



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VW4-LED23DMVSSF40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000535-001
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] VW4-LED23DMVSSF40
 [LUMINAIRE] Catalog Number: VW4-LED23DMVSSF40
 [MORE] Pendant/surface mounted, white plastic vapor tight housing, white enamel internal reflector
 [MORE] with frosted acrylic lens enclosure
 [MORE] 128 White LEDs
 [MORE] One Universal Lighting Technologies, Everline D10CC55UNVTZ-C LED power supply, output set at 438mA
 [MORE] 120.0Vac, 60.0Hz, 0.1990A, 23.72W, 0.993PF, 8.24%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] Color Temp Lumens Extrapolated from ULT Conversion Chart
 [DATE] This file created: Tuesday, January 19, 2016 4:08:52 PM
 [ISSUE DATE] Tuesday, January 19, 2016 4:08:52 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.28 m
Luminous Width (90-270)	0.15 m
Luminous Height	0.04 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4808	4356	4205
55	4236	3866	3741
65	3452	3186	3019
75	2561	2295	2099
85	1442	1480	1181

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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>
0.0	1083.764	1083.764	1083.764	1083.764	1083.764
0.5	1073.959	1084.265	1085.895	1086.662	1081.909
1.0	1073.693	1083.987	1085.725	1086.588	1081.813
1.5	1073.544	1083.934	1085.543	1086.332	1081.718
2.0	1073.107	1083.529	1085.213	1086.119	1081.483
2.5	1072.744	1083.135	1084.776	1085.682	1081.206
3.0	1072.126	1082.751	1084.382	1085.234	1080.822
3.5	1071.508	1082.069	1083.689	1084.712	1080.236
4.0	1070.879	1081.377	1083.071	1084.083	1079.693
4.5	1069.974	1080.577	1082.304	1083.305	1078.989
5.0	1069.089	1079.714	1081.494	1082.538	1078.393
5.5	1068.087	1078.787	1080.417	1081.686	1077.540
6.0	1066.958	1077.710	1079.469	1080.758	1076.666
6.5	1065.860	1076.602	1078.414	1079.650	1075.643
7.0	1064.538	1075.430	1077.274	1078.467	1074.417
7.5	1063.238	1073.959	1075.952	1077.199	1073.330
8.0	1061.746	1072.680	1074.481	1075.888	1072.041
8.5	1060.222	1071.092	1073.021	1074.460	1070.656
9.0	1058.421	1069.430	1071.455	1072.883	1069.281
9.5	1056.716	1067.789	1069.835	1071.327	1067.831
10.0	1054.873	1065.935	1068.194	1069.664	1066.116
10.5	1052.890	1064.133	1066.276	1067.874	1064.347
11.0	1051.036	1062.130	1064.336	1065.881	1062.578
11.5	1048.809	1060.052	1062.354	1063.878	1060.542
12.0	1046.667	1057.867	1060.169	1061.853	1058.549
12.5	1044.205	1055.576	1057.952	1059.658	1056.588
13.0	1041.892	1053.263	1055.661	1057.313	1054.244
13.5	1039.399	1050.834	1053.327	1055.086	1052.070
14.0	1036.820	1048.340	1050.929	1052.677	1049.747
14.5	1034.091	1045.612	1048.340	1050.088	1047.210
15.0	1031.246	1042.979	1045.676	1047.391	1044.642
15.5	1028.337	1040.091	1042.862	1044.695	1042.052
16.0	1025.374	1037.257	1040.049	1041.796	1039.281
16.5	1022.411	1034.230	1037.129	1039.026	1036.511
17.0	1019.204	1031.171	1034.070	1035.988	1033.676
17.5	1015.761	1027.878	1030.980	1032.908	1030.649
18.0	1012.564	1024.564	1027.772	1029.733	1027.484
18.5	1009.165	1021.207	1024.489	1026.397	1024.362
19.0	1005.541	1017.648	1021.058	1023.040	1021.122
19.5	1001.993	1014.035	1017.584	1019.662	1017.818
20.0	998.263	1010.348	1014.046	1016.198	1014.280
20.5	994.330	1006.490	1010.401	1012.479	1010.731
21.0	990.526	1002.621	1006.756	1008.962	1007.310
21.5	986.582	998.678	1002.962	1005.243	1003.666
22.0	982.362	994.554	998.955	1001.247	999.850
22.5	978.227	990.398	994.916	997.421	996.046
23.0	973.901	986.124	990.813	993.435	992.305
23.5	969.425	981.574	986.614	989.257	988.160
24.0	964.906	977.204	982.330	985.218	984.195
24.5	960.356	972.600	978.068	980.913	980.135
25.0	955.549	967.922	973.602	976.650	975.936
25.5	950.722	963.084	969.137	972.291	971.727
26.0	945.969	958.331	964.533	967.869	967.506
26.5	940.896	953.322	959.844	963.244	963.009

