



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RG24-LED48DMV50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLI-15041-3-R01
 [TESTLAB] LightLab International (www.LightLabInt.com)
 [MANUFAC] Mobern Lighting Company
 [LUMCAT] RG24-LED48DMV50
 [LUMINAIRE] Mobern Lighting - LED 2x4 troffer luminaire. Catalog number: RG24-LED48DMV50
 [ISSUEDATE] Monday, May 4, 2015 1:19:58 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.16 m
Luminous Width (90-270)	0.55 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2759	2732	2722
55	2135	2053	1936
65	1607	1284	1488
75	1414	1066	1611
85	1610	1592	2136

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CANDELA TABULATION

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
0.0	2229.410	2229.410	2229.410	2229.410	2229.410	2229.410	2229.410	2229.410	2229.410	2229.410
0.5	2234.929	2233.006	2229.805	2229.461	2229.847	2230.738	2230.208	2229.049	2228.134	2226.848
1.0	2234.064	2231.947	2228.663	2228.512	2228.797	2229.889	2229.066	2228.478	2227.184	2226.319
1.5	2232.661	2230.704	2227.856	2227.168	2227.957	2228.646	2228.243	2227.184	2225.899	2225.513
2.0	2232.401	2230.040	2226.832	2226.647	2227.067	2228.260	2227.697	2226.806	2225.227	2225.000
2.5	2231.452	2229.091	2225.849	2225.824	2226.202	2227.394	2226.613	2225.597	2224.816	2224.396
3.0	2230.864	2228.226	2224.841	2224.538	2224.975	2226.235	2225.286	2224.832	2223.522	2223.228
3.5	2229.007	2227.134	2223.883	2223.682	2223.967	2225.311	2224.496	2223.950	2222.648	2222.472
4.0	2227.772	2225.941	2223.018	2222.514	2222.850	2224.152	2223.203	2223.010	2222.270	2222.044
4.5	2226.991	2224.051	2221.145	2221.094	2221.338	2222.598	2222.430	2221.792	2220.960	2220.498
5.0	2225.294	2223.060	2219.347	2219.431	2219.826	2220.952	2220.632	2219.666	2219.238	2219.389
5.5	2223.438	2220.943	2217.642	2217.659	2217.986	2219.431	2219.078	2218.070	2217.516	2217.205
6.0	2221.934	2218.902	2215.500	2215.139	2216.273	2217.172	2216.743	2215.937	2215.576	2215.298
6.5	2219.666	2216.735	2213.677	2213.190	2213.828	2214.752	2214.408	2213.686	2212.820	2212.795
7.0	2217.281	2214.274	2210.586	2210.779	2211.082	2212.753	2212.652	2211.292	2210.174	2210.040
7.5	2214.694	2211.040	2208.276	2207.755	2208.578	2210.519	2209.880	2208.326	2207.881	2207.570
8.0	2211.115	2208.142	2205.596	2204.891	2205.781	2207.411	2207.083	2205.781	2205.218	2204.866
8.5	2207.940	2205.395	2202.455	2202.018	2203.421	2204.723	2203.816	2202.682	2202.060	2201.640
9.0	2204.177	2201.934	2199.557	2199.355	2199.918	2201.413	2200.640	2199.750	2198.717	2197.835
9.5	2200.111	2198.414	2196.474	2196.239	2197.121	2197.969	2197.188	2196.247	2195.155	2193.996
10.0	2196.222	2194.340	2192.711	2192.551	2193.626	2193.988	2193.164	2192.736	2191.316	2190.082
10.5	2192.534	2190.569	2188.914	2189.065	2189.880	2190.376	2189.485	2188.662	2187.469	2186.226
11.0	2189.116	2186.033	2184.420	2184.697	2185.831	2186.705	2185.546	2184.764	2183.009	2181.698
