

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LED-DLJBX-1RG-7W-5CCT-WH-R 3500K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-DLJBX-1RG-7W-5CCT-WH-R
[TESTLAB] EVERFINE
[TESTDATE] 2022-06-21
[ISSUEDATE] 2022-06-21 13:57:39
[NEARFIELD]
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-SPEX500_V1 SYSTEM
[MANUFAC] ENVISION LED LIGHTING
[LUMINAIRE] LED-DLJBX-1RG-7W-5CCT-WH-R 3500K

CHARACTERISTICS

Lumens Per Lamp	550.64 (1 lamp)
Total Lamp Lumens	550.64
Luminaire Lumens	551
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	6.83976
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.08 ft (Diameter)
Luminous Width (90-270)	0.08 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	102812	105838	97251
55	49213	50205	47273
65	33791	33613	32490
75	25402	25509	24153
85	933	3387	16594

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	875.450	875.450	875.450	875.450	875.450	875.450	875.450	875.450	875.450	875.450
1	873.540	872.670	872.170	871.660	872.780	870.630	872.590	872.750	875.650	875.410
2	871.340	868.830	867.270	867.900	865.940	864.730	867.410	869.480	872.200	874.860
3	865.850	862.290	859.560	859.090	858.460	856.510	860.510	862.330	868.110	871.750
4	858.480	854.030	849.330	847.820	846.560	846.140	851.830	854.550	862.680	866.670
5	849.270	842.430	837.060	835.680	833.200	833.080	838.280	843.450	852.720	859.040
6	837.040	828.710	823.310	820.740	819.320	816.750	823.120	830.740	841.900	848.670
7	823.020	812.550	806.280	803.390	802.000	799.720	807.110	815.560	827.950	837.220
8	805.830	794.500	786.780	783.880	780.500	780.220	788.420	798.750	812.500	823.440
9	788.860	773.850	764.060	762.230	758.700	758.970	769.310	779.420	795.600	807.890
10	766.750	751.410	740.110	739.450	737.060	736.860	747.580	759.160	778.080	791.930
11	745.190	728.300	715.600	714.410	711.820	713.280	724.220	736.920	757.340	773.860
12	721.020	704.110	689.970	688.360	686.550	688.400	698.090	713.750	733.120	751.920
13	696.910	678.540	663.470	661.920	661.930	661.650	671.340	687.730	708.830	727.860
14	672.130	652.470	636.470	636.150	635.470	635.530	644.750	660.650	680.990	701.200
15	645.620	626.190	609.390	609.180	610.230	607.890	616.830	633.700	652.790	671.560
16	618.840	600.290	583.370	583.400	582.900	580.800	588.100	603.430	623.820	641.700
17	592.090	574.050	558.310	557.570	556.420	553.190	559.000	572.500	593.880	610.510
18	566.110	548.060	534.570	531.890	530.500	526.330	530.260	542.280	562.330	577.060
19	539.370	523.440	509.920	506.880	503.930	499.240	501.760	511.350	530.840	544.120
20	512.810	497.780	485.240	482.140	477.150	472.280	475.190	482.140	498.490	510.150
