

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_3500K_.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_3500K_

[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	6287
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	46.6
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	13302	8070	7486
55	12029	6642	6264
65	10484	5235	5091
75	8439	3831	3883
85	5311	2521	2746

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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	1978.591	1978.591	1978.591	1978.591	1978.591	1978.591	1978.591	1978.591	1978.591
0.5	1952.557	1986.248	1981.654	1981.654	1972.465	1983.185	1981.654	1989.311	1954.088
1.0	1951.025	1984.716	1978.591	1983.185	1970.934	1983.185	1978.591	1987.779	1954.088
1.5	1954.088	1984.716	1975.528	1981.654	1972.465	1983.185	1978.591	1986.248	1954.088
2.0	1954.088	1983.185	1978.591	1983.185	1970.934	1986.248	1978.591	1987.779	1952.557
2.5	1952.557	1981.654	1975.528	1981.654	1970.934	1980.122	1978.591	1984.716	1949.494
3.0	1947.962	1981.654	1973.997	1981.654	1970.934	1981.654	1977.059	1986.248	1949.494
3.5	1949.494	1978.591	1972.465	1977.059	1967.871	1978.591	1975.528	1981.654	1951.025
4.0	1944.900	1975.528	1969.402	1978.591	1969.402	1977.059	1973.997	1983.185	1946.431
4.5	1946.431	1970.934	1969.402	1975.528	1966.339	1977.059	1970.934	1980.122	1943.368
5.0	1938.774	1969.402	1964.808	1973.997	1966.339	1975.528	1969.402	1977.059	1943.368
5.5	1937.243	1969.402	1963.277	1972.465	1966.339	1973.997	1969.402	1973.997	1938.774
6.0	1934.180	1964.808	1960.214	1970.934	1961.745	1970.934	1964.808	1973.997	1937.243
6.5	1931.117	1961.745	1958.682	1966.339	1958.682	1969.402	1963.277	1970.934	1934.180
7.0	1926.523	1957.151	1955.620	1961.745	1955.620	1966.339	1961.745	1969.402	1935.711
7.5	1924.991	1955.620	1951.025	1961.745	1952.557	1963.277	1957.151	1966.339	1929.585
8.0	1921.928	1951.025	1947.962	1957.151	1952.557	1961.745	1955.620	1963.277	1926.523
8.5	1917.334	1946.431	1943.368	1952.557	1946.431	1957.151	1952.557	1958.682	1920.397
9.0	1914.271	1941.837	1937.243	1951.025	1943.368	1952.557	1947.962	1957.151	1917.334
9.5	1905.083	1937.243	1937.243	1947.962	1940.305	1951.025	1944.900	1951.025	1912.740
10.0	1903.551	1935.711	1929.585	1938.774	1938.774	1946.431	1941.837	1947.962	1911.208
10.5	1892.831	1926.523	1926.523	1938.774	1931.117	1943.368	1937.243	1941.837	1903.551
11.0	1891.300	1924.991	1921.928	1932.648	1928.054	1938.774	1929.585	1934.180	1903.551
11.5	1885.174	1917.334	1915.803	1928.054	1924.991	1932.648	1926.523	1932.648	1895.894
12.0	1879.049	1911.208	1912.740	1923.460	1918.866	1929.585	1920.397	1926.523	1888.237
12.5	1871.392	1905.083	1906.614	1920.397	1918.866	1921.928	1915.803	1918.866	1885.174
13.0	1868.329	1902.020	1898.957	1914.271	1912.740	1918.866	1911.208	1915.803	1875.986
13.5	1863.735	1894.363	1895.894	1906.614	1906.614	1912.740	1906.614	1911.208	1869.860
14.0	1854.546	1886.706	1888.237	1902.020	1900.489	1908.146	1898.957	1905.083	1863.735
14.5	1843.826	1879.049	1880.580	1895.894	1894.363	1900.489	1894.363	1898.957	1859.140
15.0	1839.232	1874.454	1877.517	1892.831	1888.237	1895.894	1886.706	1891.300	1851.483
15.5	1833.106	1869.860	1868.329	1885.174	1882.112	1888.237	1882.112	1883.643	1845.357
16.0	1828.512	1859.140	1862.203	1880.580	1874.454	1882.112	1872.923	1877.517	1834.638
16.5	1814.729	1853.015	1853.015	1874.454	1868.329	1875.986	1865.266	1869.860	1833.106
17.0	1807.072	1845.357	1848.420	1866.797	1862.203	1866.797	1859.140	1863.735	1822.386
17.5	1799.415	1836.169	1839.232	1857.609	1854.546	1859.140	1849.952	1857.609	1817.792
18.0	1794.821	1825.449	1830.043	1848.420	1848.420	1849.952	1843.826	1845.357	1808.603
18.5	1785.632	1819.323	1822.386	1843.826	1840.763	1843.826	1834.638	1839.232	1800.946
19.0	1773.381	1810.135	1813.198	1834.638	1831.575	1836.169	1828.512	1830.043	1791.758
19.5	1767.255	1802.478	1805.541	1826.980	1822.386	1826.980	1820.855	1822.386	1781.038
20.0	1758.067	1791.758	1796.352	1817.792	1814.729	1820.855	1811.666	1813.198	1773.381
20.5	1747.347	1782.569	1788.695	1810.135	1807.072	1810.135	1804.009	1804.009	1765.724
21.0	1739.690	1773.381	1777.975	1799.415	1797.884	1804.009	1791.758	1797.884	1753.472
21.5	1727.438	1764.192	1768.787	1790.226	1791.758	1796.352	1785.632	1787.164	1745.815
22.0	1719.781	1756.535	1761.130	1781.038	1782.569	1785.632	1776.444	1777.975	1736.627
22.5	1705.999	1742.753	1750.410	1773.381	1776.444	1781.038	1767.255	1767.255	1724.376
23.0	1696.810	1733.564	1741.221	1762.661	1767.255	1770.318	1759.598	1758.067	1718.250
23.5	1689.153	1722.844	1733.564	1755.004	1761.130	1765.724	1750.410	1748.878	1707.530
24.0	1673.839	1713.656	1722.844	1745.815	1751.941	1756.535	1741.221	1735.095	1692.216
24.5	1667.713	1704.467	1712.124	1738.158	1744.284	1748.878	1730.501	1725.907	1683.027
25.0	1655.462	1689.153	1702.936	1730.501	1739.690	1741.221	1721.313	1716.718	1673.839
25.5	1641.679	1679.964	1689.153	1722.844	1732.033	1732.033	1713.656	1707.530	1664.650
26.0	1629.428	1670.776	1679.964	1710.593	1722.844	1722.844	1702.936	1696.810	1650.868
26.5	1618.708	1656.993	1670.776	1704.467	1715.187	1713.656	1692.216	1684.559	1641.679

