IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-24L-DPW-50-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3915
[TESTLAB] TUV SUD America
[TESTDATE] 7/20/2020 10:57:09 AM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-01-LED-24L-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	21405
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	162
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.14 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	59469	57267	54305
55	57278	53500	48219
65	54917	50049	41197
75	53728	46753	32457
85	55610	41987	17728

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	8174	8174	8174	8174	8174	8174	8174	8174	8174	8174
2.5	8143	8145	8145	8145	8147	8147	8147	8147	8145	8143
5.0	8139	8134	8126	8116	8122	8128	8130	8128	8112	8108
7.5	8103	8101	8079	8079	8083	8081	8079	8077	8061	8053
10.0	8046	8030	8020	8019	8019	8015	8007	8001	7984	7974
12.5	7964	7933	7932	7932	7928	7922	7912	7901	7883	7870
15.0	7853	7820	7824	7820	7817	7807	7795	7780	7761	7745
17.5	7706	7683	7687	7685	7681	7670	7657	7640	7617	7599
20.0	7541	7526	7530	7530	7524	7510	7497	7475	7449	7428
22.5	7351	7347	7351	7349	7343	7330	7312	7289	7260	7238
25.0	7145	7147	7151	7147	7141	7126	7106	7083	7046	7024
27.5	6924	6931	6931	6926	6918	6900	6881	6852	6816	6791
30.0	6695	6704	6700	6691	6679	6658	6635	6607	6566	6537
32.5	6452	6466	6460	6442	6423	6400	6374	6343	6298	6266
35.0	6204	6219	6208	6187	6160	6129	6100	6062	6015	5982
37.5	5953	5972	5951	5920	5881	5844	5808	5768	5718	5683
40.0	5700	5718	5689	5648	5598	5551	5508	5460	5409	5369
42.5	5440	5460	5421	5371	5314	5250	5194	5144	5091	5054
45.0	5171	5192	5150	5091	5017	4942	4877	4821	4767	4722
47.5	4896	4920	4875	4807	4721	4636	4555	4491	4433	4394
50.0	4613	4644	4596	4520	4421	4326	4236	4165	4103	4060
52.5	4332	4361	4311	4231	4128	4021	3920	3842	3771	3730
55.0	4040	4073	4023	3940	3832	3715	3605	3511	3438	3401
57.5	3744	3780	3734	3650	3540	3413	3293	3192	3114	3072
60.0	3448	3487	3444	3357	3248	3114	2988	2876	2799	2749
62.5	3149	3190	3151	3070	2955	2825	2689	2572	2491	2443
65.0	2854	2897	2854	2780	2668	2534	2399	2276	2188	2141
67.5	2565	2611	2567	2489	2382	2252	2116	1990	1895	1849
70.0	2278	2328	2285	2204	2097	1974	1837	1707	1612	1566
72.5	1996	2047	1996	1922	1814	1697	1570	1441	1335	1287
75.0	1710	1768	1724	1645	1543	1433	1312	1189	1079	1033
77.5	1389	1456	1429	1367	1276	1171	1062	944	833	785
80.0	1081	1139	1114	1068	1004	918	821	714	612	556
82.5	833	874	835	787	728	666	587	501	410	356
85.0	596	650	606	544	483	417	361	297	231	190
87.5	306	385	338	293	250	192	154	125	89	73
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	8174	8174	8174	8174	8174	8174	8174	8174	8174	8174
2.5	8143	8143	8141	8141	8139	8139	8141	8145	8145	8145
