

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_4000K_.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_4000K_

[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	6505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	45.4
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	13763	8349	7746
55	12446	6872	6482
65	10847	5416	5267
75	8732	3963	4017
85	5495	2608	2841

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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	2047.187	2047.187	2047.187	2047.187	2047.187	2047.187	2047.187	2047.187	2047.187
0.5	2020.250	2055.109	2050.356	2050.356	2040.849	2051.940	2050.356	2058.278	2021.835
1.0	2018.666	2053.525	2047.187	2051.940	2039.264	2051.940	2047.187	2056.694	2021.835
1.5	2021.835	2053.525	2044.018	2050.356	2040.849	2051.940	2047.187	2055.109	2021.835
2.0	2021.835	2051.940	2047.187	2051.940	2039.264	2055.109	2047.187	2056.694	2020.250
2.5	2020.250	2050.356	2044.018	2050.356	2039.264	2048.771	2047.187	2053.525	2017.081
3.0	2015.497	2050.356	2042.433	2050.356	2039.264	2050.356	2045.602	2055.109	2017.081
3.5	2017.081	2047.187	2040.849	2045.602	2036.095	2047.187	2044.018	2050.356	2018.666
4.0	2012.328	2044.018	2037.680	2047.187	2037.680	2045.602	2042.433	2051.940	2013.912
4.5	2013.912	2039.264	2037.680	2044.018	2034.511	2045.602	2039.264	2048.771	2010.743
5.0	2005.990	2037.680	2032.926	2042.433	2034.511	2044.018	2037.680	2045.602	2010.743
5.5	2004.405	2037.680	2031.342	2040.849	2034.511	2042.433	2037.680	2042.433	2005.990
6.0	2001.236	2032.926	2028.173	2039.264	2029.757	2039.264	2032.926	2042.433	2004.405
6.5	1998.067	2029.757	2026.588	2034.511	2026.588	2037.680	2031.342	2039.264	2001.236
7.0	1993.314	2025.004	2023.419	2029.757	2023.419	2034.511	2029.757	2037.680	2002.821
7.5	1991.729	2023.419	2018.666	2029.757	2020.250	2031.342	2025.004	2034.511	1996.483
8.0	1988.560	2018.666	2015.497	2025.004	2020.250	2029.757	2023.419	2031.342	1993.314
8.5	1983.806	2013.912	2010.743	2020.250	2013.912	2025.004	2020.250	2026.588	1986.976
9.0	1980.637	2009.159	2004.405	2018.666	2010.743	2020.250	2015.497	2025.004	1983.806
9.5	1971.130	2004.405	2004.405	2015.497	2007.574	2018.666	2012.328	2018.666	1979.053
10.0	1969.546	2002.821	1996.483	2005.990	2005.990	2013.912	2009.159	2015.497	1977.468
10.5	1958.454	1993.314	1993.314	2005.990	1998.067	2010.743	2004.405	2009.159	1969.546
11.0	1956.870	1991.729	1988.560	1999.652	1994.898	2005.990	1996.483	2001.236	1969.546
11.5	1950.532	1983.806	1982.222	1994.898	1991.729	1999.652	1993.314	1999.652	1961.623
12.0	1944.194	1977.468	1979.053	1990.145	1985.391	1996.483	1986.976	1993.314	1953.701
12.5	1936.271	1971.130	1972.715	1986.976	1985.391	1988.560	1982.222	1985.391	1950.532
13.0	1933.102	1967.961	1964.792	1980.637	1979.053	1985.391	1977.468	1982.222	1941.025
13.5	1928.349	1960.039	1961.623	1972.715	1972.715	1979.053	1972.715	1977.468	1934.687
14.0	1918.842	1952.116	1953.701	1967.961	1966.377	1974.299	1964.792	1971.130	1928.349
14.5	1907.750	1944.194	1945.778	1961.623	1960.039	1966.377	1960.039	1964.792	1923.595
15.0	1902.996	1939.440	1942.609	1958.454	1953.701	1961.623	1952.116	1956.870	1915.673
15.5	1896.658	1934.687	1933.102	1950.532	1947.363	1953.701	1947.363	1948.947	1909.335
16.0	1891.905	1923.595	1926.764	1945.778	1939.440	1947.363	1937.856	1942.609	1898.243
16.5	1877.644	1917.257	1917.257	1939.440	1933.102	1941.025	1929.933	1934.687	1896.658
17.0	1869.722	1909.335	1912.504	1931.518	1926.764	1931.518	1923.595	1928.349	1885.567
17.5	1861.799	1899.827	1902.996	1922.011	1918.842	1923.595	1914.088	1922.011	1880.813
18.0	1857.046	1888.736	1893.489	1912.504	1912.504	1914.088	1907.750	1909.335	1871.306
18.5	1847.539	1882.398	1885.567	1907.750	1904.581	1907.750	1898.243	1902.996	1863.384
19.0	1834.863	1872.891	1876.060	1898.243	1895.074	1899.827	1891.905	1893.489	1853.877
19.5	1828.525	1864.968	1868.137	1890.320	1885.567	1890.320	1883.982	1885.567	1842.785
20.0	1819.017	1853.877	1858.630	1880.813	1877.644	1883.982	1874.475	1876.060	1834.863
20.5	1807.926	1844.370	1850.708	1872.891	1869.722	1872.891	1866.553	1866.553	1826.940
21.0	1800.003	1834.863	1839.616	1861.799	1860.215	1866.553	1853.877	1860.215	1814.264
21.5	1787.327	1825.355	1830.109	1852.292	1853.877	1858.630	1847.539	1849.123	1806.341
22.0	1779.405	1817.433	1822.186	1842.785	1844.370	1847.539	1838.032	1839.616	1796.834
22.5	1765.144	1803.172	1811.095	1834.863	1838.032	1842.785	1828.525	1828.525	1784.158
23.0	1755.637	1793.665	1801.588	1823.771	1828.525	1831.694	1820.602	1819.017	1777.820
23.5	1747.714	1782.574	1793.665	1815.848	1822.186	1826.940	1811.095	1809.510	1766.729
24.0	1731.869	1773.067	1782.574	1806.341	1812.679	1817.433	1801.588	1795.250	1750.884
24.5	1725.531	1763.560	1771.482	1798.419	1804.757	1809.510	1790.496	1785.743	1741.376
25.0	1712.855	1747.714	1761.975	1790.496	1800.003	1801.588	1780.989	1776.236	1731.869
25.5	1698.595	1738.207	1747.714	1782.574	1792.081	1792.081	1773.067	1766.729	1722.362
26.0	1685.919	1728.700	1738.207	1769.898	1782.574	1782.574	1761.975	1755.637	1708.102
26.5	1674.827	1714.440	1728.700	1763.560	1774.651	1773.067	1750.884	1742.961	1698.595