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27.0	1609.519	1646.273	1661.587	1693.747	1702.936	1704.467	1681.496	1673.839	1629.428
27.5	1595.737	1637.085	1650.868	1686.090	1695.279	1693.747	1672.307	1663.119	1617.176
28.0	1585.017	1621.771	1637.085	1676.902	1687.622	1684.559	1660.056	1650.868	1606.456
28.5	1574.297	1611.051	1627.896	1666.182	1678.433	1675.370	1650.868	1640.148	1595.737
29.0	1562.045	1598.799	1617.176	1656.993	1669.245	1664.650	1640.148	1629.428	1581.954
29.5	1549.794	1588.079	1606.456	1646.273	1658.525	1655.462	1630.959	1615.645	1569.702
30.0	1534.480	1575.828	1595.737	1635.553	1649.336	1646.273	1618.708	1604.925	1555.920
30.5	1522.382	1563.577	1583.485	1626.365	1640.148	1635.553	1607.988	1592.674	1543.668
31.0	1509.518	1549.794	1572.765	1615.645	1630.959	1626.365	1595.737	1580.422	1534.480
31.5	1499.870	1536.011	1562.045	1604.925	1620.239	1617.176	1586.548	1568.171	1517.941
32.0	1483.790	1526.516	1549.794	1595.737	1611.051	1607.988	1575.828	1555.920	1506.608
32.5	1473.376	1512.734	1537.543	1585.017	1601.862	1597.268	1562.045	1542.137	1496.041
33.0	1458.368	1500.482	1524.066	1575.828	1594.205	1588.079	1549.794	1528.660	1478.889
33.5	1444.892	1487.465	1512.581	1566.640	1583.485	1575.828	1539.074	1516.869	1468.016
34.0	1432.641	1474.601	1503.698	1554.388	1574.297	1566.640	1529.273	1505.383	1456.837
34.5	1418.398	1460.206	1490.681	1543.668	1565.108	1555.920	1517.175	1489.916	1441.217
35.0	1407.219	1447.802	1479.808	1534.480	1554.388	1545.200	1505.689	1477.971	1430.956
35.5	1393.283	1433.559	1468.935	1524.526	1546.731	1534.480	1492.672	1463.575	1414.417
36.0	1376.897	1418.858	1455.765	1513.653	1536.011	1526.210	1480.421	1450.864	1403.391
36.5	1362.655	1406.147	1445.658	1502.320	1526.976	1515.031	1469.088	1437.541	1390.680
37.0	1351.629	1391.599	1431.875	1493.744	1517.634	1504.923	1456.378	1424.218	1380.113
37.5	1336.927	1379.654	1420.696	1482.565	1507.680	1492.825	1446.117	1411.966	1366.790
38.0	1321.153	1365.718	1407.985	1472.611	1497.879	1482.105	1433.866	1399.409	1351.016
38.5	1308.443	1351.782	1397.724	1461.431	1486.853	1471.539	1420.389	1387.004	1336.008
39.0	1293.129	1336.927	1384.860	1450.558	1476.439	1460.512	1409.669	1375.059	1321.460
39.5	1278.580	1321.919	1373.222	1439.226	1466.944	1449.792	1396.652	1361.583	1304.461
40.0	1262.960	1309.821	1361.123	1428.812	1458.062	1440.145	1384.554	1349.178	1288.534
40.5	1249.789	1296.038	1349.178	1417.786	1446.270	1429.118	1372.609	1333.405	1273.526
41.0	1233.097	1280.571	1336.468	1407.679	1434.478	1418.398	1360.358	1319.469	1258.519
41.5	1219.314	1265.410	1326.054	1397.265	1426.515	1406.300	1347.188	1302.776	1243.357
42.0	1203.387	1251.933	1312.731	1385.779	1415.948	1397.724	1335.089	1287.003	1229.728
42.5	1189.145	1237.538	1300.020	1375.672	1405.841	1385.473	1321.460	1272.914	1214.720
43.0	1173.831	1224.827	1287.769	1364.186	1395.427	1373.681	1309.974	1256.068	1199.712
43.5	1160.508	1211.657	1274.905	1352.701	1386.086	1362.349	1298.642	1241.213	1186.542
44.0	1147.491	1196.037	1262.960	1342.593	1375.519	1352.548	1284.706	1225.287	1170.768
44.5	1129.267	1181.335	1248.258	1330.801	1364.952	1342.134	1274.292	1211.198	1156.832
45.0	1115.944	1166.787	1238.151	1320.081	1354.538	1328.964	1262.194	1195.271	1142.437
45.5	1102.161	1152.544	1223.908	1308.749	1341.981	1319.163	1249.483	1182.407	1128.042
46.0	1087.000	1140.446	1212.117	1296.345	1331.567	1308.596	1237.538	1167.246	1111.809
46.5	1073.676	1126.051	1198.946	1283.634	1321.613	1295.732	1225.287	1153.616	1098.485
47.0	1058.056	1110.584	1186.542	1274.598	1310.587	1286.850	1213.954	1139.527	1084.703
47.5	1042.742	1096.801	1173.831	1261.888	1300.786	1275.977	1201.550	1124.979	1067.091
48.0	1030.797	1082.559	1162.192	1252.852	1288.228	1262.041	1189.452	1110.277	1055.146
48.5	1014.104	1068.317	1149.635	1238.916	1278.274	1251.780	1176.894	1096.188	1037.535
49.0	1004.303	1056.371	1137.996	1228.350	1267.248	1240.601	1163.877	1082.559	1023.752
49.5	991.133	1040.445	1125.592	1217.170	1255.303	1229.881	1147.950	1067.398	1010.123
50.0	975.666	1028.193	1113.187	1205.685	1245.501	1218.395	1136.465	1052.849	998.331
50.5	960.352	1017.320	1098.026	1194.046	1234.475	1206.450	1123.294	1039.220	985.314
51.0	945.956	1003.997	1087.612	1182.254	1224.215	1194.965	1108.746	1024.212	968.468
51.5	931.714	990.674	1073.983	1172.147	1214.720	1183.632	1096.035	1015.483	953.920
52.0	916.706	975.819	1062.650	1160.967	1202.775	1172.453	1082.252	1001.547	938.452
52.5	902.923	962.342	1049.940	1149.175	1191.596	1160.661	1070.154	989.142	924.363
53.0	887.456	947.488	1036.616	1137.996	1180.110	1150.707	1057.750	974.134	910.581
53.5	873.520	933.705	1024.212	1126.051	1168.624	1138.455	1043.967	959.739	894.501
54.0	858.359	920.841	1013.032	1114.412	1156.373	1126.970	1032.788	945.650	878.880
54.5	843.658	905.833	1003.997	1101.548	1146.878	1116.097	1019.311	930.948	864.944