21	487.420	474.070	460.790	457.940	452.460	444.890	448.220	453.660	468.380	477.770
22	462.100	450.290	436.580	433.890	427.600	419.220	421.830	425.530	436.880	445.970
23	436.910	426.310	412.220	410.820	403.110	392.680	394.490	397.510	406.640	415.150
24	412.370	401.840	387.840	386.870	378.420	366.280	367.620	368.580	376.220	384.510
25	386.240	376.550	363.930	362.360	353.250	339.990	339.620	338.640	346.210	353.840
26	360.480	351.060	340.270	338.050	328.150	314.830	311.210	309.770	314.830	320.640
27	333.010	325.360	317.450	313.640	302.940	291.010	285.000	281.610	284.380	288.190
28	306.740	301.210	295.590	290.690	279.660	268.160	259.990	253.070	254.810	257.060
29	282.050	277.550	273.750	268.420	256.020	244.540	232.460	223.880	225.230	226.620
30	257.370	253.650	251.870	245.270	232.360	218.100	205.190	195.500	198.430	198.700
31	231.910	229.730	229.460	222.090	206.260	190.260	177.340	170.800	174.260	175.110
32	204.480	205.210	203.860	196.350	180.410	164.260	154.590	150.060	152.420	154.410
33	177.180	179.090	177.110	171.350	155.660	141.320	134.210	131.500	135.290	137.450
34	152.280	154.130	151.250	147.200	133.220	122.380	117.480	115.110	120.000	122.030
35	130.160	130.330	128.680	124.910	115.280	107.770	103.360	102.730	106.100	108.350
36	111.990	112.070	109.360	108.530	101.130	93.230	91.413	90.356	92.285	93.361
37	98.381	96.881	96.426	94.332	88.180	82.783	81.272	78.482	79.021	80.412
38	84.798	84.662	83.544	82.902	78.066	73.203	70.959	66.843	66.821	66.813
39	74.539	74.402	73.360	73.199	69.104	64.399	60.723	56.971	56.015	56.326
40	65.815	66.145	65.219	65.275	61.378	55.790	52.600	48.492	47.353	46.535
41	57.703	58.633	57.826	57.791	53.506	48.161	45.270	41.929	40.342	40.342
42	49.867	50.741	50.736	50.267	46.337	42.001	39.891	36.944	35.125	34.374
43	43.221	44.819	44.511	44.022	40.498	37.107	35.596	33.059	31.142	30.236
44	38.025	39.129	39.278	38.657	35.899	33.361	32.080	29.798	27.820	26.890
45	33.981	35.135	34.981	34.503	32.143	30.139	28.920	26.934	24.932	23.858
46	30.624	31.554	31.546	31.003	29.047	27.256	26.219	24.313	22.640	21.403
47	27.671	28.627	28.503	27.976	26.337	24.744	23.972	22.144	20.348	19.450
48	25.093	25.895	25.837	25.344	23.883	22.460	21.725	20.128	18.562	17.764
49	22.690	23.564	23.385	23.063	21.690	20.367	19.486	18.370	17.077	16.347
50	20.523	21.234	21.254	20.784	19.499	18.432	17.781	16.945	15.824	15.258
51	18.613	19.175	19.277	18.793	17.648	16.747	16.309	15.707	14.764	14.315
52	16.830	17.320	17.418	16.992	16.033	15.358	15.031	14.595	13.831	13.460
53	15.354	15.712	15.857	15.508	14.714	14.194	13.903	13.571	12.938	12.665

