



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-24-LS-8CS-AF-DIM-UNV_39W_5000K_.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_5000K_
[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	5923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	2442	2652	2880
55	2275	2608	2934
65	2058	2625	3124
75	1754	2859	3678
85	1376	3378	3523

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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	1985.380	1985.380	1985.380	1985.380	1985.380	1985.380	1985.380	1985.380	1985.380
0.5	1973.853	1988.261	1979.617	1991.143	1989.702	1991.143	1982.498	1992.583	1972.413
1.0	1970.972	1986.820	1981.057	1988.261	1985.380	1986.820	1983.939	1988.261	1972.413
1.5	1968.090	1988.261	1981.057	1988.261	1989.702	1986.820	1978.176	1992.583	1970.972
2.0	1970.972	1986.820	1981.057	1983.939	1988.261	1985.380	1979.617	1988.261	1968.090
2.5	1973.853	1988.261	1978.176	1986.820	1988.261	1986.820	1979.617	1988.261	1970.972
3.0	1969.531	1986.820	1981.057	1986.820	1988.261	1985.380	1979.617	1985.380	1963.768
3.5	1968.090	1982.498	1978.176	1986.820	1986.820	1982.498	1978.176	1985.380	1959.446
4.0	1966.650	1985.380	1978.176	1983.939	1982.498	1985.380	1976.735	1983.939	1960.887
4.5	1969.531	1981.057	1978.176	1982.498	1982.498	1983.939	1975.294	1981.057	1963.768
5.0	1966.650	1978.176	1976.735	1981.057	1981.057	1979.617	1972.413	1978.176	1959.446
5.5	1960.887	1973.853	1972.413	1981.057	1981.057	1978.176	1968.090	1978.176	1953.683
6.0	1963.768	1975.294	1966.650	1976.735	1981.057	1973.853	1965.209	1975.294	1952.242
6.5	1963.768	1973.853	1968.090	1978.176	1976.735	1973.853	1968.090	1969.531	1947.920
7.0	1960.887	1968.090	1966.650	1969.531	1978.176	1972.413	1963.768	1972.413	1947.920
7.5	1955.123	1963.768	1960.887	1972.413	1972.413	1966.650	1958.005	1966.650	1946.479
8.0	1947.920	1962.327	1956.564	1969.531	1970.972	1966.650	1958.005	1963.768	1937.834
8.5	1942.157	1960.887	1959.446	1966.650	1966.650	1965.209	1958.005	1959.446	1937.834
9.0	1940.716	1956.564	1953.683	1963.768	1965.209	1965.209	1952.242	1958.005	1930.630
9.5	1940.716	1950.801	1949.360	1963.768	1962.327	1959.446	1949.360	1949.360	1929.190
10.0	1934.953	1946.479	1945.038	1959.446	1959.446	1955.123	1946.479	1943.597	1927.749
10.5	1926.308	1946.479	1939.275	1953.683	1956.564	1952.242	1943.597	1942.157	1921.986
11.0	1921.986	1939.275	1939.275	1950.801	1953.683	1952.242	1937.834	1934.953	1911.900
11.5	1921.986	1933.512	1936.393	1946.479	1952.242	1947.920	1934.953	1932.071	1906.137