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55.0	827.884	891.744	992.205	1090.522	1135.393	1103.692	1011.654	917.625	849.477
55.5	813.489	879.187	979.188	1077.964	1122.988	1091.900	999.709	903.536	834.163
56.0	799.093	863.872	966.324	1065.713	1112.574	1080.874	986.539	888.988	820.533
56.5	785.311	849.630	953.460	1054.687	1099.711	1066.785	972.756	873.367	804.913
57.0	770.303	835.235	941.056	1042.129	1088.684	1055.146	959.892	859.738	788.527
57.5	756.214	822.218	929.417	1030.491	1075.514	1042.436	946.722	844.423	774.131
58.0	742.431	807.822	915.481	1018.545	1062.957	1030.184	933.246	830.794	759.583
58.5	727.576	793.580	902.617	1010.276	1051.318	1020.077	920.535	816.552	744.116
59.0	713.947	779.798	891.132	1001.394	1039.985	1010.276	906.599	801.391	730.486
59.5	699.245	766.321	877.655	986.998	1027.121	998.790	894.194	788.067	714.865
60.0	685.156	752.691	863.719	975.053	1019.617	986.079	880.871	774.131	701.695
60.5	670.914	738.756	850.702	964.180	1008.591	973.828	869.079	759.123	685.462
61.0	655.446	724.973	838.604	950.397	997.259	960.658	855.450	746.260	671.067
61.5	641.511	711.037	826.353	937.687	985.314	948.100	843.045	730.945	656.518
62.0	627.268	697.407	813.795	925.742	971.990	936.768	828.803	717.469	641.664
62.5	613.179	684.084	801.237	913.337	958.973	922.985	816.858	703.074	627.268
63.0	599.550	670.148	788.527	900.933	946.722	910.887	803.688	689.597	613.179
63.5	585.154	657.131	775.663	887.609	934.624	898.176	790.211	675.508	599.090
64.0	570.300	643.501	763.411	875.205	922.066	885.925	777.807	661.572	583.776
64.5	554.986	629.872	749.782	862.188	908.590	874.133	764.330	648.096	569.534
65.0	541.662	617.314	737.071	849.783	896.185	860.656	752.079	634.313	555.139
65.5	528.339	603.685	724.513	838.298	884.700	848.252	739.828	620.530	541.203
66.0	513.790	590.208	712.568	823.902	871.836	835.082	726.045	606.594	526.807
66.5	501.080	577.191	699.398	812.110	858.359	822.218	713.947	592.965	512.718
67.0	487.144	564.480	686.687	799.247	845.955	808.588	700.164	579.794	499.395
67.5	473.974	551.310	674.589	785.770	832.478	796.490	688.525	566.777	485.765
68.0	460.344	538.599	660.960	774.591	820.227	783.932	675.202	553.301	472.595
68.5	447.021	526.042	649.321	760.655	807.516	770.303	662.185	540.131	457.894
69.0	433.697	512.412	636.763	749.322	794.652	758.358	649.627	527.726	444.877
69.5	419.608	499.701	624.359	735.846	781.635	745.800	637.529	514.403	430.328
70.0	406.898	487.144	611.342	723.441	768.618	732.170	624.359	500.773	417.311
70.5	394.187	473.667	599.243	710.271	756.061	720.225	611.801	487.603	404.141
71.0	380.251	461.722	586.992	698.632	743.350	707.362	599.550	474.586	390.511
71.5	367.693	448.858	575.507	686.075	730.639	695.570	586.533	461.722	377.035
72.0	354.676	437.220	562.336	672.751	717.775	682.399	574.894	449.471	362.946
72.5	341.812	424.662	550.544	660.653	705.830	670.454	562.183	436.301	349.776
73.0	328.795	412.870	537.987	647.483	692.660	656.978	550.085	423.590	337.831
73.5	316.544	400.925	526.195	634.466	679.490	644.573	537.987	411.185	324.507
74.0	303.986	388.520	514.403	623.440	667.392	632.016	525.429	398.781	311.950
74.5	290.663	375.963	501.539	610.423	654.221	619.918	514.097	385.917	298.626
75.0	277.952	364.477	490.053	598.784	642.583	607.054	502.305	374.125	286.528
75.5	266.467	352.838	478.874	585.920	629.872	594.802	489.900	361.568	273.971
76.0	253.756	341.200	467.082	574.435	617.467	583.010	478.721	350.082	261.566
76.5	242.270	329.867	455.597	562.183	604.910	570.300	466.623	337.677	250.234
77.0	230.938	318.535	444.111	549.779	592.352	558.508	454.525	326.192	238.135
77.5	219.299	307.355	432.932	538.293	580.866	546.103	443.039	314.094	226.497
78.0	207.354	296.176	421.905	526.348	568.003	534.465	432.013	303.221	214.858
78.5	196.021	285.609	410.573	514.709	556.364	522.826	420.833	292.041	203.372
79.0	184.842	274.736	400.006	502.917	544.112	510.881	409.348	281.321	192.499
79.5	174.582	264.016	389.592	491.738	532.933	500.467	398.781	270.295	180.860
80.0	164.168	253.296	378.873	479.946	521.754	488.369	387.755	259.575	170.447
80.5	153.448	243.036	368.306	469.226	509.502	477.496	377.494	249.927	159.727
81.0	143.034	233.235	358.045	457.894	498.476	465.857	367.081	239.360	149.773
81.5	133.080	223.281	347.632	447.174	487.144	454.984	356.820	229.713	139.665
82.0	123.279	213.786	337.677	436.454	475.046	444.264	346.560	220.218	129.864
82.5	114.244	203.985	327.723	426.653	464.019	432.932	336.146	210.876	120.523