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CANDELA TABULATION - (Cont.)

54	14.196	14.450	14.569	14.274	13.630	13.165	12.914	12.642	12.130	11.916
55	13.194	13.383	13.460	13.232	12.674	12.280	12.024	11.805	11.379	11.167
56	12.270	12.440	12.493	12.319	11.828	11.464	11.191	10.969	10.670	10.476
57	11.460	11.585	11.637	11.477	11.035	10.648	10.416	10.200	9.982	9.825
58	10.650	10.786	10.782	10.690	10.303	9.905	9.649	9.498	9.368	9.230
59	9.936	10.052	10.024	9.931	9.577	9.185	8.998	8.896	8.835	8.697
60	9.223	9.329	9.265	9.188	8.876	8.580	8.429	8.346	8.355	8.236
61	8.577	8.644	8.566	8.526	8.269	8.021	7.926	7.871	7.895	7.815
62	8.026	8.026	7.981	7.949	7.759	7.545	7.481	7.421	7.453	7.386
63	7.516	7.517	7.457	7.448	7.302	7.135	7.037	6.943	6.954	6.895
64	7.102	7.091	7.042	7.036	6.885	6.680	6.534	6.378	6.375	6.348
65	6.675	6.688	6.640	6.619	6.418	6.145	5.969	5.765	5.755	5.752
66	6.194	6.213	6.162	6.130	5.905	5.594	5.372	5.208	5.213	5.216
67	5.681	5.709	5.670	5.645	5.406	5.079	4.880	4.762	4.786	4.804
68	5.182	5.222	5.196	5.154	4.957	4.694	4.533	4.426	4.441	4.449
69	4.758	4.813	4.812	4.803	4.632	4.397	4.234	4.126	4.135	4.150
70	4.459	4.515	4.518	4.503	4.339	4.099	3.939	3.827	3.843	3.849
71	4.166	4.212	4.216	4.203	4.042	3.809	3.643	3.543	3.555	3.554
72	3.884	3.930	3.923	3.910	3.750	3.522	3.364	3.266	3.271	3.275
73	3.608	3.646	3.643	3.620	3.463	3.244	3.092	2.999	3.003	3.005
74	3.337	3.378	3.357	3.342	3.192	2.974	2.825	2.647	2.578	2.749
75	3.073	3.102	3.086	3.066	2.922	2.708	2.571	2.149	2.056	2.500
76	2.746	2.790	2.827	2.805	2.664	2.461	2.324	1.637	1.525	2.150
77	2.341	2.410	2.572	2.545	2.409	2.222	2.091	1.155	1.017	1.703
78	1.929	2.024	2.316	2.299	2.170	1.986	1.842	0.714	0.554	1.230
79	1.518	1.629	2.005	2.059	1.936	1.760	1.564	0.361	0.173	0.787
80	1.129	1.245	1.666	1.825	1.707	1.537	1.272	0.161	0.012	0.403
81	0.762	0.871	1.314	1.603	1.490	1.328	0.979	0.093	0.009	0.133
82	0.434	0.533	0.978	1.388	1.276	1.099	0.697	0.054	0.010	0.056
83	0.157	0.242	0.656	1.174	1.071	0.854	0.429	0.012	0.009	0.030
84	0.036	0.043	0.370	0.927	0.874	0.600	0.186	0.003	0.006	0.010
85	0.038	0.026	0.138	0.675	0.676	0.352	0.023	0.006	0.000	0.002
86	0.036	0.031	0.028	0.446	0.497	0.144	0.001	0.002	0.000	0.003
87	0.032	0.031	0.023	0.261	0.313	0.024	0.002	0.000	0.000	0.000
88	0.028	0.026	0.022	0.109	0.142	0.001	0.000	0.001	0.000	0.002
89	0.027	0.024	0.023	0.018	0.010	0.004	0.000	0.001	0.000	0.002
90	0.027	0.024	0.024	0.018	0.004	0.003	0.002	0.001	0.002	0.003

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	875.450	875.450	875.450	875.450	875.450	875.450	875.450
1	876.370	876.530	877.090	875.460	877.350	874.470	873.540
2	876.180	878.040	878.210	876.310	878.060	874.330	871.340
3	874.890	876.520	877.340	876.630	874.990	871.260	865.850
4	871.040	872.410	874.240	872.600	870.770	864.400	858.480
5	865.400	867.520	869.000	868.980	863.660	856.070	849.270
6	857.670	859.100	862.640	861.180	856.430	847.240	837.040
7	847.170	849.320	851.800	852.440	845.630	835.490	823.020
8	834.150	837.410	840.310	839.890	833.340	821.950	805.830
9	820.560	824.140	827.570	826.610	819.910	805.530	788.860
10	805.680	809.360	812.020	812.660	802.740	786.850	766.750
11	789.210	792.880	796.270	795.220	782.610	765.400	745.190
12	770.550	775.160	777.470	776.510	761.460	743.690	721.020
13	748.770	754.730	757.340	754.970	739.730	720.520	696.910
14	724.430	730.890	734.220	730.900	714.880	695.110	672.130

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CANDELA TABULATION - (Cont.)