12.0	1914.782	1930.630	1933.512	1945.038	1949.360	1939.275	1930.630	1929.190	1904.697
12.5	1911.900	1923.427	1929.190	1940.716	1945.038	1937.834	1926.308	1920.545	1901.815
13.0	1904.697	1917.663	1921.986	1939.275	1940.716	1936.393	1919.104	1919.104	1896.052
13.5	1896.052	1916.223	1916.223	1932.071	1934.953	1927.749	1913.341	1909.019	1887.407
14.0	1887.407	1909.019	1909.019	1927.749	1932.071	1924.867	1907.578	1907.578	1880.203
14.5	1884.526	1904.697	1910.460	1926.308	1930.630	1919.104	1904.697	1900.374	1873.000
15.0	1881.644	1898.933	1900.374	1924.867	1924.867	1916.223	1897.493	1894.611	1870.118
15.5	1875.881	1893.170	1900.374	1916.223	1919.104	1910.460	1891.730	1887.407	1862.914
16.0	1867.237	1885.967	1893.170	1910.460	1916.223	1903.256	1885.967	1878.763	1854.270
16.5	1862.914	1878.763	1883.085	1907.578	1910.460	1897.493	1880.203	1874.440	1845.625
17.0	1852.829	1867.237	1875.881	1901.815	1904.697	1893.170	1873.000	1865.796	1839.862
17.5	1849.947	1864.355	1871.559	1896.052	1900.374	1887.407	1867.237	1860.033	1831.217
18.0	1838.421	1860.033	1865.796	1890.289	1896.052	1880.203	1858.592	1854.270	1826.895
18.5	1829.777	1852.829	1858.592	1885.967	1887.407	1873.000	1854.270	1841.303	1812.487
19.0	1828.336	1841.303	1849.947	1878.763	1881.644	1871.559	1845.625	1835.540	1806.724
19.5	1816.810	1836.980	1842.743	1873.000	1873.000	1864.355	1836.980	1831.217	1802.402
20.0	1803.843	1824.013	1835.540	1862.914	1868.677	1857.151	1831.217	1821.132	1793.757
20.5	1796.639	1816.810	1832.658	1854.270	1861.473	1848.507	1824.013	1811.047	1785.113
21.0	1793.757	1809.606	1824.013	1851.388	1855.710	1841.303	1815.369	1802.402	1773.587
21.5	1785.113	1799.520	1811.047	1845.625	1848.507	1835.540	1809.606	1793.757	1763.501
22.0	1772.146	1792.317	1806.724	1834.099	1842.743	1829.777	1799.520	1786.554	1757.738
22.5	1760.620	1785.113	1798.080	1824.013	1835.540	1824.013	1790.876	1773.587	1744.771
23.0	1754.857	1775.027	1790.876	1819.691	1832.658	1813.928	1782.231	1763.501	1731.804
23.5	1747.653	1762.060	1783.672	1812.487	1826.895	1805.284	1777.909	1757.738	1726.041
24.0	1737.567	1754.857	1773.587	1805.284	1818.250	1800.961	1767.824	1749.094	1713.074
24.5	1724.600	1746.212	1764.942	1799.520	1811.047	1796.639	1759.179	1739.008	1701.548
25.0	1715.956	1736.127	1754.857	1790.876	1806.724	1787.994	1753.416	1728.923	1695.785
25.5	1705.870	1724.600	1746.212	1786.554	1798.080	1779.350	1744.771	1718.837	1682.818
26.0	1694.344	1717.397	1737.567	1779.350	1789.435	1770.705	1736.127	1708.752	1675.614
