



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-24-LS-8CS-AF-DIM-UNV_39W_4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 15184934.07
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2024-03-14
[TEST DATE] 2/27/2024
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] FT-24-LS-8CS-AF-DIM-UNV_39W_4000K_
[LUMINAIRE] Recessed 2 x 4 Lumen/Wattage selectable, CCT selectable,
[MORE] LED Troffer w/center frosted acrylic lens.
[LAMP] HLM 80 CRI 3500/5000K CCT LED
[BALLAST] 0-10V DIMMING DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	38.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2496	2710	2944
55	2325	2666	2999
65	2103	2683	3193
75	1793	2922	3760
85	1406	3453	3601

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	2029.290	2029.290	2029.290	2029.290	2029.290	2029.290	2029.290	2029.290	2029.290
0.5	2017.509	2032.235	2023.399	2035.180	2033.707	2035.180	2026.344	2036.653	2016.036
1.0	2014.563	2030.762	2024.872	2032.235	2029.290	2030.762	2027.817	2032.235	2016.036
1.5	2011.618	2032.235	2024.872	2032.235	2033.707	2030.762	2021.926	2036.653	2014.563
2.0	2014.563	2030.762	2024.872	2027.817	2032.235	2029.290	2023.399	2032.235	2011.618
2.5	2017.509	2032.235	2021.926	2030.762	2032.235	2030.762	2023.399	2032.235	2014.563
3.0	2013.091	2030.762	2024.872	2030.762	2032.235	2029.290	2023.399	2029.290	2007.200
3.5	2011.618	2026.344	2021.926	2030.762	2030.762	2026.344	2021.926	2029.290	2002.782
4.0	2010.145	2029.290	2021.926	2027.817	2026.344	2029.290	2020.454	2027.817	2004.255
4.5	2013.091	2024.872	2021.926	2026.344	2026.344	2027.817	2018.981	2024.872	2007.200
5.0	2010.145	2021.926	2020.454	2024.872	2024.872	2023.399	2016.036	2021.926	2002.782
5.5	2004.255	2017.509	2016.036	2024.872	2024.872	2021.926	2011.618	2021.926	1996.892
6.0	2007.200	2018.981	2010.145	2020.454	2024.872	2017.509	2008.673	2018.981	1995.419
6.5	2007.200	2017.509	2011.618	2021.926	2020.454	2017.509	2011.618	2013.091	1991.001
7.0	2004.255	2011.618	2010.145	2013.091	2021.926	2016.036	2007.200	2016.036	1991.001
7.5	1998.364	2007.200	2004.255	2016.036	2016.036	2010.145	2001.310	2010.145	1989.528
8.0	1991.001	2005.727	1999.837	2013.091	2014.563	2010.145	2001.310	2007.200	1980.693
8.5	1985.111	2004.255	2002.782	2010.145	2010.145	2008.673	2001.310	2002.782	1980.693
9.0	1983.638	1999.837	1996.892	2007.200	2008.673	2008.673	1995.419	2001.310	1973.330
9.5	1983.638	1993.946	1992.474	2007.200	2005.727	2002.782	1992.474	1992.474	1971.857
10.0	1977.747	1989.528	1988.056	2002.782	2002.782	1998.364	1989.528	1986.583	1970.384