11.5	2184.714	2181.917	2179.909	2180.606	2181.724	2181.942	2181.220	2180.296	2178.204	2177.372
12.0	2179.876	2177.297	2176.154	2176.314	2176.978	2177.255	2176.726	2175.902	2173.004	2172.635
12.5	2175.113	2172.727	2171.383	2171.434	2171.602	2172.618	2171.988	2170.560	2168.124	2167.284
13.0	2169.359	2167.486	2166.637	2166.570	2166.167	2167.586	2167.292	2165.579	2162.664	2161.757
13.5	2164.403	2162.185	2161.144	2160.992	2161.404	2162.210	2161.555	2160.295	2156.927	2156.045
14.0	2159.094	2156.616	2156.230	2155.583	2155.810	2156.566	2155.885	2154.592	2150.644	2150.526
14.5	2153.483	2150.929	2150.291	2150.072	2149.988	2150.400	2149.871	2148.392	2145.024	2143.848
15.0	2147.720	2145.091	2144.201	2143.873	2144.344	2144.344	2143.579	2141.933	2138.464	2137.834
15.5	2141.874	2139.152	2137.993	2137.800	2138.321	2138.002	2136.708	2134.835	2131.819	2130.836
16.0	2135.272	2132.928	2131.181	2131.256	2132.222	2130.878	2129.837	2127.602	2125.040	2123.990
16.5	2129.140	2126.628	2125.032	2125.032	2125.578	2123.822	2122.764	2120.672	2117.791	2116.439
17.0	2122.478	2119.480	2117.875	2118.329	2118.707	2116.834	2114.910	2112.936	2110.063	2108.467
17.5	2115.330	2112.617	2111.029	2111.248	2111.248	2109.425	2107.342	2105.452	2102.075	2100.294
18.0	2108.324	2105.510	2103.990	2103.511	2103.763	2101.344	2099.479	2097.547	2094.078	2092.188
18.5	2101.025	2098.160	2096.623	2095.758	2095.859	2093.414	2091.575	2089.156	2086.031	2083.864
19.0	2093.557	2090.508	2088.341	2087.610	2087.434	2085.006	2083.057	2080.680	2078.110	2075.077
19.5	2085.535	2082.486	2080.344	2079.596	2079.050	2076.656	2074.464	2071.667	2068.710	2066.224
20.0	2076.925	2074.573	2071.852	2071.205	2070.340	2067.568	2065.426	2063.242	2059.352	2056.816
20.5	2067.962	2065.829	2063.309	2062.763	2061.528	2058.806	2055.791	2053.657	2049.382	2046.744
21.0	2058.874	2057.496	2054.564	2054.010	2052.700	2049.667	2046.761	2043.754	2039.638	2036.798
21.5	2049.650	2048.197	2044.854	2044.720	2043.056	2039.696	2036.471	2033.506	2029.709	2026.937
22.0	2040.251	2038.663	2034.992	2034.757	2033.472	2029.574	2025.660	2023.106	2018.755	2016.428
22.5	2031.120	2028.852	2025.156	2024.728	2022.846	2019.268	2015.555	2012.489	2008.255	2005.744
23.0	2021.384	2018.696	2014.900	2013.984	2012.455	2008.658	2005.307	2001.787	1997.310	1995.176
23.5	2011.254	2007.844	2004.408	2003.551	2001.821	1997.352	1994.261	1990.464	1985.693	1984.332
24.0	2000.284	1997.428	1994.076	1993.009	1990.741	1986.071	1982.652	1979.141	1974.437	1972.690
24.5	1989.481	1985.987	1983.030	1982.106	1979.578	1974.311	1971.085	1967.557	1962.719	1960.846
25.0	1978.343	1975.042	1971.589	1970.850	1967.398	1962.358	1958.704	1955.411	1950.606	1948.918
25.5	1967.230	1964.365	1960.316	1959.157	1955.436	1950.060	1946.465	1942.811	1938.476	1936.368
26.0	1956.074	1952.404	1948.069	1946.902	1943.096	1937.174	1933.924	1930.303	1925.935	1924.012
26.5	1943.768	1940.240	1935.956	1934.201	1930.454	1924.205	1920.358	1917.334	1913.218	1911.706