26.5	1685.700	1702.989	1728.923	1769.264	1780.790	1762.060	1727.482	1700.107	1664.088

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27.0	1672.733	1694.344	1718.837	1757.738	1776.468	1754.857	1717.397	1690.022	1651.121
27.5	1661.207	1684.259	1711.634	1751.975	1767.824	1747.653	1708.752	1679.937	1643.917
28.0	1651.121	1672.733	1701.548	1741.890	1759.179	1739.008	1701.548	1666.970	1629.510
28.5	1639.595	1664.088	1694.344	1734.686	1750.534	1727.482	1688.581	1656.884	1619.424
29.0	1632.391	1652.562	1681.377	1726.041	1744.771	1720.278	1678.496	1645.358	1605.017
29.5	1617.984	1641.036	1672.733	1718.837	1734.686	1711.634	1669.851	1635.273	1597.813
30.0	1603.576	1629.510	1659.766	1711.634	1727.482	1701.548	1661.207	1625.187	1587.727
30.5	1593.490	1617.984	1651.121	1700.107	1717.397	1691.463	1649.680	1609.339	1573.320
31.0	1583.405	1607.898	1643.917	1688.581	1707.311	1681.377	1636.714	1599.254	1557.471
31.5	1574.760	1594.931	1633.832	1677.055	1697.226	1674.174	1626.628	1590.609	1545.945
32.0	1558.912	1580.524	1622.306	1669.851	1690.022	1666.970	1619.424	1577.642	1532.978
32.5	1545.945	1568.997	1612.220	1659.766	1681.377	1654.003	1609.339	1566.116	1521.452
33.0	1532.978	1557.471	1600.694	1649.680	1671.292	1643.917	1596.372	1551.708	1512.807
33.5	1522.893	1548.827	1586.287	1642.477	1661.207	1635.273	1583.405	1541.623	1498.400
34.0	1508.485	1532.978	1576.201	1629.510	1649.680	1628.069	1574.760	1528.656	1483.992
34.5	1499.840	1521.452	1564.675	1620.865	1643.917	1617.984	1564.675	1517.130	1475.347
35.0	1486.874	1508.485	1553.149	1612.220	1633.832	1606.457	1551.708	1502.722	1462.380
35.5	1469.584	1499.840	1543.064	1602.135	1623.747	1594.931	1540.182	1491.196	1443.650
36.0	1458.058	1485.433	1530.097	1593.490	1615.102	1587.727	1525.774	1476.788	1431.980
36.5	1442.210	1469.584	1518.570	1583.405	1603.576	1574.760	1512.807	1460.940	1421.751
37.0	1430.107	1456.617	1508.485	1570.438	1594.931	1561.794	1502.722	1450.854	1409.360
37.5	1418.437	1446.532	1495.518	1560.353	1584.846	1551.708	1492.637	1437.311	1393.512
38.0	1403.021	1435.150	1483.992	1553.149	1574.760	1541.623	1479.670	1422.615	1379.392
38.5	1390.486	1419.446	1472.466	1538.741	1563.234	1532.978	1469.584	1410.513	1368.731
39.0	1373.773	1406.191	1462.380	1530.097	1550.267	1521.452	1458.058	1397.690	1353.170
39.5	1363.112	1392.503	1449.414	1514.248	1543.064	1507.044	1443.650	1386.308	1336.890
40.0	1346.543	1381.265	1435.294	1504.163	1530.097	1496.959	1432.845	1371.612	1324.355
40.5	1333.864	1365.993	1426.649	1495.518	1521.452	1488.314	1420.886	1356.628	1311.388
