



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VW4-LED48DMVSC40.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-LED48DMVSC40
 [LUMINAIRE] Catalog Number: VW4-LED48DMVSC40
 [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, 0.400A, 48.0W, 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 extrapolated from report LLIA000535-001
 [DATE] This file created: Thursday, December 1, 2016
 [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	5347
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	48
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	8121	7357	7102
55	7155	6530	6318
65	5830	5381	5099
75	4326	3876	3546
85	2436	2500	1995

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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	1830.510	1830.510	1830.510	1830.510	1830.510
0.5	1813.950	1831.356	1834.110	1835.406	1827.378
1.0	1813.500	1830.888	1833.822	1835.280	1827.216
1.5	1813.248	1830.798	1833.516	1834.848	1827.054
2.0	1812.510	1830.114	1832.958	1834.488	1826.658
2.5	1811.898	1829.448	1832.220	1833.750	1826.190
3.0	1810.854	1828.800	1831.554	1832.994	1825.542
3.5	1809.810	1827.648	1830.384	1832.112	1824.552
4.0	1808.748	1826.478	1829.340	1831.050	1823.634
4.5	1807.218	1825.128	1828.044	1829.736	1822.446
5.0	1805.724	1823.670	1826.676	1828.440	1821.438
5.5	1804.032	1822.104	1824.858	1827.000	1819.998
6.0	1802.124	1820.286	1823.256	1825.434	1818.522
6.5	1800.270	1818.414	1821.474	1823.562	1816.794
7.0	1798.038	1816.434	1819.548	1821.564	1814.724
7.5	1795.842	1813.950	1817.316	1819.422	1812.888
8.0	1793.322	1811.790	1814.832	1817.208	1810.710
8.5	1790.748	1809.108	1812.366	1814.796	1808.370
9.0	1787.706	1806.300	1809.720	1812.132	1806.048
9.5	1784.826	1803.528	1806.984	1809.504	1803.600
10.0	1781.712	1800.396	1804.212	1806.696	1800.702
10.5	1778.364	1797.354	1800.972	1803.672	1797.714
11.0	1775.232	1793.970	1797.696	1800.306	1794.726
11.5	1771.470	1790.460	1794.348	1796.922	1791.288
12.0	1767.852	1786.770	1790.658	1793.502	1787.922
12.5	1763.694	1782.900	1786.914	1789.794	1784.610
13.0	1759.788	1778.994	1783.044	1785.834	1780.650
13.5	1755.576	1774.890	1779.102	1782.072	1776.978
14.0	1751.220	1770.678	1775.052	1778.004	1773.054
14.5	1746.612	1766.070	1770.678	1773.630	1768.770
15.0	1741.806	1761.624	1766.178	1769.076	1764.432
15.5	1736.892	1756.746	1761.426	1764.522	1760.058
16.0	1731.888	1751.958	1756.674	1759.626	1755.378
16.5	1726.884	1746.846	1751.742	1754.946	1750.698
17.0	1721.466	1741.680	1746.576	1749.816	1745.910
17.5	1715.652	1736.118	1741.356	1744.614	1740.798
18.0	1710.252	1730.520	1735.938	1739.250	1735.452
18.5	1704.510	1724.850	1730.394	1733.616	1730.178
19.0	1698.390	1718.838	1724.598	1727.946	1724.706
19.5	1692.396	1712.736	1718.730	1722.240	1719.126
20.0	1686.096	1706.508	1712.754	1716.390	1713.150
20.5	1679.454	1699.992	1706.598	1710.108	1707.156
21.0	1673.028	1693.458	1700.442	1704.168	1701.378
21.5	1666.368	1686.798	1694.034	1697.886	1695.222
22.0	1659.240	1679.832	1687.266	1691.136	1688.778
22.5	1652.256	1672.812	1680.444	1684.674	1682.352
23.0	1644.948	1665.594	1673.514	1677.942	1676.034
23.5	1637.388	1657.908	1666.422	1670.886	1669.032
24.0	1629.756	1650.528	1659.186	1664.064	1662.336
24.5	1622.070	1642.752	1651.986	1656.792	1655.478
25.0	1613.952	1634.850	1644.444	1649.592	1648.386
25.5	1605.798	1626.678	1636.902	1642.230	1641.276
26.0	1597.770	1618.650	1629.126	1634.760	1634.148
26.5	1589.202	1610.190	1621.206	1626.948	1626.552

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CANDELA TABULATION - (Cont.)