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CANDELA TABULATION - (Cont.)

27.0	1931.899	1927.943	1923.432	1921.466	1917.359	1911.202	1907.623	1903.717	1900.189	1899.164
27.5	1918.661	1915.460	1910.042	1908.127	1904.154	1897.434	1894.444	1890.664	1887.001	1886.069
28.0	1905.271	1901.945	1895.947	1894.292	1890.126	1883.641	1880.936	1877.341	1873.284	1872.377
28.5	1891.680	1888.471	1882.297	1880.248	1875.779	1869.437	1866.740	1863.137	1859.306	1858.811
29.0	1878.408	1874.460	1867.614	1865.968	1861.700	1854.787	1852.116	1849.050	1845.740	1844.867
29.5	1864.153	1859.760	1852.880	1851.368	1847.059	1840.566	1837.391	1834.535	1831.418	1829.822
30.0	1849.680	1845.337	1838.407	1836.668	1832.107	1825.572	1822.514	1819.474	1816.601	1815.366
30.5	1834.409	1830.184	1822.926	1821.372	1816.895	1810.570	1807.445	1804.858	1801.825	1800.456
31.0	1819.625	1814.358	1806.941	1805.471	1801.103	1795.156	1792.048	1789.670	1786.394	1785.882
31.5	1803.572	1798.482	1791.208	1789.410	1785.420	1779.473	1776.214	1774.475	1771.392	1770.863
32.0	1787.864	1782.539	1774.416	1773.106	1768.822	1763.488	1760.842	1758.389	1755.491	1755.457
32.5	1770.955	1766.050	1757.599	1755.928	1752.240	1747.015	1744.613	1742.278	1739.884	1739.556
33.0	1754.281	1749.460	1740.858	1739.203	1734.953	1730.450	1728.451	1725.654	1723.168	1723.252
33.5	1737.918	1732.618	1723.117	1721.765	1717.212	1713.734	1711.777	1708.610	1706.452	1706.544
34.0	1720.001	1714.751	1705.528	1703.520	1699.740	1695.884	1694.809	1691.869	1689.316	1689.920
34.5	1701.353	1696.607	1686.980	1685.468	1682.293	1678.908	1677.077	1673.994	1671.331	1672.532
35.0	1682.965	1678.505	1668.416	1666.518	1663.796	1660.184	1659.076	1656.228	1653.582	1654.951
35.5	1664.485	1659.588	1649.600	1647.416	1645.190	1641.528	1640.201	1637.513	1635.068	1636.799
36.0	1645.098	1639.974	1630.574	1628.701	1626.433	1622.813	1620.898	1618.890	1616.168	1617.655
36.5	1625.375	1620.444	1610.490	1608.877	1606.811	1603.543	1601.863	1598.873	1596.739	1598.621
37.0	1605.416	1600.427	1590.162	1589.381	1587.373	1584.022	1581.838	1579.166	1576.680	1578.377
37.5	1585.559	1580.174	1570.640	1568.969	1567.348	1563.870	1561.728	1559.166	1556.394	1558.351
38.0	1564.206	1559.309	1549.800	1548.540	1546.759	1542.593	1540.728	1538.435	1535.621	1538.326
38.5	1543.055	1537.754	1528.640	1527.296	1526.053	1521.601	1519.518	1516.796	1514.344	1517.065
39.0	1521.366	1516.536	1507.204	1506.204	1504.507	1500.148	1497.560	1494.990	1492.831	1496.040
39.5	1499.425	1494.427	1485.767	1484.599	1483.230	1478.551	1476.266	1472.906	1471.428	1474.360
40.0	1477.207	1472.226	1463.448	1462.927	1461.440	1456.585	1454.116	1450.663	1449.428	1452.234