10.5	1968.912	1989.528	1982.165	1996.892	1999.837	1995.419	1986.583	1985.111	1964.494
11.0	1964.494	1982.165	1982.165	1993.946	1996.892	1995.419	1980.693	1977.747	1954.185
11.5	1964.494	1976.275	1979.220	1989.528	1995.419	1991.001	1977.747	1974.802	1948.295
12.0	1957.131	1973.330	1976.275	1988.056	1992.474	1982.165	1973.330	1971.857	1946.822
12.5	1954.185	1965.966	1971.857	1983.638	1988.056	1980.693	1968.912	1963.021	1943.877
13.0	1946.822	1960.076	1964.494	1982.165	1983.638	1979.220	1961.548	1961.548	1937.986
13.5	1937.986	1958.603	1958.603	1974.802	1977.747	1970.384	1955.658	1951.240	1929.150
14.0	1929.150	1951.240	1951.240	1970.384	1974.802	1967.439	1949.767	1949.767	1921.787
14.5	1926.205	1946.822	1952.713	1968.912	1973.330	1961.548	1946.822	1942.404	1914.424
15.0	1923.260	1940.932	1942.404	1967.439	1967.439	1958.603	1939.459	1936.514	1911.479
15.5	1917.369	1935.041	1942.404	1958.603	1961.548	1952.713	1933.568	1929.150	1904.116
16.0	1908.534	1927.678	1935.041	1952.713	1958.603	1945.349	1927.678	1920.315	1895.280
16.5	1904.116	1920.315	1924.733	1949.767	1952.713	1939.459	1921.787	1915.897	1886.444
17.0	1893.807	1908.534	1917.369	1943.877	1946.822	1935.041	1914.424	1907.061	1880.554
17.5	1890.862	1905.588	1912.952	1937.986	1942.404	1929.150	1908.534	1901.170	1871.718
18.0	1879.081	1901.170	1907.061	1932.096	1937.986	1921.787	1899.698	1895.280	1867.300
18.5	1870.245	1893.807	1899.698	1927.678	1929.150	1914.424	1895.280	1882.026	1852.574
19.0	1868.772	1882.026	1890.862	1920.315	1923.260	1912.952	1886.444	1876.136	1846.683
19.5	1856.991	1877.608	1883.499	1914.424	1914.424	1905.588	1877.608	1871.718	1842.265
20.0	1843.738	1864.355	1876.136	1904.116	1910.006	1898.225	1871.718	1861.409	1833.429
20.5	1836.375	1856.991	1873.190	1895.280	1902.643	1889.389	1864.355	1851.101	1824.593
21.0	1833.429	1849.628	1864.355	1892.335	1896.753	1882.026	1855.519	1842.265	1812.812
21.5	1824.593	1839.320	1851.101	1886.444	1889.389	1876.136	1849.628	1833.429	1802.504
22.0	1811.340	1831.957	1846.683	1874.663	1883.499	1870.245	1839.320	1826.066	1796.613
22.5	1799.559	1824.593	1837.847	1864.355	1876.136	1864.355	1830.484	1812.812	1783.360
23.0	1793.668	1814.285	1830.484	1859.937	1873.190	1854.046	1821.648	1802.504	1770.106
23.5	1786.305	1801.031	1823.121	1852.574	1867.300	1845.210	1817.230	1796.613	1764.215
24.0	1775.997	1793.668	1812.812	1845.210	1858.464	1840.792	1806.922	1787.778	1750.962
24.5	1762.743	1784.832	1803.977	1839.320	1851.101	1836.375	1798.086	1777.469	1739.181
25.0	1753.907	1774.524	1793.668	1830.484	1846.683	1827.539	1792.196	1767.161	1733.290