27.0	1580.490	1601.622	1613.124	1619.046	1618.992
27.5	1571.904	1593.090	1605.114	1611.288	1611.378
28.0	1562.724	1584.072	1596.654	1603.242	1603.692
28.5	1553.688	1575.270	1588.464	1595.016	1595.916
29.0	1544.508	1566.072	1579.734	1586.664	1587.960
29.5	1534.860	1556.712	1571.004	1578.330	1579.770
30.0	1525.122	1547.334	1562.220	1569.924	1571.454
30.5	1515.474	1537.740	1553.436	1561.266	1563.264
31.0	1505.250	1527.786	1544.238	1552.194	1554.462
31.5	1495.044	1517.958	1535.148	1543.536	1545.822
32.0	1484.766	1507.806	1525.806	1534.554	1537.146
32.5	1474.092	1497.474	1516.302	1525.266	1527.984
33.0	1463.256	1487.034	1506.726	1516.032	1518.570
33.5	1452.636	1476.450	1497.150	1506.528	1509.390
34.0	1441.296	1465.578	1487.358	1496.916	1500.120
34.5	1430.082	1454.850	1477.368	1487.052	1490.202
35.0	1418.760	1443.906	1467.396	1477.206	1480.608
35.5	1406.844	1432.512	1457.208	1466.928	1470.366
36.0	1394.892	1421.226	1446.876	1456.758	1460.340
36.5	1383.102	1409.760	1436.598	1446.408	1450.152
37.0	1370.592	1397.988	1425.996	1435.878	1439.550
37.5	1358.334	1386.252	1415.466	1425.114	1429.128
38.0	1345.680	1374.300	1404.702	1414.494	1418.418
38.5	1332.882	1362.186	1393.812	1403.460	1407.420
39.0	1319.940	1350.252	1382.904	1392.390	1396.674
39.5	1306.998	1337.778	1371.870	1381.068	1385.622
40.0	1293.516	1325.304	1360.548	1369.764	1374.264
40.5	1280.088	1312.668	1349.352	1358.316	1362.780
41.0	1266.498	1300.176	1337.796	1346.688	1351.692
41.5	1252.548	1287.252	1326.042	1334.844	1339.884
42.0	1238.868	1274.310	1314.270	1323.000	1327.986
42.5	1224.828	1261.260	1302.426	1311.156	1316.520
43.0	1210.662	1248.156	1290.294	1298.844	1304.532
43.5	1196.298	1234.746	1278.144	1286.928	1292.724
44.0	1181.700	1221.300	1265.850	1274.580	1280.772
44.5	1167.282	1207.800	1253.142	1262.034	1268.496
45.0	1152.612	1194.318	1240.632	1249.668	1256.526
45.5	1137.564	1180.638	1228.104	1237.212	1244.340
46.0	1122.444	1166.742	1214.964	1224.396	1231.830
46.5	1107.522	1152.864	1202.202	1211.922	1219.590
47.0	1092.492	1139.004	1189.152	1199.232	1207.386
47.5	1076.724	1124.712	1175.832	1186.182	1194.750
48.0	1061.460	1110.690	1162.548	1173.456	1182.150
48.5	1045.854	1096.434	1149.066	1160.442	1169.424
49.0	1029.942	1081.998	1135.476	1147.284	1156.374
49.5	1014.408	1067.616	1121.652	1134.270	1143.504
50.0	998.478	1053.144	1108.116	1121.148	1130.544
50.5	982.296	1038.384	1093.914	1107.504	1117.116
51.0	966.474	1023.696	1079.892	1094.256	1103.976
51.5	950.382	1009.206	1066.032	1080.738	1090.656
52.0	934.056	994.140	1051.578	1067.094	1077.120
52.5	917.766	979.254	1037.340	1053.450	1063.422
53.0	901.368	964.368	1022.958	1039.518	1049.976
53.5	884.862	949.086	1008.342	1025.406	1035.990
54.0	868.698	934.074	994.086	1011.528	1022.220
54.5	852.354	919.026	979.542	997.668	1008.360

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CANDELA TABULATION - (Cont.)