5.0	8105	8105	8105	8099	8093	8093	8093	8093	8093	8093
7.5	8049	8046	8040	8036	8030	8026	8032	8028	8026	8028
10.0	7966	7961	7953	7947	7943	7937	7937	7941	7939	7941
12.5	7861	7855	7846	7838	7834	7824	7819	7828	7826	7828
15.0	7733	7726	7716	7706	7699	7687	7677	7693	7691	7693
17.5	7584	7576	7564	7553	7545	7533	7520	7533	7537	7533
20.0	7415	7405	7391	7378	7368	7357	7341	7357	7366	7357
22.5	7218	7211	7195	7182	7172	7160	7147	7162	7178	7162
25.0	7001	6995	6978	6966	6957	6947	6935	6953	6972	6953
27.5	6768	6758	6745	6729	6724	6718	6710	6729	6755	6729
30.0	6518	6508	6491	6481	6477	6479	6477	6497	6526	6497
32.5	6246	6235	6223	6217	6219	6227	6233	6258	6293	6258
35.0	5960	5951	5943	5943	5954	5970	5982	6013	6054	6013
37.5	5664	5652	5648	5656	5677	5704	5727	5766	5811	5766
40.0	5349	5347	5347	5361	5394	5435	5464	5508	5560	5508
42.5	5033	5031	5035	5064	5106	5153	5194	5242	5296	5242
45.0	4706	4706	4721	4759	4815	4873	4920	4967	5025	4967
47.5	4376	4382	4400	4456	4520	4584	4634	4685	4744	4685
50.0	4046	4056	4087	4149	4225	4294	4347	4394	4458	4394
52.5	3720	3730	3773	3848	3930	4002	4060	4103	4171	4103
55.0	3388	3407	3459	3542	3634	3709	3763	3809	3882	3809
57.5	3066	3091	3155	3244	3338	3415	3472	3514	3588	3514
60.0	2753	2784	2856	2947	3047	3126	3184	3223	3293	3223
62.5	2445	2483	2561	2658	2759	2839	2889	2928	2999	2928
65.0	2143	2192	2272	2372	2472	2547	2597	2641	2709	2641
67.5	1847	1903	1994	2095	2190	2262	2320	2359	2424	2359
70.0	1570	1631	1718	1820	1907	1986	2041	2076	2145	2076
72.5	1297	1367	1460	1549	1633	1707	1766	1800	1872	1800
75.0	1043	1118	1208	1289	1367	1439	1491	1512	1587	1512
77.5	804	881	961	1035	1110	1153	1185	1204	1279	1204
80.0	583	660	726	789	835	870	903	930	994	930

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CANDELA TABULATION - (Cont.)

82.5	387	448	501	540	581	627	674	701	763	701
85.0	217	254	281	308	346	383	419	446	534	446
87.5	85	91	97	104	119	129	134	161	244	161
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	8174	8174	8174	8174	8174	8174	8174	8174	8174	8174
2.5	8141	8139	8139	8141	8141	8143	8143	8143	8145	8147
5.0	8093	8093	8093	8099	8105	8105	8105	8108	8112	8128
7.5	8032	8026	8030	8036	8040	8046	8049	8053	8061	8077
10.0	7937	7937	7943	7947	7953	7961	7966	7974	7984	8001
12.5	7819	7824	7834	7838	7846	7855	7861	7870	7883	7901
15.0	7677	7687	7699	7706	7716	7726	7733	7745	7761	7780
17.5	7520	7533	7545	7553	7564	7576	7584	7599	7617	7640
20.0	7341	7357	7368	7378	7391	7405	7415	7428	7449	7475
22.5	7147	7160	7172	7182	7195	7211	7218	7238	7260	7289
25.0	6935	6947	6957	6966	6978	6995	7001	7024	7046	7083
27.5	6710	6718	6724	6729	6745	6758	6768	6791	6816	6852

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CANDELA TABULATION - (Cont.)