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CANDELA TABULATION - (Cont.)

83.0	104.596	194.796	317.922	415.933	453.606	422.212	326.804	201.534	111.181
83.5	95.560	185.914	308.274	405.519	442.580	412.257	316.697	192.499	102.146
84.0	86.678	177.185	298.933	395.259	432.166	402.150	307.662	183.617	93.263
84.5	78.102	168.609	289.591	385.611	421.752	391.890	298.167	175.041	84.994
85.0	70.139	160.646	280.249	375.503	411.645	381.629	288.825	166.771	76.418
85.5	62.176	152.223	271.673	365.549	401.384	372.134	279.943	157.889	68.454
86.0	54.212	144.413	263.097	356.514	391.430	362.640	270.755	149.926	60.338
86.5	46.708	136.756	254.828	347.172	381.935	352.838	262.332	141.809	52.528
87.0	39.204	129.252	246.252	338.137	372.287	343.956	254.062	134.152	44.717
87.5	32.313	122.207	238.288	329.867	363.099	335.227	245.486	126.648	37.213
88.0	25.575	114.550	230.785	321.444	354.676	326.651	237.676	118.991	29.709
88.5	18.836	107.965	223.893	313.787	346.100	318.841	230.325	111.487	22.052
89.0	12.098	101.686	217.461	306.283	338.596	310.878	223.127	104.902	14.855
89.5	5.973	96.479	211.336	299.392	331.092	303.986	217.002	99.083	7.810
90.0	2.144	91.732	205.976	292.654	323.895	296.942	211.336	94.029	2.450
90.5	1.378	87.750	200.769	286.222	316.697	290.050	205.669	89.741	1.378
91.0	1.378	84.381	195.562	279.943	309.959	283.925	199.850	86.372	1.225
91.5	1.378	81.931	191.121	273.817	303.527	277.952	195.409	83.769	1.225
92.0	1.378	79.787	186.527	268.457	297.707	272.592	191.121	81.625	1.225
92.5	1.378	77.796	183.311	263.557	292.041	267.385	187.445	79.634	1.225
93.0	1.378	75.958	179.941	258.809	286.681	262.638	184.076	77.643	1.225
93.5	1.378	74.121	176.879	254.675	282.087	258.197	180.860	75.805	1.225
94.0	1.378	72.436	173.969	250.387	277.493	254.062	178.104	73.967	1.225
94.5	1.378	70.751	171.366	246.711	273.358	250.234	175.194	72.130	1.225
95.0	1.378	69.067	168.762	243.036	269.376	246.099	172.284	70.445	1.225
95.5	1.378	67.535	165.852	239.360	264.935	242.576	169.528	68.914	1.225
96.0	1.378	66.004	163.402	235.685	261.107	238.748	166.771	67.382	1.225
96.5	1.378	64.473	160.646	232.316	257.278	235.379	163.862	65.698	1.225
97.0	1.378	62.941	158.195	228.487	253.296	231.397	161.411	64.166	1.225
97.5	1.378	61.410	155.439	225.425	249.468	228.181	158.808	62.788	1.225
98.0	1.378	60.032	152.989	221.749	245.946	224.659	156.051	61.257	1.225
98.5	1.378	58.806	150.691	218.533	242.423	221.137	153.601	59.725	1.225
99.0	1.378	57.275	147.935	215.470	238.901	217.767	150.998	58.347	1.225
99.5	1.378	55.897	145.638	212.254	235.226	214.552	148.547	56.969	1.225
100.0	1.378	54.672	143.034	209.038	231.703	211.336	145.944	55.590	1.225
100.5	1.378	53.293	140.737	205.822	228.028	208.273	143.647	54.365	1.378
101.0	1.378	52.221	138.440	202.606	224.812	205.210	141.350	52.987	1.378
101.5	1.378	50.843	135.990	199.544	221.596	201.841	138.746	51.762	1.378
102.0	1.531	49.771	133.846	196.481	217.921	199.084	136.602	50.537	1.378
102.5	1.531	48.546	131.549	193.571	214.398	196.175	134.152	49.312	1.378
103.0	1.531	47.474	129.252	190.508	211.182	193.112	131.855	48.086	1.378
103.5	1.531	46.249	126.954	187.905	208.120	190.049	129.711	46.861	1.378
104.0	1.531	45.177	124.964	185.148	205.057	187.139	127.261	45.636	1.378
104.5	1.531	44.105	122.667	181.932	202.147	184.229	125.117	44.564	1.531
105.0	1.531	43.033	120.676	179.329	198.778	181.473	122.973	43.492	1.531
105.5	1.531	41.961	118.685	176.572	195.868	178.410	120.829	42.420	1.531
106.0	1.531	40.889	116.541	173.663	192.959	175.654	118.532	41.348	1.531
106.5	1.531	39.970	114.550	171.212	189.589	172.897	116.541	40.429	1.531
107.0	1.685	38.898	112.559	168.456	186.986	169.987	114.397	39.357	1.531
107.5	1.685	37.979	110.415	165.546	184.229	167.384	112.559	38.439	1.531
108.0	1.685	37.060	108.424	163.249	181.320	164.780	110.568	37.520	1.531
108.5	1.685	35.988	106.740	160.493	178.563	162.330	108.424	36.448	1.685
109.0	1.685	35.069	104.749	157.889	175.807	159.727	106.433	35.529	1.685
109.5	1.685	34.151	102.758	155.286	173.203	157.123	104.596	34.610	1.685
110.0	1.685	33.385	101.074	152.835	170.447	154.520	102.758	33.691	1.685
110.5	1.685	32.466	99.236	150.538	167.690	151.917	100.767	32.772	1.685

