



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED48DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000657-017- Extrapolated
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] 44-48LED48DMV40
 [LUMINAIRE] Catalog Number: 44-48LED48DMV40
 [MORE] Surface/pendant mounted, white formed steel housing and LED tray.
 [MORE] 128 white LEDs, four Universal Lighting Technologies Everline
 [MORE] M10CC840D32N2S boards with 32 LED each. One Universal Lighting
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 860mA.
 [MORE] 120.0Vac, 60.0Hz, 0.4A, 48.0W, 0.998PF, 5.07%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 extrapolated from LLIA000654-017
 [ISSUE DATE] Wednesday, October 12, 2016 3:15:29 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6475
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.00 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15474	15385	15106
55	15193	14963	14611
65	14313	13805	13196
75	12068	10509	10425
85	6599	5231	5028

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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	2182.220	2182.220	2182.220	2182.220	2182.220
0.5	2164.866	2176.274	2189.936	2190.103	2179.607
1.0	2164.550	2176.152	2189.594	2189.673	2179.457
1.5	2164.094	2175.494	2189.182	2189.314	2178.993
2.0	2163.542	2174.889	2188.647	2188.682	2178.361
2.5	2162.814	2174.231	2187.946	2187.849	2177.607
3.0	2161.902	2173.319	2187.043	2186.911	2176.757
3.5	2160.622	2172.171	2185.973	2185.797	2175.713
4.0	2159.333	2171.057	2184.815	2184.429	2174.398
4.5	2157.904	2169.636	2183.509	2183.070	2173.232
5.0	2156.202	2168.111	2181.886	2181.448	2171.679
5.5	2154.291	2166.348	2180.247	2179.677	2169.759
6.0	2152.405	2164.629	2178.265	2177.686	2167.918
6.5	2150.354	2162.560	2176.222	2175.687	2166.041
7.0	2148.126	2160.455	2173.959	2173.486	2163.709
7.5	2145.399	2158.237	2171.565	2171.083	2161.385
8.0	2142.926	2155.790	2169.040	2168.461	2158.886
8.5	2140.427	2153.230	2166.155	2165.725	2156.132
9.0	2137.595	2150.432	2163.182	2162.919	2153.256
9.5	2134.569	2147.477	2160.192	2159.850	2150.406
10.0	2131.246	2144.259	2156.834	2156.606	2147.021
10.5	2127.931	2140.909	2153.493	2153.046	2143.742
11.0	2124.485	2137.472	2149.994	2149.485	2140.199
11.5	2120.846	2133.763	2146.241	2145.697	2136.367
12.0	2117.198	2129.992	2142.497	2141.778	2132.640
12.5	2113.340	2126.134	2138.559	2137.577	2128.615
13.0	2109.227	2121.890	2134.333	2133.202	2124.257
13.5	2105.036	2117.488	2130.071	2128.624	2119.952
14.0	2100.906	2113.059	2125.652	2124.003	2115.541
14.5	2096.451	2108.350	2121.030	2119.075	2110.560
15.0	2091.944	2103.826	2116.146	2114.112	2105.930
15.5	2087.042	2099.275	2111.130	2109.113	2100.958
16.0	2081.833	2094.180	2106.009	2103.729	2095.679
16.5	2076.519	2088.980	2101.037	2098.415	2090.339
17.0	2071.004	2083.613	2095.855	2092.698	2084.920
17.5	2065.172	2078.098	2090.164	2086.875	2079.159
18.0	2059.578	2072.266	2084.543	2080.921	2073.292
18.5	2053.554	2066.330	2078.729	2074.888	2067.286
19.0	2047.521	2060.043	2072.740	2068.698	2061.261
19.5	2041.654	2053.825	2066.558	2062.279	2054.922
20.0	2035.674	2047.477	2060.306	2055.649	2048.424
20.5	2029.544	2040.997	2053.747	2048.792	2041.733
21.0	2023.029	2034.595	2047.205	2041.838	2034.999
21.5	2016.654	2027.878	2040.400	2034.867	2027.843
22.0	2009.893	2020.775	2033.517	2027.633	2020.854
22.5	2002.633	2013.576	2026.545	2020.188	2013.673
23.0	1995.556	2006.131	2019.355	2012.612	2006.254
23.5	1988.383	1998.783	2011.796	2004.772	1998.616
24.0	1981.131	1991.268	2004.369	1996.959	1990.970
24.5	1973.853	1983.736	1996.793	1988.830	1983.052
25.0	1965.812	1975.861	1988.699	1980.614	1974.783
25.5	1957.832	1968.083	1980.474	1972.073	1966.654
26.0	1949.765	1960.103	1972.073	1963.637	1958.429
26.5	1941.513	1951.685	1963.699	1954.851	1949.704

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CANDELA TABULATION - (Cont.)

