

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-19

[TEST DATE] 2/23/2024

[MANUFAC] WILLIAMS INDOOR, H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] FS-8-LS-8CS-DIM-UNV_46W_5000K_

[LUMINAIRE] 89 INCH, 448 LEDS, LUMEN/WATTAGE/CCT SELECTABLE, LED STRIP

[MORE] WITH FROSTED ACRYLIC LENS

[SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	46.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.20 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13932	8452	7841
55	12599	6957	6561
65	10981	5483	5332
75	8839	4012	4067
85	5563	2640	2876

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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	2072.360	2072.360	2072.360	2072.360	2072.360	2072.360	2072.360	2072.360	2072.360
0.5	2045.092	2080.380	2075.568	2075.568	2065.944	2077.172	2075.568	2083.588	2046.696
1.0	2043.488	2078.776	2072.360	2077.172	2064.340	2077.172	2072.360	2081.984	2046.696
1.5	2046.696	2078.776	2069.152	2075.568	2065.944	2077.172	2072.360	2080.380	2046.696
2.0	2046.696	2077.172	2072.360	2077.172	2064.340	2080.380	2072.360	2081.984	2045.092
2.5	2045.092	2075.568	2069.152	2075.568	2064.340	2073.964	2072.360	2078.776	2041.884
3.0	2040.280	2075.568	2067.548	2075.568	2064.340	2075.568	2070.756	2080.380	2041.884
3.5	2041.884	2072.360	2065.944	2070.756	2061.132	2072.360	2069.152	2075.568	2043.488
4.0	2037.072	2069.152	2062.736	2072.360	2062.736	2070.756	2067.548	2077.172	2038.676
4.5	2038.676	2064.340	2062.736	2069.152	2059.528	2070.756	2064.340	2073.964	2035.468
5.0	2030.656	2062.736	2057.924	2067.548	2059.528	2069.152	2062.736	2070.756	2035.468
5.5	2029.052	2062.736	2056.320	2065.944	2059.528	2067.548	2062.736	2067.548	2030.656
6.0	2025.844	2057.924	2053.112	2064.340	2054.716	2064.340	2057.924	2067.548	2029.052
6.5	2022.636	2054.716	2051.508	2059.528	2051.508	2062.736	2056.320	2064.340	2025.844
7.0	2017.824	2049.904	2048.300	2054.716	2048.300	2059.528	2054.716	2062.736	2027.448
7.5	2016.220	2048.300	2043.488	2054.716	2045.092	2056.320	2049.904	2059.528	2021.032
8.0	2013.012	2043.488	2040.280	2049.904	2045.092	2054.716	2048.300	2056.320	2017.824
8.5	2008.201	2038.676	2035.468	2045.092	2038.676	2049.904	2045.092	2051.508	2011.408
9.0	2004.993	2033.864	2029.052	2043.488	2035.468	2045.092	2040.280	2049.904	2008.201
9.5	1995.369	2029.052	2029.052	2040.280	2032.260	2043.488	2037.072	2043.488	2003.389
10.0	1993.765	2027.448	2021.032	2030.656	2030.656	2038.676	2033.864	2040.280	2001.785
10.5	1982.537	2017.824	2017.824	2030.656	2022.636	2035.468	2029.052	2033.864	1993.765
11.0	1980.933	2016.220	2013.012	2024.240	2019.428	2030.656	2021.032	2025.844	1993.765
11.5	1974.517	2008.201	2006.597	2019.428	2016.220	2024.240	2017.824	2024.240	1985.745
12.0	1968.101	2001.785	2003.389	2014.616	2009.804	2021.032	2011.408	2017.824	1977.725
12.5	1960.081	1995.369	1996.973	2011.408	2009.804	2013.012	2006.597	2009.804	1974.517
13.0	1956.873	1992.161	1988.953	2004.993	2003.389	2009.804	2001.785	2006.597	1964.893
13.5	1952.061	1984.141	1985.745	1996.973	1996.973	2003.389	1996.973	2001.785	1958.477
14.0	1942.437	1976.121	1977.725	1992.161	1990.557	1998.577	1988.953	1995.369	1952.061
14.5	1931.209	1968.101	1969.705	1985.745	1984.141	1990.557	1984.141	1988.953	1947.249
15.0	1926.397	1963.289	1966.497	1982.537	1977.725	1985.745	1976.121	1980.933	1939.229
15.5	1919.981	1958.477	1956.873	1974.517	1971.309	1977.725	1971.309	1972.913	1932.813
16.0	1915.169	1947.249	1950.457	1969.705	1963.289	1971.309	1961.685	1966.497	1921.585
16.5	1900.733	1940.833	1940.833	1963.289	1956.873	1964.893	1953.665	1958.477	1919.981
17.0	1892.713	1932.813	1936.021	1955.269	1950.457	1955.269	1947.249	1952.061	1908.753
17.5	1884.693	1923.189	1926.397	1945.645	1942.437	1947.249	1937.625	1945.645	1903.941
18.0	1879.881	1911.961	1916.773	1936.021	1936.021	1937.625	1931.209	1932.813	1894.317
18.5	1870.257	1905.545	1908.753	1931.209	1928.001	1931.209	1921.585	1926.397	1886.297
19.0	1857.425	1895.921	1899.129	1921.585	1918.377	1923.189	1915.169	1916.773	1876.673
19.5	1851.009	1887.901	1891.109	1913.565	1908.753	1913.565	1907.149	1908.753	1865.445
20.0	1841.385	1876.673	1881.485	1903.941	1900.733	1907.149	1897.525	1899.129	1857.425
20.5	1830.157	1867.049	1873.465	1895.921	1892.713	1895.921	1889.505	1889.505	1849.405
21.0	1822.137	1857.425	1862.237	1884.693	1883.089	1889.505	1876.673	1883.089	1836.573
21.5	1809.305	1847.801	1852.613	1875.069	1876.673	1881.485	1870.257	1871.861	1828.553
22.0	1801.285	1839.781	1844.593	1865.445	1867.049	1870.257	1860.633	1862.237	1818.929
22.5	1786.849	1825.345	1833.365	1857.425	1860.633	1865.445	1851.009	1851.009	1806.097
23.0	1777.225	1815.721	1823.741	1846.197	1851.009	1854.217	1842.989	1841.385	1799.681
23.5	1769.205	1804.493	1815.721	1838.177	1844.593	1849.405	1833.365	1831.761	1788.453
24.0	1753.165	1794.869	1804.493	1828.553	1834.969	1839.781	1823.741	1817.325	1772.413
24.5	1746.749	1785.245	1793.265	1820.533	1826.949	1831.761	1812.513	1807.701	1762.789
25.0	1733.918	1769.205	1783.641	1812.513	1822.137	1823.741	1802.889	1798.077	1753.165
25.5	1719.482	1759.581	1769.205	1804.493	1814.117	1814.117	1794.869	1788.453	1743.541
26.0	1706.650	1749.957	1759.581	1791.661	1804.493	1804.493	1783.641	1777.225	1729.106
26.5	1695.422	1735.522	1749.957	1785.245	1796.473	1794.869	1772.413	1764.393	1719.482