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111.0	1.685	31.547	97.398	148.088	165.240	149.773	98.930	32.007	1.685
111.5	1.838	30.781	95.714	145.791	162.636	147.169	96.939	31.088	1.685
112.0	1.838	29.863	93.876	143.187	160.186	144.719	95.254	30.169	1.685
112.5	1.838	29.097	92.038	141.197	157.583	142.422	93.416	29.403	1.838
113.0	1.838	28.331	90.507	138.593	154.979	140.125	91.579	28.484	1.838
113.5	1.838	27.566	88.516	136.296	152.376	137.521	89.894	27.719	1.838
114.0	1.838	26.647	86.984	134.152	150.232	135.224	88.210	26.953	1.838
114.5	1.838	25.881	85.300	131.855	147.629	133.080	86.372	26.034	1.838
115.0	1.838	25.268	83.615	129.711	145.331	130.783	84.534	25.268	1.838
115.5	1.838	24.350	81.931	127.567	142.881	128.486	82.850	24.503	1.838
116.0	1.838	23.737	80.399	125.117	140.584	126.342	81.165	23.737	1.991
116.5	1.838	22.971	78.715	123.126	138.287	124.198	79.634	23.124	1.991
117.0	1.838	22.206	77.030	120.829	135.837	121.901	77.949	22.359	1.991
117.5	1.838	21.440	75.499	118.838	133.693	119.757	76.265	21.593	1.991
118.0	1.838	20.827	74.121	116.541	131.396	117.613	74.733	20.827	1.991
118.5	1.838	20.062	72.589	114.550	129.252	115.469	73.202	20.215	1.991
119.0	1.838	19.449	71.058	112.559	126.954	113.478	71.670	19.449	1.991
119.5	1.838	18.683	69.526	110.568	124.657	111.487	70.139	18.836	1.991
120.0	1.838	18.071	67.995	108.271	122.513	109.190	68.454	18.071	1.991
120.5	1.838	17.458	66.463	106.587	120.216	107.199	67.076	17.458	2.144
121.0	1.838	16.692	65.085	104.443	117.919	105.208	65.545	16.846	2.144
121.5	1.838	15.927	63.707	102.452	116.081	103.218	64.166	16.080	2.144
122.0	1.838	15.314	62.329	100.461	113.631	101.227	62.788	15.467	2.144
122.5	1.838	14.702	60.797	98.470	111.640	99.083	61.410	14.855	2.144
123.0	1.838	14.089	59.419	96.632	109.496	97.245	59.878	14.242	2.144
123.5	1.838	13.476	58.041	94.642	107.352	95.407	58.500	13.630	2.144
124.0	1.838	12.864	56.816	92.651	105.361	93.416	57.122	13.017	2.144
124.5	1.838	12.251	55.437	90.813	103.371	91.272	55.744	12.404	2.297
125.0	1.838	11.639	54.059	88.975	101.380	89.435	54.365	11.792	2.297
125.5	1.838	11.026	52.681	87.138	99.236	87.597	52.987	11.179	2.297
126.0	1.838	10.567	51.302	85.453	97.245	85.759	51.609	10.567	2.297
126.5	1.838	9.954	50.077	83.615	95.254	83.922	50.384	9.954	2.297
127.0	1.838	9.342	48.852	81.778	93.110	82.084	49.158	9.495	2.297
127.5	1.838	8.882	47.627	80.093	91.272	80.246	47.780	8.882	2.297
128.0	1.838	8.270	46.249	78.255	89.435	78.715	46.555	8.423	2.450
128.5	1.838	7.810	44.871	76.571	87.597	77.030	45.330	7.963	2.450
129.0	1.838	7.351	43.645	74.733	85.606	75.193	44.105	7.504	2.450
129.5	1.838	7.045	42.573	73.049	83.769	73.508	42.880	7.198	2.450
130.0	1.991	6.585	41.501	71.364	81.931	71.823	41.808	6.738	2.450
130.5	1.991	6.279	40.123	69.833	80.093	70.292	40.583	6.432	2.603
131.0	1.991	5.973	39.051	68.301	78.255	68.454	39.357	6.126	2.603
131.5	1.991	5.666	37.979	66.617	76.418	66.923	38.285	5.819	2.603
132.0	1.991	5.360	36.754	65.085	74.580	65.238	37.060	5.513	2.603
132.5	1.991	5.054	35.682	63.401	72.895	63.707	35.988	5.207	2.603
133.0	1.991	4.901	34.610	61.716	71.211	62.022	34.916	5.054	2.757
133.5	1.991	4.747	33.385	60.185	69.373	60.491	33.691	4.901	2.757
134.0	1.991	4.594	32.160	58.653	67.842	58.806	32.619	4.747	2.757
134.5	1.991	4.441	30.935	57.122	66.004	57.275	31.547	4.594	2.757
135.0	1.991	4.288	29.709	55.590	64.320	55.744	30.475	4.441	2.757
135.5	1.991	4.135	28.637	53.906	62.635	54.212	29.403	4.288	2.757
136.0	1.991	3.982	27.412	52.374	60.950	52.681	28.331	4.135	2.757
136.5	1.991	3.982	26.340	50.996	59.266	51.149	27.412	4.135	2.910
137.0	1.991	3.829	25.115	49.618	57.581	49.618	26.340	3.982	2.910
137.5	1.991	3.829	24.043	48.086	56.050	48.240	25.268	3.982	2.910
138.0	1.991	3.675	22.971	46.555	54.518	46.708	24.350	3.829	2.910
138.5	1.991	3.675	22.052	45.177	52.987	45.330	23.431	3.829	2.910