41.0	1320.753	1352.018	1413.827	1483.992	1509.926	1476.788	1407.631	1340.780	1297.557
41.5	1305.913	1337.898	1399.563	1471.025	1499.840	1463.821	1395.385	1327.380	1282.284
42.0	1289.344	1327.092	1388.757	1463.821	1486.874	1453.736	1380.257	1315.566	1267.733
42.5	1277.242	1313.549	1373.917	1450.854	1476.788	1443.650	1366.713	1301.447	1253.181
43.0	1261.393	1297.701	1361.527	1439.760	1463.821	1430.684	1354.611	1287.039	1238.197
43.5	1250.299	1283.149	1350.865	1426.938	1455.177	1419.301	1344.093	1272.775	1227.535
44.0	1234.451	1268.597	1336.169	1412.242	1443.650	1408.784	1331.271	1259.088	1212.263
44.5	1218.458	1255.054	1322.914	1400.139	1431.404	1393.800	1318.736	1243.528	1196.126
45.0	1205.780	1241.511	1309.227	1391.062	1422.183	1383.426	1303.896	1229.984	1183.592
45.5	1189.499	1227.103	1298.709	1378.240	1407.055	1370.315	1290.785	1216.153	1168.320
46.0	1176.820	1211.687	1285.886	1366.425	1397.978	1358.933	1278.250	1201.313	1153.047
46.5	1162.268	1196.559	1271.767	1355.908	1383.138	1346.975	1264.851	1188.923	1137.487
47.0	1145.844	1185.321	1258.512	1341.356	1371.756	1333.720	1252.316	1172.498	1124.520
47.5	1130.139	1169.760	1246.697	1328.389	1359.221	1320.321	1236.756	1155.641	1108.095
48.0	1118.037	1155.785	1234.451	1317.439	1347.839	1309.803	1226.671	1142.818	1093.544
48.5	1103.197	1139.072	1220.043	1304.760	1336.169	1299.285	1213.127	1127.690	1080.865
49.0	1085.763	1125.385	1207.653	1290.929	1320.753	1286.030	1199.008	1112.994	1065.737
49.5	1074.237	1112.562	1193.965	1279.691	1313.549	1271.911	1185.609	1098.874	1049.600
50.0	1058.389	1097.578	1179.990	1266.148	1300.150	1259.664	1173.650	1086.484	1036.921
50.5	1041.100	1082.594	1165.870	1255.198	1285.598	1247.418	1160.683	1069.483	1020.785
51.0	1027.268	1066.313	1152.615	1242.087	1275.369	1237.621	1147.861	1057.380	1006.377
51.5	1014.157	1053.202	1140.225	1230.561	1265.283	1222.492	1131.292	1040.091	990.241
52.0	998.021	1039.803	1125.817	1216.441	1253.901	1210.246	1118.037	1026.980	977.706
52.5	981.020	1024.387	1111.265	1204.195	1239.638	1198.864	1103.629	1012.284	962.434
53.0	967.765	1008.971	1096.713	1192.524	1224.077	1185.897	1092.247	996.724	950.331
53.5	955.518	993.122	1083.746	1179.558	1214.424	1172.066	1078.992	982.749	937.076
54.0	941.975	977.562	1070.059	1165.870	1201.169	1160.395	1064.296	969.061	920.219
54.5	927.567	966.468	1057.236	1153.047	1189.931	1147.861	1051.185	956.094	905.811

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55.0	911.142	955.806	1044.702	1138.640	1175.091	1135.326	1035.625	943.416	892.268