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27.0	1665.320	1703.348	1719.193	1752.468	1761.975	1763.560	1739.792	1731.869	1685.919
27.5	1651.059	1693.841	1708.102	1744.545	1754.053	1752.468	1730.285	1720.778	1673.243
28.0	1639.968	1677.996	1693.841	1735.038	1746.130	1742.961	1717.609	1708.102	1662.151
28.5	1628.876	1666.904	1684.334	1723.947	1736.623	1733.454	1708.102	1697.010	1651.059
29.0	1616.200	1654.228	1673.243	1714.440	1727.116	1722.362	1697.010	1685.919	1636.799
29.5	1603.524	1643.137	1662.151	1703.348	1716.024	1712.855	1687.503	1671.658	1624.123
30.0	1587.679	1630.461	1651.059	1692.257	1706.517	1703.348	1674.827	1660.566	1609.862
30.5	1575.161	1617.785	1638.383	1682.750	1697.010	1692.257	1663.735	1647.890	1597.186
31.0	1561.851	1603.524	1627.292	1671.658	1687.503	1682.750	1651.059	1635.214	1587.679
31.5	1551.869	1589.263	1616.200	1660.566	1676.412	1673.243	1641.552	1622.538	1570.566
32.0	1535.232	1579.440	1603.524	1651.059	1666.904	1663.735	1630.461	1609.862	1558.841
32.5	1524.457	1565.179	1590.848	1639.968	1657.397	1652.644	1616.200	1595.602	1547.908
33.0	1508.929	1552.503	1576.904	1630.461	1649.475	1643.137	1603.524	1581.658	1530.161
33.5	1494.985	1539.035	1565.020	1620.954	1638.383	1630.461	1592.433	1569.457	1518.911
34.0	1482.309	1525.725	1555.830	1608.278	1628.876	1620.954	1582.292	1557.573	1507.344
34.5	1467.573	1510.830	1542.362	1597.186	1619.369	1609.862	1569.774	1541.570	1491.182
35.0	1456.006	1497.996	1531.112	1587.679	1608.278	1598.771	1557.890	1529.211	1480.566
35.5	1441.587	1483.260	1519.862	1577.380	1600.355	1587.679	1544.422	1514.316	1463.453
36.0	1424.633	1468.048	1506.235	1566.130	1589.263	1579.123	1531.746	1501.165	1452.045
36.5	1409.897	1454.897	1495.777	1554.404	1579.915	1567.556	1520.020	1487.380	1438.894
37.0	1398.488	1439.844	1481.517	1545.531	1570.249	1557.098	1506.869	1473.594	1427.960
37.5	1383.277	1427.485	1469.950	1533.964	1559.950	1544.580	1496.253	1460.918	1414.175
38.0	1366.957	1413.066	1456.798	1523.665	1549.809	1533.489	1483.577	1447.925	1397.855
38.5	1353.805	1398.647	1446.182	1512.098	1538.401	1522.556	1469.633	1435.091	1382.326
39.0	1337.960	1383.277	1432.872	1500.848	1527.626	1511.147	1458.541	1422.732	1367.274
39.5	1322.907	1367.749	1420.830	1489.122	1517.802	1500.056	1445.073	1408.788	1349.686
40.0	1306.745	1355.231	1408.312	1478.348	1508.612	1490.073	1432.555	1395.953	1333.207
40.5	1293.119	1340.971	1395.953	1466.939	1496.411	1478.665	1420.196	1379.633	1317.678
41.0	1275.847	1324.967	1382.802	1456.482	1484.210	1467.573	1407.520	1365.214	1302.150
41.5	1261.587	1309.281	1372.027	1445.707	1475.971	1455.056	1393.893	1347.943	1286.464
42.0	1245.108	1295.337	1358.242	1433.823	1465.038	1446.182	1381.376	1331.622	1272.362
42.5	1230.372	1280.443	1345.091	1423.365	1454.580	1433.506	1367.274	1317.045	1256.833
43.0	1214.527	1267.291	1332.414	1411.481	1443.805	1421.305	1355.390	1299.615	1241.305
43.5	1200.742	1253.664	1319.105	1399.598	1434.140	1409.580	1343.664	1284.245	1227.678
44.0	1187.273	1237.502	1306.745	1389.140	1423.207	1399.439	1329.245	1267.766	1211.358
44.5	1168.418	1222.291	1291.534	1376.939	1412.274	1388.665	1318.471	1253.189	1196.939
45.0	1154.632	1207.238	1281.076	1365.848	1401.499	1375.038	1305.953	1236.710	1182.044
45.5	1140.372	1192.502	1266.340	1354.122	1388.506	1364.897	1292.802	1223.400	1167.150
46.0	1124.685	1179.985	1254.140	1341.288	1377.731	1353.964	1280.443	1207.713	1150.354
46.5	1110.900	1165.090	1240.513	1328.136	1367.432	1340.654	1267.766	1193.611	1136.569
47.0	1094.738	1149.087	1227.678	1318.788	1356.024	1331.464	1256.041	1179.034	1122.308
47.5	1078.893	1134.826	1214.527	1305.636	1345.883	1320.214	1243.207	1163.981	1104.087
48.0	1066.534	1120.090	1202.485	1296.288	1332.890	1305.795	1230.689	1148.770	1091.727
48.5	1049.263	1105.354	1189.492	1281.869	1322.590	1295.178	1217.696	1134.192	1073.506
49.0	1039.122	1092.995	1177.449	1270.935	1311.182	1283.612	1204.228	1120.090	1059.245
49.5	1025.495	1076.516	1164.615	1259.369	1298.823	1272.520	1187.749	1104.403	1045.143
50.0	1009.491	1063.840	1151.780	1247.485	1288.682	1260.636	1175.865	1089.351	1032.942
50.5	993.646	1052.590	1136.094	1235.442	1277.273	1248.277	1162.238	1075.248	1019.474
51.0	978.752	1038.805	1125.319	1223.242	1266.657	1236.393	1147.185	1059.720	1002.044
51.5	964.016	1025.019	1111.217	1212.784	1256.833	1224.668	1134.034	1050.689	986.991
52.0	948.488	1009.650	1099.491	1201.217	1244.474	1213.101	1119.773	1036.270	970.988
52.5	934.227	995.706	1086.340	1189.016	1232.907	1200.900	1107.256	1023.435	956.410
53.0	918.224	980.336	1072.555	1177.449	1221.023	1190.601	1094.421	1007.907	942.150
53.5	903.804	966.076	1059.720	1165.090	1209.140	1177.925	1080.160	993.012	925.512
54.0	888.118	952.766	1048.153	1153.048	1196.463	1166.041	1068.594	978.435	909.350
54.5	872.907	937.238	1038.805	1139.738	1186.640	1154.791	1054.650	963.224	894.931