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CANDELA TABULATION - (Cont.)

27.0	935.738	948.249	955.059	958.565	958.533
27.5	930.655	943.198	950.317	953.972	954.025
28.0	925.219	937.859	945.308	949.208	949.475
28.5	919.870	932.647	940.459	944.338	944.871
29.0	914.435	927.202	935.290	939.393	940.161
29.5	908.722	921.660	930.122	934.459	935.312
30.0	902.957	916.108	924.921	929.482	930.388
30.5	897.245	910.428	919.720	924.356	925.539
31.0	891.192	904.534	914.275	918.985	920.328
31.5	885.149	898.716	908.893	913.859	915.213
32.0	879.064	892.705	903.362	908.541	910.076
32.5	872.744	886.588	897.735	903.042	904.651
33.0	866.329	880.407	892.066	897.575	899.078
33.5	860.041	874.140	886.396	891.948	893.643
34.0	853.327	867.704	880.599	886.257	888.154
34.5	846.688	861.352	874.684	880.417	882.282
35.0	839.985	854.873	868.780	874.588	876.602
35.5	832.930	848.127	862.748	868.503	870.538
36.0	825.854	841.445	856.631	862.482	864.602
36.5	818.873	834.656	850.546	856.354	858.571
37.0	811.467	827.687	844.269	850.120	852.294
37.5	804.209	820.738	838.035	843.747	846.123
38.0	796.717	813.662	831.662	837.459	839.782
38.5	789.140	806.490	825.214	830.926	833.271
39.0	781.478	799.424	818.756	824.372	826.909
39.5	773.815	792.039	812.223	817.669	820.365
40.0	765.833	784.654	805.520	810.976	813.641
40.5	757.883	777.172	798.891	804.199	806.842
41.0	749.837	769.776	792.050	797.314	800.277
41.5	741.578	762.125	785.091	790.302	793.286
42.0	733.479	754.462	778.121	783.290	786.242
42.5	725.166	746.736	771.109	776.277	779.453
43.0	716.779	738.978	763.926	768.988	772.355
43.5	708.275	731.038	756.732	761.933	765.364
44.0	699.632	723.077	749.454	754.622	758.288
44.5	691.096	715.085	741.930	747.194	751.020
45.0	682.410	707.103	734.523	739.873	743.933
45.5	673.501	699.003	727.106	732.498	736.718
46.0	664.549	690.776	719.326	724.910	729.312
46.5	655.715	682.560	711.770	717.525	722.065
47.0	646.816	674.354	704.044	710.012	714.840
47.5	637.480	665.892	696.158	702.286	707.358
48.0	628.443	657.590	688.293	694.751	699.899
48.5	619.204	649.150	680.311	687.046	692.364
49.0	609.783	640.603	672.265	679.256	684.638
49.5	600.586	632.088	664.080	671.551	677.018
50.0	591.154	623.520	656.066	663.782	669.345
50.5	581.574	614.781	647.658	655.704	661.395
51.0	572.206	606.085	639.356	647.860	653.615
51.5	562.679	597.506	631.150	639.857	645.729
52.0	553.013	588.586	622.593	631.779	637.715
52.5	543.368	579.773	614.163	623.701	629.605
53.0	533.660	570.959	605.648	615.452	621.644
53.5	523.887	561.912	596.995	607.097	613.364
54.0	514.318	553.024	588.554	598.881	605.211
54.5	504.641	544.114	579.943	590.675	597.005

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CANDELA TABULATION - (Cont.)

