



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VW4-LED23DMVSSF50.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-LED23DMVSSF50
 [LUMINAIRE] Catalog Number: VW4-LED23DMVSSF50
 [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] This IES file created by LightLab/LSA Report program version 3.808a.
 [DATE] This file was extrapolated from LLIA000535-001 August 17, 2017
 [ISSUE DATE] Thursday, August 17, 2017

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	5269	4774	4608
55	4643	4237	4100
65	3783	3492	3309
75	2807	2515	2301
85	1581	1622	1295

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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	1187.754	1187.754	1187.754	1187.754	1187.754
0.5	1177.009	1188.303	1190.090	1190.931	1185.722
1.0	1176.717	1187.999	1189.903	1190.849	1185.616
1.5	1176.553	1187.941	1189.704	1190.569	1185.511
2.0	1176.074	1187.497	1189.342	1190.335	1185.254
2.5	1175.677	1187.065	1188.863	1189.856	1184.951
3.0	1175.000	1186.644	1188.431	1189.366	1184.530
3.5	1174.322	1185.897	1187.672	1188.793	1183.888
4.0	1173.633	1185.138	1186.995	1188.104	1183.292
4.5	1172.640	1184.262	1186.154	1187.252	1182.521
5.0	1171.671	1183.316	1185.266	1186.411	1181.867
5.5	1170.573	1182.299	1184.086	1185.476	1180.933
6.0	1169.335	1181.120	1183.047	1184.460	1179.975
6.5	1168.132	1179.905	1181.891	1183.246	1178.854
7.0	1166.684	1178.620	1180.641	1181.949	1177.511
7.5	1165.259	1177.009	1179.193	1180.559	1176.320
8.0	1163.624	1175.607	1177.581	1179.123	1174.906
8.5	1161.954	1173.867	1175.981	1177.558	1173.388
9.0	1159.980	1172.045	1174.264	1175.829	1171.881
9.5	1158.111	1170.246	1172.489	1174.124	1170.293
10.0	1156.091	1168.214	1170.690	1172.302	1168.412
10.5	1153.918	1166.240	1168.588	1170.340	1166.474
11.0	1151.886	1164.044	1166.462	1168.156	1164.535
11.5	1149.445	1161.767	1164.290	1165.960	1162.304
12.0	1147.097	1159.372	1161.895	1163.741	1160.120
12.5	1144.399	1156.861	1159.466	1161.335	1157.971
13.0	1141.865	1154.327	1156.955	1158.765	1155.401
13.5	1139.132	1151.664	1154.397	1156.324	1153.019
14.0	1136.305	1148.931	1151.769	1153.685	1150.473
14.5	1133.315	1145.941	1148.931	1150.846	1147.693
15.0	1130.197	1143.056	1146.011	1147.891	1144.878
15.5	1127.008	1139.891	1142.928	1144.937	1142.040
16.0	1123.761	1136.784	1139.844	1141.760	1139.003
16.5	1120.515	1133.467	1136.644	1138.723	1135.967
17.0	1116.999	1130.115	1133.292	1135.394	1132.860
17.5	1113.226	1126.506	1129.905	1132.019	1129.543
18.0	1109.723	1122.874	1126.389	1128.538	1126.074
18.5	1105.997	1119.195	1122.792	1124.883	1122.652
19.0	1102.026	1115.294	1119.031	1121.204	1119.101
19.5	1098.136	1111.334	1115.224	1117.501	1115.481
20.0	1094.049	1107.293	1111.346	1113.705	1111.603
20.5	1089.739	1103.065	1107.352	1109.629	1107.714
21.0	1085.569	1098.826	1103.357	1105.775	1103.965
21.5	1081.248	1094.504	1099.199	1101.699	1099.970
22.0	1076.623	1089.984	1094.808	1097.319	1095.789
22.5	1072.091	1085.429	1090.381	1093.126	1091.619
23.0	1067.349	1080.746	1085.885	1088.758	1087.520
23.5	1062.444	1075.758	1081.283	1084.179	1082.976
24.0	1057.492	1070.970	1076.588	1079.753	1078.632
24.5	1052.504	1065.924	1071.916	1075.034	1074.182
25.0	1047.237	1060.797	1067.022	1070.362	1069.580
25.5	1041.946	1055.494	1062.128	1065.586	1064.967
26.0	1036.737	1050.285	1057.083	1060.739	1060.341
26.5	1031.178	1044.796	1051.944	1055.670	1055.413