55.5	896.158	939.814	1030.294	1126.825	1163.133	1120.198	1022.802	929.152	874.979
56.0	883.191	923.533	1015.166	1114.723	1153.047	1106.366	1010.699	913.448	860.283
56.5	865.182	908.405	1002.775	1102.188	1139.216	1094.552	995.283	898.896	845.155
57.0	850.054	895.006	989.376	1089.221	1123.656	1082.306	981.308	885.929	830.027
57.5	833.629	879.301	978.138	1075.534	1110.977	1068.906	968.053	869.216	815.907
58.0	818.933	864.173	964.451	1061.126	1097.866	1054.931	955.374	854.088	799.195
58.5	805.246	849.477	950.475	1050.032	1086.628	1042.684	942.839	838.960	783.490
59.0	789.974	835.790	937.508	1035.913	1075.102	1031.302	930.737	824.120	767.498
59.5	772.973	820.086	926.703	1023.522	1061.559	1017.327	916.761	809.136	755.251
60.0	756.980	805.678	911.430	1008.971	1048.880	1004.936	903.074	793.576	738.682
60.5	743.293	789.685	899.040	996.580	1035.913	991.105	888.810	779.456	722.690
61.0	728.885	774.125	882.759	983.037	1020.641	978.714	875.699	764.472	708.858
61.5	714.045	760.150	871.377	970.646	1009.115	965.892	861.724	750.064	694.451
62.0	697.764	744.878	855.673	958.544	996.004	954.221	848.757	735.368	679.178
62.5	682.348	730.614	842.850	944.856	985.198	941.398	835.502	720.240	663.042
63.0	665.923	715.198	830.459	934.051	973.528	928.720	821.238	706.121	648.202
63.5	650.939	700.790	815.763	923.101	960.417	917.049	808.415	691.569	632.930
64.0	636.244	686.382	801.644	910.998	946.441	903.794	794.152	676.153	620.251
64.5	621.115	672.839	787.668	896.879	934.627	890.827	781.041	661.313	603.394
65.0	607.284	657.567	774.557	883.768	921.804	878.005	767.498	647.914	589.995
65.5	591.868	643.591	761.735	870.657	910.278	864.750	752.081	634.226	572.994
66.0	576.019	629.328	748.768	858.410	898.319	852.359	738.682	619.387	558.874
66.5	563.053	615.208	734.648	845.731	885.641	839.104	725.715	605.843	544.323
67.0	547.060	600.945	722.257	832.188	873.250	827.290	714.333	592.444	530.491
67.5	532.220	586.105	708.426	820.230	860.283	813.458	699.349	577.604	516.804
68.0	516.948	572.562	695.891	806.831	848.037	800.203	687.247	563.917	502.108
68.5	503.261	558.730	681.340	793.143	835.790	788.677	673.848	549.221	486.548
69.0	488.853	544.755	669.669	781.185	823.688	776.142	660.593	534.669	471.852
69.5	474.157	530.635	655.262	769.371	811.009	764.184	646.617	521.991	458.453
70.0	459.173	516.804	642.295	757.268	797.754	751.217	634.371	508.015	443.036
70.5	443.469	502.828	629.760	744.157	786.084	738.826	621.836	494.328	428.773