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27.0	1685.798	1724.294	1740.334	1774.017	1783.641	1785.245	1761.185	1753.165	1706.650
27.5	1671.362	1714.670	1729.106	1765.997	1775.621	1774.017	1751.561	1741.937	1693.818
28.0	1660.134	1698.630	1714.670	1756.373	1767.601	1764.393	1738.730	1729.106	1682.590
28.5	1648.906	1687.402	1705.046	1745.145	1757.977	1754.769	1729.106	1717.878	1671.362
29.0	1636.074	1674.570	1693.818	1735.522	1748.353	1743.541	1717.878	1706.650	1656.926
29.5	1623.242	1663.342	1682.590	1724.294	1737.126	1733.918	1708.254	1692.214	1644.094
30.0	1607.202	1650.510	1671.362	1713.066	1727.502	1724.294	1695.422	1680.986	1629.658
30.5	1594.530	1637.678	1658.530	1703.442	1717.878	1713.066	1684.194	1668.154	1616.826
31.0	1581.057	1623.242	1647.302	1692.214	1708.254	1703.442	1671.362	1655.322	1607.202
31.5	1570.952	1608.806	1636.074	1680.986	1697.026	1693.818	1661.738	1642.490	1589.879
32.0	1554.110	1598.861	1623.242	1671.362	1687.402	1684.194	1650.510	1629.658	1578.009
32.5	1543.203	1584.425	1610.410	1660.134	1677.778	1672.966	1636.074	1615.222	1566.942
33.0	1527.483	1571.593	1596.295	1650.510	1669.758	1663.342	1623.242	1601.107	1548.977
33.5	1513.368	1557.959	1584.265	1640.886	1658.530	1650.510	1612.014	1588.756	1537.589
34.0	1500.536	1544.486	1574.962	1628.054	1648.906	1640.886	1601.748	1576.726	1525.880
34.5	1485.619	1529.408	1561.328	1616.826	1639.282	1629.658	1589.077	1560.526	1509.519
35.0	1473.910	1516.416	1549.939	1607.202	1628.054	1618.430	1577.047	1548.015	1498.772
35.5	1459.314	1501.499	1538.551	1596.776	1620.034	1607.202	1563.413	1532.937	1481.449
36.0	1442.151	1486.100	1524.757	1585.388	1608.806	1598.540	1550.581	1519.624	1469.900
36.5	1427.234	1472.787	1514.170	1573.518	1599.342	1586.831	1538.711	1505.669	1456.587
37.0	1415.685	1457.549	1499.734	1564.536	1589.558	1576.245	1525.398	1491.714	1445.519
37.5	1400.287	1445.038	1488.025	1552.827	1579.132	1563.573	1514.652	1478.882	1431.565
38.0	1383.766	1430.442	1474.712	1542.401	1568.867	1552.345	1501.820	1465.730	1415.044
38.5	1370.452	1415.846	1463.965	1530.691	1557.318	1541.278	1487.704	1452.737	1399.324
39.0	1354.413	1400.287	1450.492	1519.303	1546.411	1529.729	1476.476	1440.226	1384.086
39.5	1339.175	1384.568	1438.301	1507.434	1536.466	1518.501	1462.843	1426.111	1366.282
40.0	1322.814	1371.896	1425.630	1496.526	1527.163	1508.396	1450.171	1413.119	1349.601
40.5	1309.020	1357.460	1413.119	1484.978	1514.812	1496.847	1437.660	1396.598	1333.881
41.0	1291.536	1341.260	1399.806	1474.391	1502.461	1485.619	1424.828	1382.001	1318.162
41.5	1277.100	1325.380	1388.898	1463.484	1494.120	1472.948	1411.034	1364.518	1302.283
42.0	1260.418	1311.265	1374.944	1451.454	1483.053	1463.965	1398.362	1347.997	1288.007
42.5	1245.501	1296.188	1361.631	1440.868	1472.467	1451.133	1384.086	1333.240	1272.288
43.0	1229.461	1282.874	1348.799	1428.838	1461.559	1438.783	1372.056	1315.596	1256.569
43.5	1215.507	1269.080	1335.325	1416.808	1451.775	1426.913	1360.187	1300.037	1242.775
44.0	1201.873	1252.719	1322.814	1406.222	1440.707	1416.648	1345.591	1283.356	1226.253
44.5	1182.785	1237.321	1307.416	1393.871	1429.640	1405.740	1334.683	1268.599	1211.657
45.0	1168.830	1222.083	1296.829	1382.643	1418.733	1391.946	1322.012	1251.917	1196.580
45.5	1154.394	1207.166	1281.912	1370.773	1405.580	1381.680	1308.699	1238.444	1181.502
46.0	1138.515	1194.494	1269.561	1357.781	1394.673	1370.613	1296.188	1222.564	1164.500
46.5	1124.560	1179.417	1255.767	1344.468	1384.247	1357.139	1283.356	1208.289	1150.545
47.0	1108.199	1163.216	1242.775	1335.004	1372.698	1347.836	1271.486	1193.532	1136.109
47.5	1092.160	1148.781	1229.461	1321.691	1362.433	1336.448	1258.494	1178.294	1117.663
48.0	1079.648	1133.863	1217.271	1312.228	1349.280	1321.851	1245.822	1162.896	1105.152
48.5	1062.165	1118.946	1204.118	1297.631	1338.854	1311.105	1232.669	1148.139	1086.706
49.0	1051.899	1106.435	1191.928	1286.564	1327.305	1299.396	1219.035	1133.863	1072.270
49.5	1038.105	1089.754	1178.936	1274.854	1314.794	1288.168	1202.354	1117.984	1057.994
50.0	1021.905	1076.922	1165.943	1262.824	1304.528	1276.138	1190.324	1102.746	1045.644
50.5	1005.865	1065.533	1150.064	1250.634	1292.980	1263.626	1176.530	1088.470	1032.010
51.0	990.787	1051.578	1139.157	1238.283	1282.233	1251.597	1161.292	1072.751	1014.366
51.5	975.870	1037.624	1124.881	1227.697	1272.288	1239.727	1147.979	1063.608	999.128
52.0	960.151	1022.065	1113.011	1215.988	1259.777	1228.018	1133.543	1049.012	982.928
52.5	945.715	1007.950	1099.698	1203.637	1248.068	1215.667	1120.871	1036.020	968.171
53.0	929.515	992.391	1085.744	1191.928	1236.038	1205.241	1107.879	1020.301	953.735
53.5	914.918	977.955	1072.751	1179.417	1224.008	1192.409	1093.443	1005.223	936.893
54.0	899.039	964.482	1061.042	1167.226	1211.176	1180.379	1081.734	990.466	920.532
54.5	883.640	948.762	1051.578	1153.753	1201.231	1168.991	1067.618	975.068	905.936