25.5	1743.599	1762.743	1784.832	1826.066	1837.847	1818.703	1783.360	1756.852	1720.036
26.0	1731.818	1755.380	1775.997	1818.703	1829.011	1809.867	1774.524	1746.544	1712.673
26.5	1722.982	1740.653	1767.161	1808.395	1820.176	1801.031	1765.688	1737.708	1700.892

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27.0	1709.728	1731.818	1756.852	1796.613	1815.758	1793.668	1755.380	1727.400	1687.639
27.5	1697.947	1721.509	1749.489	1790.723	1806.922	1786.305	1746.544	1717.091	1680.275
28.0	1687.639	1709.728	1739.181	1780.414	1798.086	1777.469	1739.181	1703.837	1665.549
28.5	1675.857	1700.892	1731.818	1773.051	1789.250	1765.688	1725.927	1693.529	1655.241
29.0	1668.494	1689.111	1718.564	1764.215	1783.360	1758.325	1715.619	1681.748	1640.514
29.5	1653.768	1677.330	1709.728	1756.852	1773.051	1749.489	1706.783	1671.440	1633.151
30.0	1639.042	1665.549	1696.474	1749.489	1765.688	1739.181	1697.947	1661.131	1622.843
30.5	1628.733	1653.768	1687.639	1737.708	1755.380	1728.872	1686.166	1644.932	1608.116
31.0	1618.425	1643.459	1680.275	1725.927	1745.071	1718.564	1672.912	1634.624	1591.917
31.5	1609.589	1630.206	1669.967	1714.146	1734.763	1711.201	1662.604	1625.788	1580.136
32.0	1593.390	1615.479	1658.186	1706.783	1727.400	1703.837	1655.241	1612.534	1566.883
32.5	1580.136	1603.698	1647.877	1696.474	1718.564	1690.584	1644.932	1600.753	1555.101
33.0	1566.883	1591.917	1636.096	1686.166	1708.255	1680.275	1631.678	1586.027	1546.266
33.5	1556.574	1583.082	1621.370	1678.803	1697.947	1671.440	1618.425	1575.718	1531.539
34.0	1541.848	1566.883	1611.062	1665.549	1686.166	1664.076	1609.589	1562.465	1516.813
34.5	1533.012	1555.101	1599.280	1656.713	1680.275	1653.768	1599.280	1550.684	1507.977
35.0	1519.758	1541.848	1587.499	1647.877	1669.967	1641.987	1586.027	1535.957	1494.723
35.5	1502.087	1533.012	1577.191	1637.569	1659.658	1630.206	1574.246	1524.176	1475.579
36.0	1490.306	1518.286	1563.937	1628.733	1650.823	1622.843	1559.519	1509.450	1463.651
36.5	1474.107	1502.087	1552.156	1618.425	1639.042	1609.589	1546.266	1493.251	1453.195
37.0	1461.736	1488.833	1541.848	1605.171	1630.206	1596.335	1535.957	1482.942	1440.531
37.5	1449.808	1478.524	1528.594	1594.863	1619.897	1586.027	1525.649	1469.100	1424.332
38.0	1434.051	1466.891	1516.813	1587.499	1609.589	1575.718	1512.395	1454.079	1409.900
38.5	1421.239	1450.839	1505.032	1572.773	1597.808	1566.883	1502.087	1441.709	1399.002
39.0	1404.156	1437.291	1494.723	1563.937	1584.554	1555.101	1490.306	1428.602	1383.098
39.5	1393.259	1423.301	1481.470	1547.738	1577.191	1540.375	1475.579	1416.968	1366.457
40.0	1376.324	1411.814	1467.038	1537.430	1563.937	1530.067	1464.534	1401.948	1353.645
