



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VW4-LED48DMVSF50PG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA000731-002

[TESTLAB] LightLab International Allentown, LLC

[MANUFAC] Mobern Lighting Co.

[LUMCAT] VW4-LED48DMVSF50PG

[LUMINAIRE] Catalog Number: VW4-LED48DMVSF50PG

[MORE] Surface/Pendant mounted, white plastic vapor tight housing, semi-specular aluminum

[MORE] Internal reflector with frosted acrylic enclosure. 128 LEDs, four Universal Lighting

[MORE] Technologies Everline M10CC850D32N2S boards with 32 LEDs each. One Universal

[MORE] Lighting Technologies Everline D10CC55UNVTZ-C LED driver.

[MORE] 120.1Vac, 60.0Hz, 0.40A, 48W, 0.996PF, 6.79%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 created: Monday, February 27, 2017 11:39:37 AM

[ISSUE DATE] Monday, February 27, 2017 11:39:37 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6021
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	3.68
Spacing Criterion (Diagonal)	2.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.28 m
Luminous Width (90-270)	0.15 m
Luminous Height	0.08 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1829	4221	5805
55	1964	5372	7212
65	2074	6439	8341
75	2000	7325	9249
85	1710	8319	10418

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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	324.945	324.945	324.945	324.945	324.945
0.5	321.711	326.912	325.124	325.407	323.142
1.0	321.696	326.868	325.198	325.556	323.246
1.5	321.681	326.972	325.407	325.765	323.768
2.0	321.637	326.927	325.496	326.122	324.259
2.5	321.562	326.972	325.705	326.420	324.587
3.0	321.502	327.076	325.869	326.897	325.139
3.5	321.413	327.136	326.137	327.330	325.690
4.0	321.279	327.151	326.376	327.777	326.540
4.5	321.160	327.121	326.674	328.701	327.493
5.0	321.026	327.151	327.061	329.476	328.701
5.5	320.906	327.121	327.449	330.400	329.923
6.0	320.713	327.210	327.911	331.577	331.487
6.5	320.519	327.166	328.507	332.829	333.186
7.0	320.310	327.195	329.207	334.423	335.168
7.5	320.042	327.180	329.982	336.137	337.493
8.0	319.833	327.210	330.847	338.075	339.952
8.5	319.550	327.300	331.756	340.340	342.948
9.0	319.282	327.195	332.873	342.709	345.914
9.5	318.969	327.330	334.066	345.452	349.297
10.0	318.686	327.359	335.437	348.298	352.918
10.5	318.373	327.479	336.838	351.294	356.882
11.0	318.000	327.508	338.402	354.796	361.115
11.5	317.657	327.628	340.176	358.611	365.779
12.0	317.285	327.747	342.069	362.515	370.623
12.5	316.868	327.881	344.110	366.599	375.794
13.0	316.480	328.015	346.256	371.234	381.293
13.5	316.063	328.224	348.477	375.824	387.150
14.0	315.675	328.417	351.115	380.682	393.141
14.5	315.198	328.715	353.708	386.062	399.922
15.0	314.736	328.984	356.554	391.472	406.837
15.5	314.260	329.133	359.565	397.359	413.767
16.0	313.768	329.520	362.724	403.603	421.129
16.5	313.276	329.863	365.943	409.877	428.864
17.0	312.844	330.236	369.326	416.271	437.329
17.5	312.337	330.712	372.903	423.111	446.509
18.0	311.801	331.219	376.569	430.414	455.495
18.5	311.339	331.711	380.459	438.253	465.108
19.0	310.772	332.218	384.483	446.747	475.510
19.5	310.191	332.903	388.819	455.018	485.570
20.0	309.699	333.589	393.260	463.707	496.464
20.5	309.163	334.244	397.955	472.842	508.371
21.0	308.552	334.975	402.768	482.052	521.337
21.5	308.015	335.809	407.523	491.918	534.839
22.0	307.419	336.718	412.426	502.648	549.682
22.5	306.793	337.538	417.552	514.109	564.630
23.0	306.197	338.492	423.126	526.478	580.517
23.5	305.616	339.505	428.953	539.533	596.731
24.0	304.975	340.534	435.123	553.065	613.020
24.5	304.349	341.651	441.367	566.970	629.935
25.0	303.678	342.873	447.582	581.530	647.476
25.5	303.038	344.095	454.199	596.195	664.882
26.0	302.397	345.347	460.801	611.023	682.513
26.5	301.681	346.659	467.582	626.626	700.679

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CANDELA TABULATION - (Cont.)