30.0	6477	6479	6477	6481	6491	6508	6518	6537	6566	6607
32.5	6233	6227	6219	6217	6223	6235	6246	6266	6298	6343
35.0	5982	5970	5954	5943	5943	5951	5960	5982	6015	6062
37.5	5727	5704	5677	5656	5648	5652	5664	5683	5718	5768
40.0	5464	5435	5394	5361	5347	5347	5349	5369	5409	5460
42.5	5194	5153	5106	5064	5035	5031	5033	5054	5091	5144
45.0	4920	4873	4815	4759	4721	4706	4706	4722	4767	4821
47.5	4634	4584	4520	4456	4400	4382	4376	4394	4433	4491
50.0	4347	4294	4225	4149	4087	4056	4046	4060	4103	4165
52.5	4060	4002	3930	3848	3773	3730	3720	3730	3771	3842
55.0	3763	3709	3634	3542	3459	3407	3388	3401	3438	3511
57.5	3472	3415	3338	3244	3155	3091	3066	3072	3114	3192
60.0	3184	3126	3047	2947	2856	2784	2753	2749	2799	2876
62.5	2889	2839	2759	2658	2561	2483	2445	2443	2491	2572
65.0	2597	2547	2472	2372	2272	2192	2143	2141	2188	2276
67.5	2320	2262	2190	2095	1994	1903	1847	1849	1895	1990
70.0	2041	1986	1907	1820	1718	1631	1570	1566	1612	1707
72.5	1766	1707	1633	1549	1460	1367	1297	1287	1335	1441
75.0	1491	1439	1367	1289	1208	1118	1043	1033	1079	1189
77.5	1185	1153	1110	1035	961	881	804	785	833	944
80.0	903	870	835	789	726	660	583	556	612	714
82.5	674	627	581	540	501	448	387	356	410	501
85.0	419	383	346	308	281	254	217	190	231	297
87.5	134	129	119	104	97	91	85	73	89	125
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	8174	8174	8174	8174	8174	8174	8174
2.5	8147	8147	8147	8145	8145	8145	8143
5.0	8130	8128	8122	8116	8126	8134	8139
7.5	8079	8081	8083	8079	8079	8101	8103
10.0	8007	8015	8019	8019	8020	8030	8046
12.5	7912	7922	7928	7932	7932	7933	7964
15.0	7795	7807	7817	7820	7824	7820	7853
17.5	7657	7670	7681	7685	7687	7683	7706
20.0	7497	7510	7524	7530	7530	7526	7541
22.5	7312	7330	7343	7349	7351	7347	7351
25.0	7106	7126	7141	7147	7151	7147	7145
27.5	6881	6900	6918	6926	6931	6931	6924
30.0	6635	6658	6679	6691	6700	6704	6695
32.5	6374	6400	6423	6442	6460	6466	6452
35.0	6100	6129	6160	6187	6208	6219	6204
37.5	5808	5844	5881	5920	5951	5972	5953