55.0	835.578	903.420	964.476	983.034	993.888
55.5	819.288	888.390	949.896	969.030	979.884
56.0	802.584	873.072	935.172	954.720	965.808
56.5	785.916	857.592	920.088	940.086	951.012
57.0	769.662	842.076	905.130	925.542	936.396
57.5	753.246	826.830	890.136	910.836	921.672
58.0	736.614	811.008	874.692	895.896	906.498
58.5	720.036	795.582	859.698	881.100	891.540
59.0	703.710	780.174	844.524	866.016	876.006
59.5	687.330	764.280	828.810	850.572	860.112
60.0	671.112	748.908	813.672	835.470	844.650
60.5	654.840	733.374	798.318	820.044	828.828
61.0	638.712	717.516	782.730	804.006	812.232
61.5	622.512	702.126	767.106	788.400	796.140
62.0	606.726	686.628	751.698	772.560	779.508
62.5	590.598	671.004	735.858	756.252	762.624
63.0	574.974	655.488	720.432	740.088	745.884
63.5	559.422	640.098	704.736	723.762	728.802
64.0	543.816	624.582	689.112	706.932	711.414
64.5	528.372	609.426	673.578	690.624	694.782
65.0	513.414	594.288	658.044	674.172	677.718
65.5	498.132	578.682	642.204	657.072	660.366
66.0	483.210	563.688	626.598	640.440	643.554
66.5	468.486	548.622	611.172	624.024	627.030
67.0	453.618	533.664	595.494	607.320	610.236
67.5	439.506	518.634	579.978	590.814	593.802
68.0	425.304	504.000	564.552	574.614	577.818
68.5	410.940	489.186	549.054	558.180	561.762
69.0	397.224	474.624	533.772	542.448	546.444
69.5	383.580	460.278	518.490	526.878	530.946
70.0	369.882	445.860	503.136	511.128	515.538
70.5	356.472	431.766	488.286	496.296	500.670
71.0	343.422	417.870	473.382	481.518	485.820
71.5	330.264	403.650	458.424	466.506	471.222
72.0	317.790	390.204	443.898	452.358	456.714
72.5	305.208	376.632	429.570	438.102	442.278
73.0	292.680	363.258	415.386	423.936	427.734
73.5	280.638	349.938	401.346	410.202	413.460
74.0	268.416	336.978	387.666	396.162	399.096
74.5	256.662	324.108	374.094	382.626	384.696
75.0	245.196	311.526	361.098	369.378	370.440
75.5	233.748	299.160	348.210	356.040	356.418
76.0	222.426	286.866	335.466	342.594	342.522
76.5	211.482	275.148	323.244	329.616	328.932
77.0	200.556	263.466	311.148	316.710	315.648
77.5	189.864	251.982	299.142	304.002	302.436
78.0	179.406	240.822	287.766	291.654	289.566
78.5	169.002	229.950	276.408	279.720	277.146
79.0	159.012	219.312	265.176	267.588	264.924
79.5	149.058	209.196	254.484	256.248	252.972
80.0	139.662	199.278	243.864	244.998	241.506
80.5	129.942	189.594	233.424	234.018	230.256
81.0	120.834	180.324	223.380	223.344	219.240
81.5	111.888	171.342	213.660	213.156	208.782
82.0	103.194	162.612	204.228	202.914	198.396
82.5	94.554	154.206	194.904	193.356	188.568

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CANDELA TABULATION - (Cont.)