27.0	300.981	347.985	474.601	642.140	718.578
27.5	300.370	349.535	482.023	657.759	736.655
28.0	299.580	351.040	490.100	673.988	754.956
28.5	298.924	352.590	498.520	689.905	772.721
29.0	298.209	354.140	507.462	706.030	790.709
29.5	297.419	355.660	516.940	722.289	808.667
30.0	296.704	357.374	526.553	738.369	826.207
30.5	295.988	358.924	536.434	754.315	843.629
31.0	295.228	360.772	546.746	770.709	861.036
31.5	294.409	362.545	556.985	786.312	877.772
32.0	293.664	364.349	567.566	801.975	894.299
32.5	292.799	366.375	578.311	817.683	910.678
33.0	292.054	368.268	589.071	832.854	926.698
33.5	291.249	370.235	599.786	847.951	942.287
34.0	290.325	372.232	610.740	862.839	957.726
34.5	289.521	374.319	621.515	877.235	972.585
35.0	288.656	376.375	632.826	891.453	987.264
35.5	287.792	378.402	643.929	905.715	1001.735
36.0	286.927	380.310	654.987	919.456	1015.893
36.5	286.048	382.307	665.643	932.689	1029.574
37.0	285.169	384.304	676.701	946.057	1043.344
37.5	284.215	386.435	687.565	958.993	1056.667
38.0	283.276	388.521	698.340	971.556	1069.693
38.5	282.322	390.861	709.070	984.135	1082.778
39.0	281.413	393.335	719.487	996.280	1095.266
39.5	280.355	395.719	729.919	1008.292	1108.083
40.0	279.416	398.134	740.336	1020.364	1120.437
40.5	278.388	400.459	750.292	1031.899	1132.732
41.0	277.434	402.709	760.291	1043.359	1145.057
41.5	276.331	405.034	770.172	1054.894	1157.248
42.0	275.348	407.284	779.591	1065.922	1168.917
42.5	274.275	409.475	789.069	1077.099	1180.675
43.0	273.202	411.695	798.413	1087.949	1192.374
43.5	272.054	413.990	807.385	1098.768	1204.148
44.0	270.966	416.390	816.327	1109.439	1215.399
44.5	269.789	418.938	825.120	1120.139	1227.217
45.0	268.686	421.710	833.719	1130.482	1238.231
45.5	267.509	424.512	842.005	1140.884	1249.587
46.0	266.257	427.448	850.350	1151.540	1260.913
46.5	265.109	430.488	858.353	1163.045	1272.001
47.0	263.843	433.439	866.282	1171.942	1283.029
47.5	262.576	436.539	874.165	1181.122	1294.042
48.0	261.279	439.385	881.751	1190.690	1304.966
48.5	259.983	442.336	889.173	1200.377	1315.726
49.0	258.642	445.257	896.654	1210.139	1326.501
49.5	257.270	447.999	903.792	1219.498	1336.933
50.0	255.870	450.756	910.722	1228.767	1347.231
50.5	254.394	453.513	917.697	1238.186	1357.738
51.0	253.008	456.091	924.388	1247.143	1367.514
51.5	251.503	458.595	930.931	1255.891	1377.097
52.0	249.968	461.084	937.339	1264.535	1386.754
52.5	248.433	463.454	943.539	1273.044	1395.904
53.0	246.898	465.763	949.396	1281.360	1404.697
53.5	245.169	467.999	955.461	1289.303	1413.266
54.0	243.515	470.145	960.975	1297.008	1421.284
54.5	241.876	472.127	966.325	1304.400	1429.153

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CANDELA TABULATION - (Cont.)