40.5	1454.183	1449.479	1441.759	1440.684	1438.811	1433.922	1431.679	1428.622	1427.681	1430.629
41.0	1431.587	1426.933	1419.247	1418.256	1416.492	1411.670	1408.848	1406.202	1405.824	1408.369
41.5	1408.714	1403.531	1396.256	1395.467	1393.148	1388.554	1385.672	1383.606	1382.783	1385.429
42.0	1384.488	1379.935	1373.064	1372.417	1370.074	1365.168	1363.194	1360.901	1360.615	1362.976
42.5	1360.808	1356.306	1350.023	1349.200	1346.856	1342.135	1340.186	1338.448	1338.086	1340.128
43.0	1336.112	1332.416	1326.284	1326.158	1323.059	1319.052	1317.095	1315.835	1315.146	1316.641
43.5	1312.206	1308.359	1303.210	1302.798	1299.858	1295.717	1294.306	1293.205	1292.130	1292.550
44.0	1287.703	1284.024	1279.673	1279.043	1276.338	1272.768	1271.390	1270.802	1269.450	1268.694
44.5	1262.864	1260.168	1255.699	1255.304	1252.684	1249.794	1248.668	1248.198	1245.997	1244.485
45.0	1238.446	1235.690	1231.826	1231.868	1229.374	1226.711	1226.140	1225.980	1222.528	1220.419
45.5	1213.859	1210.952	1208.029	1208.012	1205.761	1203.619	1204.090	1203.174	1198.747	1196.076
46.0	1188.944	1186.441	1184.249	1184.291	1182.266	1180.603	1181.527	1180.687	1174.975	1170.775
46.5	1164.114	1161.745	1160.830	1160.863	1159.200	1157.839	1158.948	1158.301	1150.842	1145.508
47.0	1140.224	1137.587	1136.764	1136.696	1135.646	1135.352	1136.940	1135.403	1126.616	1119.594
47.5	1115.461	1113.647	1112.714	1112.790	1112.059	1112.597	1114.084	1112.219	1101.366	1093.327
48.0	1091.538	1089.606	1089.312	1089.413	1088.581	1090.622	1091.236	1089.337	1075.872	1067.086
48.5	1067.027	1065.750	1065.431	1065.750	1064.910	1067.396	1068.623	1065.238	1050.361	1039.744
49.0	1043.591	1041.961	1041.331	1041.608	1041.113	1044.683	1045.288	1041.113	1024.254	1011.822
49.5	1020.214	1018.265	1018.240	1017.702	1017.979	1021.558	1021.969	1017.190	997.651	984.043
50.0	996.643	994.972	994.274	993.779	994.073	998.441	998.248	992.132	970.578	956.096
50.5	974.089	971.796	970.074	969.797	969.839	974.728	973.938	966.983	943.463	927.755
51.0	951.040	948.444	946.176	946.025	946.252	951.048	948.940	941.531	916.331	900.228
51.5	928.360	925.865	922.404	922.202	922.362	926.848	924.302	916.062	889.434	873.172
52.0	906.394	902.656	898.489	898.061	898.355	902.555	899.682	890.450	862.680	845.905
52.5	884.016	880.362	875.263	873.751	873.902	877.926	874.381	863.940	836.136	819.974
53.0	862.470	857.858	851.130	850.004	849.904	853.331	848.820	838.396	810.348	794.951
53.5	840.806	835.430	826.980	825.762	825.922	828.307	823.124	812.322	784.770	769.885
54.0	819.118	813.380	803.914	802.166	801.814	803.645	798.034	786.954	760.259	746.483
54.5	798.412	791.314	780.478	778.529	777.689	778.394	772.800	761.628	736.159	723.576