15	697.580	706.130	709.770	705.830	688.760	669.450	645.620
16	667.710	677.720	681.440	678.730	662.280	642.590	618.840
17	637.330	647.000	651.260	650.890	634.860	614.370	592.090
18	606.410	614.980	619.320	621.140	605.340	587.660	566.110
19	573.550	582.940	587.260	590.940	576.200	558.960	539.370
20	539.590	549.800	555.800	559.590	547.150	531.310	512.810
21	505.760	517.110	523.930	527.150	518.210	503.880	487.420
22	470.900	483.980	491.550	495.380	488.200	476.790	462.100
23	437.760	452.010	460.440	464.250	460.350	449.880	436.910
24	404.540	419.540	428.030	433.400	432.740	422.910	412.370
25	372.580	386.590	395.640	402.680	403.850	395.080	386.240
26	338.430	350.700	362.260	371.900	373.890	367.060	360.480
27	305.770	316.100	327.850	340.660	343.970	338.950	333.010
28	274.870	282.570	295.120	311.610	316.000	312.670	306.740
29	244.460	250.610	262.200	282.340	288.330	286.720	282.050
30	214.050	220.900	232.290	252.400	260.500	261.480	257.370
31	188.560	194.220	203.640	222.520	230.610	233.200	231.910
32	165.810	171.850	180.370	196.050	201.910	204.940	204.480
33	146.950	152.310	159.610	172.490	176.810	177.290	177.180
34	131.580	135.590	141.850	151.920	155.030	153.050	152.280
35	116.070	120.380	125.820	134.280	135.800	132.440	130.160
36	101.380	105.640	110.540	118.760	120.260	114.800	111.990
37	86.714	90.900	96.988	105.320	107.150	100.450	98.381
38	72.825	76.577	83.462	92.055	94.057	88.087	84.798
39	60.264	63.417	69.577	79.110	81.970	77.734	74.539
40	50.393	52.970	58.845	67.398	70.579	68.182	65.815
41	42.519	44.423	48.799	57.049	61.042	58.888	57.703
42	36.177	37.836	41.878	48.427	51.335	50.678	49.867
43	31.326	32.819	36.084	41.642	44.430	43.535	43.221
44	27.503	28.533	31.520	36.126	38.240	37.895	38.025
45	24.249	25.169	27.715	31.623	33.578	33.593	33.981
46	21.849	22.283	24.429	27.885	29.765	30.143	30.624
47	19.449	20.032	21.724	24.765	26.388	27.092	27.671
48	17.678	18.109	19.604	22.259	23.409	24.435	25.093
49	16.264	16.620	17.848	19.758	21.019	22.143	22.690
50	15.168	15.410	16.455	17.881	18.951	19.853	20.523
51	14.275	14.452	15.241	16.346	17.161	17.994	18.613
52	13.418	13.570	14.244	15.163	15.742	16.363	16.830
53	12.633	12.743	13.332	14.128	14.617	15.063	15.354
54	11.901	11.938	12.516	13.204	13.639	13.987	14.196
55	11.205	11.198	11.720	12.343	12.736	13.029	13.194
56	10.504	10.476	10.924	11.558	11.920	12.149	12.270
57	9.811	9.779	10.188	10.789	11.104	11.351	11.460
58	9.191	9.148	9.484	10.050	10.364	10.580	10.650
59	8.660	8.608	8.882	9.319	9.656	9.859	9.936
60	8.168	8.109	8.347	8.691	8.983	9.169	9.223
61	7.741	7.676	7.856	8.126	8.399	8.550	8.577
62	7.306	7.259	7.450	7.659	7.861	7.996	8.026
63	6.862	6.830	7.037	7.261	7.428	7.521	7.516
64	6.359	6.346	6.563	6.846	7.007	7.114	7.102
65	5.815	5.820	6.047	6.369	6.588	6.706	6.675
66	5.292	5.278	5.508	5.850	6.066	6.205	6.194
67	4.876	4.893	5.047	5.293	5.504	5.665	5.681
68	4.510	4.526	4.655	4.842	4.985	5.133	5.182
69	4.203	4.220	4.337	4.487	4.595	4.706	4.758
70	3.898	3.912	4.031	4.183	4.302	4.405	4.459

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CANDELA TABULATION - (Cont.)