40.5	1363.365	1396.204	1458.202	1528.594	1555.101	1521.231	1452.312	1386.632	1340.391
41.0	1349.964	1381.920	1445.096	1516.813	1543.320	1509.450	1438.763	1370.433	1326.254
41.5	1334.795	1367.488	1430.517	1503.559	1533.012	1496.196	1426.246	1356.738	1310.644
42.0	1317.860	1356.443	1419.472	1496.196	1519.758	1485.888	1410.783	1344.662	1295.771
42.5	1305.490	1342.600	1404.304	1482.942	1509.450	1475.579	1396.941	1330.230	1280.897
43.0	1289.291	1326.401	1391.639	1471.603	1496.196	1462.326	1384.570	1315.504	1265.582
43.5	1277.952	1311.528	1380.742	1458.497	1487.360	1450.692	1373.820	1300.925	1254.684
44.0	1261.753	1296.654	1365.721	1443.476	1475.579	1439.941	1360.714	1286.935	1239.074
44.5	1245.407	1282.811	1352.173	1431.106	1463.062	1424.626	1347.902	1271.030	1222.581
45.0	1232.447	1268.969	1338.182	1421.828	1453.637	1414.023	1332.734	1257.188	1209.769
45.5	1215.807	1254.242	1327.432	1408.722	1438.174	1400.622	1319.333	1243.050	1194.159
46.0	1202.847	1238.485	1314.326	1396.646	1428.897	1388.988	1306.521	1227.882	1178.549
46.5	1187.974	1223.023	1299.894	1385.896	1413.729	1376.765	1292.825	1215.218	1162.645
47.0	1171.186	1211.536	1286.346	1371.022	1402.095	1363.217	1280.013	1198.430	1149.391
47.5	1155.134	1195.632	1274.270	1357.769	1389.283	1349.522	1264.109	1181.200	1132.603
48.0	1142.764	1181.347	1261.753	1346.576	1377.649	1338.772	1253.801	1168.093	1117.729
48.5	1127.596	1164.264	1247.026	1333.617	1365.721	1328.021	1239.958	1152.631	1104.770
49.0	1109.777	1150.274	1234.362	1319.480	1349.964	1314.473	1225.526	1137.610	1089.307
49.5	1097.996	1137.168	1220.372	1307.993	1342.600	1300.041	1211.830	1123.178	1072.814
50.0	1081.797	1121.853	1206.087	1294.151	1328.905	1287.524	1199.608	1110.513	1059.855
50.5	1064.125	1106.537	1191.655	1282.959	1314.031	1275.006	1186.354	1093.136	1043.361
51.0	1049.988	1089.896	1178.107	1269.558	1303.576	1264.993	1173.247	1080.766	1028.635
51.5	1036.587	1076.495	1165.443	1257.777	1293.267	1249.530	1156.312	1063.094	1012.141
52.0	1020.094	1062.800	1150.716	1243.345	1281.633	1237.013	1142.764	1049.693	999.329
52.5	1002.716	1047.043	1135.843	1230.827	1267.054	1225.379	1128.038	1034.673	983.719
53.0	989.168	1031.286	1120.969	1218.899	1251.150	1212.125	1116.404	1018.768	971.349
53.5	976.651	1015.087	1107.715	1205.645	1241.283	1197.988	1102.856	1004.484	957.801
54.0	962.808	999.182	1093.725	1191.655	1227.735	1186.059	1087.835	990.494	940.571
54.5	948.082	987.843	1080.619	1178.549	1216.248	1173.247	1074.434	977.240	925.845

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55.0	931.294	976.945	1067.807	1163.823	1201.080	1160.436	1058.529	964.281	912.002