55.0	494.709	534.875	571.023	582.011	588.437
55.5	485.064	525.976	562.391	573.720	580.146
56.0	475.174	516.907	553.674	565.247	571.812
56.5	465.306	507.742	544.743	556.583	563.052
57.0	455.683	498.556	535.887	547.972	554.398
57.5	445.964	489.529	527.010	539.266	545.681
58.0	436.116	480.162	517.866	530.420	536.697
58.5	426.301	471.029	508.989	521.660	527.841
59.0	416.635	461.906	500.005	512.730	518.644
59.5	406.938	452.496	490.702	503.586	509.234
60.0	397.336	443.395	481.739	494.645	500.080
60.5	387.702	434.198	472.649	485.512	490.712
61.0	378.153	424.809	463.420	476.016	480.886
61.5	368.562	415.698	454.169	466.777	471.359
62.0	359.216	406.522	445.047	457.398	461.512
62.5	349.667	397.272	435.669	447.743	451.516
63.0	340.417	388.085	426.536	438.173	441.605
63.5	331.209	378.974	417.243	428.507	431.491
64.0	321.969	369.787	407.993	418.543	421.197
64.5	312.826	360.814	398.796	408.888	411.350
65.0	303.970	351.852	389.599	399.147	401.247
65.5	294.922	342.612	380.220	389.023	390.973
66.0	286.087	333.735	370.981	379.176	381.020
66.5	277.370	324.815	361.848	369.457	371.237
67.0	268.567	315.959	352.566	359.567	361.294
67.5	260.212	307.060	343.379	349.795	351.564
68.0	251.804	298.396	334.246	340.203	342.100
68.5	243.299	289.625	325.070	330.474	332.594
69.0	235.179	281.004	316.023	321.159	323.525
69.5	227.101	272.510	306.975	311.941	314.350
70.0	218.991	263.974	297.884	302.616	305.227
70.5	211.051	255.629	289.092	293.835	296.424
71.0	203.325	247.402	280.268	285.085	287.632
71.5	195.535	238.983	271.412	276.197	278.990
72.0	188.149	231.022	262.812	267.821	270.400
72.5	180.700	222.987	254.329	259.381	261.853
73.0	173.283	215.069	245.932	250.994	253.242
73.5	166.153	207.183	237.619	242.862	244.791
74.0	158.917	199.510	229.520	234.550	236.287
74.5	151.958	191.890	221.484	226.536	227.761
75.0	145.170	184.441	213.790	218.692	219.321
75.5	138.392	177.119	206.160	210.795	211.019
76.0	131.689	169.841	198.615	202.835	202.792
76.5	125.209	162.903	191.378	195.151	194.746
77.0	118.740	155.987	184.217	187.510	186.881
77.5	112.410	149.187	177.109	179.986	179.059
78.0	106.218	142.580	170.373	172.675	171.439
78.5	100.059	136.143	163.649	165.610	164.086
79.0	94.144	129.845	156.999	158.427	156.850
79.5	88.251	123.856	150.669	151.713	149.773
80.0	82.688	117.984	144.381	145.052	142.985
80.5	76.933	112.250	138.200	138.552	136.324
81.0	71.540	106.762	132.253	132.232	129.802
81.5	66.244	101.444	126.499	126.200	123.611
82.0	61.097	96.275	120.914	120.136	117.461
82.5	55.981	91.299	115.394	114.477	111.643

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CANDELA TABULATION - (Cont.)

