



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MCTAX-22-L68-840-CS-SCPC-DIM-UNV\_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN from UL #15318387.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 7/9/2024  
[TEST DATE] 6/6/2024  
[MANUFAC] H E WILLIAMS INC  
[LUMCAT] MCTAx-22-L68-840-CS-SCPC-DIM-UNV  
[LUMINAIRE] White 2x2 Architectural Cleanroom Troffer  
[LAMP] 4000k LED  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.  
[OTHER] The reported results were measured in a facility that meets th  
[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de  
[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	58.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.60
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.58 ft
Luminous Width (90-270)	1.58 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7896	10194	12980
55	7364	10881	13825
65	6439	10666	12117
75	4691	7478	5248
85	1762	1768	1591

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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	2073.360	2073.360	2073.360	2073.360	2073.360
0.5	2063.429	2075.397	2077.435	2072.851	2070.559
1.0	2063.174	2075.143	2076.925	2072.596	2070.304
1.5	2063.174	2074.379	2076.416	2072.087	2070.050
2.0	2062.410	2073.870	2075.652	2071.323	2069.031
2.5	2061.392	2072.596	2074.888	2070.559	2068.777
3.0	2059.609	2071.578	2073.360	2069.541	2067.758
3.5	2058.081	2070.304	2072.596	2069.031	2067.758
4.0	2056.044	2068.522	2071.323	2067.249	2065.721
4.5	2054.007	2066.230	2069.031	2065.721	2064.957
5.0	2051.460	2064.448	2068.013	2065.211	2064.193
5.5	2049.423	2062.156	2065.975	2063.938	2062.665
6.0	2045.858	2060.118	2063.684	2061.901	2060.882
6.5	2043.312	2057.063	2061.646	2060.373	2059.609
7.0	2040.765	2053.752	2059.355	2059.355	2058.591
7.5	2037.709	2051.206	2056.808	2057.572	2056.808
8.0	2034.144	2048.150	2054.262	2055.789	2055.535
8.5	2031.088	2044.839	2051.970	2053.752	2054.007
9.0	2027.778	2041.784	2049.423	2051.460	2052.224
9.5	2023.194	2037.964	2046.622	2049.932	2050.696
10.0	2019.120	2034.399	2043.312	2047.895	2049.169
10.5	2015.555	2030.324	2040.256	2045.603	2047.641
11.0	2010.716	2025.995	2037.200	2043.821	2045.858
11.5	2005.623	2022.176	2034.144	2041.529	2044.076
12.0	2001.040	2017.337	2030.324	2039.237	2042.038
12.5	1995.692	2013.263	2026.759	2036.691	2040.765
13.0	1990.344	2008.425	2023.194	2033.890	2037.964
13.5	1985.251	2003.332	2018.865	2031.598	2037.200
14.0	1979.649	1997.475	2014.791	2029.306	2034.908
14.5	1973.028	1991.872	2010.462	2026.759	2032.616
15.0	1966.917	1985.761	2006.133	2023.704	2031.598
15.5	1960.550	1978.885	2002.058	2021.412	2029.560
16.0	1952.911	1972.264	1995.692	2018.356	2026.759
16.5	1945.526	1965.643	1990.599	2015.555	2025.231
17.0	1938.141	1958.768	1985.506	2011.735	2023.194
17.5	1930.247	1951.128	1979.904	2008.679	2021.157
18.0	1921.589	1943.743	1974.301	2005.369	2018.356
18.5	1914.204	1936.104	1968.190	2002.058	2015.809
19.0	1904.782	1928.210	1962.078	1998.239	2013.772
19.5	1897.142	1919.806	1956.476	1994.419	2011.735
20.0	1887.975	1911.658	1950.110	1991.363	2010.207
20.5	1880.081	1904.018	1944.253	1988.307	2008.934
21.0	1871.168	1896.124	1938.650	1985.761	2007.915
21.5	1862.001	1887.975	1932.793	1983.978	2007.406
22.0	1852.324	1879.317	1926.682	1982.196	2007.151
22.5	1845.958	1870.914	1920.825	1980.668	2008.170
23.0	1839.082	1862.510	1915.477	1979.394	2008.934
23.5	1831.188	1854.107	1910.384	1978.121	2009.952
24.0	1826.095	1847.740	1904.782	1977.357	2011.735
24.5	1816.164	1842.393	1898.670	1976.848	2014.281
25.0	1806.487	1836.790	1893.323	1976.339	2016.064
25.5	1797.065	1829.406	1888.230	1975.829	2017.337
26.0	1787.134	1820.238	1883.137	1975.575	2020.393
26.5	1777.457	1811.071	1876.516	1975.320	2022.685