27.0	1933.113	1943.285	1955.333	1946.249	1941.057
27.5	1924.396	1934.735	1946.661	1937.331	1932.245
28.0	1915.470	1925.843	1937.778	1928.036	1923.204
28.5	1907.218	1917.197	1928.667	1918.776	1914.023
29.0	1898.405	1908.516	1919.547	1909.244	1904.745
29.5	1889.207	1899.291	1909.980	1899.519	1895.126
30.0	1879.973	1890.198	1900.466	1889.768	1885.664
30.5	1870.564	1880.631	1890.741	1879.850	1875.843
31.0	1860.787	1870.801	1880.534	1869.573	1865.855
31.5	1851.413	1860.980	1870.538	1859.366	1855.754
32.0	1841.565	1851.036	1860.498	1849.045	1845.564
32.5	1831.209	1840.794	1849.975	1838.347	1835.120
33.0	1821.143	1830.613	1839.514	1827.746	1824.457
33.5	1810.892	1820.012	1828.921	1817.162	1813.777
34.0	1800.141	1809.007	1818.153	1806.271	1802.807
34.5	1789.531	1798.010	1807.183	1795.353	1791.977
35.0	1778.877	1786.839	1796.143	1784.278	1780.841
35.5	1767.837	1775.615	1784.804	1772.659	1769.020
36.0	1756.867	1764.233	1773.484	1761.111	1757.673
36.5	1745.423	1752.701	1762.172	1749.439	1746.177
37.0	1733.515	1740.609	1750.308	1737.408	1734.120
37.5	1721.826	1728.710	1738.557	1725.421	1722.221
38.0	1710.111	1716.652	1726.395	1713.162	1709.997
38.5	1698.211	1703.797	1714.399	1700.605	1697.650
39.0	1686.110	1691.381	1702.307	1688.110	1685.383
39.5	1673.887	1678.622	1690.048	1675.360	1672.545
40.0	1660.891	1665.793	1677.464	1662.513	1659.602
40.5	1647.887	1653.367	1664.565	1649.632	1646.843
41.0	1634.821	1640.468	1651.798	1636.540	1633.830
41.5	1621.457	1626.964	1638.530	1623.158	1620.615
42.0	1608.199	1614.442	1625.456	1609.874	1607.269
42.5	1594.353	1601.534	1612.381	1596.343	1593.774
43.0	1581.015	1588.214	1598.956	1582.506	1579.937
43.5	1567.309	1574.789	1585.251	1568.704	1566.389
44.0	1553.235	1561.338	1571.378	1554.700	1552.306
44.5	1538.714	1547.413	1557.120	1540.205	1538.170
45.0	1524.894	1533.558	1543.169	1526.078	1524.070
45.5	1510.522	1520.106	1529.086	1511.530	1509.759
46.0	1495.931	1505.760	1514.661	1496.702	1495.019
46.5	1481.672	1491.809	1500.183	1482.163	1480.436
47.0	1467.493	1477.577	1485.469	1467.256	1465.774
47.5	1452.603	1463.038	1470.545	1451.840	1450.744
48.0	1437.372	1448.438	1455.848	1436.767	1435.557
48.5	1422.131	1433.724	1440.783	1421.456	1420.439
49.0	1406.742	1418.843	1425.043	1405.830	1404.769
49.5	1392.019	1404.103	1409.750	1390.151	1389.511
50.0	1376.787	1388.889	1393.817	1374.297	1373.876
50.5	1361.196	1373.561	1377.621	1358.215	1357.899
51.0	1345.535	1358.460	1361.933	1342.510	1342.115
51.5	1329.970	1343.211	1345.798	1326.314	1326.217
52.0	1313.950	1327.208	1329.164	1309.697	1309.740
52.5	1297.604	1311.275	1312.731	1293.272	1293.509
53.0	1282.057	1295.403	1296.280	1276.822	1277.111
53.5	1265.791	1279.102	1279.330	1260.030	1260.187
54.0	1249.139	1262.801	1262.564	1243.193	1243.579
54.5	1232.714	1246.105	1245.508	1226.225	1226.471

