613	22570	22482	22493
25.0	21958	21864	21855	21972	22022	21957	21959	21917	21830	21847
27.5	21230	21147	21137	21235	21298	21227	21247	21216	21137	21163
30.0	20438	20373	20367	20472	20552	20482	20508	20488	20433	20471
32.5	19594	19546	19557	19665	19766	19722	19760	19774	19715	19746
35.0	18710	18674	18690	18815	18937	18930	18989	19045	18995	18971
37.5	17787	17766	17773	17916	18052	18086	18177	18257	18216	18177
40.0	16817	16817	16823	16991	17143	17212	17332	17425	17388	17379
42.5	15807	15827	15866	16062	16249	16341	16479	16586	16549	16554
45.0	14774	14811	14880	15113	15368	15490	15644	15748	15737	15728
47.5	13752	13783	13891	14168	14455	14624	14786	14906	14908	14895
50.0	12710	12765	12901	13210	13500	13702	13881	14031	14048	14014
52.5	11682	11753	11917	12250	12570	12768	12969	13117	13146	13108
55.0	10657	10757	10958	11308	11652	11882	12086	12203	12216	12181
57.5	9643	9764	10016	10393	10734	10991	11174	11332	11293	11281
60.0	8658	8808	9065	9452	9824	10096	10303	10448	10399	10390
62.5	7685	7887	8159	8546	8904	9190	9395	9538	9521	9502
65.0	6752	6969	7252	7662	7998	8253	8476	8610	8631	8603
67.5	5837	6075	6377	6794	7123	7362	7575	7715	7732	7682
70.0	4971	5221	5547	5956	6270	6498	6725	6853	6822	6774
72.5	4127	4406	4725	5082	5435	5644	5878	6015	5973	5931
75.0	3326	3623	3934	4271	4589	4825	5061	5193	5175	5112
77.5	2567	2874	3149	3459	3782	3980	4157	4231	4265	4204
80.0	1877	2169	2401	2698	2951	3040	3189	3299	3349	3306

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CANDELA TABULATION - (Cont.)

82.5	1264	1501	1705	1930	2112	2221	2398	2521	2572	2520
85.0	721	877	1018	1202	1388	1490	1647	1800	1748	1675
87.5	276	333	371	490	616	688	816	944	862	764
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	25211	25211	25211	25211	25211	25211	25211	25211	25211	25211
2.5	25125	25187	25247	25202	25153	25170	25259	25339	25273	25148
5.0	25034	25090	25147	25108	25058	25074	25164	25239	25173	25051
7.5	24870	24923	24982	24941	24890	24911	24998	25070	25003	24881
10.0	24634	24685	24741	24699	24649	24666	24752	24824	24759	24643
12.5	24324	24378	24427	24386	24340	24348	24430	24498	24440	24327
15.0	23937	23996	24045	24012	23986	23967	24052	24116	24050	23961
17.5	23595	23651	23700	23664	23631	23596	23680	23732	23643	23633
20.0	23135	23193	23246	23230	23185	23179	23249	23308	23250	23155
22.5	22543	22593	22650	22649	22598	22585	22641	22707	22651	22563
25.0	21894	21942	22007	21997	21937	21934	21977	22030	21968	21898
27.5	21203	21248	21291	21280	21221	21226	21248	21289	21230	21168

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CANDELA TABULATION - (Cont.)