83.0	86.616	146.304	186.030	183.996	179.316
83.5	78.660	138.348	177.138	174.978	170.280
84.0	71.496	131.166	168.894	166.410	161.712
84.5	64.260	123.912	160.776	158.220	153.414
85.0	57.438	117.090	152.964	150.210	145.386
85.5	51.336	110.538	145.530	142.776	138.150
86.0	45.594	104.382	138.528	135.630	130.770
86.5	40.194	98.262	131.562	128.664	124.002
87.0	35.262	92.664	125.082	122.238	117.882
87.5	31.230	87.192	118.962	116.190	111.690
88.0	27.486	81.954	112.986	110.250	106.164
88.5	24.372	77.076	107.316	104.850	100.782
89.0	22.158	72.468	102.006	99.684	95.706
89.5	20.178	67.824	96.966	94.716	90.738
90.0	18.864	63.864	92.070	90.180	86.454
90.5	17.964	59.940	87.678	85.860	82.332
91.0	17.514	56.214	83.232	81.630	78.336
91.5	17.208	52.794	79.308	77.922	74.628
92.0	16.920	49.518	75.402	74.358	71.280
92.5	16.452	46.566	71.802	70.686	67.860
93.0	16.308	43.614	68.310	67.662	64.836
93.5	15.894	40.932	65.124	64.638	62.118
94.0	15.696	38.448	62.046	61.776	59.382
94.5	15.516	36.144	59.292	59.166	56.934
95.0	15.318	33.948	56.556	56.664	54.540
95.5	14.922	31.752	54.000	54.360	52.272
96.0	14.670	29.862	51.444	52.146	50.256
96.5	14.652	28.008	49.302	50.112	48.366
97.0	14.508	26.316	47.052	48.078	46.440
97.5	14.472	24.732	44.982	46.296	44.766
98.0	14.130	23.148	43.110	44.532	43.020
98.5	14.004	21.834	41.094	43.056	41.616
99.0	13.788	20.592	39.312	41.328	40.158
99.5	13.572	19.314	37.368	39.888	38.664
100.0	13.446	18.288	35.802	38.412	37.458
100.5	13.500	17.388	34.002	37.098	36.180
101.0	13.032	16.434	32.346	35.748	34.974
101.5	12.816	15.552	30.960	34.578	33.804
102.0	12.546	14.796	29.412	33.300	32.796
102.5	12.402	14.130	28.080	32.274	31.662
103.0	12.276	13.428	26.910	31.068	30.708
103.5	11.898	12.762	25.614	29.988	29.844
104.0	11.700	12.132	24.516	28.818	28.818
104.5	11.466	11.700	23.202	27.846	27.720
105.0	11.088	11.088	22.104	26.874	27.090
105.5	10.926	10.548	21.168	25.938	26.208
106.0	10.620	10.188	20.160	25.002	25.506
106.5	10.422	9.792	19.296	24.408	24.498
107.0	10.170	9.414	18.306	23.526	24.030
107.5	9.864	8.964	17.478	22.626	23.310
108.0	9.504	8.586	16.704	22.050	22.590
108.5	9.126	8.352	15.966	21.276	21.924
109.0	8.856	7.812	15.156	20.610	21.132
109.5	8.586	7.722	14.544	19.854	20.502
110.0	8.424	7.578	13.842	19.260	20.034
110.5	8.172	7.236	13.068	18.504	19.332

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CANDELA TABULATION - (Cont.)