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CANDELA TABULATION - (Cont.)

27.0	1025.525	1039.236	1046.700	1050.542	1050.507
27.5	1019.953	1033.700	1041.502	1045.508	1045.567
28.0	1013.997	1027.849	1036.013	1040.288	1040.580
28.5	1008.134	1022.138	1030.699	1034.950	1035.534
29.0	1002.177	1016.169	1025.034	1029.531	1030.372
29.5	995.917	1010.096	1019.369	1024.123	1025.057
30.0	989.598	1004.011	1013.670	1018.669	1019.661
30.5	983.338	997.786	1007.970	1013.051	1014.347
31.0	976.704	991.327	1002.002	1007.164	1008.636
31.5	970.082	984.950	996.104	1001.546	1003.030
32.0	963.413	978.362	990.042	995.718	997.400
32.5	956.487	971.658	983.875	989.692	991.455
33.0	949.456	964.884	977.662	983.700	985.347
33.5	942.565	958.017	971.448	977.533	979.390
34.0	935.206	950.962	965.095	971.296	973.375
34.5	927.930	944.001	958.612	964.896	966.940
35.0	920.584	936.900	952.142	958.507	960.715
35.5	912.852	929.507	945.531	951.838	954.069
36.0	905.097	922.184	938.827	945.239	947.563
36.5	897.446	914.744	932.158	938.523	940.953
37.0	889.329	907.105	925.279	931.691	934.074
37.5	881.375	899.490	918.446	924.707	927.311
38.0	873.165	891.735	911.462	917.816	920.362
38.5	864.860	883.875	904.396	910.656	913.226
39.0	856.463	876.131	897.318	903.473	906.253
39.5	848.065	868.037	890.158	896.127	899.082
40.0	839.317	859.943	882.812	888.792	891.712
40.5	830.604	851.744	875.547	881.364	884.260
41.0	821.786	843.639	868.049	873.819	877.066
41.5	812.735	835.253	860.422	866.134	869.404
42.0	803.858	826.855	852.784	858.448	861.684
42.5	794.748	818.387	845.099	850.763	854.244
43.0	785.556	809.885	837.227	842.774	846.465
43.5	776.236	801.183	829.343	835.042	838.803
44.0	766.764	792.459	821.366	827.030	831.048
44.5	757.408	783.699	813.120	818.890	823.083
45.0	747.890	774.951	805.003	810.866	815.316
45.5	738.125	766.075	796.874	802.784	807.409
46.0	728.315	757.058	788.348	794.468	799.291
46.5	718.632	748.053	780.067	786.374	791.349
47.0	708.880	739.060	771.599	778.140	783.430
47.5	698.648	729.786	762.956	769.672	775.231
48.0	688.744	720.688	754.337	761.414	767.056
48.5	678.618	711.438	745.589	752.970	758.798
49.0	668.293	702.071	736.771	744.432	750.331
49.5	658.214	692.739	727.801	735.988	741.980
50.0	647.877	683.348	719.018	727.474	733.570
50.5	637.377	673.771	709.802	718.621	724.857
51.0	627.111	664.240	700.704	710.024	716.331
51.5	616.670	654.838	691.711	701.253	707.688
52.0	606.076	645.063	682.332	692.400	698.905
52.5	595.506	635.404	673.094	683.547	690.017
53.0	584.866	625.745	663.762	674.507	681.293
53.5	574.156	615.829	654.278	665.350	672.218
54.0	563.668	606.088	645.028	656.345	663.283
54.5	553.063	596.324	635.590	647.352	654.289

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CANDELA TABULATION - (Cont.)