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**CANDELA TABULATION - (Cont.)**

27.0	1767.526	1801.394	1870.659	1975.065	2025.995
27.5	1756.830	1791.463	1864.802	1974.811	2028.287
28.0	1746.135	1781.531	1859.454	1975.065	2031.088
28.5	1735.440	1771.855	1855.125	1975.320	2034.144
29.0	1724.235	1761.923	1849.014	1975.575	2038.473
29.5	1712.776	1751.228	1845.449	1976.339	2043.057
30.0	1701.571	1740.533	1840.356	1976.848	2046.877
30.5	1689.857	1729.837	1835.263	1977.357	2051.715
31.0	1677.634	1719.142	1828.642	1978.630	2061.646
31.5	1665.666	1707.938	1823.039	1980.158	2073.106
32.0	1653.442	1696.733	1818.965	1981.941	2084.820
32.5	1641.474	1685.783	1812.853	1984.487	2095.006
33.0	1629.251	1674.578	1806.996	1988.562	2107.738
33.5	1616.773	1663.374	1800.885	1994.928	2119.707
34.0	1604.295	1651.660	1794.773	2000.530	2127.855
34.5	1591.308	1639.946	1788.662	2006.387	2134.222
35.0	1578.575	1628.487	1782.550	2013.263	2140.333
35.5	1565.843	1617.027	1776.693	2019.629	2145.681
36.0	1552.856	1605.059	1770.836	2024.467	2150.519
36.5	1539.359	1593.345	1764.470	2027.778	2155.612
37.0	1525.863	1580.867	1758.358	2030.324	2160.451
37.5	1512.621	1568.389	1752.247	2033.126	2163.506
38.0	1499.379	1556.421	1746.135	2035.417	2166.053
38.5	1485.373	1544.198	1740.023	2037.455	2168.854
39.0	1471.877	1531.720	1734.166	2038.983	2171.146
39.5	1458.126	1519.242	1728.564	2039.746	2171.910
40.0	1444.629	1506.509	1723.217	2040.001	2171.655
40.5	1430.878	1493.777	1719.397	2040.001	2171.146
41.0	1416.363	1481.044	1715.832	2039.492	2168.599
41.5	1402.358	1468.312	1712.267	2037.964	2165.034
42.0	1388.097	1455.579	1708.192	2035.417	2160.451
42.5	1373.073	1442.847	1705.391	2031.852	2154.848
43.0	1359.322	1429.860	1702.081	2027.269	2148.737
43.5	1344.552	1416.873	1697.752	2021.921	2142.625
44.0	1330.037	1403.631	1692.149	2016.319	2141.606
44.5	1316.286	1390.134	1686.038	2009.188	2140.843
45.0	1301.007	1376.893	1679.671	2000.785	2138.805
45.5	1285.982	1363.396	1673.305	1991.618	2135.750
46.0	1270.958	1349.900	1666.684	1983.469	2128.110
46.5	1255.934	1336.149	1659.809	1976.593	2117.924
47.0	1240.655	1322.397	1652.169	1968.699	2105.955
47.5	1225.121	1308.901	1644.020	1960.805	2096.024
48.0	1209.842	1295.150	1634.853	1951.128	2083.546
48.5	1194.308	1280.889	1624.412	1938.905	2070.559
49.0	1179.029	1267.138	1612.698	1925.918	2058.081
49.5	1163.241	1252.369	1600.730	1912.167	2045.603
50.0	1147.198	1238.108	1589.016	1897.906	2031.343
50.5	1131.155	1223.593	1577.302	1883.901	2017.337
51.0	1115.112	1209.078	1565.079	1869.895	2003.332
51.5	1099.324	1194.308	1553.110	1855.635	1986.779
52.0	1083.281	1179.539	1540.632	1843.411	1969.208
52.5	1066.983	1165.024	1527.391	1832.461	1951.892
53.0	1050.686	1149.999	1514.149	1817.946	1933.303
53.5	1033.879	1134.975	1499.888	1801.649	1912.676
54.0	1017.327	1120.460	1485.373	1784.587	1890.522
54.5	1000.774	1105.436	1470.094	1766.762	1869.386