111.0	7.974	7.056	12.672	17.802	18.846
111.5	7.758	6.930	11.898	17.226	18.162
112.0	7.488	6.750	11.178	16.668	17.622
112.5	7.182	6.696	10.746	15.984	17.190
113.0	7.074	6.480	9.972	15.570	16.650
113.5	6.840	6.390	9.612	14.940	15.966
114.0	6.606	6.210	9.216	14.490	15.642
114.5	6.570	6.066	8.586	13.896	15.012
115.0	6.228	5.958	8.118	13.194	14.562
115.5	6.084	5.778	7.704	12.798	14.004
116.0	5.814	5.616	7.362	12.294	13.950
116.5	5.814	5.472	6.894	11.934	13.338
117.0	5.652	5.328	6.480	11.340	12.924
117.5	5.544	5.202	6.030	10.908	12.366
118.0	5.382	5.202	5.760	10.548	11.934
118.5	5.166	4.968	5.310	9.972	11.574
119.0	5.148	4.968	5.022	9.666	11.142
119.5	4.968	4.734	4.788	9.036	10.692
120.0	4.806	4.662	4.518	8.874	10.368
120.5	4.842	4.590	4.284	8.388	10.026
121.0	4.716	4.554	3.978	8.046	9.594
121.5	4.644	4.446	3.690	7.758	9.036
122.0	4.464	4.356	3.474	7.308	8.730
122.5	4.572	4.248	3.312	7.002	8.586
123.0	4.320	4.140	3.222	6.624	7.992
123.5	4.338	4.122	2.898	6.390	7.686
124.0	4.266	3.942	2.826	6.048	7.488
124.5	4.104	4.014	2.826	5.742	7.236
125.0	4.104	3.906	2.682	5.508	6.786
125.5	4.140	3.852	2.682	5.292	6.480
126.0	4.032	3.744	2.484	4.932	6.372
126.5	4.032	3.780	2.628	4.860	6.102
127.0	3.888	3.744	2.646	4.500	5.760
127.5	3.852	3.618	2.646	4.320	5.382
128.0	3.924	3.636	2.718	4.122	5.166
128.5	3.672	3.654	2.700	3.852	5.004
129.0	3.762	3.474	2.628	3.690	4.734
129.5	3.726	3.564	2.826	3.456	4.554
130.0	3.582	3.492	2.718	3.258	4.302
130.5	3.600	3.402	2.754	3.204	4.266
131.0	3.672	3.366	2.772	3.024	3.762
131.5	3.636	3.348	2.844	3.024	3.690
132.0	3.384	3.312	2.772	2.898	3.474
132.5	3.366	3.186	2.700	2.880	3.420
133.0	3.294	3.276	2.754	2.808	3.168
133.5	3.204	3.096	2.862	2.808	3.168
134.0	3.258	3.186	2.646	2.736	2.988
134.5	3.222	3.132	2.844	2.808	2.808
135.0	3.258	3.186	2.754	2.754	2.880
135.5	3.114	3.096	2.808	2.736	2.772
136.0	3.060	3.096	2.646	2.844	2.736
136.5	3.042	2.988	2.736	2.790	2.736
137.0	3.150	3.024	2.682	2.682	2.790
137.5	2.988	2.880	2.718	2.682	2.592
138.0	3.024	2.880	2.664	2.808	2.700
138.5	2.772	2.844	2.502	2.718	2.664

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CANDELA TABULATION - (Cont.)