55.0	240.087	474.035	971.854	1311.628	1436.500
55.5	238.359	475.808	976.683	1318.319	1443.266
56.0	236.526	477.358	981.467	1324.608	1449.734
56.5	234.618	478.923	986.236	1330.912	1456.038
57.0	232.695	480.398	990.573	1336.501	1461.329
57.5	230.773	481.665	994.790	1341.807	1466.485
58.0	228.701	482.842	998.576	1346.754	1471.418
58.5	226.675	483.856	1002.122	1351.210	1475.412
59.0	224.573	484.824	1005.520	1355.234	1478.989
59.5	222.383	485.525	1008.620	1358.930	1482.282
60.0	220.207	486.300	1011.437	1362.134	1485.129
60.5	217.912	486.851	1013.896	1364.981	1487.513
61.0	215.572	487.358	1016.131	1367.440	1489.480
61.5	213.173	487.611	1018.039	1369.452	1491.090
62.0	210.758	487.880	1019.604	1371.165	1492.297
62.5	208.210	487.909	1020.870	1372.358	1493.266
63.0	205.617	487.835	1021.958	1373.446	1493.743
63.5	203.009	487.716	1022.405	1373.952	1494.115
64.0	200.311	487.432	1022.972	1374.370	1494.085
64.5	197.569	487.075	1022.882	1374.370	1493.713
65.0	194.752	486.479	1022.659	1373.997	1492.998
65.5	191.802	485.927	1022.078	1373.431	1491.954
66.0	188.836	485.137	1021.169	1372.537	1490.881
66.5	185.855	484.154	1019.857	1371.523	1489.287
67.0	182.741	483.021	1018.531	1370.152	1487.305
67.5	179.596	481.695	1016.772	1368.468	1484.831
68.0	176.392	480.279	1014.790	1366.560	1482.327
68.5	173.113	478.699	1012.271	1364.295	1479.659
69.0	169.760	476.836	1010.110	1362.015	1476.470
69.5	166.377	474.944	1007.339	1359.213	1473.177
70.0	162.830	472.842	1004.462	1356.084	1469.272
70.5	159.358	470.592	1001.362	1353.118	1465.412
71.0	155.766	468.222	998.188	1349.526	1460.941
71.5	152.055	465.600	994.626	1345.652	1456.098
72.0	148.359	462.887	991.109	1341.687	1451.522
72.5	144.678	459.907	987.234	1337.455	1446.396
73.0	140.863	456.822	983.464	1332.865	1441.314
73.5	137.093	453.618	979.276	1328.200	1435.830
74.0	133.203	450.190	975.014	1323.297	1430.196
74.5	129.269	446.613	970.647	1318.170	1424.384
75.0	125.349	442.917	966.072	1312.939	1418.721
75.5	121.400	439.042	961.258	1307.515	1412.521
76.0	117.391	435.153	956.340	1301.792	1406.232
76.5	113.412	431.039	951.259	1296.069	1400.077
77.0	109.448	426.867	946.117	1290.227	1393.714
77.5	105.334	422.545	940.633	1284.236	1387.291
78.0	101.355	418.297	935.104	1278.215	1380.942
78.5	97.376	413.797	929.381	1272.329	1374.072
79.0	93.352	409.162	923.435	1268.141	1367.559
79.5	89.433	404.572	917.444	1262.821	1360.957
80.0	85.499	399.937	911.289	1253.596	1354.116
80.5	81.579	395.228	904.731	1245.533	1347.306
81.0	77.809	390.384	898.323	1238.514	1340.465
81.5	74.083	385.690	891.632	1231.524	1333.550
82.0	70.372	380.742	884.687	1224.460	1326.442
82.5	66.780	375.302	877.682	1217.217	1319.497

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CANDELA TABULATION - (Cont.)