30.0	20470	20510	20526	20512	20457	20451	20466	20492	20439	20389
32.5	19712	19734	19725	19683	19637	19623	19623	19646	19605	19559
35.0	18930	18927	18883	18814	18769	18748	18738	18744	18723	18696
37.5	18129	18112	18021	17934	17867	17837	17821	17801	17784	17788
40.0	17311	17269	17134	17018	16935	16892	16860	16802	16805	16847
42.5	16470	16393	16222	16082	15961	15897	15861	15796	15811	15857
45.0	15626	15499	15310	15134	14972	14879	14847	14775	14790	14850
47.5	14763	14602	14392	14184	13985	13864	13809	13736	13735	13823
50.0	13881	13698	13467	13220	12998	12842	12770	12686	12701	12799
52.5	12979	12789	12543	12264	12014	11826	11732	11647	11673	11794
55.0	12056	11874	11615	11305	11031	10819	10694	10616	10651	10782
57.5	11158	10959	10685	10352	10071	9826	9680	9579	9642	9795
60.0	10273	10064	9761	9430	9129	8854	8685	8583	8649	8836
62.5	9390	9177	8863	8524	8199	7911	7724	7617	7691	7904
65.0	8489	8288	7987	7643	7293	6990	6780	6678	6749	6982
67.5	7585	7383	7110	6781	6416	6093	5856	5776	5841	6117
70.0	6697	6492	6236	5915	5568	5241	4986	4894	4973	5253
72.5	5832	5617	5381	5069	4760	4424	4131	4045	4120	4420
75.0	5011	4792	4539	4254	3965	3637	3329	3229	3329	3646
77.5	4106	3955	3741	3455	3186	2888	2575	2456	2579	2894
80.0	3192	3064	2905	2678	2435	2172	1871	1722	1872	2174
82.5	2387	2245	2069	1904	1715	1494	1247	1096	1257	1502
85.0	1566	1455	1286	1149	1030	879	714	587	718	877
87.5	707	665	543	451	415	358	285	226	282	353
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	25211	25211	25211	25211	25211	25211	25211
2.5	25117	25180	25258	25254	25187	25149	25139
5.0	25021	25081	25160	25163	25087	25050	24955
7.5	24874	24917	25004	25004	24930	24887	24787
10.0	24633	24690	24763	24770	24697	24653	24551
12.5	24324	24379	24445	24455	24374	24331	24237
15.0	23958	24008	24056	24063	23982	23938	23883
17.5	23569	23682	23676	23696	23645	23631	23517
20.0	23174	23209	23243	23261	23178	23139	23042
22.5	22602	22622	22667	22668	22596	22546	22473
25.0	21940	21959	22005	22009	21945	21897	21853