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55.0	1215.782	1229.014	1227.830	1208.749	1208.872
55.5	1199.340	1212.634	1210.363	1191.711	1191.290
56.0	1182.065	1195.683	1193.000	1174.419	1173.612
56.5	1164.641	1178.163	1175.085	1156.443	1155.162
57.0	1147.332	1160.555	1157.109	1138.519	1136.870
57.5	1129.724	1143.298	1139.273	1120.464	1118.079
58.0	1111.791	1125.348	1120.762	1101.909	1098.796
58.5	1093.876	1107.854	1102.365	1083.196	1079.390
59.0	1076.119	1089.869	1083.555	1064.001	1059.748
59.5	1057.477	1071.726	1064.895	1044.262	1039.711
60.0	1039.229	1053.864	1046.253	1024.593	1019.955
60.5	1020.753	1035.537	1027.136	1004.442	1000.163
61.0	1001.698	1016.631	1007.810	983.818	979.679
61.5	982.608	998.146	988.518	963.527	959.581
62.0	963.772	979.197	969.227	943.271	939.421
62.5	943.867	959.695	949.295	922.637	918.867
63.0	924.531	940.386	929.617	902.074	898.733
63.5	905.108	920.498	909.282	881.292	878.661
64.0	885.115	900.294	888.553	860.150	858.510
64.5	865.596	880.529	867.849	839.534	838.859
65.0	845.418	860.159	846.479	819.033	819.059
65.5	825.732	839.464	824.171	798.338	798.777
66.0	805.573	818.787	801.328	777.977	778.871
66.5	785.544	798.224	778.152	757.756	758.904
67.0	765.323	777.223	754.424	737.149	738.657
67.5	745.286	756.616	731.028	716.665	718.427
68.0	725.153	735.667	707.659	695.882	698.197
68.5	704.739	714.543	684.062	674.741	677.757
69.0	684.588	693.664	660.526	654.204	657.369
69.5	663.990	672.583	636.955	633.202	636.955
70.0	643.287	651.240	613.262	611.911	616.156
70.5	622.680	630.273	590.884	590.962	595.829
71.0	602.029	609.263	569.268	569.996	575.240
71.5	581.097	587.604	547.539	548.696	554.414
72.0	560.613	566.497	526.800	527.888	533.947
72.5	540.375	545.548	506.080	507.237	513.586
73.0	519.496	524.468	485.271	486.420	492.952
73.5	499.178	503.703	465.234	466.049	472.705
74.0	478.545	482.781	445.250	445.706	452.160
74.5	458.105	461.700	425.800	425.563	431.930
75.0	438.226	441.163	406.851	405.956	411.972
75.5	418.347	420.276	387.971	386.454	392.294
76.0	398.222	399.029	369.039	367.014	372.240
76.5	378.387	378.220	350.493	348.090	352.861
77.0	358.595	357.227	332.043	329.553	333.779
77.5	338.444	336.226	313.567	311.103	314.619
78.0	318.811	315.838	295.363	293.074	295.968
78.5	299.274	295.775	277.159	275.221	277.799
79.0	280.193	275.773	259.147	257.472	259.559
79.5	261.550	256.894	241.539	240.303	242.311
80.0	243.267	238.225	224.186	223.537	225.045
80.5	224.966	219.091	207.306	206.727	207.911
81.0	207.253	200.992	190.846	190.767	191.627
81.5	190.005	183.156	174.975	175.185	175.843
82.0	172.949	164.706	159.392	159.778	160.304
82.5	156.665	147.923	144.354	144.967	145.502

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CANDELA TABULATION - (Cont.)

83.0	140.451	131.665	129.938	130.727	131.121
83.5	124.913	115.293	115.925	116.846	117.223
84.0	110.015	101.026	102.693	103.710	104.227
84.5	95.958	87.943	90.127	90.995	91.302
85.0	82.208	75.404	78.122	78.569	79.253
85.5	69.625	64.057	67.029	67.293	67.731
86.0	57.901	53.517	56.673	56.410	57.401
86.5	46.615	43.625	46.615	46.914	47.729
87.0	37.022	34.909	37.505	38.452	38.890
87.5	27.824	26.912	29.569	30.525	30.831
88.0	19.353	19.581	22.457	23.764	24.079
88.5	12.224	13.373	16.573	18.134	18.117
89.0	6.664	8.383	11.724	13.074	13.039
89.5	0.000	4.919	8.173	9.374	9.269
90.0	0.000	0.000	5.621	6.752	6.664
90.5	0.000	0.000	0.000	4.770	4.586
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
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