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CANDELA TABULATION - (Cont.)

139.0	2.144	3.675	20.980	43.799	51.456	43.799	22.512	3.675	3.063
139.5	2.144	3.522	19.908	42.420	49.924	42.573	21.593	3.675	3.063
140.0	2.144	3.522	18.990	41.042	48.393	41.042	20.521	3.675	3.063
140.5	2.144	3.522	18.071	39.511	46.861	39.664	19.602	3.522	3.063
141.0	2.144	3.369	17.305	38.285	45.330	38.285	18.683	3.522	3.063
141.5	2.144	3.369	16.386	36.907	43.799	37.060	17.764	3.522	3.216
142.0	2.144	3.369	15.620	35.682	42.420	35.682	16.846	3.522	3.216
142.5	2.144	3.216	14.855	34.304	40.889	34.304	15.927	3.369	3.216
143.0	2.144	3.216	14.089	33.079	39.511	32.925	15.161	3.369	3.216
143.5	2.297	3.216	13.323	31.700	38.132	31.700	14.242	3.369	3.216
144.0	2.297	3.216	12.558	30.475	36.601	30.475	13.476	3.216	3.216
144.5	2.297	3.216	11.792	29.250	35.223	29.097	12.558	3.216	3.369
145.0	2.297	3.063	11.179	27.872	33.844	27.872	11.792	3.216	3.369
145.5	2.297	3.063	10.414	26.647	32.466	26.647	11.026	3.216	3.369
146.0	2.297	3.063	9.801	25.575	31.088	25.422	10.260	3.216	3.369
146.5	2.297	3.063	9.189	24.350	29.709	24.196	9.648	3.216	3.369
147.0	2.297	3.063	8.576	23.124	28.484	22.971	9.035	3.063	3.369
147.5	2.297	3.063	7.963	21.899	27.106	21.899	8.423	3.063	3.522
148.0	2.450	3.063	7.504	20.674	25.881	20.674	7.963	3.063	3.522
148.5	2.450	3.063	7.045	19.449	24.503	19.602	7.504	3.063	3.522
149.0	2.450	3.063	6.738	18.071	23.278	18.377	7.045	3.063	3.522
149.5	2.450	3.063	6.279	16.999	22.052	17.305	6.738	3.063	3.522
150.0	2.450	3.063	5.973	15.774	20.827	16.233	6.432	3.216	3.522
150.5	2.450	3.063	5.819	14.702	19.602	15.161	6.126	3.063	3.675
151.0	2.450	3.063	5.513	13.630	18.377	14.089	5.819	3.063	3.675
151.5	2.603	3.063	5.360	12.711	17.305	13.170	5.666	3.216	3.675
152.0	2.603	3.216	5.207	11.639	16.080	12.098	5.360	3.216	3.675
152.5	2.603	3.216	5.054	10.873	15.008	11.179	5.207	3.216	3.675
153.0	2.603	3.216	4.901	10.107	13.783	10.260	5.054	3.216	3.675
153.5	2.603	3.216	4.747	9.342	12.711	9.495	4.901	3.216	3.675
154.0	2.603	3.216	4.594	8.576	11.639	8.882	4.747	3.216	3.829
154.5	2.757	3.216	4.441	7.963	10.720	8.117	4.594	3.216	3.829
155.0	2.757	3.216	4.288	7.351	9.801	7.504	4.441	3.216	3.829
155.5	2.757	3.369	4.288	6.891	9.035	7.045	4.441	3.216	3.829
156.0	2.757	3.369	4.135	6.432	8.270	6.585	4.288	3.369	3.829
156.5	2.910	3.369	4.135	5.973	7.657	6.126	4.135	3.369	3.829
157.0	2.910	3.369	3.982	5.666	7.045	5.819	4.135	3.369	3.829
157.5	2.910	3.369	3.982	5.513	6.432	5.513	3.982	3.369	3.829
158.0	2.910	3.369	3.829	5.207	6.126	5.207	3.982	3.369	3.982
158.5	2.910	3.522	3.829	5.054	5.666	5.054	3.829	3.369	3.982
159.0	3.063	3.522	3.675	4.747	5.360	4.747	3.829	3.522	3.982
159.5	3.063	3.522	3.675	4.594	5.054	4.594	3.675	3.522	3.982
160.0	3.063	3.522	3.675	4.441	4.901	4.441	3.675	3.522	3.982
160.5	3.063	3.522	3.522	4.288	4.594	4.288	3.675	3.522	3.982
161.0	3.063	3.522	3.522	4.135	4.441	4.135	3.522	3.522	3.982
161.5	3.216	3.522	3.522	4.135	4.288	4.135	3.522	3.522	3.982
162.0	3.216	3.675	3.522	3.982	4.135	3.982	3.522	3.522	3.982
162.5	3.216	3.675	3.522	3.829	3.982	3.829	3.522	3.675	3.982
163.0	3.216	3.675	3.522	3.675	3.829	3.829	3.522	3.675	4.135
163.5	3.216	3.675	3.522	3.675	3.675	3.675	3.522	3.675	4.135
164.0	3.369	3.675	3.522	3.522	3.675	3.522	3.522	3.675	4.135
164.5	3.369	3.675	3.522	3.522	3.522	3.522	3.522	3.675	4.135
165.0	3.369	3.829	3.522	3.522	3.522	3.522	3.522	3.675	4.135
165.5	3.369	3.829	3.522	3.522	3.369	3.522	3.522	3.829	4.135
166.0	3.522	3.829	3.675	3.522	3.369	3.369	3.675	3.829	4.135
166.5	3.522	3.829	3.675	3.522	3.369	3.369	3.675	3.829	4.135