83.0	51.281	86.620	110.140	108.936	106.165
83.5	46.571	81.910	104.876	103.597	100.815
84.0	42.330	77.658	99.995	98.524	95.742
84.5	38.045	73.363	95.188	93.675	90.830
85.0	34.006	69.324	90.563	88.933	86.077
85.5	30.394	65.445	86.162	84.531	81.792
86.0	26.994	61.800	82.016	80.300	77.423
86.5	23.797	58.177	77.892	76.176	73.416
87.0	20.877	54.862	74.055	72.372	69.793
87.5	18.490	51.623	70.432	68.791	66.127
88.0	16.273	48.521	66.894	65.274	62.855
88.5	14.430	45.633	63.537	62.077	59.669
89.0	13.119	42.905	60.393	59.018	56.663
89.5	11.946	40.156	57.409	56.077	53.722
90.0	11.169	37.811	54.511	53.392	51.186
90.5	10.636	35.488	51.910	50.834	48.745
91.0	10.369	33.282	49.278	48.329	46.379
91.5	10.188	31.257	46.955	46.134	44.184
92.0	10.018	29.317	44.642	44.024	42.202
92.5	9.740	27.570	42.511	41.850	40.177
93.0	9.655	25.822	40.443	40.060	38.387
93.5	9.410	24.234	38.557	38.269	36.777
94.0	9.293	22.763	36.735	36.575	35.157
94.5	9.186	21.399	35.104	35.030	33.708
95.0	9.069	20.099	33.484	33.548	32.291
95.5	8.835	18.799	31.971	32.184	30.948
96.0	8.685	17.680	30.458	30.873	29.754
96.5	8.675	16.582	29.190	29.669	28.635
97.0	8.590	15.581	27.857	28.465	27.495
97.5	8.568	14.643	26.632	27.410	26.504
98.0	8.366	13.705	25.524	26.365	25.470
98.5	8.291	12.927	24.330	25.492	24.639
99.0	8.163	12.192	23.275	24.468	23.776
99.5	8.035	11.435	22.124	23.616	22.891
100.0	7.961	10.828	21.197	22.742	22.177
100.5	7.993	10.295	20.131	21.964	21.421
101.0	7.716	9.730	19.151	21.165	20.707
101.5	7.588	9.208	18.330	20.472	20.014
102.0	7.428	8.760	17.414	19.715	19.417
102.5	7.343	8.366	16.625	19.108	18.746
103.0	7.268	7.950	15.932	18.394	18.181
103.5	7.044	7.556	15.165	17.755	17.669
104.0	6.927	7.183	14.515	17.062	17.062
104.5	6.789	6.927	13.737	16.486	16.412
105.0	6.565	6.565	13.087	15.911	16.039
105.5	6.469	6.245	12.533	15.357	15.517
106.0	6.288	6.032	11.936	14.803	15.101
106.5	6.170	5.797	11.424	14.451	14.504
107.0	6.021	5.574	10.838	13.929	14.227
107.5	5.840	5.307	10.348	13.396	13.801
108.0	5.627	5.083	9.890	13.055	13.375
108.5	5.403	4.945	9.453	12.597	12.980
109.0	5.243	4.625	8.973	12.202	12.511
109.5	5.083	4.572	8.611	11.755	12.138
110.0	4.987	4.487	8.195	11.403	11.861
110.5	4.838	4.284	7.737	10.955	11.446

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CANDELA TABULATION - (Cont.)