40.0	5508	5551	5598	5648	5689	5718	5700
42.5	5194	5250	5314	5371	5421	5460	5440
45.0	4877	4942	5017	5091	5150	5192	5171
47.5	4555	4636	4721	4807	4875	4920	4896
50.0	4236	4326	4421	4520	4596	4644	4613
52.5	3920	4021	4128	4231	4311	4361	4332
55.0	3605	3715	3832	3940	4023	4073	4040
57.5	3293	3413	3540	3650	3734	3780	3744
60.0	2988	3114	3248	3357	3444	3487	3448
62.5	2689	2825	2955	3070	3151	3190	3149
65.0	2399	2534	2668	2780	2854	2897	2854
67.5	2116	2252	2382	2489	2567	2611	2565
70.0	1837	1974	2097	2204	2285	2328	2278
72.5	1570	1697	1814	1922	1996	2047	1996
75.0	1312	1433	1543	1645	1724	1768	1710
77.5	1062	1171	1276	1367	1429	1456	1389
80.0	821	918	1004	1068	1114	1139	1081
82.5	587	666	728	787	835	874	833
85.0	361	417	483	544	606	650	596
87.5	154	192	250	293	338	385	306
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	2955.86	N.A.	13.80
0-30	6197.53	N.A.	29.00
0-40	9980.32	N.A.	46.60
0-60	17048.86	N.A.	79.70
0-80	20970.23	N.A.	98.00
0-90	21404.51	N.A.	100.00
10-90	20634.3	N.A.	96.40
20-40	7024.45	N.A.	32.80
20-50	10801.74	N.A.	50.50
40-70	9533.87	N.A.	44.50
60-80	3921.38	N.A.	18.30
70-80	1456.05	N.A.	6.80
80-90	434.28	N.A.	2.00
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	21404.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	770.21
10-20	2185.65
20-30	3241.67
30-40	3782.79
40-50	3777.29
50-60	3291.25
60-70	2465.33
70-80	1456.05
80-90	434.28
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	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	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	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	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	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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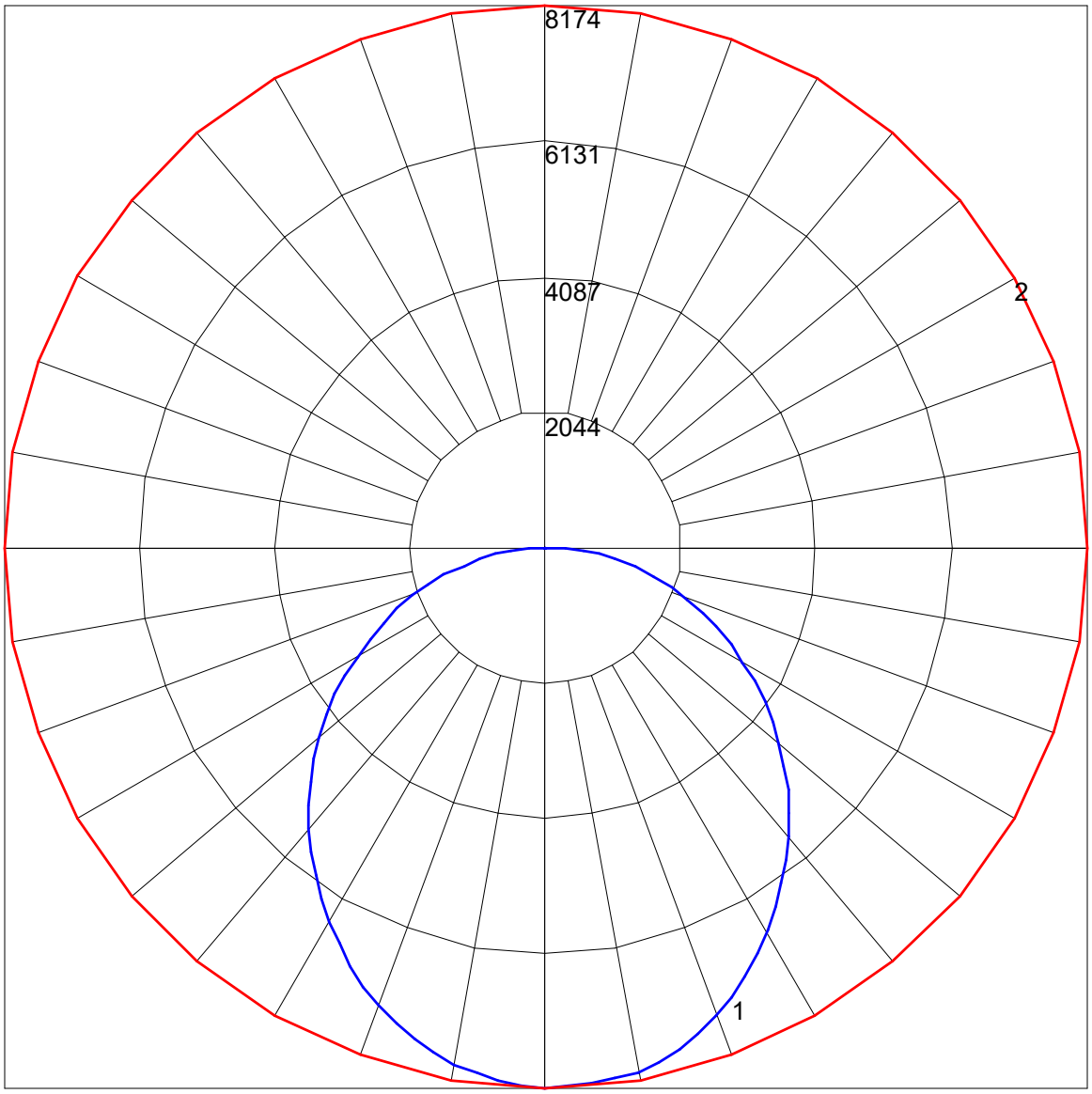
POLAR GRAPH



Maximum Candela = 8174 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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