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55.0	867.119	934.006	1039.228	1142.204	1189.201	1155.998	1059.598	961.113	889.735
55.5	852.042	920.853	1025.594	1129.051	1176.209	1143.648	1047.087	946.356	873.696
56.0	836.964	904.813	1012.120	1116.219	1165.302	1132.099	1033.293	931.119	859.420
56.5	822.528	889.896	998.647	1104.671	1151.828	1117.342	1018.857	914.758	843.059
57.0	806.809	874.818	985.654	1091.518	1140.279	1105.152	1005.383	900.482	825.897
57.5	792.052	861.184	973.464	1079.328	1126.485	1091.839	991.589	884.442	810.819
58.0	777.616	846.107	958.868	1066.816	1113.332	1079.007	977.474	870.167	795.581
58.5	762.058	831.190	945.394	1058.155	1101.142	1068.420	964.161	855.250	779.381
59.0	747.782	816.754	933.364	1048.852	1089.272	1058.155	949.564	839.370	765.105
59.5	732.384	802.639	919.249	1033.774	1075.799	1046.125	936.572	825.415	748.744
60.0	717.627	788.363	904.653	1021.263	1067.939	1032.812	922.617	810.819	734.950
60.5	702.710	773.767	891.019	1009.875	1056.390	1019.980	910.267	795.100	717.948
61.0	686.509	759.331	878.347	995.439	1044.521	1006.185	895.991	781.626	702.870
61.5	671.913	744.734	865.515	982.126	1032.010	993.033	882.999	765.586	687.632
62.0	656.996	730.459	852.362	969.614	1018.055	981.163	868.082	751.471	672.073
62.5	642.239	716.504	839.210	956.622	1004.421	966.727	855.570	736.394	656.996
63.0	627.964	701.908	825.897	943.630	991.589	954.056	841.776	722.279	642.239
63.5	612.886	688.274	812.423	929.675	978.918	940.742	827.661	707.522	627.482
64.0	597.327	673.998	799.591	916.683	965.765	927.911	814.669	692.925	611.443
64.5	581.287	659.723	785.315	903.049	951.650	915.560	800.553	678.810	596.525
65.0	567.333	646.570	772.002	890.056	938.657	901.445	787.721	664.374	581.448
65.5	553.378	632.294	758.850	878.026	926.627	888.452	774.890	649.938	566.851
66.0	538.140	618.179	746.338	862.949	913.154	874.658	760.454	635.342	551.774
66.5	524.827	604.545	732.544	850.598	899.039	861.184	747.782	621.066	537.017
67.0	510.230	591.232	719.231	837.124	886.046	846.909	733.346	607.272	523.062
67.5	496.436	577.438	706.559	823.009	871.931	834.237	721.156	593.638	508.787
68.0	482.161	564.125	692.284	811.300	859.099	821.085	707.201	579.523	494.993
68.5	468.206	550.972	680.093	796.704	845.786	806.809	693.567	565.729	479.594
69.0	454.251	536.696	666.941	784.834	832.312	794.298	680.414	552.736	465.960
69.5	439.494	523.383	653.948	770.719	818.679	781.145	667.743	538.782	450.722
70.0	426.181	510.230	640.314	757.727	805.045	766.870	653.948	524.506	437.088
70.5	412.868	496.115	627.643	743.932	791.892	754.358	640.796	510.712	423.294
71.0	398.272	483.604	614.811	731.742	778.579	740.885	627.964	497.078	409.018
71.5	385.119	470.131	602.781	718.589	765.266	728.534	614.330	483.604	394.903
72.0	371.485	457.940	588.987	704.635	751.792	714.740	602.139	470.772	380.147
72.5	358.011	444.788	576.636	691.963	739.281	702.229	588.826	456.978	366.352
73.0	344.378	432.437	563.483	678.169	725.486	688.113	576.155	443.665	353.841
73.5	331.546	419.926	551.132	664.535	711.692	675.121	563.483	430.672	339.886
74.0	318.393	406.933	538.782	652.986	699.021	661.968	550.330	417.680	326.734
74.5	304.438	393.781	525.308	639.352	685.226	649.297	538.461	404.206	312.779
75.0	291.125	381.751	513.278	627.162	673.036	635.823	526.110	391.856	300.107
75.5	279.095	369.560	501.569	613.688	659.723	622.991	513.118	378.703	286.955
76.0	265.782	357.370	489.218	601.658	646.730	610.641	501.409	366.673	273.962
76.5	253.752	345.500	477.188	588.826	633.578	597.327	488.737	353.681	262.093
77.0	241.882	333.631	465.158	575.834	620.425	584.977	476.065	341.651	249.421
77.5	229.692	321.922	453.449	563.804	608.395	571.984	464.035	328.979	237.231
78.0	217.181	310.212	441.900	551.293	594.921	559.794	452.487	317.591	225.040
78.5	205.311	299.145	430.031	539.102	582.731	547.604	440.778	305.882	213.010
79.0	193.602	287.757	418.963	526.752	569.899	535.092	428.748	294.654	201.622
79.5	182.855	276.529	408.056	515.042	558.190	524.185	417.680	283.105	189.432
80.0	171.948	265.301	396.828	502.692	546.481	511.514	406.131	271.877	178.525
80.5	160.720	254.554	385.761	491.464	533.649	500.125	395.385	261.772	167.297
81.0	149.813	244.288	375.014	479.594	522.100	487.935	384.477	250.704	156.871
81.5	139.387	233.862	364.107	468.366	510.230	476.547	373.731	240.599	146.284
82.0	129.122	223.918	353.681	457.138	497.559	465.319	362.984	230.654	136.019
82.5	119.658	213.652	343.255	446.873	486.010	453.449	352.077	220.870	126.234