111.0	4.721	4.178	7.503	10.540	11.158
111.5	4.593	4.103	7.044	10.199	10.753
112.0	4.433	3.996	6.618	9.868	10.433
112.5	4.252	3.964	6.362	9.463	10.177
113.0	4.188	3.837	5.904	9.218	9.858
113.5	4.050	3.783	5.691	8.845	9.453
114.0	3.911	3.677	5.456	8.579	9.261
114.5	3.890	3.591	5.083	8.227	8.888
115.0	3.687	3.527	4.806	7.812	8.622
115.5	3.602	3.421	4.561	7.577	8.291
116.0	3.442	3.325	4.359	7.279	8.259
116.5	3.442	3.240	4.082	7.066	7.897
117.0	3.346	3.154	3.837	6.714	7.652
117.5	3.282	3.080	3.570	6.458	7.321
118.0	3.186	3.080	3.410	6.245	7.066
118.5	3.059	2.941	3.144	5.904	6.852
119.0	3.048	2.941	2.973	5.723	6.597
119.5	2.941	2.803	2.835	5.350	6.330
120.0	2.845	2.760	2.675	5.254	6.138
120.5	2.867	2.718	2.536	4.966	5.936
121.0	2.792	2.696	2.355	4.764	5.680
121.5	2.750	2.632	2.185	4.593	5.350
122.0	2.643	2.579	2.057	4.327	5.169
122.5	2.707	2.515	1.961	4.146	5.083
123.0	2.558	2.451	1.908	3.922	4.732
123.5	2.568	2.440	1.716	3.783	4.551
124.0	2.526	2.334	1.673	3.581	4.433
124.5	2.430	2.377	1.673	3.400	4.284
125.0	2.430	2.313	1.588	3.261	4.018
125.5	2.451	2.281	1.588	3.133	3.837
126.0	2.387	2.217	1.471	2.920	3.773
126.5	2.387	2.238	1.556	2.877	3.613
127.0	2.302	2.217	1.567	2.664	3.410
127.5	2.281	2.142	1.567	2.558	3.186
128.0	2.323	2.153	1.609	2.440	3.059
128.5	2.174	2.163	1.599	2.281	2.963
129.0	2.227	2.057	1.556	2.185	2.803
129.5	2.206	2.110	1.673	2.046	2.696
130.0	2.121	2.067	1.609	1.929	2.547
130.5	2.131	2.014	1.631	1.897	2.526
131.0	2.174	1.993	1.641	1.790	2.227
131.5	2.153	1.982	1.684	1.790	2.185
132.0	2.004	1.961	1.641	1.716	2.057
132.5	1.993	1.886	1.599	1.705	2.025
133.0	1.950	1.940	1.631	1.662	1.876
133.5	1.897	1.833	1.694	1.662	1.876
134.0	1.929	1.886	1.567	1.620	1.769
134.5	1.908	1.854	1.684	1.662	1.662
135.0	1.929	1.886	1.631	1.631	1.705
135.5	1.844	1.833	1.662	1.620	1.641
136.0	1.812	1.833	1.567	1.684	1.620
136.5	1.801	1.769	1.620	1.652	1.620
137.0	1.865	1.790	1.588	1.588	1.652
137.5	1.769	1.705	1.609	1.588	1.535
138.0	1.790	1.705	1.577	1.662	1.599
138.5	1.641	1.684	1.481	1.609	1.577

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CANDELA TABULATION - (Cont.)