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55.0	856.586	922.660	1026.604	1128.330	1174.756	1141.956	1046.727	949.438	878.928
55.5	841.692	909.667	1013.136	1115.337	1161.921	1129.756	1034.368	934.861	863.083
56.0	826.797	893.822	999.826	1102.660	1151.146	1118.347	1020.741	919.808	848.980
56.5	812.537	879.086	986.516	1091.252	1137.837	1103.770	1006.481	903.646	832.818
57.0	797.009	864.192	973.681	1078.259	1126.428	1091.727	993.171	889.544	815.864
57.5	782.431	850.723	961.639	1066.217	1112.801	1078.576	979.544	873.699	800.970
58.0	768.170	835.829	947.220	1053.858	1099.808	1065.900	965.600	859.597	785.917
58.5	752.801	821.093	933.910	1045.301	1087.766	1055.442	952.449	844.861	769.913
59.0	738.699	806.832	922.026	1036.111	1076.041	1045.301	938.030	829.174	755.811
59.5	723.487	792.889	908.083	1021.217	1062.731	1033.417	925.195	815.389	739.649
60.0	708.910	778.787	893.664	1008.857	1054.967	1020.266	911.410	800.970	726.022
60.5	694.174	764.368	880.195	997.607	1043.558	1007.590	899.209	785.442	709.227
61.0	678.170	750.107	867.678	983.347	1031.833	993.963	885.107	772.132	694.332
61.5	663.751	735.688	855.002	970.195	1019.474	980.970	872.273	756.287	679.279
62.0	649.015	721.586	842.009	957.836	1005.688	969.245	857.537	742.343	663.910
62.5	634.438	707.801	829.016	945.002	992.220	954.984	845.178	727.449	649.015
63.0	620.336	693.382	815.864	932.167	979.544	942.467	831.551	713.505	634.438
63.5	605.441	679.913	802.554	918.382	967.026	929.315	817.607	698.927	619.860
64.0	590.072	665.811	789.878	905.547	954.033	916.639	804.773	684.508	604.015
64.5	574.226	651.709	775.776	892.079	940.090	904.438	790.829	670.565	589.279
65.0	560.441	638.716	762.625	879.245	927.255	890.495	778.153	656.304	574.385
65.5	546.656	624.614	749.632	867.361	915.371	877.660	765.477	642.043	559.966
66.0	531.603	610.670	737.272	852.466	902.062	864.033	751.216	627.624	545.071
66.5	518.452	597.202	723.646	840.266	888.118	850.723	738.699	613.522	530.494
67.0	504.033	584.050	710.494	826.956	875.283	836.621	724.438	599.895	516.709
67.5	490.406	570.424	697.977	813.012	861.340	824.104	712.396	586.427	502.607
68.0	476.304	557.272	683.875	801.445	848.664	811.111	698.610	572.483	488.980
68.5	462.518	544.279	671.832	787.026	835.512	797.009	685.142	558.857	473.768
69.0	448.733	530.177	658.839	775.301	822.202	784.649	672.149	546.022	460.300
69.5	434.156	517.026	646.005	761.357	808.734	771.656	659.631	532.237	445.247
70.0	421.004	504.033	632.536	748.523	795.266	757.554	646.005	518.135	431.779
70.5	407.853	490.089	620.019	734.896	782.273	745.195	633.012	504.508	418.152
71.0	393.434	477.730	607.343	722.853	769.121	731.885	620.336	491.040	404.050
71.5	380.441	464.420	595.459	709.860	755.970	719.684	606.867	477.730	390.106
72.0	366.973	452.378	581.832	696.075	742.660	706.058	594.825	465.054	375.529
72.5	353.663	439.385	569.631	683.558	730.301	693.698	581.674	451.427	361.902
73.0	340.194	427.184	556.638	669.931	716.674	679.755	569.156	438.275	349.543
73.5	327.518	414.825	544.438	656.462	703.047	666.920	556.638	425.441	335.758
74.0	314.525	401.990	532.237	645.054	690.529	653.927	543.645	412.606	322.765
74.5	300.740	388.997	518.927	631.586	676.903	641.410	531.920	399.297	308.979
75.0	287.589	377.113	507.043	619.543	664.860	628.100	519.719	387.096	296.462
75.5	275.705	365.071	495.476	606.234	651.709	615.424	506.885	374.103	283.469
76.0	262.553	353.029	483.276	594.350	638.874	603.223	495.318	362.219	270.634
76.5	250.669	341.303	471.392	581.674	625.881	590.072	482.800	349.384	258.909
77.0	238.944	329.578	459.508	568.839	612.888	577.871	470.283	337.501	246.391
77.5	226.902	318.011	447.941	556.955	601.005	565.036	458.399	324.983	234.349
78.0	214.543	306.444	436.532	544.596	587.695	552.994	446.990	313.733	222.307
78.5	202.817	295.511	424.807	532.554	575.652	540.952	435.423	302.166	210.423
79.0	191.250	284.261	413.874	520.353	562.976	528.593	423.540	291.074	199.173
79.5	180.634	273.170	403.099	508.786	551.409	517.818	412.606	279.666	187.131
80.0	169.859	262.078	392.008	496.585	539.843	505.300	401.198	268.574	176.356
80.5	158.768	251.462	381.075	485.494	527.166	494.050	390.582	258.592	165.264
81.0	147.993	241.321	370.458	473.768	515.758	482.008	379.807	247.659	154.965
81.5	137.694	231.022	359.684	462.677	504.033	470.758	369.191	237.676	144.507
82.0	127.553	221.198	349.384	451.585	491.515	459.666	358.575	227.853	134.366
82.5	118.204	211.057	339.085	441.444	480.107	447.941	347.800	218.187	124.701