83.0	63.323	370.191	870.425	1210.019	1312.388
83.5	59.940	364.974	863.018	1202.553	1305.100
84.0	56.691	359.744	855.432	1195.012	1297.843
84.5	53.561	354.423	847.757	1187.337	1290.272
85.0	50.566	348.998	839.754	1179.319	1282.835
85.5	47.809	343.499	831.826	1171.495	1275.324
86.0	45.201	338.000	823.659	1163.507	1267.917
86.5	42.697	332.337	814.881	1154.848	1259.900
87.0	40.506	326.733	806.103	1146.518	1252.090
87.5	38.509	320.981	797.102	1137.963	1243.998
88.0	36.736	315.109	787.892	1129.126	1235.712
88.5	35.201	309.222	778.354	1120.169	1227.232
89.0	33.949	303.291	768.607	1110.974	1218.708
89.5	32.936	297.196	758.414	1101.406	1209.826
90.0	32.146	291.145	748.250	1091.675	1200.616
90.5	31.520	284.945	737.684	1081.690	1191.361
91.0	30.954	278.463	726.670	1071.168	1181.465
91.5	30.477	272.099	715.642	1060.438	1171.391
92.0	29.940	265.571	704.077	1049.231	1161.003
92.5	29.478	259.044	692.110	1037.696	1149.945
93.0	28.986	252.472	679.771	1025.520	1138.753
93.5	28.495	245.914	667.222	1012.927	1126.831
94.0	28.018	239.163	654.108	999.589	1114.297
94.5	27.526	232.382	640.844	985.953	1101.436
95.0	27.064	225.467	627.223	971.825	1088.023
95.5	26.572	218.642	612.946	956.698	1073.582
96.0	26.170	212.025	598.624	941.676	1059.007
96.5	25.693	205.363	583.989	925.715	1043.851
97.0	25.156	198.508	568.639	908.874	1027.756
97.5	24.679	191.623	553.319	891.497	1010.617
98.0	24.158	184.767	537.670	873.241	992.957
98.5	23.636	177.838	521.694	854.270	973.971
99.0	23.129	171.057	505.718	834.717	954.761
99.5	22.593	164.216	489.921	814.687	934.746
100.0	22.086	157.510	473.751	793.629	914.001
100.5	21.594	151.057	458.044	772.467	892.675
101.0	21.103	144.604	442.232	750.828	870.350
101.5	20.641	138.240	426.077	728.891	847.414
102.0	20.149	132.175	409.996	706.864	824.225
102.5	19.702	126.139	394.050	684.718	800.992
103.0	19.225	120.163	377.821	661.812	777.296
103.5	18.748	114.559	361.949	639.160	752.989
104.0	18.286	108.956	346.241	615.971	728.384
104.5	17.839	103.606	330.742	592.335	702.930
105.0	17.377	98.583	315.899	568.788	677.818
105.5	16.945	93.546	301.354	545.360	652.200
106.0	16.468	88.718	287.166	521.307	625.717
106.5	16.021	84.202	273.694	498.073	599.697
107.0	15.589	79.761	260.713	475.033	573.631
107.5	15.112	75.499	247.941	451.904	547.089
108.0	14.694	71.400	236.064	430.026	521.381
108.5	14.247	67.585	224.514	408.849	496.091
109.0	13.845	63.815	213.366	387.925	471.218
109.5	13.457	60.298	202.934	368.432	447.492
110.0	13.040	56.989	193.039	349.505	424.646
110.5	12.653	53.710	183.381	331.130	402.113

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CANDELA TABULATION - (Cont.)

111.0	12.295	50.700	174.425	314.111	381.278
111.5	11.893	47.868	165.841	297.911	361.413
112.0	11.565	45.186	157.540	282.054	341.905
112.5	11.237	42.623	149.865	267.598	323.797
113.0	10.894	40.238	142.517	253.738	306.734
113.5	10.551	37.943	135.453	240.862	290.325
114.0	10.253	35.931	128.971	228.612	275.035
114.5	9.970	33.949	122.652	216.496	260.504
115.0	9.627	32.056	116.586	205.065	246.764
115.5	9.404	30.238	111.027	194.663	233.798
116.0	9.136	28.584	105.692	184.857	221.921
116.5	8.897	26.989	100.565	175.334	210.326
117.0	8.599	25.529	95.767	166.750	199.462
117.5	8.361	24.068	91.191	158.464	189.402
118.0	8.137	22.697	86.899	150.446	179.700
118.5	7.913	21.431	82.727	143.188	170.550
119.0	7.675	20.268	78.852	136.303	162.249
119.5	7.481	19.135	75.096	129.567	154.201
120.0	7.258	18.033	71.609	123.397	146.601
120.5	7.064	16.989	68.181	117.525	139.432
121.0	6.885	16.021	64.947	111.862	132.577
121.5	6.691	15.097	61.833	106.720	126.184
122.0	6.542	14.277	59.001	101.683	120.118
122.5	6.349	13.383	56.199	96.944	114.410
123.0	6.155	12.578	53.681	92.458	109.060
123.5	5.991	11.863	51.147	88.241	103.844
124.0	5.842	11.133	48.703	84.202	99.001
124.5	5.678	10.447	46.468	80.357	94.396
125.0	5.544	9.836	44.292	76.706	90.089
125.5	5.395	9.195	42.265	73.278	85.797
126.0	5.231	8.569	40.268	70.014	81.996
126.5	5.097	8.137	38.480	66.944	78.285
127.0	4.903	7.556	36.632	63.830	74.843
127.5	4.754	7.139	34.933	60.953	71.400
128.0	4.635	6.587	33.338	58.315	68.077
128.5	4.456	6.200	31.878	55.752	65.007
129.0	4.352	5.723	30.372	53.308	62.205
129.5	4.158	5.350	28.986	51.013	59.523
130.0	4.024	4.963	27.690	48.807	56.706
130.5	3.905	4.531	26.468	46.691	54.336
131.0	3.815	4.203	25.156	44.590	51.907
131.5	3.651	3.845	24.113	42.637	49.746
132.0	3.532	3.636	22.936	40.819	47.615
132.5	3.428	3.428	21.893	39.150	45.380
133.0	3.308	3.338	20.834	37.496	43.711
133.5	3.189	3.219	19.776	35.827	41.684
134.0	3.115	3.085	18.897	34.232	39.970
134.5	3.010	3.085	18.018	32.727	38.241
135.0	2.936	3.010	17.124	31.401	36.617
135.5	2.817	2.936	16.259	30.000	35.037
136.0	2.742	2.817	15.395	28.703	33.353
136.5	2.683	2.742	14.605	27.451	32.056
137.0	2.608	2.638	13.800	26.393	30.685
137.5	2.519	2.563	13.055	25.067	29.284
138.0	2.414	2.504	12.325	24.113	27.973
138.5	2.399	2.429	11.609	23.040	26.691