55.5	915.978	960.599	1053.081	1151.747	1188.857	1144.973	1045.423	949.702	894.331
56.0	902.725	943.958	1037.618	1139.377	1178.549	1130.836	1033.053	933.650	879.310
56.5	884.317	928.496	1024.953	1126.565	1164.412	1118.760	1017.296	918.776	863.847
57.0	868.854	914.800	1011.258	1113.311	1148.507	1106.243	1003.011	905.523	848.384
57.5	852.066	898.749	999.771	1099.321	1135.548	1092.547	989.463	888.440	833.953
58.0	837.045	883.286	985.781	1084.595	1122.147	1078.263	976.504	872.977	816.870
58.5	823.055	868.265	971.497	1073.256	1110.661	1065.745	963.692	857.515	800.818
59.0	807.445	854.275	958.243	1058.824	1098.879	1054.111	951.322	842.347	784.472
59.5	790.068	838.223	947.198	1046.159	1085.037	1039.827	937.037	827.031	771.955
60.0	773.722	823.497	931.588	1031.286	1072.078	1027.162	923.047	811.127	755.019
60.5	759.732	807.151	918.924	1018.621	1058.824	1013.025	908.468	796.695	738.673
61.0	745.006	791.246	902.283	1004.778	1043.214	1000.360	895.067	781.380	724.536
61.5	729.837	776.962	890.649	992.113	1031.433	987.254	880.782	766.653	709.810
62.0	713.197	761.352	874.597	979.743	1018.032	975.325	867.529	751.632	694.200
62.5	697.439	746.773	861.491	965.753	1006.987	962.219	853.980	736.170	677.706
63.0	680.651	731.015	848.826	954.709	995.059	949.260	839.401	721.738	662.538
63.5	665.336	716.289	833.805	943.517	981.658	937.332	826.295	706.864	646.928
64.0	650.315	701.563	819.374	931.146	967.373	923.783	811.716	691.107	633.969
64.5	634.852	687.720	805.089	916.715	955.298	910.530	798.315	675.939	616.739
65.0	620.715	672.110	791.688	903.314	942.191	897.423	784.472	662.243	603.044
65.5	604.958	657.826	778.582	889.913	930.410	883.875	768.715	648.253	585.667
66.0	588.759	643.247	765.328	877.395	918.187	871.210	755.019	633.085	571.235
66.5	575.505	628.815	750.896	864.436	905.228	857.662	741.766	619.243	556.361
67.0	559.159	614.236	738.231	850.593	892.563	845.586	730.132	605.547	542.224
67.5	543.991	599.067	724.094	838.371	879.310	831.449	714.817	590.379	528.234
68.0	528.381	585.225	711.282	824.675	866.792	817.901	702.446	576.389	513.213
68.5	514.391	571.087	696.409	810.685	854.275	806.120	688.751	561.368	497.308
69.0	499.665	556.803	684.480	798.462	841.905	793.308	675.203	546.494	482.288
69.5	484.644	542.371	669.754	786.387	828.946	781.085	660.918	533.535	468.592
70.0	469.328	528.234	656.500	774.016	815.397	767.831	648.401	519.251	452.835
70.5	453.277	513.949	643.688	760.615	803.469	755.167	635.589	505.261	438.256
71.0	438.550	500.401	631.024	749.423	791.393	742.649	622.924	491.565	423.971