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CANDELA TABULATION - (Cont.)

83.0	109.553	204.028	332.989	435.645	475.103	442.221	342.292	211.086	116.450
83.5	100.089	194.725	322.884	424.738	463.554	431.795	331.706	201.622	106.986
84.0	90.786	185.582	313.100	413.991	452.647	421.209	322.242	192.319	97.683
84.5	81.804	176.600	303.315	403.886	441.740	410.462	312.298	183.337	89.022
85.0	73.463	168.259	293.531	393.299	431.154	399.715	302.513	174.675	80.039
85.5	65.122	159.437	284.549	382.873	420.407	389.771	293.210	165.372	71.699
86.0	56.781	151.257	275.566	373.410	409.981	379.826	283.586	157.031	63.197
86.5	48.922	143.237	266.905	363.625	400.036	369.560	274.764	148.530	55.017
87.0	41.062	135.377	257.922	354.162	389.931	360.257	266.103	140.510	46.837
87.5	33.844	127.999	249.581	345.500	380.307	351.114	257.120	132.650	38.977
88.0	26.787	119.979	241.722	336.678	371.485	342.132	248.940	124.630	31.117
88.5	19.729	113.082	234.504	328.658	362.503	333.952	241.241	116.771	23.098
89.0	12.672	106.505	227.767	320.799	354.643	325.611	233.702	109.874	15.559
89.5	6.256	101.052	221.351	313.581	346.784	318.393	227.286	103.778	8.180
90.0	2.246	96.079	215.737	306.523	339.245	311.014	221.351	98.485	2.566
90.5	1.444	91.909	210.284	299.786	331.706	303.796	215.416	93.994	1.444
91.0	1.444	88.380	204.830	293.210	324.648	297.380	209.321	90.465	1.283
91.5	1.444	85.814	200.178	286.794	317.912	291.125	204.670	87.738	1.283
92.0	1.444	83.568	195.366	281.180	311.816	285.511	200.178	85.493	1.283
92.5	1.444	81.483	191.998	276.047	305.882	280.057	196.329	83.408	1.283
93.0	1.444	79.558	188.469	271.075	300.268	275.085	192.800	81.322	1.283
93.5	1.444	77.633	185.261	266.744	295.456	270.433	189.432	79.398	1.283
94.0	1.444	75.869	182.214	262.253	290.644	266.103	186.545	77.473	1.283
94.5	1.444	74.105	179.487	258.403	286.313	262.093	183.497	75.548	1.283
95.0	1.444	72.340	176.760	254.554	282.143	257.762	180.449	73.784	1.283
95.5	1.444	70.736	173.713	250.704	277.491	254.073	177.562	72.180	1.283
96.0	1.444	69.132	171.146	246.855	273.481	250.063	174.675	70.576	1.283
96.5	1.444	67.528	168.259	243.326	269.471	246.534	171.627	68.811	1.283
97.0	1.444	65.924	165.693	239.316	265.301	242.363	169.061	67.207	1.283
97.5	1.444	64.320	162.805	236.108	261.291	238.995	166.334	65.764	1.283
98.0	1.444	62.877	160.239	232.258	257.601	235.306	163.447	64.160	1.283
98.5	1.444	61.593	157.833	228.890	253.912	231.617	160.881	62.556	1.283
99.0	1.444	59.989	154.946	225.682	250.223	228.088	158.154	61.112	1.283
99.5	1.444	58.546	152.540	222.314	246.373	224.720	155.587	59.669	1.283
100.0	1.444	57.263	149.813	218.945	242.684	221.351	152.861	58.225	1.283
100.5	1.444	55.819	147.407	215.577	238.835	218.143	150.455	56.942	1.444
101.0	1.444	54.696	145.001	212.208	235.466	214.935	148.049	55.498	1.444
101.5	1.444	53.253	142.435	209.000	232.098	211.406	145.322	54.215	1.444
102.0	1.604	52.130	140.189	205.792	228.248	208.519	143.076	52.932	1.444
102.5	1.604	50.847	137.783	202.745	224.559	205.472	140.510	51.649	1.444
103.0	1.604	49.724	135.377	199.537	221.191	202.264	138.104	50.365	1.444
103.5	1.604	48.441	132.971	196.810	217.983	199.056	135.858	49.082	1.444
104.0	1.604	47.318	130.886	193.923	214.775	196.008	133.292	47.799	1.444
104.5	1.604	46.195	128.480	190.554	211.727	192.960	131.046	46.676	1.604
105.0	1.604	45.072	126.395	187.828	208.198	190.073	128.801	45.553	1.604
105.5	1.604	43.949	124.310	184.941	205.151	186.865	126.555	44.431	1.604
106.0	1.604	42.827	122.064	181.893	202.103	183.978	124.149	43.308	1.604
106.5	1.604	41.864	119.979	179.327	198.574	181.091	122.064	42.345	1.604
107.0	1.764	40.741	117.894	176.439	195.848	178.043	119.818	41.223	1.604
107.5	1.764	39.779	115.648	173.392	192.960	175.317	117.894	40.260	1.604
108.0	1.764	38.817	113.563	170.986	189.913	172.590	115.808	39.298	1.604
108.5	1.764	37.694	111.798	168.099	187.026	170.023	113.563	38.175	1.764
109.0	1.764	36.731	109.713	165.372	184.139	167.297	111.478	37.213	1.764
109.5	1.764	35.769	107.628	162.645	181.412	164.570	109.553	36.250	1.764
110.0	1.764	34.967	105.864	160.079	178.525	161.843	107.628	35.288	1.764
110.5	1.764	34.005	103.939	157.673	175.637	159.116	105.543	34.325	1.764