55.0	542.177	586.198	625.815	637.856	644.899
55.5	531.607	576.445	616.354	628.770	635.812
56.0	520.769	566.506	606.800	619.484	626.679
56.5	509.953	556.461	597.013	609.989	617.078
57.0	499.407	546.394	587.307	600.552	607.595
57.5	488.755	536.501	577.578	591.010	598.041
58.0	477.963	526.235	567.557	581.316	588.195
58.5	467.206	516.225	557.828	571.715	578.489
59.0	456.613	506.228	547.982	561.927	568.410
59.5	445.984	495.915	537.786	551.906	558.097
60.0	435.461	485.940	527.963	542.107	548.064
60.5	424.903	475.861	518.001	532.098	537.797
61.0	414.438	465.571	507.886	521.691	527.029
61.5	403.926	455.585	497.748	511.565	516.587
62.0	393.683	445.529	487.751	501.287	505.795
62.5	383.218	435.391	477.472	490.705	494.840
63.0	373.080	425.323	467.463	480.217	483.978
63.5	362.989	415.337	457.279	469.624	472.894
64.0	352.863	405.269	447.141	458.703	461.612
64.5	342.842	395.435	437.061	448.122	450.820
65.0	333.136	385.613	426.982	437.447	439.747
65.5	323.220	375.486	416.704	426.351	428.488
66.0	313.538	365.757	406.577	415.559	417.580
66.5	303.984	355.982	396.568	404.907	406.858
67.0	294.337	346.276	386.395	394.069	395.961
67.5	285.180	336.523	376.327	383.359	385.297
68.0	275.965	327.028	366.318	372.847	374.926
68.5	266.645	317.416	356.262	362.183	364.508
69.0	257.745	307.967	346.346	351.976	354.568
69.5	248.892	298.658	336.430	341.873	344.512
70.0	240.003	289.303	326.467	331.653	334.515
70.5	231.302	280.158	316.832	322.029	324.867
71.0	222.835	271.141	307.161	312.440	315.232
71.5	214.297	261.914	297.455	302.699	305.759
72.0	206.203	253.190	288.030	293.519	296.346
72.5	198.039	244.383	278.733	284.269	286.979
73.0	189.910	235.705	269.529	275.077	277.542
73.5	182.096	227.063	260.419	266.166	268.280
74.0	174.166	218.653	251.543	257.056	258.959
74.5	166.539	210.302	242.736	248.273	249.616
75.0	159.099	202.138	234.304	239.676	240.366
75.5	151.671	194.114	225.941	231.022	231.267
76.0	144.324	186.137	217.672	222.297	222.251
76.5	137.223	178.534	209.742	213.876	213.432
77.0	130.134	170.954	201.893	205.502	204.813
77.5	123.196	163.502	194.103	197.256	196.240
78.0	116.410	156.261	186.721	189.244	187.889
78.5	109.659	149.207	179.351	181.501	179.830
79.0	103.177	142.304	172.063	173.628	171.900
79.5	96.719	135.740	165.126	166.270	164.145
80.0	90.622	129.305	158.235	158.971	156.705
80.5	84.315	123.021	151.461	151.846	149.405
81.0	78.405	117.006	144.943	144.920	142.257
81.5	72.600	111.178	138.636	138.309	135.471
82.0	66.959	105.513	132.516	131.664	128.732
82.5	61.353	100.059	126.466	125.462	122.355

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CANDELA TABULATION - (Cont.)