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CANDELA TABULATION - (Cont.)

83.0	108.222	201.550	328.944	430.353	469.332	436.849	338.134	208.522	115.035
83.5	98.873	192.360	318.962	419.578	457.923	426.550	327.677	199.173	105.687
84.0	89.683	183.328	309.296	408.962	447.149	416.092	318.328	189.983	96.497
84.5	80.810	174.455	299.631	398.980	436.374	405.476	308.504	181.109	87.940
85.0	72.571	166.215	289.965	388.522	425.916	394.860	298.839	172.553	79.067
85.5	64.331	157.500	281.092	378.223	415.300	385.036	289.648	163.363	70.828
86.0	56.092	149.419	272.219	368.874	405.001	375.212	280.141	155.124	62.430
86.5	48.328	141.497	263.662	359.208	395.177	365.071	271.427	146.726	54.349
87.0	40.563	133.733	254.789	349.860	385.194	355.881	262.870	138.803	46.268
87.5	33.433	126.444	246.550	341.303	375.687	346.849	253.997	131.039	38.504
88.0	26.461	118.521	238.786	332.589	366.973	337.976	245.916	123.116	30.739
88.5	19.489	111.708	231.655	324.666	358.099	329.895	238.310	115.352	22.817
89.0	12.518	105.211	225.000	316.902	350.335	321.656	230.863	108.539	15.370
89.5	6.180	99.824	218.662	309.772	342.571	314.525	224.525	102.518	8.081
90.0	2.218	94.912	213.117	302.800	335.124	307.236	218.662	97.289	2.535
90.5	1.426	90.792	207.729	296.145	327.677	300.106	212.800	92.852	1.426
91.0	1.426	87.306	202.342	289.648	320.705	293.768	206.779	89.366	1.268
91.5	1.426	84.771	197.747	283.310	314.050	287.589	202.183	86.673	1.268
92.0	1.426	82.553	192.993	277.765	308.029	282.043	197.747	84.454	1.268
92.5	1.426	80.493	189.666	272.694	302.166	276.655	193.944	82.395	1.268
93.0	1.426	78.592	186.180	267.782	296.620	271.743	190.458	80.335	1.268
93.5	1.426	76.690	183.011	263.504	291.867	267.148	187.131	78.433	1.268
94.0	1.426	74.947	180.000	259.067	287.113	262.870	184.279	76.532	1.268
94.5	1.426	73.204	177.307	255.265	282.835	258.909	181.268	74.630	1.268
95.0	1.426	71.461	174.613	251.462	278.715	254.631	178.257	72.887	1.268
95.5	1.426	69.877	171.602	247.659	274.120	250.986	175.405	71.303	1.268
96.0	1.426	68.292	169.067	243.856	270.159	247.025	172.553	69.718	1.268
96.5	1.426	66.708	166.215	240.370	266.198	243.539	169.543	67.975	1.268
97.0	1.426	65.123	163.680	236.409	262.078	239.419	167.007	66.391	1.268
97.5	1.426	63.539	160.828	233.240	258.117	236.092	164.314	64.965	1.268
98.0	1.426	62.113	158.293	229.437	254.472	232.448	161.462	63.380	1.268
98.5	1.426	60.845	155.916	226.110	250.828	228.803	158.926	61.796	1.268
99.0	1.426	59.261	153.064	222.941	247.184	225.317	156.233	60.370	1.268
99.5	1.426	57.835	150.687	219.613	243.381	221.990	153.697	58.944	1.268
100.0	1.426	56.567	147.993	216.286	239.736	218.662	151.004	57.518	1.268
100.5	1.426	55.141	145.616	212.958	235.934	215.493	148.627	56.250	1.426
101.0	1.426	54.032	143.240	209.631	232.606	212.324	146.250	54.824	1.426
101.5	1.426	52.606	140.704	206.462	229.279	208.838	143.557	53.556	1.426
102.0	1.585	51.497	138.486	203.293	225.476	205.986	141.338	52.289	1.426
102.5	1.585	50.229	136.109	200.282	221.831	202.976	138.803	51.021	1.426
103.0	1.585	49.120	133.733	197.113	218.504	199.807	136.426	49.754	1.426
103.5	1.585	47.852	131.356	194.419	215.335	196.638	134.208	48.486	1.426
104.0	1.585	46.743	129.296	191.567	212.166	193.627	131.673	47.218	1.426
104.5	1.585	45.634	126.919	188.240	209.155	190.617	129.454	46.109	1.585
105.0	1.585	44.525	124.859	185.546	205.669	187.764	127.236	45.000	1.585
105.5	1.585	43.416	122.800	182.694	202.659	184.595	125.018	43.891	1.585
106.0	1.585	42.306	120.581	179.683	199.648	181.743	122.641	42.782	1.585
106.5	1.585	41.356	118.521	177.148	196.162	178.891	120.581	41.831	1.585
107.0	1.743	40.247	116.461	174.296	193.469	175.881	118.363	40.722	1.585
107.5	1.743	39.296	114.243	171.286	190.617	173.187	116.461	39.771	1.585
108.0	1.743	38.345	112.183	168.909	187.606	170.493	114.402	38.820	1.585
108.5	1.743	37.236	110.440	166.057	184.754	167.958	112.183	37.711	1.743
109.0	1.743	36.285	108.380	163.363	181.902	165.264	110.123	36.761	1.743
109.5	1.743	35.335	106.321	160.669	179.208	162.571	108.222	35.810	1.743
110.0	1.743	34.542	104.578	158.134	176.356	159.877	106.321	34.859	1.743
110.5	1.743	33.592	102.676	155.757	173.504	157.183	104.261	33.909	1.743