71	3.601	3.615	3.741	3.888	4.006	4.122	4.166
72	3.321	3.341	3.464	3.602	3.721	3.830	3.884
73	3.047	3.068	3.197	3.335	3.458	3.556	3.608
74	2.783	2.807	2.930	3.077	3.185	3.293	3.337
75	2.541	2.564	2.682	2.820	2.929	3.034	3.073
76	2.304	2.327	2.441	2.582	2.693	2.777	2.746
77	2.075	2.105	2.218	2.346	2.457	2.437	2.341
78	1.853	1.878	1.998	2.121	2.222	2.068	1.929
79	1.644	1.669	1.785	1.908	1.934	1.691	1.518
80	1.398	1.467	1.574	1.698	1.614	1.309	1.129
81	1.137	1.277	1.380	1.497	1.286	0.943	0.762
82	0.871	1.088	1.191	1.303	0.958	0.599	0.434
83	0.609	0.907	1.009	1.079	0.647	0.285	0.157
84	0.353	0.698	0.834	0.829	0.356	0.052	0.036
85	0.112	0.468	0.664	0.581	0.115	0.029	0.038
86	0.001	0.251	0.505	0.351	0.023	0.033	0.036
87	0.001	0.071	0.344	0.172	0.019	0.030	0.032
88	0.000	0.002	0.193	0.050	0.021	0.025	0.028
89	0.000	0.003	0.019	0.020	0.024	0.022	0.027
90	0.001	0.003	0.020	0.019	0.021	0.022	0.027

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	258.89	47.00	47.00
0-30	426.03	77.40	77.40
0-40	504.85	91.70	91.70
0-60	541.17	98.30	98.30
0-80	550.22	99.90	99.90
0-90	550.64	100.00	100.00
10-90	471.90	85.70	85.70
20-40	245.96	44.70	44.70
20-50	271.01	49.20	49.20
40-70	42.51	7.70	7.70
60-80	9.05	1.60	1.60
70-80	2.86	0.50	0.50
80-90	0.42	0.10	0.10
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	550.64	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.74
10-20	180.14
20-30	167.15
30-40	78.81
40-50	25.05
50-60	11.28
60-70	6.19
70-80	2.86
80-90	0.42
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-DLJBX-1RG-7W-5CCT-WH-R 3500K.IES

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	64
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	78	69	63	60	77	68	63	60	68	63	59	67	62	59	66	62	59	58
10	75	66	60	57	74	65	60	56	64	60	56	64	59	56	63	59	56	55

IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	17.9	18.9	18.3	19.2	19.5	17.6	18.7	18.0	19.0	19.3
	3H	18.9	19.7	19.2	20.1	20.4	18.6	19.5	19.0	19.8	20.2
	4H	19.2	20.0	19.6	20.4	20.8	19.0	19.8	19.4	20.1	20.5
	6H	19.4	20.1	19.8	20.5	20.9	19.2	20.0	19.6	20.3	20.7
	8H	19.3	20.0	19.8	20.4	20.8	19.3	20.0	19.7	20.4	20.8
	12H	19.3	19.9	19.7	20.3	20.8	19.3	20.0	19.7	20.3	20.8