139.0	3.024	2.808	2.646	2.664	2.538
139.5	2.952	2.718	2.628	2.646	2.592
140.0	2.772	2.808	2.646	2.664	2.736
140.5	2.772	2.718	2.484	2.556	2.520
141.0	2.826	2.610	2.538	2.556	2.574
141.5	2.826	2.574	2.520	2.556	2.502
142.0	2.700	2.628	2.520	2.484	2.466
142.5	2.520	2.628	2.484	2.592	2.412
143.0	2.700	2.574	2.556	2.538	2.520
143.5	2.574	2.592	2.394	2.394	2.502
144.0	2.520	2.556	2.484	2.502	2.628
144.5	2.430	2.520	2.304	2.484	2.376
145.0	2.592	2.520	2.376	2.394	2.448
145.5	2.412	2.430	2.268	2.466	2.376
146.0	2.394	2.430	2.340	2.358	2.376
146.5	2.358	2.430	2.358	2.340	2.340
147.0	2.466	2.394	2.358	2.322	2.286
147.5	2.340	2.322	2.340	2.214	2.196
148.0	2.502	2.304	2.304	2.304	2.142
148.5	2.322	2.232	2.196	2.268	2.142
149.0	2.286	2.160	2.214	2.232	2.070
149.5	2.106	2.214	2.232	2.214	2.034
150.0	2.124	2.268	2.070	2.052	2.034
150.5	2.088	2.160	2.070	1.962	1.962
151.0	2.052	2.142	2.034	1.980	1.908
151.5	2.052	2.034	1.980	1.944	1.908
152.0	2.088	1.962	1.836	1.764	1.836
152.5	1.998	1.872	1.926	1.890	1.836
153.0	1.980	1.872	1.818	1.872	1.746
153.5	1.692	1.890	1.782	1.710	1.836
154.0	1.782	1.764	1.764	1.782	1.638
154.5	1.854	1.782	1.674	1.692	1.728
155.0	1.710	1.800	1.710	1.692	1.530
155.5	1.710	1.746	1.674	1.548	1.494
156.0	1.800	1.692	1.728	1.602	1.548
156.5	1.692	1.674	1.656	1.674	1.620
157.0	1.764	1.584	1.566	1.512	1.584
157.5	1.602	1.656	1.494	1.584	1.584
158.0	1.566	1.548	1.602	1.494	1.512
158.5	1.566	1.602	1.548	1.566	1.512
159.0	1.548	1.638	1.530	1.494	1.368
159.5	1.692	1.656	1.512	1.548	1.440
160.0	1.620	1.512	1.548	1.494	1.368
160.5	1.512	1.620	1.476	1.386	1.458
161.0	1.584	1.602	1.548	1.494	1.458
161.5	1.350	1.476	1.458	1.440	1.350
162.0	1.422	1.494	1.512	1.332	1.530
162.5	1.512	1.404	1.422	1.404	1.350
163.0	1.512	1.476	1.458	1.368	1.386
163.5	1.512	1.440	1.404	1.386	1.404
164.0	1.512	1.476	1.332	1.440	1.458
164.5	1.494	1.548	1.422	1.332	1.350
165.0	1.386	1.440	1.440	1.404	1.386
165.5	1.512	1.440	1.422	1.386	1.404
166.0	1.530	1.386	1.368	1.296	1.296
166.5	1.368	1.332	1.404	1.260	1.368

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CANDELA TABULATION - (Cont.)

167.0	1.458	1.584	1.404	1.278	1.404
167.5	1.440	1.458	1.314	1.386	1.278
168.0	1.404	1.512	1.260	1.278	1.242
168.5	1.422	1.458	1.332	1.314	1.332
169.0	1.440	1.422	1.386	1.242	1.332
169.5	1.350	1.422	1.350	1.314	1.332
170.0	1.404	1.314	1.314	1.368	1.296
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	670.77	N.A.	12.50
0-30	1426.59	N.A.	26.70
0-40	2339.14	N.A.	43.70
0-60	4122.38	N.A.	77.10
0-80	5106.07	N.A.	95.50
0-90	5254.38	N.A.	98.30
10-90	5081.08	N.A.	95.00
20-40	1668.37	N.A.	31.20
20-50	2610.69	N.A.	48.80
40-70	2407.44	N.A.	45.00
60-80	983.69	N.A.	18.40
70-80	359.49	N.A.	6.70
80-90	148.31	N.A.	2.80
90-110	73.74	N.A.	1.40
90-120	83.36	N.A.	1.60
90-130	87.49	N.A.	1.60
90-150	91.31	N.A.	1.70
90-180	92.53	N.A.	1.70
110-180	18.79	N.A.	0.40
0-180	5346.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.31
10-20	497.46
20-30	755.82
30-40	912.55
40-50	942.31
50-60	840.92
60-70	624.20
70-80	359.49
80-90	148.31
90-100	52.08
100-110	21.66
110-120	9.62
120-130	4.13
130-140	2.29
140-150	1.53
150-160	0.82
160-170	0.40
170-180	0.01