71.0	429.061	489.573	617.369	733.207	774.269	726.580	609.445	480.929	414.797
71.5	415.806	476.174	604.403	720.096	762.167	714.477	596.767	466.233	401.398
72.0	401.398	462.775	592.876	706.553	748.191	701.654	584.520	454.563	388.143
72.5	386.270	449.088	579.477	693.874	735.368	690.128	572.562	441.163	374.024
73.0	372.439	435.544	566.799	680.763	722.257	675.721	559.739	427.188	358.896
73.5	359.328	422.578	553.976	667.508	709.291	663.330	547.492	413.501	345.640
74.0	345.352	410.043	541.297	655.118	694.018	650.363	536.254	400.246	332.674
74.5	330.512	396.788	529.627	641.286	678.890	637.972	523.287	387.135	318.410
75.0	316.969	383.677	516.660	627.599	664.771	624.285	511.329	375.176	305.443
75.5	303.714	370.854	504.701	613.047	650.363	609.157	499.659	362.497	291.035
76.0	291.035	358.896	493.031	599.360	635.235	594.029	487.124	350.251	278.933
76.5	278.357	346.217	480.064	584.376	618.522	579.910	473.725	337.428	265.534
77.0	265.246	333.538	467.962	567.951	600.945	563.629	461.911	324.893	253.287
77.5	252.279	322.156	454.851	552.247	584.376	547.492	448.655	313.367	239.888
78.0	239.024	310.198	441.596	536.110	568.095	530.059	434.968	301.553	227.209
78.5	227.930	297.807	427.620	518.821	547.924	514.355	421.425	289.018	215.107
79.0	214.963	286.713	413.645	501.532	528.618	496.201	407.305	277.780	203.725
79.5	203.148	274.899	399.813	484.242	507.295	478.623	393.042	266.686	190.902
80.0	191.190	263.661	385.262	463.784	485.395	459.317	379.210	256.313	178.944
80.5	179.376	252.855	370.422	443.613	462.055	437.994	363.074	245.507	167.994
81.0	167.417	241.617	354.429	422.578	438.570	416.670	347.369	234.125	156.900
81.5	156.323	230.091	338.148	400.390	413.213	395.203	331.953	222.167	145.950
82.0	145.518	218.565	321.436	377.914	386.846	372.439	316.105	210.929	135.144
82.5	134.424	206.894	305.011	353.277	359.040	347.513	298.383	199.114	124.771

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	124.050	195.368	287.145	327.199	331.089	322.156	280.085	187.444	114.973
83.5	113.389	183.554	268.559	300.544	303.426	294.781	261.355	175.774	104.888
84.0	103.447	171.307	249.109	274.034	274.322	267.983	241.617	163.383	94.659
84.5	93.506	158.485	227.353	245.939	243.922	239.600	220.005	150.849	85.726
85.0	83.709	145.085	205.598	217.124	214.386	210.784	197.674	138.026	76.793
85.5	73.911	132.839	182.257	188.020	184.274	181.393	175.053	124.338	67.428
86.0	64.691	119.152	158.485	158.341	153.874	151.857	151.569	110.651	58.495
86.5	55.758	105.176	132.695	128.228	123.906	122.321	126.211	95.955	49.562
87.0	46.969	89.760	106.617	99.125	94.082	92.930	99.989	80.395	41.062