27.5	21211	21241	21275	21283	21243	21195	21174
30.0	20448	20457	20498	20491	20486	20471	20469
32.5	19630	19665	19706	19728	19766	19745	19760
35.0	18768	18825	18857	18948	19014	19010	19008
37.5	17869	17944	17999	18125	18219	18235	18237
40.0	16942	17034	17124	17270	17389	17406	17459
42.5	15961	16089	16202	16398	16520	16560	16633
45.0	14971	15137	15264	15515	15661	15736	15777
47.5	14002	14176	14363	14616	14819	14889	14948
50.0	13016	13227	13467	13756	13956	14028	14101
52.5	12026	12281	12538	12856	13067	13132	13197
55.0	11060	11340	11592	11939	12126	12191	12273
57.5	10108	10382	10663	11006	11197	11258	11370
60.0	9157	9463	9739	10091	10304	10382	10486
62.5	8243	8576	8847	9232	9412	9485	9586
65.0	7351	7677	7976	8358	8557	8605	8662
67.5	6473	6822	7115	7472	7659	7716	7748
70.0	5613	5954	6218	6553	6735	6784	6873
72.5	4798	5096	5352	5663	5850	5904	6030
75.0	4000	4271	4507	4829	5028	5070	5153
77.5	3216	3463	3705	4006	4123	4100	4172
80.0	2466	2704	2864	3091	3193	3221	3238
82.5	1742	1928	2050	2270	2394	2460	2469
85.0	1047	1175	1304	1535	1622	1680	1740
87.5	410	471	540	687	771	807	893
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9158.55	N.A.	13.70
0-30	19258.93	N.A.	28.90
0-40	31044.97	N.A.	46.60
0-60	53055.83	N.A.	79.60
0-80	65302.01	N.A.	97.90
0-90	66670.85	N.A.	100.00
10-90	64288.68	N.A.	96.40
20-40	21886.42	N.A.	32.80
20-50	33649.84	N.A.	50.50
40-70	29696.18	N.A.	44.50
60-80	12246.17	N.A.	18.40
70-80	4560.86	N.A.	6.80
80-90	1368.84	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	66670.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2382.17
10-20	6776.38
20-30	10100.38
30-40	11786.04
40-50	11763.42
50-60	10247.45
60-70	7685.32
70-80	4560.86
80-90	1368.84
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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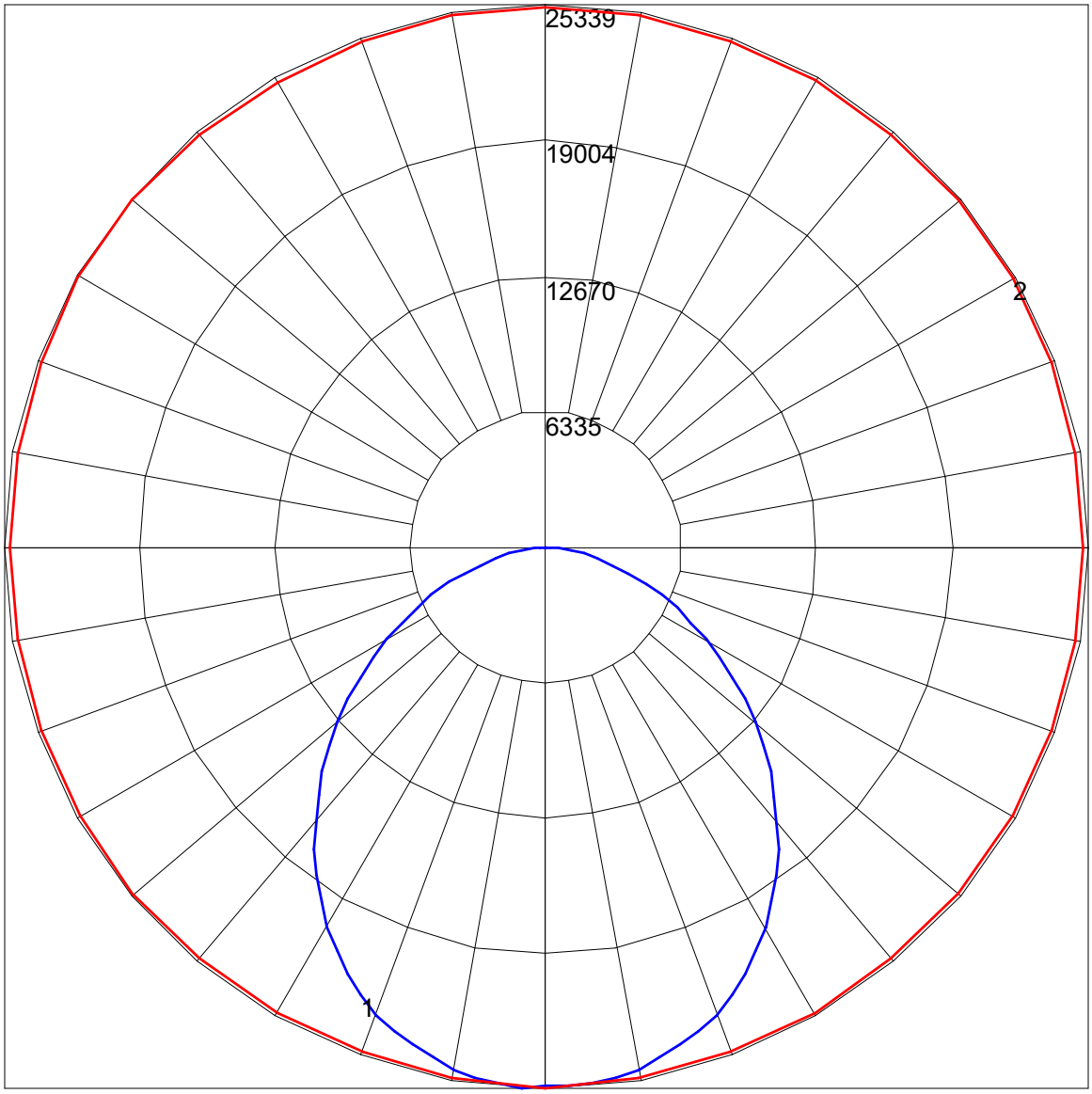
POLAR GRAPH



Maximum Candela = 25339 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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