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CANDELA TABULATION - (Cont.)

55.0	777.235	769.541	757.067	755.000	753.203	753.665	747.390	736.982	712.874	700.963
55.5	756.722	747.986	734.126	732.043	729.406	728.675	722.492	712.530	690.068	679.636
56.0	736.008	726.701	711.287	708.691	705.592	704.197	698.074	688.514	668.430	658.669
56.5	715.907	705.390	689.060	686.204	682.416	679.568	674.537	665.272	647.069	638.501
57.0	696.343	684.835	667.145	664.062	659.476	656.141	650.597	642.936	626.539	619.441
57.5	676.528	664.532	645.364	642.365	636.796	633.016	627.656	620.483	607.093	600.743
58.0	657.317	644.507	624.044	620.575	614.452	610.042	605.010	598.618	587.303	582.742
58.5	638.291	624.859	603.758	599.911	592.612	587.320	583.212	577.836	568.512	565.194
59.0	620.113	606.010	583.615	579.491	571.654	565.723	561.918	557.164	550.343	547.831
59.5	602.036	587.034	563.556	559.356	550.813	544.177	540.918	537.214	532.543	531.451
60.0	584.237	568.588	544.673	539.910	530.804	523.648	520.548	517.793	515.374	515.617
60.5	567.370	551.166	526.000	521.060	511.300	503.538	500.648	498.557	498.607	499.842
61.0	550.326	533.408	507.973	503.101	492.341	484.109	481.454	479.808	482.202	485.335
61.5	533.828	516.466	490.510	485.444	474.205	464.965	462.496	462.050	466.259	470.803
62.0	518.028	500.220	473.911	468.787	456.540	446.645	444.360	444.074	451.256	456.952
62.5	502.488	484.168	457.867	452.222	439.765	428.719	426.040	426.493	436.212	443.638
63.0	487.099	468.787	442.134	436.884	423.301	411.508	408.484	409.710	421.814	431.088
63.5	472.744	454.238	427.056	421.806	407.677	394.666	391.952	393.254	408.484	419.118
64.0	458.170	439.606	412.969	407.593	392.507	378.622	375.673	377.546	394.632	407.635
64.5	444.100	426.224	399.084	393.632	377.857	362.762	359.713	362.242	381.914	396.472
65.0	431.004	412.843	385.820	380.596	364.106	347.794	344.350	347.374	369.760	386.299
65.5	417.690	399.773	373.573	367.912	350.666	332.900	329.767	333.463	358.033	376.270
66.0	404.972	387.500	361.418	355.933	338.024	319.351	315.563	319.897	347.147	366.988
66.5	392.885	375.606	350.423	344.207	325.962	305.920	301.837	306.928	336.806	358.201
67.0	380.730	364.325	339.158	333.001	314.118	293.009	289.111	294.739	326.558	350.028
67.5	368.332	353.699	329.112	322.560	303.122	280.644	276.872	282.702	317.453	341.771
68.0	357.260	342.955	319.099	313.135	292.832	268.850	265.482	272.202	308.456	334.320
68.5	345.769	333.001	309.943	303.778	282.316	257.628	254.344	261.887	300.166	326.768
69.0	334.715	323.240	300.728	294.622	272.941	247.178	244.146	252.470	292.295	319.687
69.5	324.794	314.286	292.606	286.163	263.953	237.040	234.486	243.524	284.752	313.211
70.0	313.799	305.508	284.466	277.990	254.747	227.942	225.582	235.368	277.729	306.827
70.5	304.282	297.377	276.990	270.430	246.742	219.484	217.636	227.506	271.093	300.594
71.0	294.689	289.246	269.732	262.399	238.753	211.772	210.428	220.996	264.978	294.512
71.5	285.802	281.669	262.693	255.679	231.034	204.540	203.566	214.645	258.955	288.607
72.0	276.595	274.319	256.082	248.909	223.860	198.114	197.929	209.278	253.159	282.727
72.5	268.405	267.473	249.337	242.239	217.115	192.125	192.679	204.506	248.027	277.049
73.0	260.240	261.131	243.012	236.057	210.588	186.908	188.328	199.987	242.558	271.236
73.5	252.655	254.268	236.830	229.690	204.448	182.456	184.472	195.737	237.510	265.297
74.0	245.356	247.775	230.908	223.558	198.475	178.340	180.953	192.234	232.243	259.493
74.5	238.022	241.282	224.507	217.417	193.066	174.703	177.694	188.882	227.153	253.411
75.0	232.285	235.318	218.459	211.537	188.210	171.721	175.106	185.413	221.676	247.288
75.5	225.733	228.875	212.167	205.346	182.834	168.714	172.628	182.372	216.124	241.105
76.0	219.089	222.247	205.808	199.366	177.954	166.202	170.260	179.525	210.823	234.654
76.5	213.872	216.426	199.525	193.427	173.460	163.985	167.975	176.694	205.086	228.799
77.0	207.908	209.824	192.923	187.051	168.949	161.557	165.564	173.687	199.550	222.289
77.5	201.575	202.650	185.900	180.718	164.581	159.289	163.548	171.184	193.864	215.872
78.0	195.745	196.073	179.298	174.115	160.516	156.794	160.986	167.983	188.294	209.563
78.5	190.109	188.933	172.032	167.664	156.820	154.174	158.441	164.380	182.204	203.196
79.0	183.901	181.919	165.001	161.028	152.468	151.183	155.098	161.204	176.551	196.636
79.5	177.114	174.233	158.130	154.930	148.697	147.899	151.654	157.399	170.755	190.714
80.0	171.100	166.648	150.898	147.865	144.110	144.530	148.008	153.082	165.371	184.464
80.5	163.825	159.004	144.068	141.179	139.759	140.272	143.968	148.344	159.524	178.248
81.0	156.005	151.553	136.727	134.694	134.795	135.862	138.928	143.766	154.241	172.116
81.5	148.571	143.598	129.738	128.142	130.368	130.973	133.972	138.600	148.243	165.934
82.0	140.818	135.878	122.455	121.162	124.849	125.513	128.512	133.048	142.909	159.634
82.5	131.922	128.285	115.836	114.030	119.347	119.944	122.606	126.790	137.038	152.914

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CANDELA TABULATION - (Cont.)