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CANDELA TABULATION - (Cont.)

167.0	3.522	3.829	3.675	3.369	3.216	3.369	3.675	3.829	4.135
167.5	3.522	3.829	3.675	3.369	3.216	3.369	3.675	3.829	4.135
168.0	3.522	3.829	3.675	3.369	3.216	3.369	3.675	3.829	4.135
168.5	3.675	3.982	3.675	3.369	3.216	3.369	3.675	3.829	4.135
169.0	3.675	3.982	3.675	3.522	3.216	3.522	3.675	3.982	4.135
169.5	3.675	3.982	3.675	3.522	3.216	3.522	3.675	3.982	4.135
170.0	3.675	3.982	3.675	3.522	3.216	3.369	3.675	3.982	4.135
170.5	3.675	3.982	3.675	3.522	3.216	3.522	3.675	3.982	4.135
171.0	3.675	3.982	3.829	3.522	3.216	3.522	3.675	3.982	4.135
171.5	3.675	3.982	3.829	3.522	3.216	3.522	3.829	3.982	4.135
172.0	3.675	3.982	3.829	3.522	3.216	3.522	3.829	3.982	4.135
172.5	3.829	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
173.0	3.829	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
173.5	3.829	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
174.0	3.829	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
174.5	3.829	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
175.0	3.829	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
175.5	3.982	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
176.0	3.982	3.982	3.829	3.522	3.369	3.522	3.829	3.982	4.135
176.5	3.982	3.982	3.829	3.675	3.369	3.522	3.829	3.982	4.135
177.0	3.982	4.135	3.829	3.675	3.369	3.522	3.829	4.135	4.135
177.5	3.982	4.135	3.829	3.675	3.369	3.522	3.829	4.135	4.135
178.0	3.982	4.135	3.829	3.675	3.369	3.675	3.829	4.135	4.135
178.5	3.982	4.135	3.829	3.675	3.369	3.675	3.829	4.135	4.135
179.0	4.135	4.135	3.829	3.675	3.369	3.675	3.982	4.135	4.135
179.5	4.135	4.135	3.829	3.675	3.369	3.675	3.829	4.135	4.135
180.0	3.829	3.829	3.829	3.829	3.829	3.829	3.829	3.829	3.829

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_46W_3500K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	716.91	N.A.	11.40
0-30	1505.94	N.A.	24.00
0-40	2441.65	N.A.	38.80
0-60	4298.13	N.A.	68.40
0-80	5539.58	N.A.	88.10
0-90	5834.75	N.A.	92.80
10-90	5647.94	N.A.	89.80
20-40	1724.74	N.A.	27.40
20-50	2689.56	N.A.	42.80
40-70	2586.67	N.A.	41.10
60-80	1241.46	N.A.	19.70
70-80	511.26	N.A.	8.10
80-90	295.17	N.A.	4.70
90-110	289.38	N.A.	4.60
90-120	367.55	N.A.	5.80
90-130	414.36	N.A.	6.60
90-150	448.50	N.A.	7.10
90-180	452.69	N.A.	7.20
110-180	163.31	N.A.	2.60
0-180	6287.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.81
10-20	530.10
20-30	789.03
30-40	935.71
40-50	964.82
50-60	891.66
60-70	730.19
70-80	511.26
80-90	295.17
90-100	170.92
100-110	118.46
110-120	78.17
120-130	46.81
130-140	24.27
140-150	9.87
150-160	2.79
160-170	1.04
170-180	0.36

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_3500K_.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	16.3	17.8	16.8	18.3	18.8	20.0	21.5	20.4	22.0	22.4
	3H	17.6	19.0	18.0	19.4	19.9	22.4	23.8	22.9	24.2	24.8
	4H	17.9	19.3	18.4	19.7	20.3	23.5	24.8	24.0	25.3	25.8
	6H	18.1	19.4	18.7	19.9	20.4	24.6	25.8	25.1	26.3	26.9
	8H	18.2	19.4	18.7	19.9	20.4	25.2	26.3	25.7	26.9	27.4
	12H	18.2	19.3	18.7	19.8	20.4	25.8	26.9	26.3	27.4	28.0