83.0	56.202	94.932	120.708	119.389	116.352
83.5	51.040	89.769	114.939	113.537	110.489
84.0	46.391	85.109	109.589	107.978	104.929
84.5	41.696	80.402	104.322	102.663	99.545
85.0	37.270	75.976	99.253	97.466	94.336
85.5	33.310	71.724	94.429	92.642	89.641
86.0	29.584	67.730	89.886	88.006	84.852
86.5	26.080	63.759	85.366	83.486	80.461
87.0	22.880	60.126	81.161	79.316	76.490
87.5	20.264	56.576	77.190	75.392	72.472
88.0	17.835	53.177	73.313	71.537	68.886
88.5	15.814	50.012	69.634	68.033	65.394
89.0	14.378	47.022	66.188	64.681	62.100
89.5	13.093	44.009	62.918	61.458	58.877
90.0	12.240	41.439	59.741	58.515	56.097
90.5	11.656	38.893	56.891	55.712	53.422
91.0	11.364	36.475	54.006	52.967	50.829
91.5	11.166	34.256	51.460	50.561	48.423
92.0	10.979	32.130	48.926	48.248	46.251
92.5	10.675	30.215	46.590	45.866	44.032
93.0	10.582	28.300	44.324	43.904	42.070
93.5	10.313	26.559	42.257	41.941	40.306
94.0	10.185	24.948	40.259	40.084	38.531
94.5	10.068	23.453	38.473	38.391	36.942
95.0	9.939	22.028	36.697	36.767	35.389
95.5	9.682	20.603	35.039	35.272	33.917
96.0	9.519	19.376	33.380	33.836	32.609
96.5	9.507	18.173	31.990	32.516	31.383
97.0	9.414	17.076	30.530	31.196	30.133
97.5	9.390	16.048	29.187	30.040	29.047
98.0	9.168	15.020	27.973	28.895	27.914
98.5	9.087	14.167	26.664	27.938	27.003
99.0	8.947	13.361	25.508	26.816	26.057
99.5	8.806	12.532	24.247	25.882	25.088
100.0	8.725	11.866	23.231	24.924	24.305
100.5	8.760	11.282	22.063	24.072	23.476
101.0	8.456	10.663	20.988	23.196	22.693
101.5	8.316	10.091	20.089	22.436	21.934
102.0	8.141	9.601	19.084	21.607	21.280
102.5	8.047	9.168	18.220	20.941	20.544
103.0	7.965	8.713	17.461	20.159	19.925
103.5	7.720	8.281	16.620	19.458	19.365
104.0	7.592	7.872	15.908	18.699	18.699
104.5	7.440	7.592	15.055	18.068	17.987
105.0	7.195	7.195	14.343	17.438	17.578
105.5	7.089	6.844	13.735	16.830	17.005
106.0	6.891	6.611	13.081	16.223	16.550
106.5	6.762	6.354	12.520	15.837	15.896
107.0	6.599	6.108	11.878	15.265	15.592
107.5	6.400	5.816	11.341	14.681	15.125
108.0	6.167	5.571	10.839	14.307	14.658
108.5	5.922	5.419	10.360	13.805	14.226
109.0	5.746	5.069	9.834	13.373	13.712
109.5	5.571	5.011	9.437	12.883	13.303
110.0	5.466	4.917	8.982	12.497	12.999
110.5	5.303	4.695	8.479	12.007	12.544

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CANDELA TABULATION - (Cont.)