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	802.09	N.A.	12.40
0-30	1714.52	N.A.	26.50
0-40	2832.3	N.A.	43.70
0-60	5102.11	N.A.	78.80
0-80	6375.35	N.A.	98.50
0-90	6474.62	N.A.	100.00
10-90	6267.9	N.A.	96.80
20-40	2030.21	N.A.	31.40
20-50	3211.57	N.A.	49.60
40-70	3097.81	N.A.	47.80
60-80	1273.24	N.A.	19.70
70-80	445.24	N.A.	6.90
80-90	99.27	N.A.	1.50
90-110	0.20	N.A.	0.00
90-120	0.20	N.A.	0.00
90-130	0.20	N.A.	0.00
90-150	0.20	N.A.	0.00
90-180	0.20	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6474.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.72
10-20	595.37
20-30	912.43
30-40	1117.78
40-50	1181.36
50-60	1088.45
60-70	828.00
70-80	445.24
80-90	99.27
90-100	0.20
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

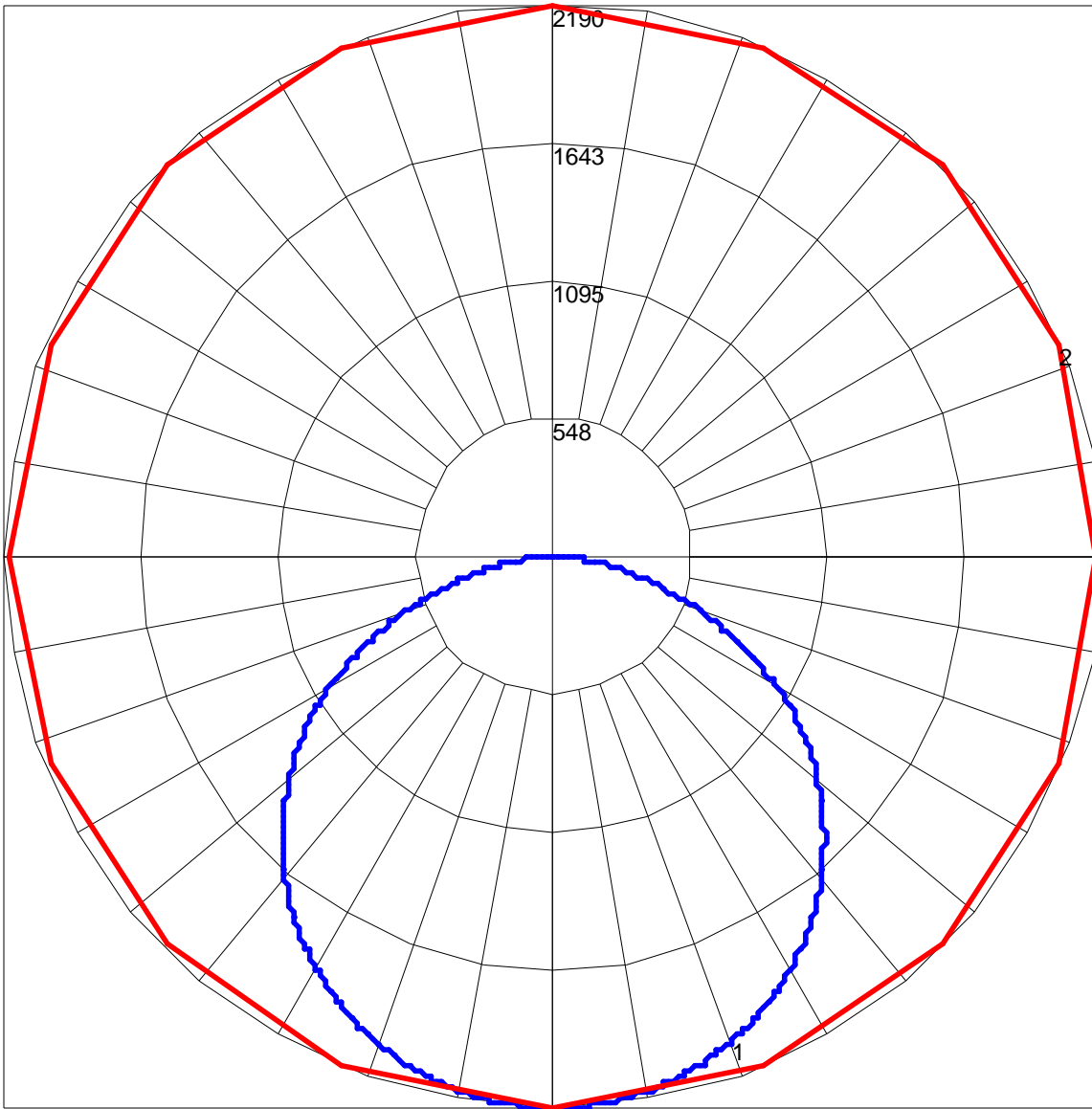
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 2190.103 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.)