IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-48L-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-48L-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	42808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	324
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	58250	56303	54754
55	55868	52274	48545
65	53522	48370	41659
75	51953	44467	33054
85	52157	36016	18428

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	16187	16187	16187	16187	16187	16187	16187	16187	16187	16187
2.5	16141	16151	16160	16175	16188	16175	16156	16163	16198	16235
5.0	16023	16044	16076	16112	16150	16119	16082	16102	16153	16209
7.5	15916	15937	15974	16002	16048	16014	15972	15989	16044	16098
10.0	15762	15784	15818	15847	15892	15862	15816	15828	15885	15943
12.5	15561	15583	15614	15641	15684	15656	15612	15622	15676	15736
15.0	15335	15343	15375	15389	15436	15412	15367	15370	15426	15487
17.5	15100	15102	15137	15147	15191	15181	15142	15149	15213	15257
20.0	14794	14838	14858	14892	14931	14914	14870	14870	14918	14970
22.5	14430	14477	14490	14515	14554	14537	14492	14493	14534	14595
25.0	14031	14066	14078	14091	14128	14117	14068	14066	14108	14165
27.5	13596	13622	13623	13637	13664	13657	13606	13606	13642	13694
30.0	13143	13158	13146	13163	13172	13167	13111	13113	13143	13184
32.5	12688	12683	12663	12673	12663	12646	12582	12582	12611	12638
35.0	12204	12212	12173	12163	12135	12092	12021	12019	12038	12060
37.5	11709	11716	11658	11629	11575	11513	11436	11428	11436	11455
40.0	11210	11191	11116	11077	11004	10920	10836	10819	10823	10825
42.5	10680	10649	10581	10522	10432	10321	10221	10189	10181	10177
45.0	10130	10117	10049	9954	9862	9721	9597	9545	9522	9522
47.5	9597	9577	9495	9385	9270	9104	8957	8883	8860	8853
50.0	9054	9017	8930	8809	8669	8484	8313	8224	8196	8179
52.5	8474	8442	8353	8217	8069	7874	7683	7572	7540	7510
55.0	7881	7854	7780	7641	7474	7274	7064	6921	6878	6848
57.5	7300	7282	7205	7074	6888	6675	6454	6288	6218	6191
60.0	6732	6712	6639	6501	6301	6078	5845	5666	5584	5551
62.5	6154	6130	6056	5913	5716	5490	5250	5064	4962	4932
65.0	5563	5536	5465	5314	5140	4915	4669	4478	4355	4330
67.5	4975	4952	4892	4741	4574	4362	4108	3910	3770	3741
70.0	4414	4390	4326	4181	4017	3814	3569	3359	3202	3175
72.5	3873	3856	3782	3631	3472	3272	3041	2832	2655	2632
75.0	3307	3310	3244	3096	2925	2736	2528	2320	2139	2104
77.5	2679	2690	2643	2528	2387	2216	2028	1834	1649	1599
80.0	2079	2087	2011	1928	1832	1705	1543	1374	1205	1137
82.5	1585	1573	1494	1396	1289	1198	1075	943	803	730
85.0	1118	1098	1016	914	821	723	627	546	456	395
87.5	573	548	481	411	357	284	242	211	178	154
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	16187	16187	16187	16187	16187	16187	16187	16187	16187	16187
2.5	16214	16151	16132	16178	16222	16220	16180	16151	16083	16102
5.0	16168	16087	16056	16107	16166	16150	16115	16088	16023	16034
7.5	16053	15970	15942	15994	16058	16039	15997	15984	15921	15932