83.0	123.858	120.557	108.688	107.688	113.064	114.106	116.432	120.616	131.552	146.210
83.5	114.433	113.039	102.102	101.195	106.361	107.066	109.780	113.879	125.706	139.163
84.0	106.436	105.403	95.676	94.718	99.868	100.330	102.841	106.907	119.414	132.031
84.5	97.768	97.818	88.754	88.158	92.308	92.870	95.180	99.784	112.770	124.051
85.0	89.048	89.981	81.682	81.329	84.882	85.075	88.082	92.140	105.840	115.819
85.5	80.674	82.127	75.155	74.785	76.969	77.146	80.321	84.218	98.246	106.537
86.0	72.080	74.348	68.032	67.595	69.468	68.964	72.055	76.600	89.922	96.096
86.5	63.277	65.856	60.388	60.169	61.076	60.480	64.176	68.737	81.052	85.823
87.0	54.188	57.196	52.508	52.433	52.954	52.349	55.852	60.505	71.686	75.079
87.5	45.293	48.670	44.503	44.394	44.344	44.142	47.527	51.954	61.908	64.638
88.0	35.944	39.732	36.515	36.204	36.641	36.170	39.572	43.428	52.349	54.785
88.5	27.485	31.013	28.501	28.594	29.148	28.409	31.836	35.540	43.445	45.654
89.0	19.118	22.646	21.311	21.025	22.344	21.706	24.772	28.274	34.390	36.926
89.5	12.718	15.506	14.700	14.389	15.666	15.296	18.236	21.101	25.712	28.745
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	2229.410	2229.410	2229.410
0.5	2226.647	2225.429	2223.421
1.0	2226.160	2224.606	2222.153
1.5	2224.916	2223.808	2221.153
2.0	2224.547	2222.875	2220.733
2.5	2223.900	2222.690	2220.221
3.0	2223.085	2221.624	2219.440
3.5	2222.531	2220.826	2217.986
4.0	2221.607	2220.464	2217.356
4.5	2220.288	2219.566	2216.752
5.0	2219.112	2217.902	2214.996
5.5	2217.298	2215.500	2212.493
6.0	2214.937	2213.551	2209.914
6.5	2212.501	2211.040	2207.386
7.0	2209.973	2208.410	2204.975
7.5	2207.285	2205.613	2202.497
8.0	2204.530	2203.169	2200.120
8.5	2201.522	2199.792	2196.776
9.0	2197.726	2196.323	2192.744
9.5	2194.021	2192.635	2188.763
10.0	2190.224	2189.057	2184.882
10.5	2185.940	2184.840	2180.951
11.0	2181.220	2179.783	2176.457
11.5	2177.053	2175.197	2171.299
12.0	2172.526	2170.073	2166.108
12.5	2167.150	2164.294	2160.782
13.0	2160.883	2159.128	2154.415
13.5	2155.440	2153.407	2149.014
14.0	2149.669	2146.939	2143.042
14.5	2143.554	2140.454	2136.792
15.0	2137.170	2134.188	2130.702
15.5	2130.257	2127.636	2123.772
16.0	2122.831	2120.546	2116.624
16.5	2115.574	2113.146	2109.164
17.0	2107.896	2105.586	2101.151
17.5	2099.429	2097.396	2093.347
18.0	2091.272	2088.794	2084.762

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CANDELA TABULATION - (Cont.)

18.5	2082.595	2080.151	2076.077
19.0	2074.321	2071.516	2067.131
19.5	2065.325	2062.805	2058.143
20.0	2056.001	2053.313	2048.416
20.5	2045.954	2043.342	2038.680
21.0	2036.395	2033.094	2028.852
21.5	2026.030	2023.232	2018.772
22.0	2015.378	2013.320	2008.994
22.5	2004.895	2002.904	1998.158
23.0	1994.236	1992.144	1986.995
23.5	1983.223	1980.661	1975.420
24.0	1972.043	1969.447	1964.752
24.5	1960.442	1957.838	1953.907
25.0	1948.573	1945.936	1942.214
25.5	1936.351	1934.142	1930.454
26.0	1924.364	1921.718	1918.014
26.5	1911.596	1908.942	1905.565
27.0	1898.518	1895.620	1892.461
27.5	1885.439	1882.423	1878.744
28.0	1871.974	1869.235	1865.850
28.5	1858.105	1855.417	1851.982
29.0	1843.926	1842.070	1838.407
29.5	1829.780	1828.033	1824.648
30.0	1815.820	1814.098	1810.301
30.5	1800.834	1799.717	1796.483
31.0	1786.050	1785.596	1781.354
31.5	1770.409	1770.745	1766.696
32.0	1755.407	1755.424	1751.375
32.5	1739.430	1739.447	1736.549
33.0	1723.201	1723.638	1721.160
33.5	1707.040	1707.695	1705.133
34.0	1689.803	1690.962	1689.114
34.5	1672.885	1674.002	1671.911
35.0	1654.976	1656.732	1655.405
35.5	1636.790	1638.907	1637.336
36.0	1618.386	1620.738	1619.377
36.5	1599.578	1601.536	1601.292
37.0	1579.746	1583.106	1582.098
37.5	1559.930	1563.106	1562.593
38.0	1539.233	1542.988	1542.526
38.5	1518.485	1522.097	1521.652
39.0	1497.451	1501.156	1500.811
39.5	1476.224	1479.467	1479.206
40.0	1453.990	1457.845	1456.972
40.5	1432.007	1435.342	1434.451
41.0	1409.201	1412.569	1412.040
41.5	1386.739	1389.436	1389.276
42.0	1363.547	1366.445	1366.252
42.5	1340.514	1343.034	1343.244
43.0	1316.456	1319.027	1319.153
43.5	1292.894	1294.969	1295.893
44.0	1268.576	1270.928	1271.886
44.5	1244.267	1246.148	1246.678
45.0	1219.789	1221.226	1221.503
45.5	1194.883	1195.832	1195.916
46.0	1169.759	1169.322	1169.582

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CANDELA TABULATION - (Cont.)