111.0	5.174	4.578	8.222	11.551	12.229
111.5	5.034	4.497	7.720	11.177	11.785
112.0	4.859	4.380	7.253	10.815	11.434
112.5	4.660	4.345	6.973	10.371	11.154
113.0	4.590	4.205	6.470	10.103	10.804
113.5	4.438	4.146	6.237	9.694	10.360
114.0	4.286	4.029	5.980	9.402	10.150
114.5	4.263	3.936	5.571	9.017	9.741
115.0	4.041	3.866	5.267	8.561	9.449
115.5	3.948	3.749	4.999	8.304	9.087
116.0	3.773	3.644	4.777	7.977	9.052
116.5	3.773	3.551	4.473	7.744	8.655
117.0	3.667	3.457	4.205	7.358	8.386
117.5	3.597	3.375	3.913	7.078	8.024
118.0	3.492	3.375	3.737	6.844	7.744
118.5	3.352	3.224	3.445	6.470	7.510
119.0	3.340	3.224	3.259	6.272	7.230
119.5	3.224	3.072	3.107	5.863	6.938
120.0	3.118	3.025	2.932	5.758	6.727
120.5	3.142	2.978	2.780	5.443	6.506
121.0	3.060	2.955	2.581	5.221	6.225
121.5	3.013	2.885	2.394	5.034	5.863
122.0	2.897	2.826	2.254	4.742	5.665
122.5	2.967	2.756	2.149	4.543	5.571
123.0	2.803	2.686	2.091	4.298	5.186
123.5	2.815	2.675	1.880	4.146	4.987
124.0	2.768	2.558	1.834	3.924	4.859
124.5	2.663	2.605	1.834	3.726	4.695
125.0	2.663	2.534	1.740	3.574	4.403
125.5	2.686	2.499	1.740	3.434	4.205
126.0	2.616	2.429	1.612	3.200	4.135
126.5	2.616	2.453	1.705	3.153	3.959
127.0	2.523	2.429	1.717	2.920	3.737
127.5	2.499	2.348	1.717	2.803	3.492
128.0	2.546	2.359	1.764	2.675	3.352
128.5	2.383	2.371	1.752	2.499	3.247
129.0	2.441	2.254	1.705	2.394	3.072
129.5	2.418	2.313	1.834	2.242	2.955
130.0	2.324	2.266	1.764	2.114	2.791
130.5	2.336	2.207	1.787	2.079	2.768
131.0	2.383	2.184	1.799	1.962	2.441
131.5	2.359	2.172	1.845	1.962	2.394
132.0	2.196	2.149	1.799	1.880	2.254
132.5	2.184	2.067	1.752	1.869	2.219
133.0	2.137	2.126	1.787	1.822	2.056
133.5	2.079	2.009	1.857	1.822	2.056
134.0	2.114	2.067	1.717	1.775	1.939
134.5	2.091	2.032	1.845	1.822	1.822
135.0	2.114	2.067	1.787	1.787	1.869
135.5	2.021	2.009	1.822	1.775	1.799
136.0	1.986	2.009	1.717	1.845	1.775
136.5	1.974	1.939	1.775	1.810	1.775
137.0	2.044	1.962	1.740	1.740	1.810
137.5	1.939	1.869	1.764	1.740	1.682
138.0	1.962	1.869	1.729	1.822	1.752
138.5	1.799	1.845	1.623	1.764	1.729

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CANDELA TABULATION - (Cont.)