139.0	1.790	1.662	1.567	1.577	1.503
139.5	1.748	1.609	1.556	1.567	1.535
140.0	1.641	1.662	1.567	1.577	1.620
140.5	1.641	1.609	1.471	1.513	1.492
141.0	1.673	1.545	1.503	1.513	1.524
141.5	1.673	1.524	1.492	1.513	1.481
142.0	1.599	1.556	1.492	1.471	1.460
142.5	1.492	1.556	1.471	1.535	1.428
143.0	1.599	1.524	1.513	1.503	1.492
143.5	1.524	1.535	1.417	1.417	1.481
144.0	1.492	1.513	1.471	1.481	1.556
144.5	1.439	1.492	1.364	1.471	1.407
145.0	1.535	1.492	1.407	1.417	1.449
145.5	1.428	1.439	1.343	1.460	1.407
146.0	1.417	1.439	1.385	1.396	1.407
146.5	1.396	1.439	1.396	1.385	1.385
147.0	1.460	1.417	1.396	1.375	1.353
147.5	1.385	1.375	1.385	1.311	1.300
148.0	1.481	1.364	1.364	1.364	1.268
148.5	1.375	1.321	1.300	1.343	1.268
149.0	1.353	1.279	1.311	1.321	1.226
149.5	1.247	1.311	1.321	1.311	1.204
150.0	1.258	1.343	1.226	1.215	1.204
150.5	1.236	1.279	1.226	1.162	1.162
151.0	1.215	1.268	1.204	1.172	1.130
151.5	1.215	1.204	1.172	1.151	1.130
152.0	1.236	1.162	1.087	1.044	1.087
152.5	1.183	1.108	1.140	1.119	1.087
153.0	1.172	1.108	1.076	1.108	1.034
153.5	1.002	1.119	1.055	1.012	1.087
154.0	1.055	1.044	1.044	1.055	0.970
154.5	1.098	1.055	0.991	1.002	1.023
155.0	1.012	1.066	1.012	1.002	0.906
155.5	1.012	1.034	0.991	0.917	0.885
156.0	1.066	1.002	1.023	0.948	0.917
156.5	1.002	0.991	0.980	0.991	0.959
157.0	1.044	0.938	0.927	0.895	0.938
157.5	0.948	0.980	0.885	0.938	0.938
158.0	0.927	0.917	0.948	0.885	0.895
158.5	0.927	0.948	0.917	0.927	0.895
159.0	0.917	0.970	0.906	0.885	0.810
159.5	1.002	0.980	0.895	0.917	0.853
160.0	0.959	0.895	0.917	0.885	0.810
160.5	0.895	0.959	0.874	0.821	0.863
161.0	0.938	0.948	0.917	0.885	0.863
161.5	0.799	0.874	0.863	0.853	0.799
162.0	0.842	0.885	0.895	0.789	0.906
162.5	0.895	0.831	0.842	0.831	0.799
163.0	0.895	0.874	0.863	0.810	0.821
163.5	0.895	0.853	0.831	0.821	0.831
164.0	0.895	0.874	0.789	0.853	0.863
164.5	0.885	0.917	0.842	0.789	0.799
165.0	0.821	0.853	0.853	0.831	0.821
165.5	0.895	0.853	0.842	0.821	0.831
166.0	0.906	0.821	0.810	0.767	0.767
166.5	0.810	0.789	0.831	0.746	0.810

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CANDELA TABULATION - (Cont.)

167.0	0.863	0.938	0.831	0.757	0.831
167.5	0.853	0.863	0.778	0.821	0.757
168.0	0.831	0.895	0.746	0.757	0.735
168.5	0.842	0.863	0.789	0.778	0.789
169.0	0.853	0.842	0.821	0.735	0.789
169.5	0.799	0.842	0.799	0.778	0.789
170.0	0.831	0.778	0.778	0.810	0.767
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	397.13	N.A.	12.50
0-30	844.62	N.A.	26.70
0-40	1384.9	N.A.	43.70
0-60	2440.68	N.A.	77.10
0-80	3023.08	N.A.	95.50
0-90	3110.89	N.A.	98.30
10-90	3008.28	N.A.	95.00
20-40	987.77	N.A.	31.20
20-50	1545.67	N.A.	48.80
40-70	1425.34	N.A.	45.00
60-80	582.40	N.A.	18.40
70-80	212.84	N.A.	6.70
80-90	87.81	N.A.	2.80
90-110	43.66	N.A.	1.40
90-120	49.35	N.A.	1.60
90-130	51.80	N.A.	1.60
90-150	54.06	N.A.	1.70
90-180	54.78	N.A.	1.70
110-180	11.13	N.A.	0.40
0-180	3165.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.61
10-20	294.52
20-30	447.49
30-40	540.28
40-50	557.90
50-60	497.87
60-70	369.56
70-80	212.84
80-90	87.81
90-100	30.83
100-110	12.82
110-120	5.70
120-130	2.45
130-140	1.35
140-150	0.90
150-160	0.48
160-170	0.24
170-180	0.00