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CANDELA TABULATION - (Cont.)

139.0	2.295	2.384	10.909	21.997	25.588
139.5	2.221	2.370	10.238	20.983	24.456
140.0	2.146	2.235	9.598	20.119	23.547
140.5	2.057	2.072	8.972	19.180	22.429
141.0	1.997	2.027	8.375	18.390	21.580
141.5	1.937	1.967	7.764	17.481	20.521
142.0	1.863	1.893	7.288	16.527	19.568
142.5	1.848	1.818	6.721	15.767	18.569
143.0	1.773	1.803	6.229	14.978	17.899
143.5	1.744	1.729	5.723	14.203	17.004
144.0	1.669	1.669	5.216	13.517	16.244
144.5	1.610	1.669	4.680	12.727	15.365
145.0	1.550	1.535	4.292	11.863	14.605
145.5	1.505	1.520	3.815	11.326	13.815
146.0	1.460	1.416	3.338	10.492	13.010
146.5	1.416	1.386	2.966	9.896	12.161
147.0	1.356	1.282	2.608	9.255	11.609
147.5	1.326	1.297	2.235	8.659	10.879
148.0	1.267	1.267	1.863	7.839	10.045
148.5	1.222	1.103	1.505	7.332	9.449
149.0	1.207	1.162	1.222	6.736	8.823
149.5	1.177	1.058	1.058	6.125	8.271
150.0	1.118	1.043	0.969	5.604	7.586
150.5	1.088	0.954	0.939	5.052	6.960
151.0	1.043	0.969	0.775	4.560	6.364
151.5	0.999	0.939	0.879	4.083	5.678
152.0	0.954	0.849	0.864	3.607	5.276
152.5	0.924	0.864	0.790	3.174	4.680
153.0	0.864	0.849	0.790	2.787	4.188
153.5	0.820	0.805	0.775	2.340	3.800
154.0	0.835	0.820	0.730	1.997	3.174
154.5	0.805	0.715	0.656	1.565	2.906
155.0	0.790	0.775	0.656	1.207	2.504
155.5	0.790	0.730	0.656	0.984	1.997
156.0	0.790	0.775	0.626	0.805	1.759
156.5	0.775	0.730	0.671	0.864	1.177
157.0	0.775	0.760	0.611	0.835	1.028
157.5	0.760	0.775	0.596	0.835	0.775
158.0	0.760	0.790	0.611	0.864	0.894
158.5	0.805	0.790	0.611	0.835	0.924
159.0	0.790	0.775	0.671	0.790	0.835
159.5	0.760	0.745	0.626	0.790	0.864
160.0	0.790	0.775	0.626	0.820	0.790
160.5	0.775	0.686	0.611	0.745	0.790
161.0	0.805	0.671	0.626	0.849	0.581
161.5	0.775	0.745	0.626	0.700	0.715
162.0	0.805	0.700	0.537	0.745	0.805
162.5	0.790	0.760	0.566	0.730	0.790
163.0	0.745	0.700	0.537	0.715	0.775
163.5	0.760	0.745	0.537	0.715	0.671
164.0	0.745	0.686	0.596	0.671	0.581
164.5	0.760	0.730	0.507	0.641	0.626
165.0	0.745	0.715	0.477	0.760	0.626
165.5	0.686	0.686	0.581	0.656	0.581
166.0	0.745	0.671	0.477	0.611	0.730
166.5	0.745	0.686	0.522	0.641	0.686