10.0	15887	15808	15781	15835	15897	15879	15847	15823	15764	15783
12.5	15686	15603	15578	15639	15701	15676	15641	15625	15560	15582
15.0	15441	15359	15337	15397	15456	15429	15397	15380	15340	15330
17.5	15230	15157	15149	15223	15225	15178	15124	15191	15117	15117
20.0	14919	14848	14834	14906	14946	14906	14892	14865	14812	14823
22.5	14527	14461	14453	14527	14566	14534	14520	14492	14436	14442
25.0	14100	14039	14032	14108	14140	14098	14100	14073	14016	14027
27.5	13632	13579	13572	13633	13676	13630	13642	13622	13572	13589
30.0	13123	13082	13077	13145	13196	13151	13168	13156	13119	13145
32.5	12581	12550	12557	12626	12692	12663	12688	12697	12658	12678
35.0	12013	11991	12001	12080	12158	12155	12192	12229	12195	12180
37.5	11421	11408	11411	11503	11590	11614	11671	11722	11696	11671
40.0	10798	10798	10803	10909	11007	11053	11129	11188	11164	11159
42.5	10150	10162	10187	10313	10434	10492	10581	10649	10627	10630
45.0	9486	9510	9554	9704	9867	9946	10044	10112	10105	10098
47.5	8829	8849	8920	9098	9282	9389	9493	9571	9572	9564
50.0	8160	8196	8283	8483	8669	8799	8913	9008	9020	8998
52.5	7501	7545	7651	7866	8072	8197	8329	8422	8440	8417
55.0	6843	6906	7036	7261	7482	7629	7761	7835	7844	7822
57.5	6193	6269	6431	6672	6891	7058	7175	7275	7251	7244
60.0	5559	5656	5820	6068	6308	6482	6615	6709	6677	6672
62.5	4936	5064	5238	5487	5716	5901	6031	6124	6114	6102
65.0	4335	4474	4657	4920	5137	5299	5441	5529	5542	5524
67.5	3748	3901	4096	4362	4573	4728	4865	4954	4963	4932
70.0	3192	3353	3560	3826	4027	4172	4319	4400	4380	4348
72.5	2650	2830	3035	3263	3490	3624	3773	3863	3836	3809
75.0	2136	2327	2526	2743	2947	3098	3251	3334	3322	3282
77.5	1648	1844	2021	2221	2427	2555	2668	2716	2739	2699
80.0	1205	1393	1543	1732	1894	1952	2047	2117	2151	2122

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CANDELA TABULATION - (Cont.)

82.5	811	963	1095	1239	1357	1425	1539	1619	1651	1619
85.0	463	563	654	772	892	957	1058	1155	1123	1076
87.5	178	213	238	316	395	441	525	607	553	492
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	16187	16187	16187	16187	16187	16187	16187	16187	16187	16187
2.5	16132	16171	16210	16182	16150	16161	16219	16269	16227	16146
5.0	16075	16110	16146	16122	16090	16100	16156	16205	16163	16085
7.5	15969	16002	16041	16014	15982	15996	16051	16097	16055	15975
10.0	15816	15850	15885	15858	15826	15838	15892	15938	15897	15823
12.5	15619	15652	15684	15659	15629	15634	15686	15730	15693	15620
15.0	15369	15407	15439	15418	15401	15389	15443	15485	15443	15386
17.5	15151	15186	15218	15195	15173	15151	15205	15238	15181	15174
20.0	14855	14892	14926	14916	14887	14882	14928	14966	14928	14867
22.5	14473	14507	14544	14542	14509	14500	14537	14579	14544	14487
25.0	14058	14088	14130	14123	14086	14083	14111	14145	14105	14061
27.5	13613	13644	13670	13664	13625	13628	13644	13669	13630	13592

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CANDELA TABULATION - (Cont.)