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CANDELA TABULATION - (Cont.)

111.0	1.764	33.042	102.014	155.106	173.071	156.871	103.618	33.523	1.764
111.5	1.925	32.240	100.250	152.700	170.344	154.144	101.533	32.561	1.764
112.0	1.925	31.278	98.325	149.973	167.778	151.577	99.768	31.599	1.764
112.5	1.925	30.476	96.400	147.888	165.051	149.171	97.844	30.797	1.925
113.0	1.925	29.674	94.796	145.161	162.324	146.765	95.919	29.834	1.925
113.5	1.925	28.872	92.711	142.755	159.597	144.039	94.154	29.032	1.925
114.0	1.925	27.909	91.107	140.510	157.352	141.633	92.390	28.230	1.925
114.5	1.925	27.107	89.342	138.104	154.625	139.387	90.465	27.268	1.925
115.0	1.925	26.466	87.578	135.858	152.219	136.981	88.540	26.466	1.925
115.5	1.925	25.504	85.814	133.613	149.653	134.575	86.776	25.664	1.925
116.0	1.925	24.862	84.210	131.046	147.247	132.330	85.012	24.862	2.085
116.5	1.925	24.060	82.445	128.961	144.841	130.084	83.408	24.220	2.085
117.0	1.925	23.258	80.681	126.555	142.274	127.678	81.643	23.418	2.085
117.5	1.925	22.456	79.077	124.470	140.029	125.432	79.879	22.616	2.085
118.0	1.925	21.814	77.633	122.064	137.623	123.187	78.275	21.814	2.085
118.5	1.925	21.012	76.029	119.979	135.377	120.941	76.671	21.173	2.085
119.0	1.925	20.371	74.425	117.894	132.971	118.856	75.067	20.371	2.085
119.5	1.925	19.569	72.821	115.808	130.565	116.771	73.463	19.729	2.085
120.0	1.925	18.927	71.217	113.402	128.320	114.365	71.699	18.927	2.085
120.5	1.925	18.286	69.613	111.638	125.914	112.280	70.255	18.286	2.246
121.0	1.925	17.484	68.170	109.392	123.508	110.194	68.651	17.644	2.246
121.5	1.925	16.682	66.726	107.307	121.583	108.109	67.207	16.842	2.246
122.0	1.925	16.040	65.283	105.222	119.016	106.024	65.764	16.200	2.246
122.5	1.925	15.398	63.679	103.137	116.931	103.778	64.320	15.559	2.246
123.0	1.925	14.757	62.235	101.212	114.686	101.854	62.716	14.917	2.246
123.5	1.925	14.115	60.791	99.127	112.440	99.929	61.273	14.276	2.246
124.0	1.925	13.474	59.508	97.042	110.355	97.844	59.829	13.634	2.246
124.5	1.925	12.832	58.065	95.117	108.270	95.598	58.385	12.992	2.406
125.0	1.925	12.190	56.621	93.192	106.184	93.673	56.942	12.351	2.406
125.5	1.925	11.549	55.177	91.267	103.939	91.748	55.498	11.709	2.406
126.0	1.925	11.068	53.734	89.503	101.854	89.824	54.055	11.068	2.406
126.5	1.925	10.426	52.451	87.578	99.768	87.899	52.771	10.426	2.406
127.0	1.925	9.784	51.167	85.653	97.523	85.974	51.488	9.945	2.406
127.5	1.925	9.303	49.884	83.889	95.598	84.049	50.045	9.303	2.406
128.0	1.925	8.662	48.441	81.964	93.673	82.445	48.761	8.822	2.566
128.5	1.925	8.180	46.997	80.200	91.748	80.681	47.478	8.341	2.566
129.0	1.925	7.699	45.714	78.275	89.663	78.756	46.195	7.860	2.566
129.5	1.925	7.378	44.591	76.511	87.738	76.992	44.912	7.539	2.566
130.0	2.085	6.897	43.468	74.746	85.814	75.227	43.789	7.058	2.566
130.5	2.085	6.576	42.025	73.142	83.889	73.623	42.506	6.737	2.727
131.0	2.085	6.256	40.902	71.538	81.964	71.699	41.223	6.416	2.727
131.5	2.085	5.935	39.779	69.774	80.039	70.095	40.100	6.095	2.727
132.0	2.085	5.614	38.496	68.170	78.115	68.330	38.817	5.774	2.727
132.5	2.085	5.293	37.373	66.405	76.350	66.726	37.694	5.454	2.727
133.0	2.085	5.133	36.250	64.641	74.586	64.962	36.571	5.293	2.887
133.5	2.085	4.972	34.967	63.037	72.661	63.358	35.288	5.133	2.887
134.0	2.085	4.812	33.684	61.433	71.057	61.593	34.165	4.972	2.887
134.5	2.085	4.652	32.401	59.829	69.132	59.989	33.042	4.812	2.887
135.0	2.085	4.491	31.117	58.225	67.368	58.385	31.919	4.652	2.887
135.5	2.085	4.331	29.995	56.461	65.603	56.781	30.797	4.491	2.887
136.0	2.085	4.170	28.711	54.857	63.839	55.177	29.674	4.331	2.887
136.5	2.085	4.170	27.589	53.413	62.075	53.573	28.711	4.331	3.048
137.0	2.085	4.010	26.306	51.969	60.310	51.969	27.589	4.170	3.048
137.5	2.085	4.010	25.183	50.365	58.706	50.526	26.466	4.170	3.048
138.0	2.085	3.850	24.060	48.761	57.102	48.922	25.504	4.010	3.048
138.5	2.085	3.850	23.098	47.318	55.498	47.478	24.541	4.010	3.048