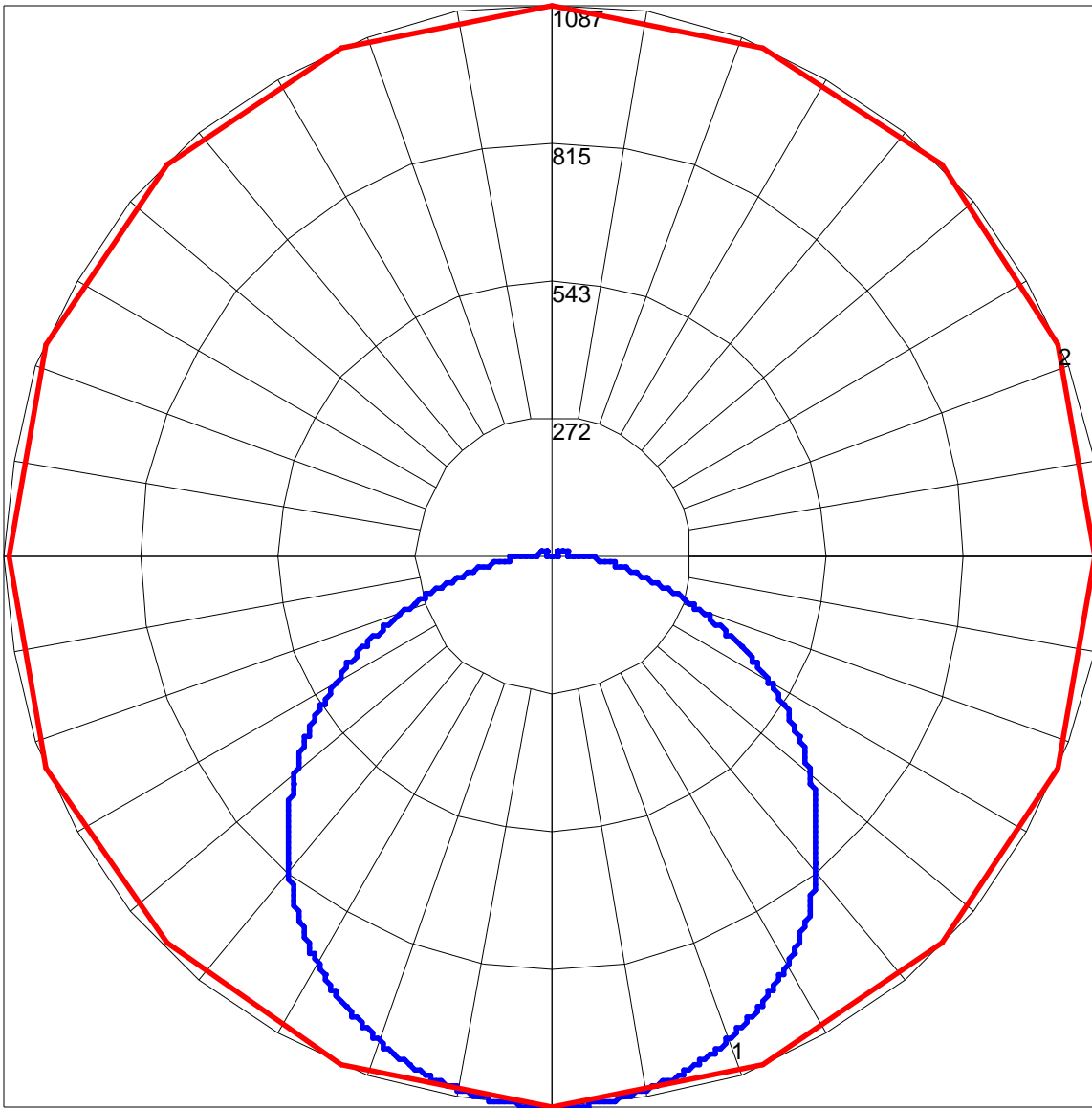
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	80	76	72	77	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	67	55	47	40	53	46	40	51	45	39	49	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 1086.662 Located At Horizontal Angle = 67.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)