46.5	1144.122	1142.761	1142.795
47.0	1117.637	1115.444	1115.134
47.5	1091.059	1087.540	1086.658
48.0	1064.330	1059.559	1058.299
48.5	1036.602	1031.075	1029.546
49.0	1008.462	1001.566	1000.196
49.5	980.213	972.972	971.704
50.0	952.249	944.462	943.387
50.5	923.891	916.339	915.726
51.0	896.112	888.947	889.266
51.5	868.854	862.520	862.840
52.0	841.966	836.472	838.236
52.5	816.295	811.490	814.002
53.0	790.726	787.760	790.524
53.5	766.794	764.484	767.500
54.0	742.896	742.400	746.172
54.5	720.703	720.787	725.222
55.0	698.762	699.737	704.693
55.5	677.687	679.384	685.205
56.0	656.779	660.156	666.095
56.5	637.224	640.802	647.178
57.0	618.047	622.558	629.126
57.5	599.390	604.649	610.798
58.0	581.566	587.202	593.586
58.5	564.169	570.410	577.231
59.0	547.420	554.299	560.860
59.5	531.476	538.054	544.891
60.0	515.668	522.808	529.234
60.5	500.438	507.721	513.576
61.0	485.688	493.147	499.069
61.5	471.853	479.674	484.495
62.0	458.371	465.906	470.887
62.5	445.628	452.861	457.120
63.0	433.381	440.639	445.158
63.5	421.470	429.005	432.550
64.0	410.374	418.060	421.092
64.5	399.857	407.291	409.550
65.0	389.861	397.572	399.202
65.5	380.638	387.610	388.819
66.0	371.389	378.655	379.512
66.5	362.930	369.944	369.667
67.0	354.488	361.595	360.805
67.5	347.122	353.338	352.019
68.0	339.478	345.719	343.854
68.5	332.480	338.562	336.470
69.0	325.542	331.254	329.238
69.5	319.124	324.744	322.308
70.0	312.782	318.335	315.874
70.5	306.566	311.926	309.506
71.0	300.661	305.760	303.929
71.5	295.033	299.704	298.519
72.0	288.994	293.941	292.925
72.5	283.139	288.389	288.154
73.0	277.477	282.719	283.550
73.5	271.295	277.309	278.712
74.0	265.432	271.648	273.697

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CANDELA TABULATION - (Cont.)

74.5	259.207	265.919	269.514
75.0	252.781	260.711	264.625
75.5	247.229	255.016	260.182
76.0	240.274	249.085	255.595
76.5	234.091	243.558	250.337
77.0	227.623	237.947	245.482
77.5	221.281	231.790	239.963
78.0	215.048	225.742	234.864
78.5	208.782	219.618	228.925
79.0	202.222	213.310	222.986
79.5	196.526	206.951	216.014
80.0	190.504	200.046	209.026
80.5	184.464	193.099	201.407
81.0	177.576	186.152	194.032
81.5	171.326	179.088	186.186
82.0	164.522	171.595	177.845
82.5	158.155	163.439	169.529
83.0	150.713	156.022	160.322
83.5	143.690	148.050	150.116
84.0	136.181	139.726	139.734
84.5	128.663	131.435	129.528
85.0	119.952	122.522	118.180
85.5	110.561	113.534	107.654
86.0	100.372	104.328	97.096
86.5	89.762	93.568	86.083
87.0	79.237	81.715	75.684
87.5	68.603	70.358	65.167
88.0	57.590	59.346	54.558
88.5	47.695	49.148	44.848
89.0	38.245	40.370	35.078
89.5	28.980	31.920	26.452
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	814.74	N.A.	16.00
0-30	1716.17	N.A.	33.80
0-40	2751.48	N.A.	54.20
0-60	4356.59	N.A.	85.80
0-80	4975.63	N.A.	98.00
0-90	5078.36	N.A.	100.00
10-90	4867.34	N.A.	95.80
20-40	1936.74	N.A.	38.10
20-50	2879.6	N.A.	56.70
40-70	1990.33	N.A.	39.20
60-80	619.04	N.A.	12.20
70-80	233.81	N.A.	4.60
80-90	102.73	N.A.	2.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5078.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.01
10-20	603.73
20-30	901.43
30-40	1035.32
40-50	942.86
50-60	662.25
60-70	385.23
70-80	233.81
80-90	102.73
90-100	0.00
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