71.5	425.002	486.706	617.770	736.022	779.023	730.279	609.965	476.544	410.276
72.0	410.276	473.010	605.989	722.180	764.739	717.173	597.448	464.616	396.728
72.5	394.813	459.020	592.293	709.221	751.632	705.392	585.225	450.921	382.296
73.0	380.676	445.177	579.334	695.820	738.231	690.665	572.118	436.636	366.833
73.5	367.275	431.924	566.228	682.271	724.978	678.001	559.601	422.646	353.285
74.0	352.990	419.112	553.269	669.607	709.368	664.747	548.114	409.098	340.031
74.5	337.822	405.563	541.340	655.469	693.905	652.082	534.861	395.697	325.452
75.0	323.979	392.162	528.087	641.479	679.473	638.092	522.638	383.474	312.198
75.5	310.431	379.056	515.864	626.606	664.747	622.630	510.709	370.515	297.472
76.0	297.472	366.833	503.935	612.616	649.284	607.167	497.898	357.997	285.102
76.5	284.513	353.874	490.682	597.300	632.202	592.735	484.202	344.891	271.406
77.0	271.112	340.915	478.312	580.512	614.236	576.094	472.126	332.079	258.889
77.5	257.858	329.281	464.911	564.461	597.300	559.601	458.578	320.298	245.194
78.0	244.310	317.058	451.362	547.967	580.660	541.782	444.588	308.222	232.234
78.5	232.971	304.393	437.078	530.295	560.043	525.730	430.745	295.410	219.864
79.0	219.717	293.054	422.793	512.624	540.309	507.175	416.314	283.924	208.230
79.5	207.641	280.979	408.656	494.952	518.514	489.209	401.735	272.585	195.124
80.0	195.419	269.492	393.782	474.041	496.130	469.476	387.597	261.982	182.901
80.5	183.343	258.447	378.614	453.424	472.274	447.681	371.104	250.937	171.709
81.0	171.120	246.961	362.268	431.924	448.270	425.886	355.052	239.303	160.370
81.5	159.781	235.180	345.627	409.245	422.351	403.943	339.295	227.080	149.178
82.0	148.736	223.399	328.545	386.272	395.402	380.676	323.096	215.594	138.133
82.5	137.397	211.470	311.757	361.090	366.980	355.199	304.982	203.518	127.530

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	126.794	199.689	293.496	334.435	338.411	329.281	286.280	191.590	117.516
83.5	115.896	187.614	274.499	307.191	310.137	301.301	267.136	179.661	107.208
84.0	105.735	175.096	254.618	280.095	280.390	273.910	246.961	166.997	96.752
84.5	95.574	161.990	232.382	251.379	249.317	244.899	224.871	154.185	87.622
85.0	85.560	148.294	210.145	221.926	219.128	215.446	202.045	141.078	78.491
85.5	75.546	135.777	186.288	192.179	188.350	185.405	178.925	127.088	68.919
86.0	66.121	121.787	161.990	161.842	157.277	155.216	154.921	113.098	59.789
86.5	56.991	107.502	135.630	131.064	126.647	125.027	129.003	98.077	50.659
87.0	48.008	91.745	108.975	101.317	96.163	94.985	102.201	82.173	41.970
87.5	39.025	75.546	82.762	72.159	66.710	65.532	75.104	65.827	33.723