30.0	13143	13170	13180	13172	13135	13131	13141	13158	13124	13091
32.5	12656	12670	12665	12638	12609	12599	12599	12614	12587	12559
35.0	12155	12151	12125	12080	12051	12038	12031	12036	12021	12004
37.5	11641	11629	11572	11514	11473	11453	11443	11430	11419	11421
40.0	11116	11087	11002	10926	10874	10846	10826	10789	10791	10818
42.5	10576	10526	10416	10326	10247	10208	10184	10142	10152	10182
45.0	10033	9951	9830	9718	9613	9554	9534	9486	9497	9535
47.5	9480	9376	9242	9108	8980	8902	8866	8819	8819	8876
50.0	8913	8796	8647	8488	8344	8246	8199	8145	8155	8217
52.5	8333	8211	8055	7874	7714	7592	7533	7479	7495	7572
55.0	7741	7624	7458	7259	7082	6947	6866	6816	6840	6923
57.5	7165	7038	6861	6646	6465	6310	6216	6151	6191	6289
60.0	6597	6462	6268	6055	5862	5684	5578	5510	5554	5674
62.5	6029	5892	5691	5473	5264	5079	4960	4890	4939	5074
65.0	5450	5321	5128	4909	4682	4488	4353	4288	4333	4483
67.5	4870	4741	4564	4353	4120	3912	3760	3708	3751	3927
70.0	4300	4169	4005	3799	3576	3366	3202	3143	3194	3373
72.5	3745	3606	3455	3256	3058	2842	2652	2597	2645	2839
75.0	3217	3077	2913	2732	2546	2335	2137	2073	2137	2340
77.5	2636	2540	2403	2217	2045	1854	1653	1576	1656	1857
80.0	2048	1968	1866	1720	1564	1394	1200	1105	1202	1396
82.5	1532	1441	1328	1222	1102	958	801	704	806	963
85.0	1006	934	826	738	662	565	458	377	461	563
87.5	454	427	348	290	267	230	183	144	181	226
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	16187	16187	16187	16187	16187	16187	16187
2.5	16127	16166	16219	16215	16171	16148	16141
5.0	16065	16105	16155	16156	16108	16085	16023
7.5	15970	15999	16055	16055	16007	15980	15916
10.0	15816	15853	15901	15906	15858	15830	15762
12.5	15619	15654	15696	15703	15651	15622	15561
15.0	15382	15414	15446	15451	15399	15370	15335
17.5	15134	15206	15201	15215	15183	15173	15100
20.0	14879	14902	14923	14936	14882	14858	14794
22.5	14512	14525	14554	14554	14509	14475	14430
25.0	14088	14100	14128	14132	14091	14059	14031