UGR Viewed Endwise

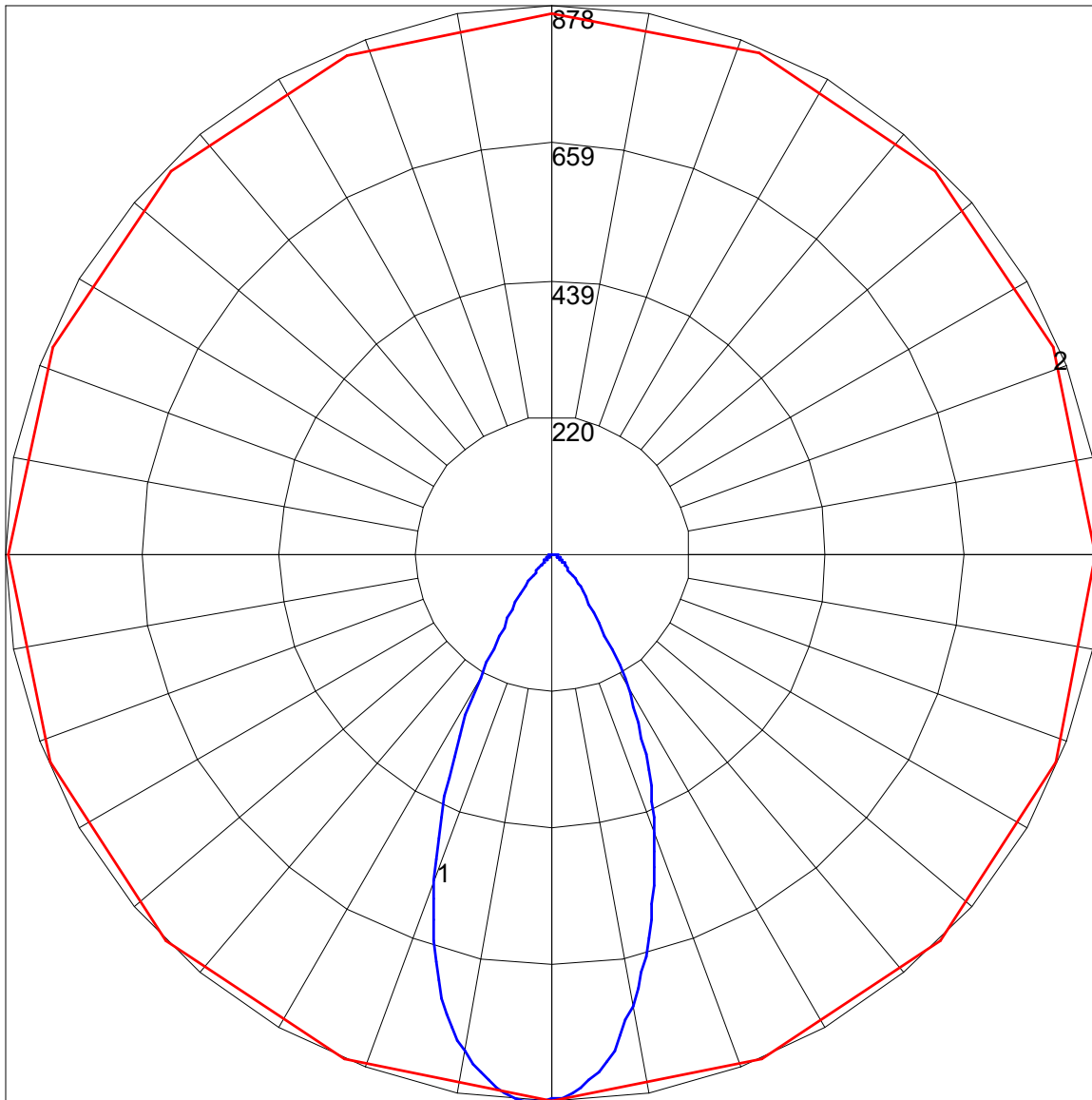
4H	2H	18.2	19.0	18.6	19.3	19.7	17.9	18.7	18.3	19.1	19.5
	3H	19.3	20.0	19.7	20.4	20.8	19.1	19.7	19.5	20.1	20.5
	4H	19.8	20.4	20.2	20.8	21.3	19.5	20.1	20.0	20.5	21.0
	6H	20.0	20.5	20.5	21.0	21.4	19.9	20.4	20.3	20.8	21.3
	8H	20.0	20.4	20.4	20.9	21.4	20.0	20.4	20.4	20.9	21.4
	12H	19.9	20.3	20.4	20.8	21.3	20.0	20.4	20.5	20.9	21.4

8H	4H	19.9	20.4	20.4	20.8	21.3	19.6	20.1	20.1	20.5	21.0
	6H	20.2	20.5	20.7	21.0	21.5	20.0	20.4	20.5	20.9	21.4
	8H	20.1	20.5	20.7	21.0	21.5	20.2	20.5	20.7	21.0	21.5
	12H	20.1	20.4	20.6	20.9	21.5	20.3	20.6	20.8	21.1	21.7

12H	4H	19.9	20.3	20.3	20.8	21.2	19.6	20.0	20.0	20.5	20.9
	6H	20.1	20.5	20.7	21.0	21.5	20.0	20.3	20.5	20.8	21.4
	8H	20.2	20.4	20.7	20.9	21.5	20.2	20.5	20.7	21.0	21.6

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 878.21 Located At Horizontal Angle = 270, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)