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**CANDELA TABULATION - (Cont.)**

55.0	984.222	1090.411	1454.306	1748.172	1847.740
55.5	967.415	1075.132	1437.754	1727.546	1822.785
56.0	950.863	1059.599	1421.202	1705.646	1799.612
56.5	933.547	1044.320	1404.140	1682.727	1770.836
57.0	917.249	1029.041	1386.569	1658.535	1741.551
57.5	899.933	1013.762	1369.253	1632.306	1711.248
58.0	882.872	998.228	1352.191	1605.823	1681.199
58.5	865.810	982.440	1334.111	1578.575	1649.368
59.0	847.984	966.651	1315.267	1549.545	1615.500
59.5	830.414	951.118	1296.168	1519.497	1580.613
60.0	812.843	934.820	1277.070	1488.684	1547.253
60.5	795.527	918.777	1257.716	1457.107	1513.130
61.0	777.956	902.734	1238.108	1425.276	1478.753
61.5	760.130	886.946	1216.972	1391.917	1443.356
62.0	742.050	870.648	1195.836	1357.284	1407.705
62.5	723.970	854.351	1173.682	1322.652	1372.309
63.0	705.890	838.053	1150.509	1287.001	1337.167
63.5	687.810	821.501	1126.062	1249.058	1300.243
64.0	669.729	804.949	1101.616	1210.606	1265.610
64.5	651.904	788.142	1076.406	1172.154	1230.723
65.0	634.078	771.335	1050.431	1135.230	1193.290
65.5	615.998	754.273	1023.438	1099.579	1156.366
66.0	598.173	736.702	995.427	1064.692	1120.205
66.5	580.347	719.386	966.397	1030.823	1084.809
67.0	562.522	701.815	937.621	995.681	1050.177
67.5	544.696	683.990	907.827	960.794	1014.780
68.0	526.871	665.910	877.779	925.907	978.875
68.5	509.045	647.320	847.221	891.275	941.950
69.0	491.474	628.476	816.917	856.643	898.405
69.5	472.630	609.123	786.105	822.265	855.115
70.0	455.060	590.024	755.292	787.887	812.843
70.5	437.234	570.416	724.225	753.255	771.080
71.0	419.154	550.808	693.412	717.604	724.734
71.5	402.092	530.436	662.599	680.934	676.096
72.0	384.521	510.064	631.532	644.519	631.787
72.5	366.951	489.692	601.229	607.086	584.931
73.0	350.144	469.065	571.180	569.143	532.728
73.5	332.828	449.203	540.877	528.908	477.214
74.0	315.766	428.576	510.573	486.636	421.446
74.5	299.214	408.459	481.034	440.799	366.951
75.0	282.916	388.341	450.985	391.397	316.530
75.5	267.382	367.460	420.936	342.504	273.749
76.0	251.543	346.579	391.652	297.177	241.230
76.5	236.086	325.697	362.876	257.196	217.420
77.0	220.680	304.816	333.337	224.780	197.456
77.5	205.452	283.425	303.543	200.613	179.885
78.0	190.835	262.035	272.475	181.285	164.326
78.5	176.931	241.383	240.695	164.173	150.676
79.0	163.409	221.214	209.322	149.098	137.969
79.5	150.091	201.199	180.114	135.499	126.001
80.0	137.027	181.667	154.649	123.098	114.745
80.5	124.778	162.900	133.819	111.409	104.305
81.0	112.734	145.125	117.394	100.256	94.399
81.5	101.071	127.809	103.337	89.942	85.053
82.0	89.866	110.976	91.012	80.164	76.293
82.5	79.094	95.621	80.011	70.996	67.915

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**CANDELA TABULATION - (Cont.)**