88.0	30.189	58.758	56.844	44.474	39.025	38.436	49.186	49.039	25.182
88.5	21.648	40.939	32.545	19.881	15.757	15.904	25.477	31.514	16.641
89.0	13.254	23.562	12.370	5.596	3.976	4.418	8.247	14.432	8.247
89.5	6.038	8.689	2.945	2.209	1.914	1.914	2.062	3.240	2.356
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

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

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CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FT-24-LS-8CS-AF-DIM-UNV_39W_4000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	740.68	N.A.	12.20
0-30	1568.51	N.A.	25.90
0-40	2562.83	N.A.	42.30
0-60	4546.78	N.A.	75.10
0-80	5862.33	N.A.	96.80
0-90	6054.08	N.A.	100.00
10-90	5862.15	N.A.	96.80
20-40	1822.15	N.A.	30.10
20-50	2854.69	N.A.	47.20
40-70	2759.94	N.A.	45.60
60-80	1315.55	N.A.	21.70
70-80	539.56	N.A.	8.90
80-90	191.75	N.A.	3.20
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	6054.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.93
10-20	548.76
20-30	827.83
30-40	994.32
40-50	1032.54
50-60	951.41
60-70	775.99
70-80	539.56
80-90	191.75
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 : FT-24-LS-8CS-AF-DIM-UNV_39W_4000K_.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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-24-LS-8CS-AF-DIM-UNV_39W_4000K_.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	14.7	16.4	15.1	16.7	17.1	16.2	17.9	16.6	18.2	18.6
	3H	16.5	18.0	16.9	18.4	18.7	18.7	20.2	19.1	20.6	20.9
	4H	17.2	18.6	17.6	19.0	19.3	19.9	21.3	20.3	21.6	22.0
	6H	17.7	19.0	18.1	19.4	19.8	20.9	22.3	21.3	22.6	23.0
	8H	17.8	19.1	18.2	19.5	19.9	21.3	22.6	21.7	23.0	23.4
	12H	17.9	19.2	18.3	19.5	20.0	21.6	22.8	22.0	23.2	23.6

UGR Viewed Endwise

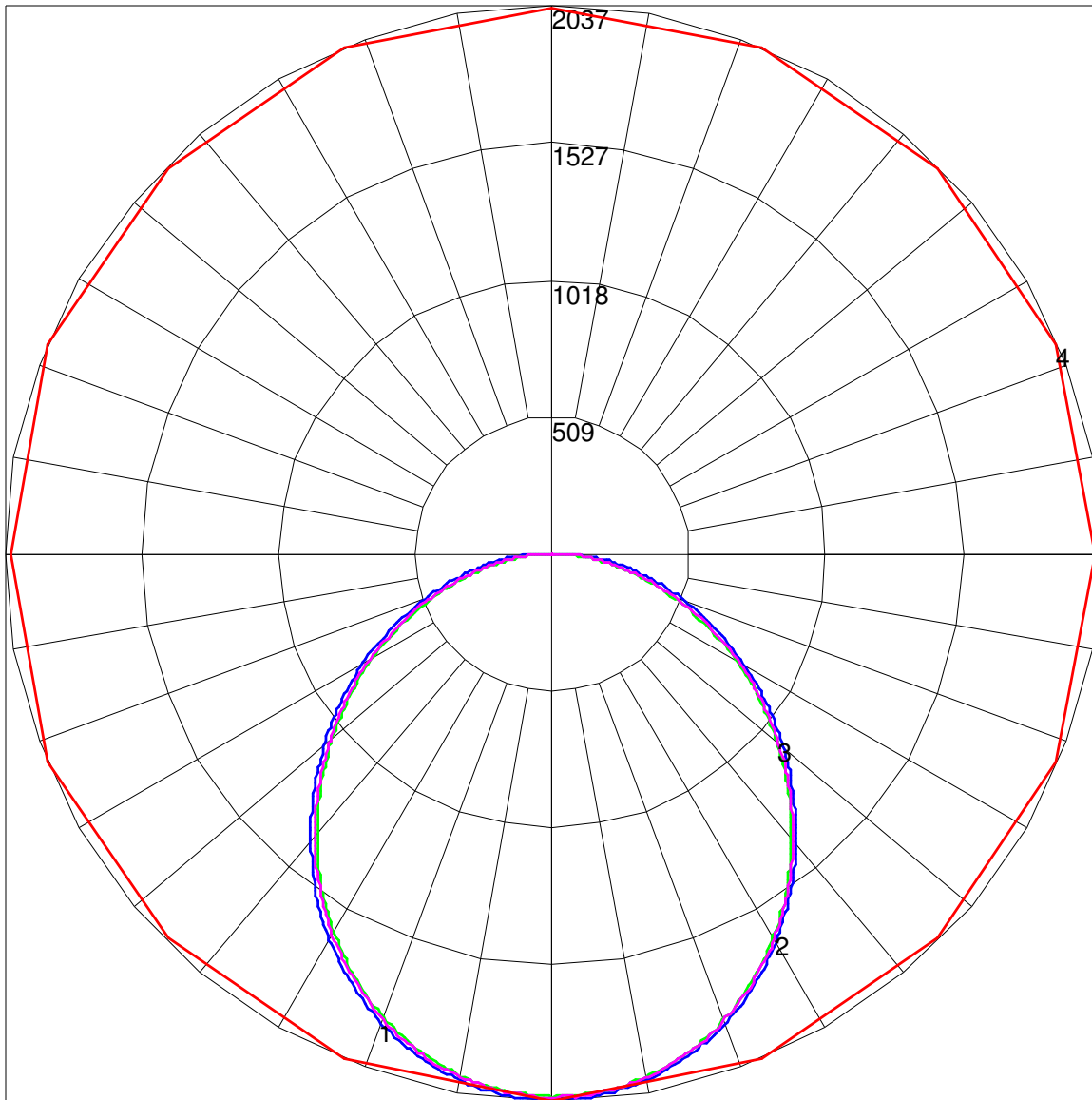
4H	2H	15.7	17.1	16.1	17.5	17.8	16.8	18.3	17.2	18.6	19.0
	3H	17.7	18.9	18.1	19.3	19.7	19.5	20.8	20.0	21.2	21.6
	4H	18.5	19.6	18.9	20.0	20.5	20.9	22.0	21.3	22.4	22.9
	6H	19.1	20.1	19.6	20.6	21.0	22.1	23.1	22.6	23.6	24.0
	8H	19.4	20.3	19.8	20.7	21.2	22.6	23.6	23.1	24.0	24.5
	12H	19.5	20.4	20.0	20.8	21.3	23.0	23.8	23.5	24.3	24.7

8H	4H	19.2	20.1	19.7	20.6	21.0	21.2	22.2	21.7	22.6	23.1
	6H	20.1	20.8	20.6	21.3	21.8	22.7	23.5	23.2	24.0	24.4
	8H	20.4	21.1	20.9	21.6	22.1	23.3	24.0	23.8	24.5	25.0
	12H	20.7	21.3	21.2	21.8	22.3	23.8	24.4	24.3	24.9	25.4

12H	4H	19.4	20.2	19.9	20.7	21.2	21.3	22.1	21.8	22.6	23.0
	6H	20.4	21.1	20.9	21.5	22.1	22.8	23.5	23.3	23.9	24.5
	8H	20.8	21.4	21.3	21.9	22.4	23.5	24.1	24.0	24.6	25.1

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 2036.653 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)