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CANDELA TABULATION - (Cont.)

111.0	1.743	32.641	100.775	153.222	170.969	154.965	102.359	33.116	1.743
111.5	1.901	31.849	99.032	150.845	168.275	152.271	100.299	32.166	1.743
112.0	1.901	30.898	97.130	148.152	165.740	149.736	98.557	31.215	1.743
112.5	1.901	30.106	95.229	146.092	163.046	147.359	96.655	30.423	1.901
113.0	1.901	29.313	93.645	143.398	160.352	144.983	94.754	29.472	1.901
113.5	1.901	28.521	91.585	141.021	157.659	142.289	93.011	28.680	1.901
114.0	1.901	27.570	90.000	138.803	155.440	139.912	91.268	27.887	1.901
114.5	1.901	26.778	88.257	136.426	152.747	137.694	89.366	26.937	1.901
115.0	1.901	26.144	86.514	134.208	150.370	135.317	87.465	26.144	1.901
115.5	1.901	25.194	84.771	131.990	147.835	132.940	85.722	25.352	1.901
116.0	1.901	24.560	83.187	129.454	145.458	130.722	83.979	24.560	2.060
116.5	1.901	23.768	81.444	127.395	143.081	128.504	82.395	23.926	2.060
117.0	1.901	22.975	79.701	125.018	140.546	126.127	80.652	23.134	2.060
117.5	1.901	22.183	78.116	122.958	138.328	123.909	78.909	22.342	2.060
118.0	1.901	21.549	76.690	120.581	135.951	121.690	77.324	21.549	2.060
118.5	1.901	20.757	75.106	118.521	133.733	119.472	75.740	20.916	2.060
119.0	1.901	20.123	73.521	116.461	131.356	117.412	74.155	20.123	2.060
119.5	1.901	19.331	71.937	114.402	128.979	115.352	72.571	19.489	2.060
120.0	1.901	18.697	70.352	112.025	126.761	112.976	70.828	18.697	2.060
120.5	1.901	18.063	68.768	110.282	124.384	110.916	69.402	18.063	2.218
121.0	1.901	17.271	67.342	108.064	122.007	108.856	67.817	17.430	2.218
121.5	1.901	16.479	65.916	106.004	120.106	106.796	66.391	16.637	2.218
122.0	1.901	15.845	64.490	103.944	117.571	104.736	64.965	16.004	2.218
122.5	1.901	15.211	62.905	101.884	115.511	102.518	63.539	15.370	2.218
123.0	1.901	14.577	61.479	99.983	113.292	100.616	61.954	14.736	2.218
123.5	1.901	13.944	60.053	97.923	111.074	98.715	60.528	14.102	2.218
124.0	1.901	13.310	58.785	95.863	109.014	96.655	59.102	13.468	2.218
124.5	1.901	12.676	57.359	93.961	106.954	94.437	57.676	12.835	2.377
125.0	1.901	12.042	55.933	92.060	104.895	92.535	56.250	12.201	2.377
125.5	1.901	11.408	54.507	90.159	102.676	90.634	54.824	11.567	2.377
126.0	1.901	10.933	53.081	88.416	100.616	88.733	53.398	10.933	2.377
126.5	1.901	10.299	51.813	86.514	98.557	86.831	52.130	10.299	2.377
127.0	1.901	9.666	50.546	84.613	96.338	84.930	50.863	9.824	2.377
127.5	1.901	9.190	49.278	82.870	94.437	83.028	49.437	9.190	2.377
128.0	1.901	8.556	47.852	80.968	92.535	81.444	48.169	8.715	2.535
128.5	1.901	8.081	46.426	79.225	90.634	79.701	46.901	8.239	2.535
129.0	1.901	7.606	45.159	77.324	88.574	77.799	45.634	7.764	2.535
129.5	1.901	7.289	44.049	75.581	86.673	76.056	44.366	7.447	2.535
130.0	2.060	6.813	42.940	73.838	84.771	74.314	43.257	6.972	2.535
130.5	2.060	6.496	41.514	72.254	82.870	72.729	41.990	6.655	2.694
131.0	2.060	6.180	40.405	70.669	80.968	70.828	40.722	6.338	2.694
131.5	2.060	5.863	39.296	68.926	79.067	69.243	39.613	6.021	2.694
132.0	2.060	5.546	38.028	67.342	77.166	67.500	38.345	5.704	2.694
132.5	2.060	5.229	36.919	65.599	75.423	65.916	37.236	5.387	2.694
133.0	2.060	5.070	35.810	63.856	73.680	64.173	36.127	5.229	2.852
133.5	2.060	4.912	34.542	62.271	71.778	62.588	34.859	5.070	2.852
134.0	2.060	4.754	33.275	60.687	70.194	60.845	33.750	4.912	2.852
134.5	2.060	4.595	32.007	59.102	68.292	59.261	32.641	4.754	2.852
135.0	2.060	4.437	30.739	57.518	66.549	57.676	31.532	4.595	2.852
135.5	2.060	4.278	29.630	55.775	64.806	56.092	30.423	4.437	2.852
136.0	2.060	4.120	28.363	54.190	63.063	54.507	29.313	4.278	2.852
136.5	2.060	4.120	27.254	52.764	61.321	52.923	28.363	4.278	3.011
137.0	2.060	3.961	25.986	51.338	59.578	51.338	27.254	4.120	3.011
137.5	2.060	3.961	24.877	49.754	57.993	49.912	26.144	4.120	3.011
138.0	2.060	3.803	23.768	48.169	56.409	48.328	25.194	3.961	3.011
138.5	2.060	3.803	22.817	46.743	54.824	46.901	24.243	3.961	3.011