83.0	69.112	81.845	69.876	62.135	59.868
83.5	60.199	69.519	60.632	54.037	52.356
84.0	51.643	58.468	51.847	46.703	45.200
84.5	43.189	48.562	43.545	39.955	38.452
85.0	35.778	39.649	35.906	33.639	32.315
85.5	29.132	31.653	29.285	28.011	26.942
86.0	23.122	24.854	23.632	23.071	22.155
86.5	17.927	19.175	18.691	18.258	17.367
87.0	13.598	14.490	14.388	13.496	12.172
87.5	10.084	10.797	10.644	9.295	7.971
88.0	7.436	7.869	7.436	6.188	5.399
88.5	5.373	5.424	4.813	3.922	3.641
89.0	3.310	3.132	2.699	2.139	2.037
89.5	0.840	1.477	1.401	1.146	1.095
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
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  
PHOTOMETRIC FILENAME : MCTAX-22-L68-840-CS-SCPC-DIM-UNV\_.IES

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MCTAX-22-L68-840-CS-SCPC-DIM-UNV\_.IES

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**  
**PHOTOMETRIC FILENAME : MCTAX-22-L68-840-CS-SCPC-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	761.97	N.A.	11.20
0-30	1641.75	N.A.	24.20
0-40	2782.65	N.A.	41.00
0-60	5355.81	N.A.	79.00
0-80	6726.72	N.A.	99.20
0-90	6779.21	N.A.	100.00
10-90	6582.98	N.A.	97.10
20-40	2020.68	N.A.	29.80
20-50	3325.63	N.A.	49.10
40-70	3527.19	N.A.	52.00
60-80	1370.91	N.A.	20.20
70-80	416.88	N.A.	6.10
80-90	52.48	N.A.	0.80
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	6779.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.23
10-20	565.74
20-30	879.78
30-40	1140.9
40-50	1304.95
50-60	1268.21
60-70	954.03
70-80	416.88
80-90	52.48
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MCTAX-22-L68-840-CS-SCPC-DIM-UNV\_.IES**

**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
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	95	98	95	92	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTAX-22-L68-840-CS-SCPC-DIM-UNV\_.IES

## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	18.9	20.6	19.3	20.9	21.2	22.4	24.1	22.8	24.4	24.8
	3H	20.6	22.1	21.0	22.4	22.8	24.0	25.5	24.3	25.8	26.2
	4H	21.1	22.5	21.5	22.8	23.2	24.2	25.7	24.6	26.0	26.4
	6H	21.3	22.6	21.7	23.0	23.4	24.2	25.6	24.7	25.9	26.3
	8H	21.4	22.6	21.8	23.0	23.4	24.2	25.5	24.7	25.9	26.3
	12H	21.4	22.6	21.8	23.0	23.4	24.2	25.4	24.7	25.8	26.2