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CANDELA TABULATION - (Cont.)

139.0	2.246	3.850	21.975	45.874	53.894	45.874	23.579	3.850	3.208
139.5	2.246	3.689	20.852	44.431	52.290	44.591	22.616	3.850	3.208
140.0	2.246	3.689	19.890	42.987	50.686	42.987	21.494	3.850	3.208
140.5	2.246	3.689	18.927	41.383	49.082	41.543	20.531	3.689	3.208
141.0	2.246	3.529	18.125	40.100	47.478	40.100	19.569	3.689	3.208
141.5	2.246	3.529	17.163	38.656	45.874	38.817	18.606	3.689	3.368
142.0	2.246	3.529	16.361	37.373	44.431	37.373	17.644	3.689	3.368
142.5	2.246	3.368	15.559	35.929	42.827	35.929	16.682	3.529	3.368
143.0	2.246	3.368	14.757	34.646	41.383	34.486	15.880	3.529	3.368
143.5	2.406	3.368	13.955	33.203	39.939	33.203	14.917	3.529	3.368
144.0	2.406	3.368	13.153	31.919	38.335	31.919	14.115	3.368	3.368
144.5	2.406	3.368	12.351	30.636	36.892	30.476	13.153	3.368	3.529
145.0	2.406	3.208	11.709	29.193	35.448	29.193	12.351	3.368	3.529
145.5	2.406	3.208	10.907	27.909	34.005	27.909	11.549	3.368	3.529
146.0	2.406	3.208	10.266	26.787	32.561	26.626	10.747	3.368	3.529
146.5	2.406	3.208	9.624	25.504	31.117	25.343	10.105	3.368	3.529
147.0	2.406	3.208	8.982	24.220	29.834	24.060	9.464	3.208	3.529
147.5	2.406	3.208	8.341	22.937	28.391	22.937	8.822	3.208	3.689
148.0	2.566	3.208	7.860	21.654	27.107	21.654	8.341	3.208	3.689
148.5	2.566	3.208	7.378	20.371	25.664	20.531	7.860	3.208	3.689
149.0	2.566	3.208	7.058	18.927	24.381	19.248	7.378	3.208	3.689
149.5	2.566	3.208	6.576	17.804	23.098	18.125	7.058	3.208	3.689
150.0	2.566	3.208	6.256	16.521	21.814	17.002	6.737	3.368	3.689
150.5	2.566	3.208	6.095	15.398	20.531	15.880	6.416	3.208	3.850
151.0	2.566	3.208	5.774	14.276	19.248	14.757	6.095	3.208	3.850
151.5	2.727	3.208	5.614	13.313	18.125	13.794	5.935	3.368	3.850
152.0	2.727	3.368	5.454	12.190	16.842	12.672	5.614	3.368	3.850
152.5	2.727	3.368	5.293	11.388	15.719	11.709	5.454	3.368	3.850
153.0	2.727	3.368	5.133	10.586	14.436	10.747	5.293	3.368	3.850
153.5	2.727	3.368	4.972	9.784	13.313	9.945	5.133	3.368	3.850
154.0	2.727	3.368	4.812	8.982	12.190	9.303	4.972	3.368	4.010
154.5	2.887	3.368	4.652	8.341	11.228	8.501	4.812	3.368	4.010
155.0	2.887	3.368	4.491	7.699	10.266	7.860	4.652	3.368	4.010
155.5	2.887	3.529	4.491	7.218	9.464	7.378	4.652	3.368	4.010
156.0	2.887	3.529	4.331	6.737	8.662	6.897	4.491	3.529	4.010
156.5	3.048	3.529	4.331	6.256	8.020	6.416	4.331	3.529	4.010
157.0	3.048	3.529	4.170	5.935	7.378	6.095	4.331	3.529	4.010
157.5	3.048	3.529	4.170	5.774	6.737	5.774	4.170	3.529	4.010
158.0	3.048	3.529	4.010	5.454	6.416	5.454	4.170	3.529	4.170
158.5	3.048	3.689	4.010	5.293	5.935	5.293	4.010	3.529	4.170
159.0	3.208	3.689	3.850	4.972	5.614	4.972	4.010	3.689	4.170
159.5	3.208	3.689	3.850	4.812	5.293	4.812	3.850	3.689	4.170
160.0	3.208	3.689	3.850	4.652	5.133	4.652	3.850	3.689	4.170
160.5	3.208	3.689	3.689	4.491	4.812	4.491	3.850	3.689	4.170
161.0	3.208	3.689	3.689	4.331	4.652	4.331	3.689	3.689	4.170
161.5	3.368	3.689	3.689	4.331	4.491	4.331	3.689	3.689	4.170
162.0	3.368	3.850	3.689	4.170	4.331	4.170	3.689	3.689	4.170
162.5	3.368	3.850	3.689	4.010	4.170	4.010	3.689	3.850	4.170
163.0	3.368	3.850	3.689	3.850	4.010	4.010	3.689	3.850	4.331
163.5	3.368	3.850	3.689	3.850	3.850	3.850	3.689	3.850	4.331
164.0	3.529	3.850	3.689	3.689	3.850	3.689	3.689	3.850	4.331
164.5	3.529	3.850	3.689	3.689	3.689	3.689	3.689	3.850	4.331
165.0	3.529	4.010	3.689	3.689	3.689	3.689	3.689	3.850	4.331
165.5	3.529	4.010	3.689	3.689	3.529	3.689	3.689	4.010	4.331
166.0	3.689	4.010	3.850	3.689	3.529	3.529	3.850	4.010	4.331
166.5	3.689	4.010	3.850	3.689	3.529	3.529	3.850	4.010	4.331