139.0	1.962	1.822	1.717	1.729	1.647
139.5	1.915	1.764	1.705	1.717	1.682
140.0	1.799	1.822	1.717	1.729	1.775
140.5	1.799	1.764	1.612	1.658	1.635
141.0	1.834	1.694	1.647	1.658	1.670
141.5	1.834	1.670	1.635	1.658	1.623
142.0	1.752	1.705	1.635	1.612	1.600
142.5	1.635	1.705	1.612	1.682	1.565
143.0	1.752	1.670	1.658	1.647	1.635
143.5	1.670	1.682	1.553	1.553	1.623
144.0	1.635	1.658	1.612	1.623	1.705
144.5	1.577	1.635	1.495	1.612	1.542
145.0	1.682	1.635	1.542	1.553	1.588
145.5	1.565	1.577	1.472	1.600	1.542
146.0	1.553	1.577	1.518	1.530	1.542
146.5	1.530	1.577	1.530	1.518	1.518
147.0	1.600	1.553	1.530	1.507	1.483
147.5	1.518	1.507	1.518	1.437	1.425
148.0	1.623	1.495	1.495	1.495	1.390
148.5	1.507	1.448	1.425	1.472	1.390
149.0	1.483	1.402	1.437	1.448	1.343
149.5	1.367	1.437	1.448	1.437	1.320
150.0	1.378	1.472	1.343	1.331	1.320
150.5	1.355	1.402	1.343	1.273	1.273
151.0	1.331	1.390	1.320	1.285	1.238
151.5	1.331	1.320	1.285	1.261	1.238
152.0	1.355	1.273	1.191	1.145	1.191
152.5	1.296	1.215	1.250	1.226	1.191
153.0	1.285	1.215	1.180	1.215	1.133
153.5	1.098	1.226	1.156	1.110	1.191
154.0	1.156	1.145	1.145	1.156	1.063
154.5	1.203	1.156	1.086	1.098	1.121
155.0	1.110	1.168	1.110	1.098	0.993
155.5	1.110	1.133	1.086	1.004	0.969
156.0	1.168	1.098	1.121	1.039	1.004
156.5	1.098	1.086	1.075	1.086	1.051
157.0	1.145	1.028	1.016	0.981	1.028
157.5	1.039	1.075	0.969	1.028	1.028
158.0	1.016	1.004	1.039	0.969	0.981
158.5	1.016	1.039	1.004	1.016	0.981
159.0	1.004	1.063	0.993	0.969	0.888
159.5	1.098	1.075	0.981	1.004	0.934
160.0	1.051	0.981	1.004	0.969	0.888
160.5	0.981	1.051	0.958	0.899	0.946
161.0	1.028	1.039	1.004	0.969	0.946
161.5	0.876	0.958	0.946	0.934	0.876
162.0	0.923	0.969	0.981	0.864	0.993
162.5	0.981	0.911	0.923	0.911	0.876
163.0	0.981	0.958	0.946	0.888	0.899
163.5	0.981	0.934	0.911	0.899	0.911
164.0	0.981	0.958	0.864	0.934	0.946
164.5	0.969	1.004	0.923	0.864	0.876
165.0	0.899	0.934	0.934	0.911	0.899
165.5	0.981	0.934	0.923	0.899	0.911
166.0	0.993	0.899	0.888	0.841	0.841
166.5	0.888	0.864	0.911	0.818	0.888

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CANDELA TABULATION - (Cont.)

167.0	0.946	1.028	0.911	0.829	0.911
167.5	0.934	0.946	0.853	0.899	0.829
168.0	0.911	0.981	0.818	0.829	0.806
168.5	0.923	0.946	0.864	0.853	0.864
169.0	0.934	0.923	0.899	0.806	0.864
169.5	0.876	0.923	0.876	0.853	0.864
170.0	0.911	0.853	0.853	0.888	0.841
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	435.24	N.A.	12.50
0-30	925.66	N.A.	26.70
0-40	1517.79	N.A.	43.70
0-60	2674.87	N.A.	77.10
0-80	3313.15	N.A.	95.50
0-90	3409.39	N.A.	98.30
10-90	3296.93	N.A.	95.00
20-40	1082.55	N.A.	31.20
20-50	1693.98	N.A.	48.80
40-70	1562.11	N.A.	45.00
60-80	638.28	N.A.	18.40
70-80	233.26	N.A.	6.70
80-90	96.23	N.A.	2.80
90-110	47.85	N.A.	1.40
90-120	54.09	N.A.	1.60
90-130	56.77	N.A.	1.60
90-150	59.25	N.A.	1.70
90-180	60.04	N.A.	1.70
110-180	12.20	N.A.	0.40
0-180	3469.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.46
10-20	322.78
20-30	490.42
30-40	592.12
40-50	611.44
50-60	545.65
60-70	405.02
70-80	233.26
80-90	96.23
90-100	33.79
100-110	14.05
110-120	6.24
120-130	2.68
130-140	1.48
140-150	0.99
150-160	0.53
160-170	0.26
170-180	0.00