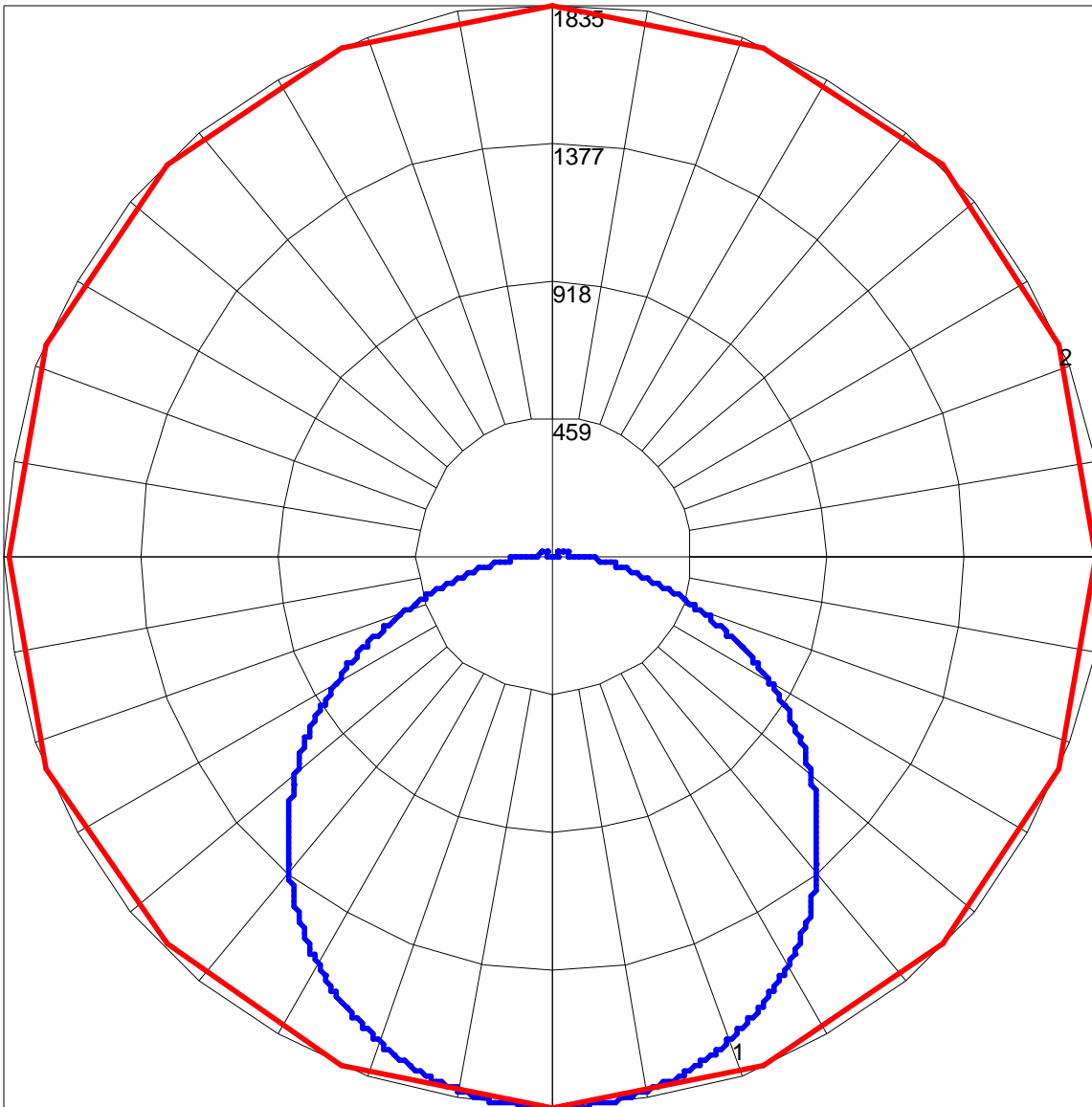
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1835.406 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.)