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CANDELA TABULATION - (Cont.)

167.0	3.689	4.010	3.850	3.529	3.368	3.529	3.850	4.010	4.331
167.5	3.689	4.010	3.850	3.529	3.368	3.529	3.850	4.010	4.331
168.0	3.689	4.010	3.850	3.529	3.368	3.529	3.850	4.010	4.331
168.5	3.850	4.170	3.850	3.529	3.368	3.529	3.850	4.010	4.331
169.0	3.850	4.170	3.850	3.689	3.368	3.689	3.850	4.170	4.331
169.5	3.850	4.170	3.850	3.689	3.368	3.689	3.850	4.170	4.331
170.0	3.850	4.170	3.850	3.689	3.368	3.529	3.850	4.170	4.331
170.5	3.850	4.170	3.850	3.689	3.368	3.689	3.850	4.170	4.331
171.0	3.850	4.170	4.010	3.689	3.368	3.689	3.850	4.170	4.331
171.5	3.850	4.170	4.010	3.689	3.368	3.689	4.010	4.170	4.331
172.0	3.850	4.170	4.010	3.689	3.368	3.689	4.010	4.170	4.331
172.5	4.010	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
173.0	4.010	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
173.5	4.010	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
174.0	4.010	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
174.5	4.010	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
175.0	4.010	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
175.5	4.170	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
176.0	4.170	4.170	4.010	3.689	3.529	3.689	4.010	4.170	4.331
176.5	4.170	4.170	4.010	3.850	3.529	3.689	4.010	4.170	4.331
177.0	4.170	4.331	4.010	3.850	3.529	3.689	4.010	4.331	4.331
177.5	4.170	4.331	4.010	3.850	3.529	3.689	4.010	4.331	4.331
178.0	4.170	4.331	4.010	3.850	3.529	3.850	4.010	4.331	4.331
178.5	4.170	4.331	4.010	3.850	3.529	3.850	4.010	4.331	4.331
179.0	4.331	4.331	4.010	3.850	3.529	3.850	4.170	4.331	4.331
179.5	4.331	4.331	4.010	3.850	3.529	3.850	4.010	4.331	4.331
180.0	4.010	4.010	4.010	4.010	4.010	4.010	4.010	4.010	4.010

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_5000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	750.88	N.A.	11.40
0-30	1577.31	N.A.	24.00
0-40	2557.36	N.A.	38.80
0-60	4501.82	N.A.	68.40
0-80	5802.11	N.A.	88.10
0-90	6111.27	N.A.	92.80
10-90	5915.61	N.A.	89.80
20-40	1806.48	N.A.	27.40
20-50	2817.02	N.A.	42.80
40-70	2709.26	N.A.	41.10
60-80	1300.29	N.A.	19.70
70-80	535.49	N.A.	8.10
80-90	309.16	N.A.	4.70
90-110	303.09	N.A.	4.60
90-120	384.97	N.A.	5.80
90-130	434.00	N.A.	6.60
90-150	469.76	N.A.	7.10
90-180	474.14	N.A.	7.20
110-180	171.05	N.A.	2.60
0-180	6585.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.66
10-20	555.22
20-30	826.42
30-40	980.06
40-50	1010.54
50-60	933.92
60-70	764.80
70-80	535.49
80-90	309.16
90-100	179.02
100-110	124.07
110-120	81.88
120-130	49.03
130-140	25.42
140-150	10.34
150-160	2.92
160-170	1.09
170-180	0.37

IES INDOOR REPORT
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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	79	77	75
2	96	87	80	73	92	84	78	72	80	74	69	75	71	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	63	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	53	44	38	50	42	37	48	41	36	45	40	35	33
7	63	49	40	34	60	48	39	33	45	38	33	43	37	32	41	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	28	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_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	16.5	18.0	17.0	18.5	19.0	20.2	21.7	20.6	22.2	22.6
	3H	17.8	19.2	18.2	19.6	20.1	22.6	24.0	23.1	24.4	25.0
	4H	18.1	19.5	18.6	19.9	20.5	23.7	25.0	24.2	25.5	26.0
	6H	18.3	19.6	18.9	20.1	20.6	24.8	26.0	25.3	26.5	27.1
	8H	18.4	19.6	18.9	20.1	20.6	25.4	26.5	25.9	27.1	27.6
	12H	18.4	19.5	18.9	20.0	20.6	26.0	27.1	26.5	27.6	28.2