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CANDELA TABULATION - (Cont.)

139.0	2.218	3.803	21.708	45.317	53.240	45.317	23.292	3.803	3.169
139.5	2.218	3.644	20.599	43.891	51.655	44.049	22.342	3.803	3.169
140.0	2.218	3.644	19.648	42.465	50.071	42.465	21.232	3.803	3.169
140.5	2.218	3.644	18.697	40.880	48.486	41.039	20.282	3.644	3.169
141.0	2.218	3.486	17.905	39.613	46.901	39.613	19.331	3.644	3.169
141.5	2.218	3.486	16.954	38.187	45.317	38.345	18.380	3.644	3.327
142.0	2.218	3.486	16.162	36.919	43.891	36.919	17.430	3.644	3.327
142.5	2.218	3.327	15.370	35.493	42.306	35.493	16.479	3.486	3.327
143.0	2.218	3.327	14.577	34.225	40.880	34.067	15.687	3.486	3.327
143.5	2.377	3.327	13.785	32.799	39.454	32.799	14.736	3.486	3.327
144.0	2.377	3.327	12.993	31.532	37.870	31.532	13.944	3.327	3.327
144.5	2.377	3.327	12.201	30.264	36.444	30.106	12.993	3.327	3.486
145.0	2.377	3.169	11.567	28.838	35.018	28.838	12.201	3.327	3.486
145.5	2.377	3.169	10.775	27.570	33.592	27.570	11.408	3.327	3.486
146.0	2.377	3.169	10.141	26.461	32.166	26.303	10.616	3.327	3.486
146.5	2.377	3.169	9.507	25.194	30.739	25.035	9.982	3.327	3.486
147.0	2.377	3.169	8.873	23.926	29.472	23.768	9.349	3.169	3.486
147.5	2.377	3.169	8.239	22.658	28.046	22.658	8.715	3.169	3.644
148.0	2.535	3.169	7.764	21.391	26.778	21.391	8.239	3.169	3.644
148.5	2.535	3.169	7.289	20.123	25.352	20.282	7.764	3.169	3.644
149.0	2.535	3.169	6.972	18.697	24.085	19.014	7.289	3.169	3.644
149.5	2.535	3.169	6.496	17.588	22.817	17.905	6.972	3.169	3.644
150.0	2.535	3.169	6.180	16.320	21.549	16.796	6.655	3.327	3.644
150.5	2.535	3.169	6.021	15.211	20.282	15.687	6.338	3.169	3.803
151.0	2.535	3.169	5.704	14.102	19.014	14.577	6.021	3.169	3.803
151.5	2.694	3.169	5.546	13.151	17.905	13.627	5.863	3.327	3.803
152.0	2.694	3.327	5.387	12.042	16.637	12.518	5.546	3.327	3.803
152.5	2.694	3.327	5.229	11.250	15.528	11.567	5.387	3.327	3.803
153.0	2.694	3.327	5.070	10.458	14.261	10.616	5.229	3.327	3.803
153.5	2.694	3.327	4.912	9.666	13.151	9.824	5.070	3.327	3.803
154.0	2.694	3.327	4.754	8.873	12.042	9.190	4.912	3.327	3.961
154.5	2.852	3.327	4.595	8.239	11.092	8.398	4.754	3.327	3.961
155.0	2.852	3.327	4.437	7.606	10.141	7.764	4.595	3.327	3.961
155.5	2.852	3.486	4.437	7.130	9.349	7.289	4.595	3.327	3.961
156.0	2.852	3.486	4.278	6.655	8.556	6.813	4.437	3.486	3.961
156.5	3.011	3.486	4.278	6.180	7.923	6.338	4.278	3.486	3.961
157.0	3.011	3.486	4.120	5.863	7.289	6.021	4.278	3.486	3.961
157.5	3.011	3.486	4.120	5.704	6.655	5.704	4.120	3.486	3.961
158.0	3.011	3.486	3.961	5.387	6.338	5.387	4.120	3.486	4.120
158.5	3.011	3.644	3.961	5.229	5.863	5.229	3.961	3.486	4.120
159.0	3.169	3.644	3.803	4.912	5.546	4.912	3.961	3.644	4.120
159.5	3.169	3.644	3.803	4.754	5.229	4.754	3.803	3.644	4.120
160.0	3.169	3.644	3.803	4.595	5.070	4.595	3.803	3.644	4.120
160.5	3.169	3.644	3.644	4.437	4.754	4.437	3.803	3.644	4.120
161.0	3.169	3.644	3.644	4.278	4.595	4.278	3.644	3.644	4.120
161.5	3.327	3.644	3.644	4.278	4.437	4.278	3.644	3.644	4.120
162.0	3.327	3.803	3.644	4.120	4.278	4.120	3.644	3.644	4.120
162.5	3.327	3.803	3.644	3.961	4.120	3.961	3.644	3.803	4.120
163.0	3.327	3.803	3.644	3.803	3.961	3.961	3.644	3.803	4.278
163.5	3.327	3.803	3.644	3.803	3.803	3.803	3.644	3.803	4.278
164.0	3.486	3.803	3.644	3.644	3.803	3.644	3.644	3.803	4.278
164.5	3.486	3.803	3.644	3.644	3.644	3.644	3.644	3.803	4.278
165.0	3.486	3.961	3.644	3.644	3.644	3.644	3.644	3.803	4.278
165.5	3.486	3.961	3.644	3.644	3.486	3.644	3.644	3.961	4.278
166.0	3.644	3.961	3.803	3.644	3.486	3.486	3.803	3.961	4.278
166.5	3.644	3.961	3.803	3.644	3.486	3.486	3.803	3.961	4.278