UGR Viewed Endwise

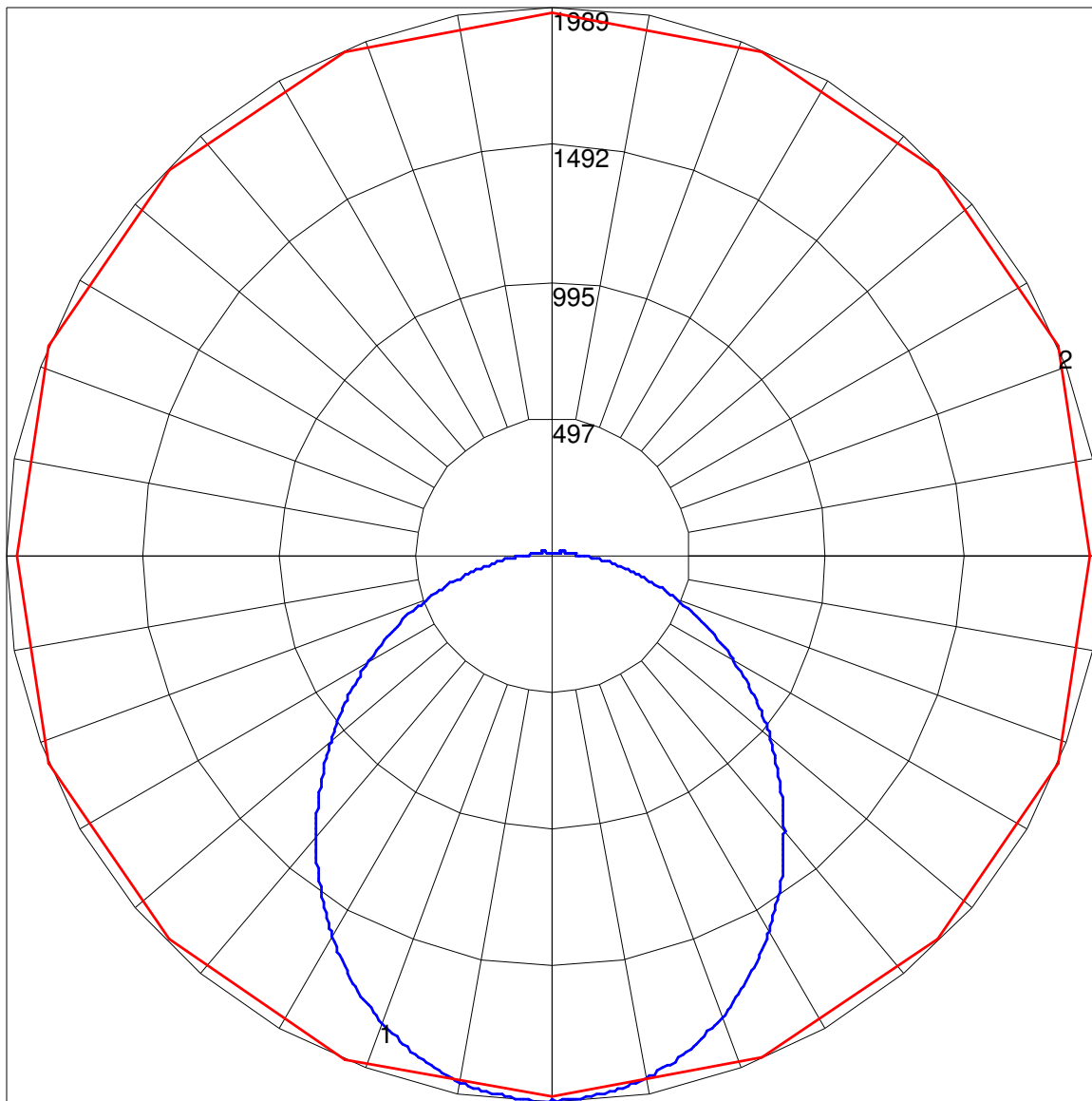
4H	2H	17.3	18.6	17.8	19.1	19.6	20.2	21.5	20.7	22.0	22.6
	3H	18.7	19.9	19.3	20.4	20.9	22.8	23.9	23.3	24.5	25.0
	4H	19.2	20.2	19.7	20.8	21.4	24.0	25.1	24.6	25.6	26.2
	6H	19.5	20.4	20.1	21.0	21.6	25.3	26.2	25.9	26.8	27.4
	8H	19.6	20.4	20.1	21.0	21.6	25.9	26.8	26.5	27.4	28.0
	12H	19.6	20.4	20.2	21.0	21.6	26.6	27.4	27.2	28.0	28.6

8H	4H	19.9	20.7	20.4	21.3	21.9	24.1	25.0	24.7	25.6	26.2
	6H	20.3	21.0	20.9	21.6	22.3	25.5	26.2	26.1	26.8	27.5
	8H	20.5	21.1	21.1	21.7	22.3	26.3	26.9	26.9	27.5	28.1
	12H	20.5	21.1	21.1	21.7	22.4	27.1	27.6	27.7	28.2	28.9

12H	4H	20.0	20.8	20.6	21.4	22.0	24.1	24.9	24.7	25.5	26.1
	6H	20.6	21.2	21.2	21.8	22.5	25.5	26.2	26.1	26.8	27.4
	8H	20.8	21.3	21.4	21.9	22.6	26.3	26.9	26.9	27.5	28.2

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 1989.311 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.)