UGR Viewed Endwise

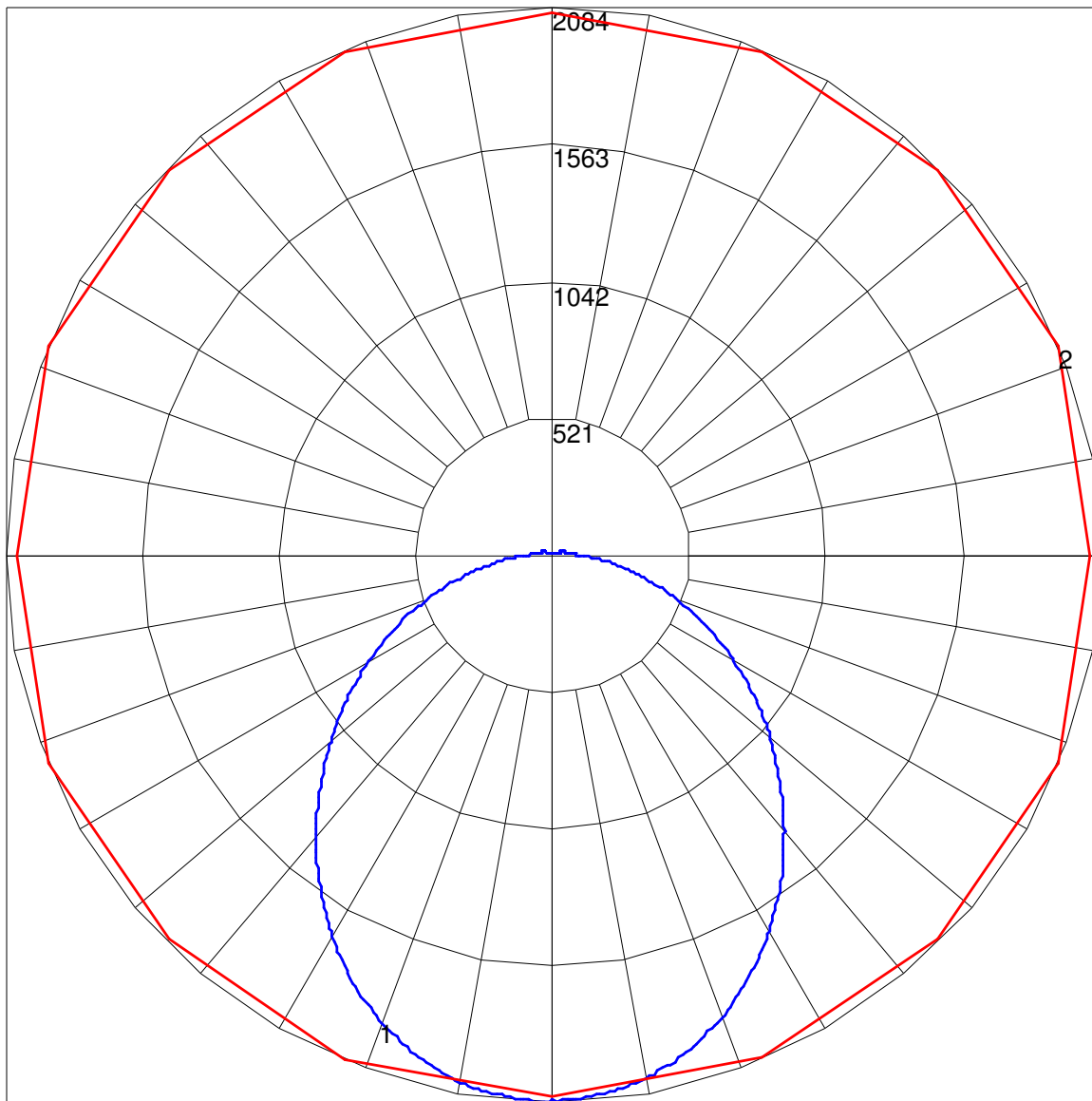
4H	2H	17.5	18.8	18.0	19.3	19.8	20.4	21.7	20.9	22.2	22.8
	3H	18.9	20.1	19.5	20.6	21.1	23.0	24.1	23.5	24.7	25.2
	4H	19.4	20.4	19.9	21.0	21.6	24.2	25.3	24.8	25.8	26.4
	6H	19.7	20.6	20.3	21.2	21.8	25.5	26.4	26.1	27.0	27.6
	8H	19.8	20.6	20.3	21.2	21.8	26.1	27.0	26.7	27.6	28.2
	12H	19.8	20.6	20.4	21.2	21.8	26.8	27.6	27.4	28.2	28.8

8H	4H	20.1	20.9	20.6	21.5	22.1	24.3	25.2	24.9	25.8	26.4
	6H	20.5	21.2	21.1	21.8	22.5	25.7	26.4	26.3	27.0	27.7
	8H	20.7	21.3	21.3	21.9	22.5	26.5	27.1	27.1	27.7	28.3
	12H	20.7	21.3	21.3	21.9	22.6	27.3	27.8	27.9	28.4	29.1

12H	4H	20.2	21.0	20.8	21.6	22.2	24.3	25.1	24.9	25.7	26.3
	6H	20.8	21.4	21.4	22.0	22.7	25.7	26.4	26.3	27.0	27.6
	8H	21.0	21.5	21.6	22.1	22.8	26.5	27.1	27.1	27.7	28.4

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 2083.588 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)