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CANDELA TABULATION - (Cont.)

167.0	0.730	0.686	0.537	0.626	0.581
167.5	0.790	0.700	0.507	0.641	0.537
168.0	0.760	0.671	0.566	0.626	0.522
168.5	0.745	0.715	0.447	0.581	0.537
169.0	0.775	0.641	0.477	0.596	0.477
169.5	0.745	0.686	0.462	0.611	0.522
170.0	0.745	0.686	0.387	0.581	0.656
170.5	0.745	0.715	0.432	0.581	0.581
171.0	0.745	0.700	0.432	0.596	0.566
171.5	0.715	0.730	0.462	0.492	0.402
172.0	0.745	0.656	0.432	0.626	0.507
172.5	0.745	0.730	0.462	0.507	0.417
173.0	0.745	0.686	0.417	0.477	0.492
173.5	0.760	0.730	0.447	0.596	0.596
174.0	0.760	0.671	0.387	0.507	0.522
174.5	0.745	0.671	0.387	0.477	0.462
175.0	0.745	0.656	0.522	0.537	0.402
175.5	0.700	0.581	0.417	0.522	0.477
176.0	0.745	0.626	0.462	0.477	0.507
176.5	0.730	0.656	0.387	0.507	0.477
177.0	0.730	0.686	0.417	0.492	0.611
177.5	0.700	0.656	0.343	0.551	0.417
178.0	0.715	0.715	0.432	0.522	0.462
178.5	0.715	0.686	0.373	0.432	0.432
179.0	0.745	0.656	0.432	0.432	0.402
179.5	0.730	0.641	0.387	0.387	0.417
180.0	0.507	0.507	0.507	0.507	0.507

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	135.10	N.A.	2.20
0-30	352.56	N.A.	5.90
0-40	752.48	N.A.	12.50
0-60	2164.9	N.A.	36.00
0-80	4007.21	N.A.	66.60
0-90	4833.15	N.A.	80.30
10-90	4801.63	N.A.	79.80
20-40	617.38	N.A.	10.30
20-50	1225.9	N.A.	20.40
40-70	2333.39	N.A.	38.80
60-80	1842.31	N.A.	30.60
70-80	921.35	N.A.	15.30
80-90	825.93	N.A.	13.70
90-110	999.41	N.A.	16.60
90-120	1125.9	N.A.	18.70
90-130	1168.01	N.A.	19.40
90-150	1186.7	N.A.	19.70
90-180	1187.61	N.A.	19.70
110-180	188.20	N.A.	3.10
0-180	6020.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.51
10-20	103.59
20-30	217.47
30-40	399.91
40-50	608.52
50-60	803.90
60-70	920.97
70-80	921.35
80-90	825.93
90-100	644.30
100-110	355.11
110-120	126.49
120-130	42.11
130-140	14.41
140-150	4.29
150-160	0.67
160-170	0.19
170-180	0.05