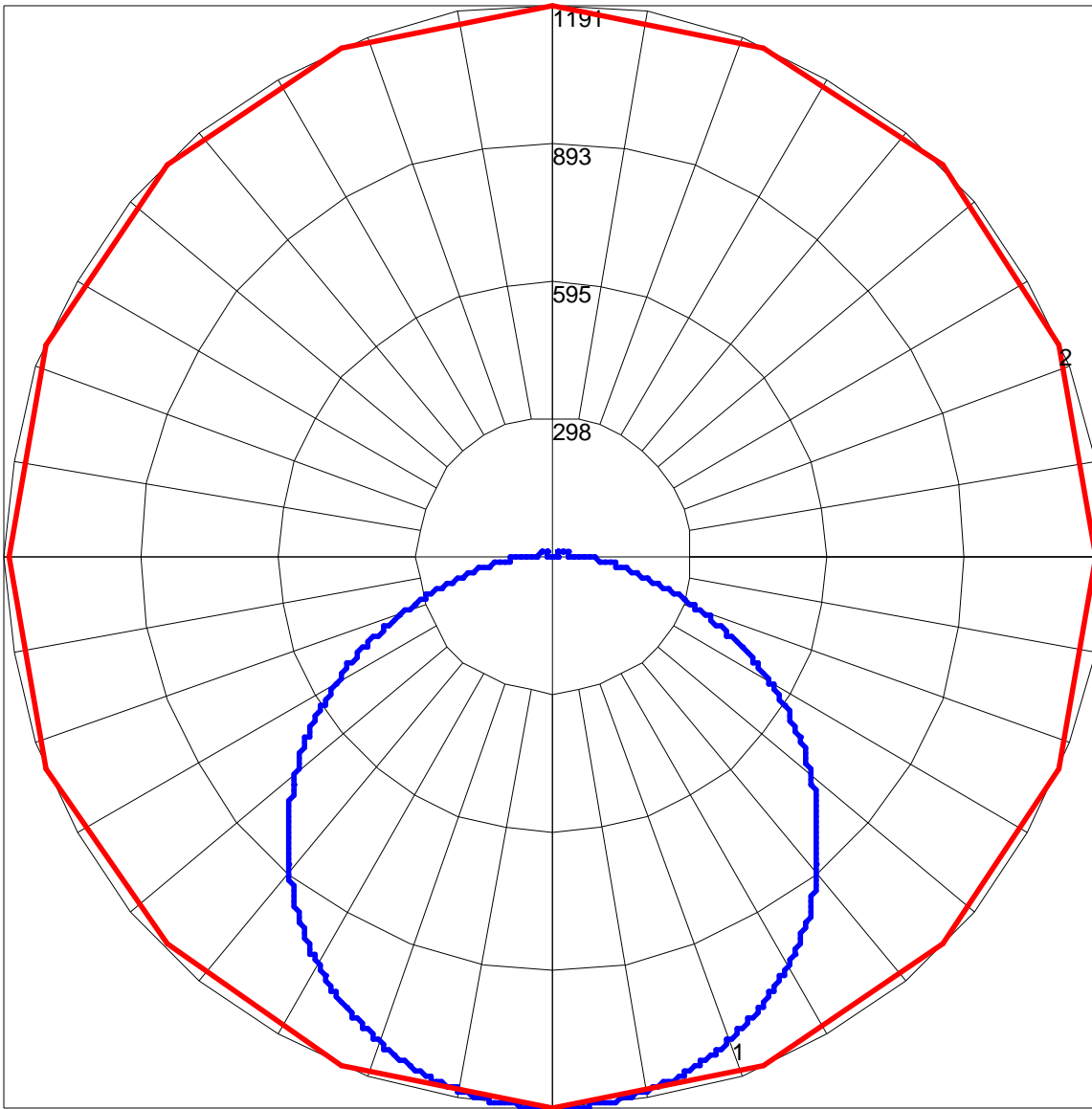
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	55	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 = 1190.931 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.)