27.5	13618	13638	13660	13665	13640	13608	13596
30.0	13129	13136	13161	13158	13155	13145	13143
32.5	12604	12626	12653	12667	12692	12678	12688
35.0	12051	12087	12109	12167	12209	12205	12204
37.5	11475	11521	11557	11637	11700	11707	11709
40.0	10877	10936	10995	11089	11164	11176	11210
42.5	10247	10331	10404	10529	10608	10634	10680
45.0	9613	9720	9802	9963	10056	10103	10130
47.5	8990	9103	9221	9384	9515	9561	9597
50.0	8356	8493	8647	8833	8961	9007	9054
52.5	7721	7886	8052	8254	8390	8432	8474
55.0	7101	7280	7443	7666	7787	7829	7881
57.5	6491	6666	6847	7067	7190	7229	7300
60.0	5879	6077	6252	6479	6617	6666	6732
62.5	5292	5507	5681	5928	6043	6090	6154
65.0	4719	4929	5122	5366	5493	5525	5563
67.5	4155	4380	4568	4797	4917	4956	4975
70.0	3604	3824	3993	4208	4324	4356	4414
72.5	3081	3272	3437	3636	3757	3790	3873
75.0	2568	2743	2893	3101	3229	3256	3307
77.5	2065	2222	2379	2572	2647	2634	2679
80.0	1584	1737	1839	1985	2050	2067	2079
82.5	1118	1237	1316	1457	1538	1580	1585
85.0	672	754	836	985	1041	1078	1118
87.5	263	304	347	441	495	518	573
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	5880.56	N.A.	13.70
0-30	12365.81	N.A.	28.90
0-40	19933.43	N.A.	46.60
0-60	34066.3	N.A.	79.60
0-80	41929.27	N.A.	97.90
0-90	42808.14	N.A.	100.00
10-90	41278.59	N.A.	96.40
20-40	14052.87	N.A.	32.80
20-50	21605.98	N.A.	50.50
40-70	19067.42	N.A.	44.50
60-80	7862.97	N.A.	18.40
70-80	2928.42	N.A.	6.80
80-90	878.87	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	42808.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1529.55
10-20	4351.02
20-30	6485.25
30-40	7567.62
40-50	7553.12
50-60	6579.75
60-70	4934.55
70-80	2928.42
80-90	878.87
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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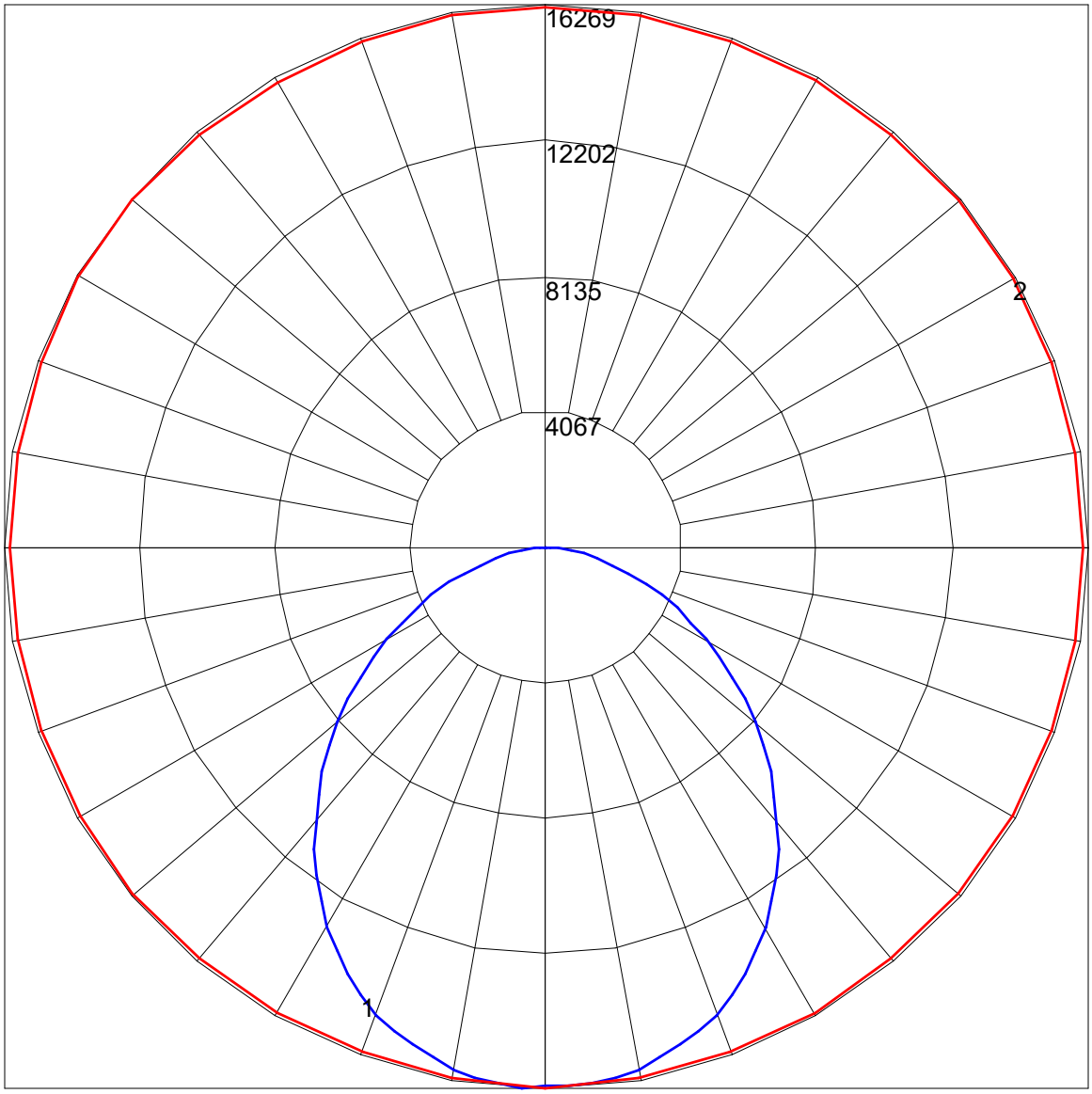
POLAR GRAPH



Maximum Candela = 16269 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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