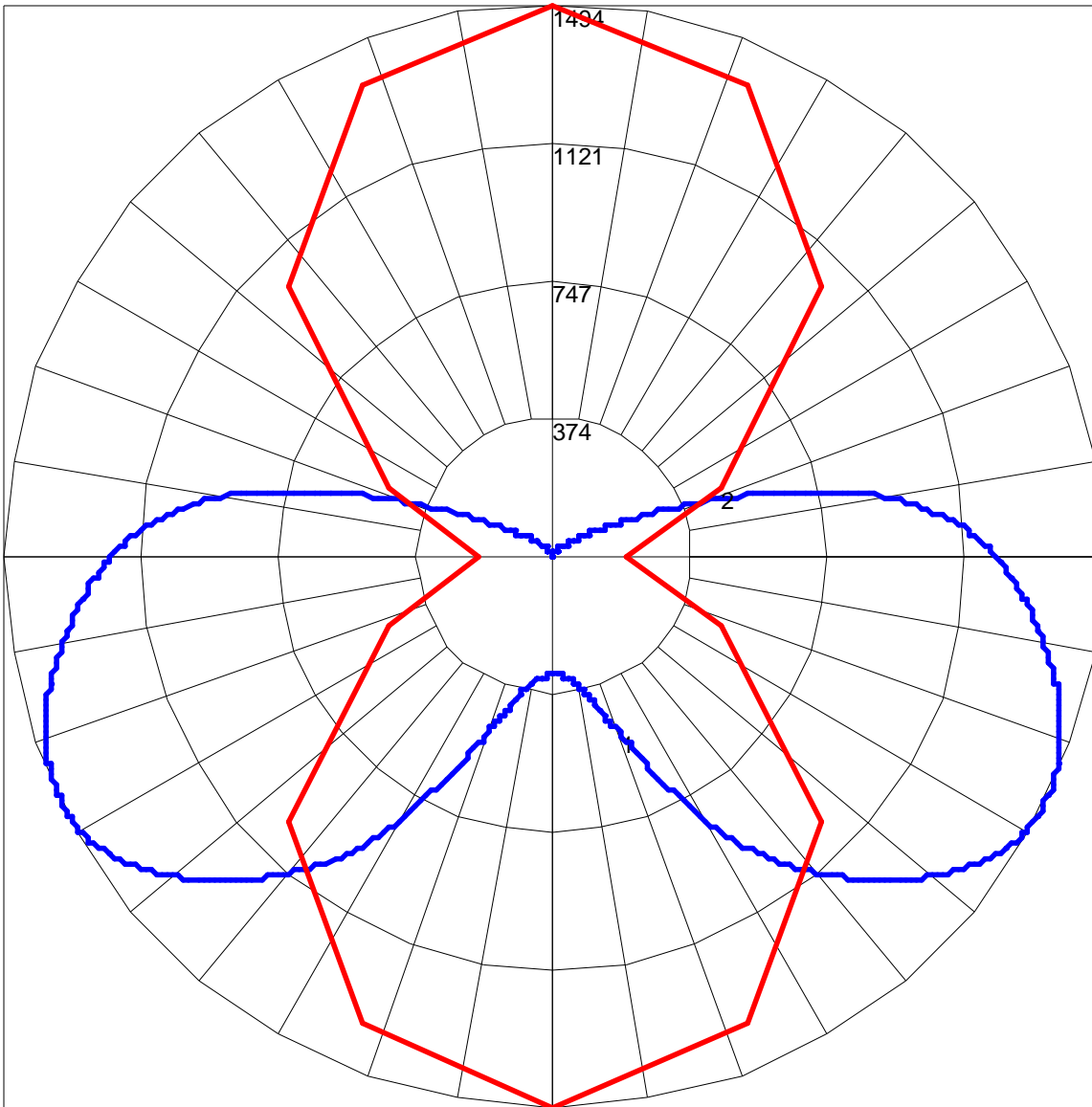
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	97	89	83	76	92	85	79	73	77	72	67	69	65	61	63	59	56	52
2	85	74	64	56	80	70	61	54	63	56	49	56	50	45	50	45	41	37
3	76	62	51	43	71	59	49	41	53	44	38	47	40	35	42	36	31	28
4	68	53	42	34	64	50	40	32	45	37	30	40	33	27	36	30	25	21
5	62	46	35	28	58	44	34	26	39	31	24	35	28	22	31	25	20	17
6	56	41	30	23	53	39	29	22	35	26	20	31	24	18	28	21	17	14
7	52	36	26	19	49	35	25	18	31	23	17	28	21	15	25	19	14	11
8	48	33	23	16	45	31	22	16	28	20	15	25	18	13	22	16	12	10
9	44	30	20	14	42	28	20	14	25	18	13	23	16	11	21	15	10	8
10	41	27	18	13	39	26	18	12	23	16	11	21	15	10	19	13	9	7

POLAR GRAPH



Maximum Candela = 1494.115 Located At Horizontal Angle = 90, Vertical Angle = 63.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (63.5) (Through Max. Cd.)