87.5	38.180	73.911	80.971	70.598	65.267	64.114	73.479	64.402	32.994
88.0	29.536	57.487	55.614	43.511	38.180	37.604	48.122	47.978	24.637
88.5	21.179	40.053	31.841	19.450	15.416	15.560	24.925	30.832	16.281
89.0	12.967	23.052	12.102	5.475	3.890	4.322	8.068	14.120	8.068
89.5	5.907	8.501	2.882	2.161	1.873	1.873	2.017	3.170	2.305
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

IES INDOOR REPORT
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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_5000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	724.66	N.A.	12.20
0-30	1534.57	N.A.	25.90
0-40	2507.38	N.A.	42.30
0-60	4448.4	N.A.	75.10
0-80	5735.48	N.A.	96.80
0-90	5923.08	N.A.	100.00
10-90	5735.31	N.A.	96.80
20-40	1782.72	N.A.	30.10
20-50	2792.92	N.A.	47.20
40-70	2700.22	N.A.	45.60
60-80	1287.08	N.A.	21.70
70-80	527.88	N.A.	8.90
80-90	187.60	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	5923.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.77
10-20	536.88
20-30	809.92
30-40	972.80
40-50	1010.2
50-60	930.82
60-70	759.20
70-80	527.88
80-90	187.60
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_5000K_.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_5000K_.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	14.6	16.3	15.0	16.6	17.0	16.1	17.8	16.5	18.1	18.5
	3H	16.4	17.9	16.8	18.3	18.6	18.6	20.1	19.0	20.5	20.8
	4H	17.1	18.5	17.5	18.9	19.2	19.8	21.2	20.2	21.5	21.9
	6H	17.6	18.9	18.0	19.3	19.7	20.8	22.2	21.2	22.5	22.9
	8H	17.7	19.0	18.1	19.4	19.8	21.2	22.5	21.6	22.9	23.3
	12H	17.8	19.1	18.2	19.4	19.9	21.5	22.7	21.9	23.1	23.5

UGR Viewed Endwise

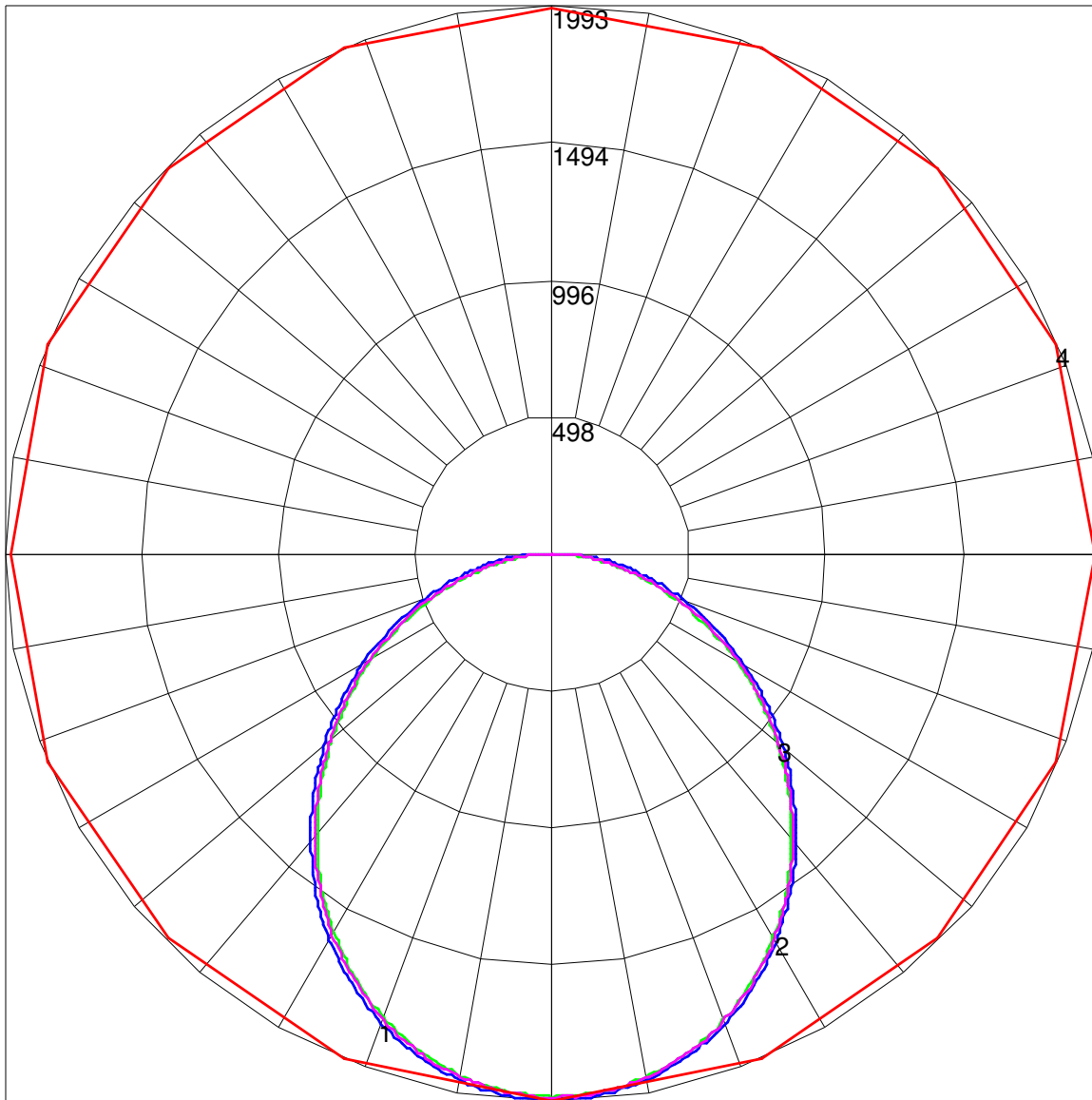
4H	2H	15.6	17.0	16.0	17.4	17.7	16.7	18.2	17.1	18.5	18.9
	3H	17.6	18.8	18.0	19.2	19.6	19.4	20.7	19.9	21.1	21.5
	4H	18.4	19.5	18.8	19.9	20.3	20.8	21.9	21.2	22.3	22.8
	6H	19.0	20.0	19.5	20.5	20.9	22.0	23.0	22.5	23.5	23.9
	8H	19.3	20.2	19.7	20.6	21.1	22.5	23.5	23.0	23.9	24.4
	12H	19.4	20.3	19.9	20.7	21.2	22.9	23.7	23.4	24.2	24.6

8H	4H	19.1	20.0	19.6	20.5	20.9	21.1	22.1	21.6	22.5	23.0
	6H	20.0	20.7	20.5	21.2	21.7	22.6	23.4	23.1	23.9	24.3
	8H	20.3	21.0	20.8	21.5	22.0	23.2	23.9	23.7	24.4	24.9
	12H	20.6	21.2	21.1	21.7	22.2	23.7	24.3	24.2	24.8	25.3

12H	4H	19.3	20.1	19.8	20.6	21.1	21.2	22.0	21.7	22.5	22.9
	6H	20.3	21.0	20.8	21.4	22.0	22.7	23.4	23.2	23.8	24.4
	8H	20.7	21.3	21.2	21.8	22.3	23.4	24.0	23.9	24.5	25.0

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 1992.583 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.)