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CANDELA TABULATION - (Cont.)

167.0	3.644	3.961	3.803	3.486	3.327	3.486	3.803	3.961	4.278
167.5	3.644	3.961	3.803	3.486	3.327	3.486	3.803	3.961	4.278
168.0	3.644	3.961	3.803	3.486	3.327	3.486	3.803	3.961	4.278
168.5	3.803	4.120	3.803	3.486	3.327	3.486	3.803	3.961	4.278
169.0	3.803	4.120	3.803	3.644	3.327	3.644	3.803	4.120	4.278
169.5	3.803	4.120	3.803	3.644	3.327	3.644	3.803	4.120	4.278
170.0	3.803	4.120	3.803	3.644	3.327	3.486	3.803	4.120	4.278
170.5	3.803	4.120	3.803	3.644	3.327	3.644	3.803	4.120	4.278
171.0	3.803	4.120	3.961	3.644	3.327	3.644	3.803	4.120	4.278
171.5	3.803	4.120	3.961	3.644	3.327	3.644	3.961	4.120	4.278
172.0	3.803	4.120	3.961	3.644	3.327	3.644	3.961	4.120	4.278
172.5	3.961	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
173.0	3.961	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
173.5	3.961	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
174.0	3.961	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
174.5	3.961	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
175.0	3.961	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
175.5	4.120	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
176.0	4.120	4.120	3.961	3.644	3.486	3.644	3.961	4.120	4.278
176.5	4.120	4.120	3.961	3.803	3.486	3.644	3.961	4.120	4.278
177.0	4.120	4.278	3.961	3.803	3.486	3.644	3.961	4.278	4.278
177.5	4.120	4.278	3.961	3.803	3.486	3.644	3.961	4.278	4.278
178.0	4.120	4.278	3.961	3.803	3.486	3.803	3.961	4.278	4.278
178.5	4.120	4.278	3.961	3.803	3.486	3.803	3.961	4.278	4.278
179.0	4.278	4.278	3.961	3.803	3.486	3.803	4.120	4.278	4.278
179.5	4.278	4.278	3.961	3.803	3.486	3.803	3.961	4.278	4.278
180.0	3.961	3.961	3.961	3.961	3.961	3.961	3.961	3.961	3.961

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	741.76	N.A.	11.40
0-30	1558.15	N.A.	24.00
0-40	2526.3	N.A.	38.80
0-60	4447.14	N.A.	68.40
0-80	5731.63	N.A.	88.10
0-90	6037.04	N.A.	92.80
10-90	5843.75	N.A.	89.80
20-40	1784.54	N.A.	27.40
20-50	2782.8	N.A.	42.80
40-70	2676.35	N.A.	41.10
60-80	1284.5	N.A.	19.70
70-80	528.99	N.A.	8.10
80-90	305.40	N.A.	4.70
90-110	299.41	N.A.	4.60
90-120	380.29	N.A.	5.80
90-130	428.73	N.A.	6.60
90-150	464.05	N.A.	7.10
90-180	468.38	N.A.	7.20
110-180	168.97	N.A.	2.60
0-180	6505.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.28
10-20	548.48
20-30	816.39
30-40	968.15
40-50	998.26
50-60	922.57
60-70	755.51
70-80	528.99
80-90	305.40
90-100	176.85
100-110	122.56
110-120	80.88
120-130	48.44
130-140	25.11
140-150	10.21
150-160	2.88
160-170	1.08
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_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	16.4	17.9	16.9	18.4	18.9	20.1	21.6	20.5	22.1	22.5
	3H	17.7	19.1	18.1	19.5	20.0	22.5	23.9	23.0	24.3	24.9
	4H	18.0	19.4	18.5	19.8	20.4	23.6	24.9	24.1	25.4	25.9
	6H	18.2	19.5	18.8	20.0	20.5	24.7	25.9	25.2	26.4	27.0
	8H	18.3	19.5	18.8	20.0	20.5	25.3	26.4	25.8	27.0	27.5
	12H	18.3	19.4	18.8	19.9	20.5	25.9	27.0	26.4	27.5	28.1