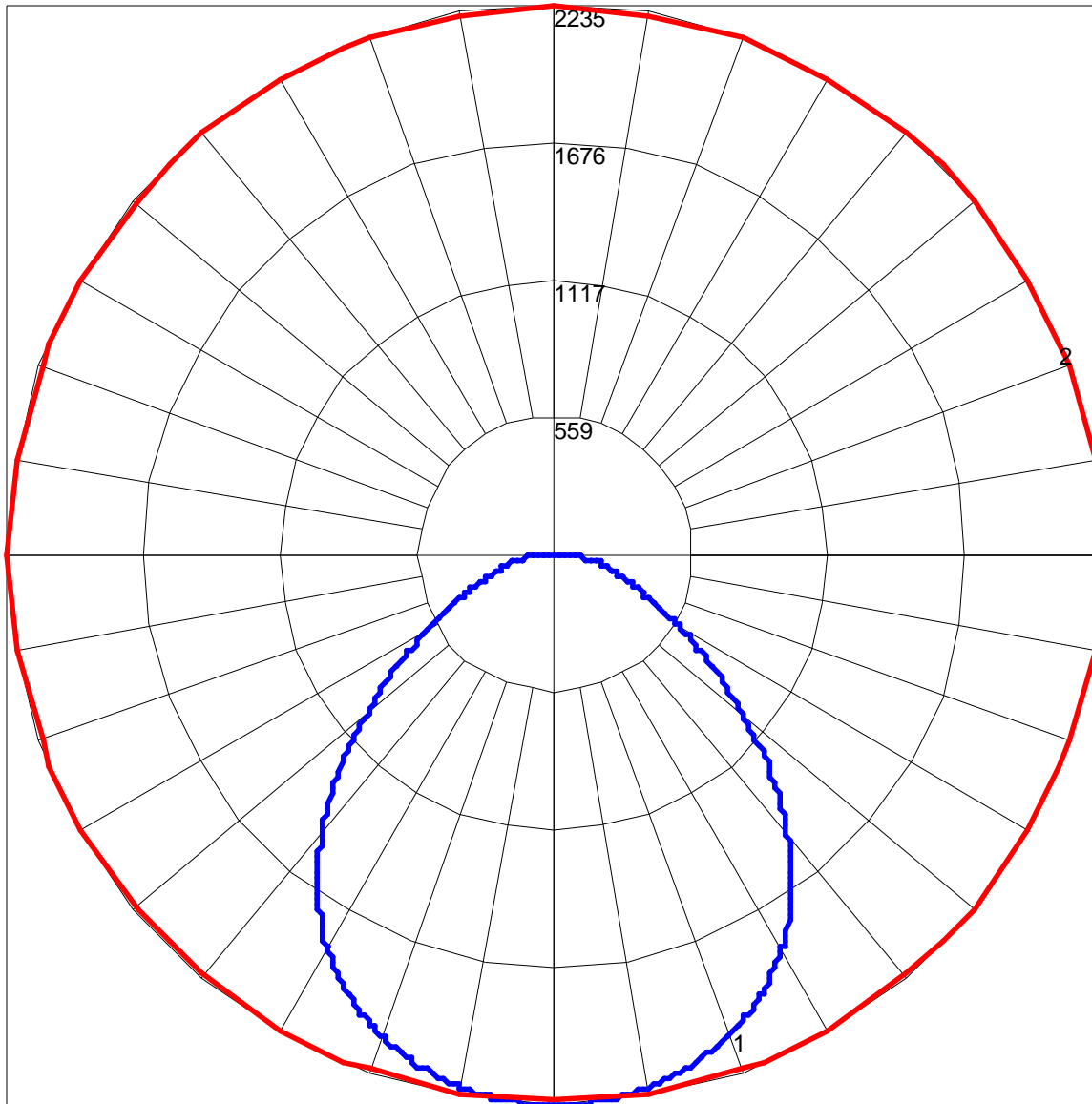
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

POLAR GRAPH



Maximum Candela = 2234.929 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)