### UGR Viewed Endwise

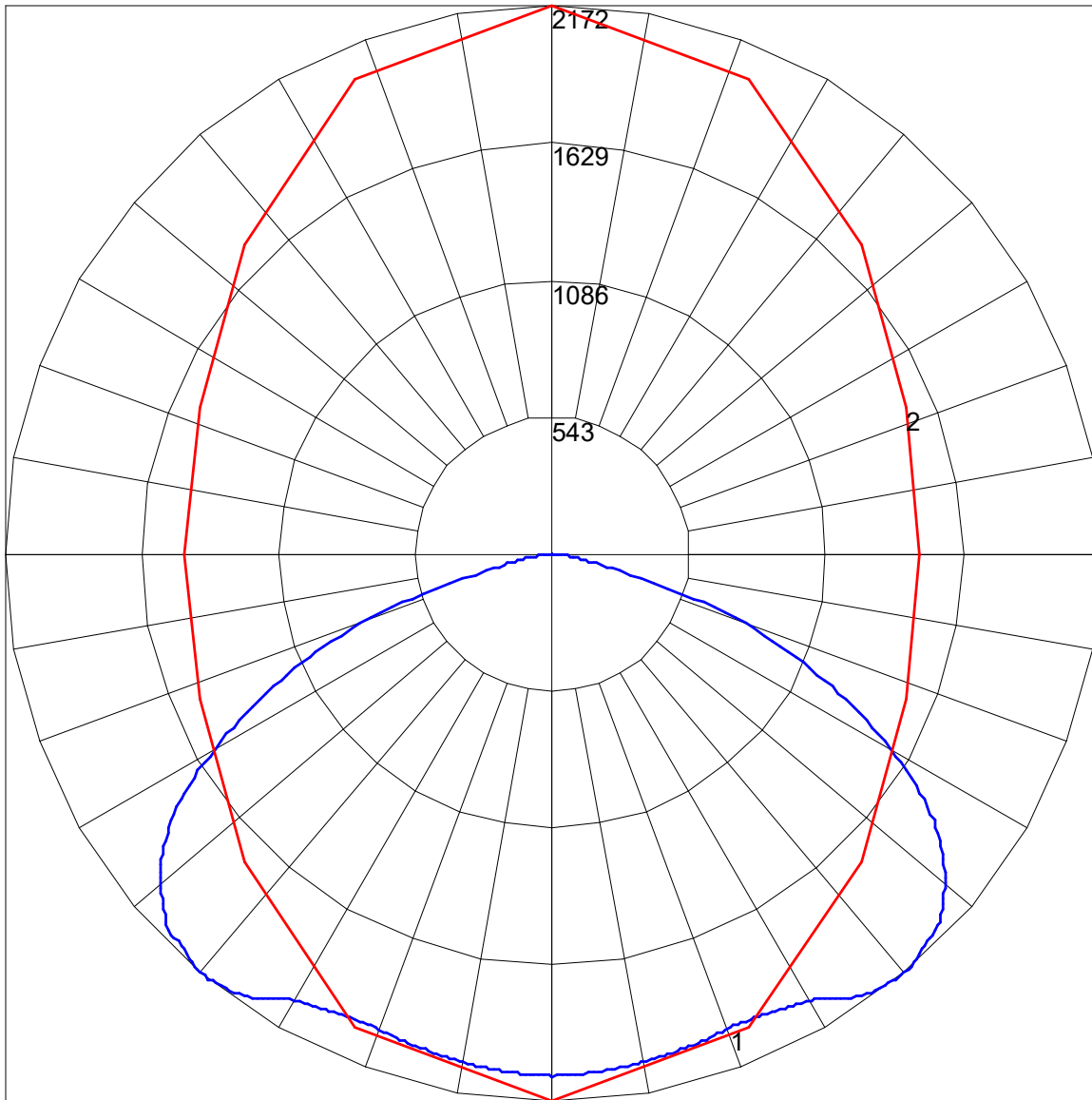
4H	2H	20.3	21.7	20.7	22.1	22.4	22.9	24.3	23.3	24.7	25.1
	3H	22.1	23.2	22.5	23.6	24.0	24.6	25.8	25.0	26.2	26.6
	4H	22.6	23.7	23.0	24.1	24.5	24.9	26.0	25.4	26.4	26.9
	6H	22.9	23.9	23.4	24.3	24.8	25.0	25.9	25.5	26.4	26.8
	8H	23.0	23.8	23.4	24.3	24.8	25.0	25.9	25.5	26.3	26.8
	12H	23.0	23.8	23.5	24.2	24.7	25.0	25.8	25.5	26.3	26.7

8H	4H	23.0	23.9	23.4	24.3	24.8	25.1	25.9	25.5	26.4	26.9
	6H	23.3	24.1	23.8	24.6	25.0	25.2	25.9	25.6	26.4	26.8
	8H	23.4	24.1	23.9	24.6	25.1	25.2	25.8	25.7	26.3	26.8
	12H	23.5	24.0	24.0	24.5	25.1	25.2	25.7	25.7	26.2	26.8

12H	4H	23.0	23.8	23.5	24.2	24.7	25.1	25.9	25.5	26.3	26.8
	6H	23.4	24.0	23.9	24.5	25.0	25.2	25.8	25.7	26.3	26.8
	8H	23.5	24.0	24.0	24.5	25.1	25.2	25.7	25.7	26.2	26.8

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 2171.91 Located At Horizontal Angle = 90, Vertical Angle = 39.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (39.5) (Through Max. Cd.)