UGR Viewed Endwise

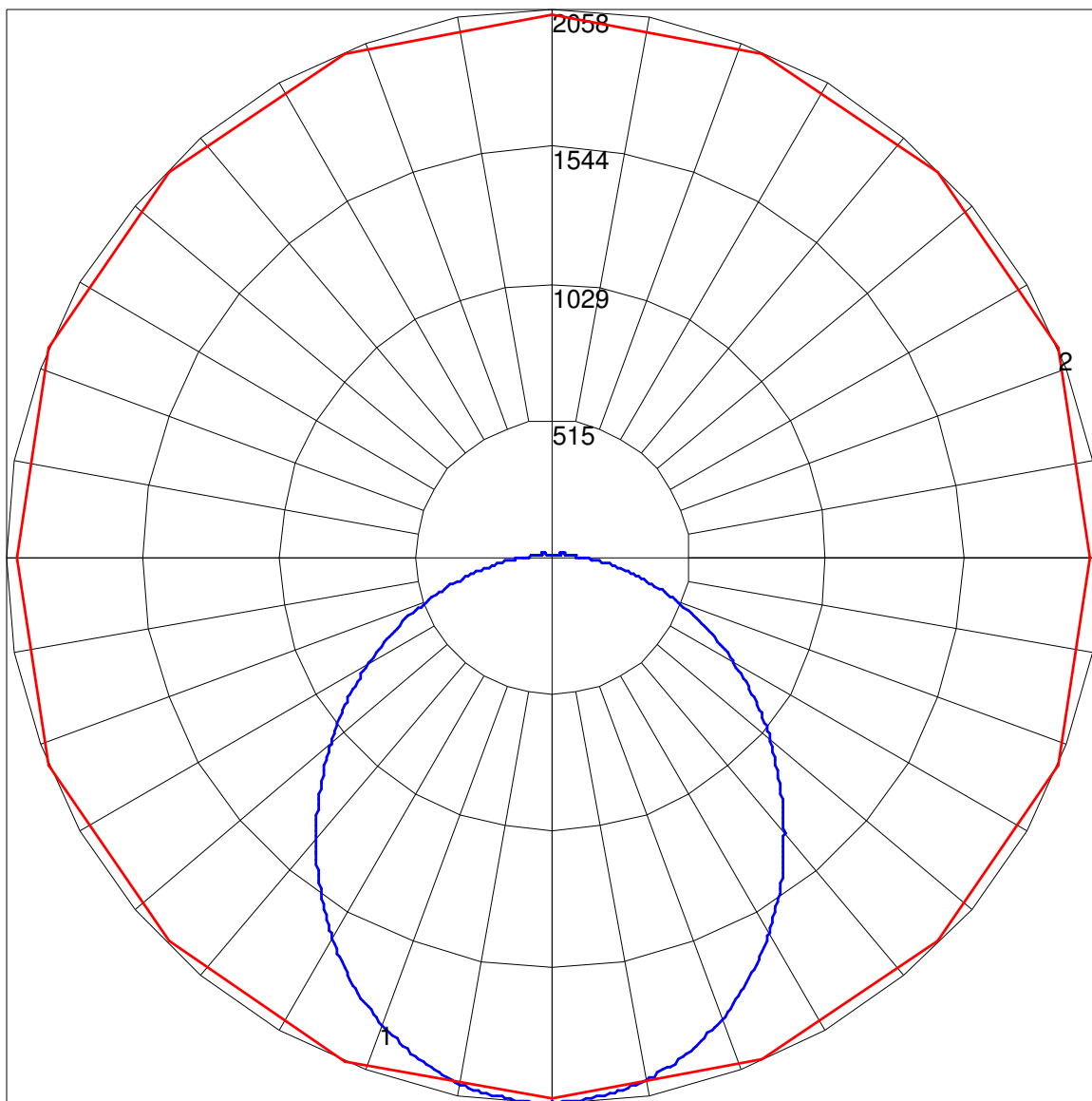
4H	2H	17.4	18.7	17.9	19.2	19.7	20.3	21.6	20.8	22.1	22.7
	3H	18.8	20.0	19.4	20.5	21.0	22.9	24.0	23.4	24.6	25.1
	4H	19.3	20.3	19.8	20.9	21.5	24.1	25.2	24.7	25.7	26.3
	6H	19.6	20.5	20.2	21.1	21.7	25.4	26.3	26.0	26.9	27.5
	8H	19.7	20.5	20.2	21.1	21.7	26.0	26.9	26.6	27.5	28.1
	12H	19.7	20.5	20.3	21.1	21.7	26.7	27.5	27.3	28.1	28.7

8H	4H	20.0	20.8	20.5	21.4	22.0	24.2	25.1	24.8	25.7	26.3
	6H	20.4	21.1	21.0	21.7	22.4	25.6	26.3	26.2	26.9	27.6
	8H	20.6	21.2	21.2	21.8	22.4	26.4	27.0	27.0	27.6	28.2
	12H	20.6	21.2	21.2	21.8	22.5	27.2	27.7	27.8	28.3	29.0

12H	4H	20.1	20.9	20.7	21.5	22.1	24.2	25.0	24.8	25.6	26.2
	6H	20.7	21.3	21.3	21.9	22.6	25.6	26.3	26.2	26.9	27.5
	8H	20.9	21.4	21.5	22.0	22.7	26.4	27.0	27.0	27.6	28.3

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 2058.278 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.)