



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 15180278.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] May 10, 2024
 [TEST DATE] 2/23/2024
 [MANUFAC] H.E. WILLIAMS, INC.
 [LUMCAT] FS-4-LS-8CS-DIM-UNV_42W_4000K
 [LUMINAIRE] 45 inch Lumen/Wattage selectable, CCT selectable, LED stri
 [MORE] p w/frosted acrylic lens
 [LAMP] LED
 [BALLAST] 0-10V DIMMING DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	40.6
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)	3.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26312	24897	25808
55	23949	23050	24556
65	21098	21027	23227
75	17373	18851	21594
85	12014	17354	20553

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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	1921.023	1921.023	1921.023	1921.023	1921.023	1921.023	1921.023	1921.023	1921.023
0.5	1895.747	1928.457	1923.997	1923.997	1915.076	1925.484	1923.997	1931.431	1897.233
1.0	1894.260	1926.971	1921.023	1925.484	1913.589	1925.484	1921.023	1929.944	1897.233
1.5	1897.233	1926.971	1918.049	1923.997	1915.076	1925.484	1921.023	1928.457	1897.233
2.0	1897.233	1925.484	1921.023	1925.484	1913.589	1928.457	1921.023	1929.944	1895.747
2.5	1895.747	1923.997	1918.049	1923.997	1913.589	1922.510	1921.023	1926.971	1892.773
3.0	1891.286	1923.997	1916.563	1923.997	1913.589	1923.997	1919.536	1928.457	1892.773
3.5	1892.773	1921.023	1915.076	1919.536	1910.615	1921.023	1918.049	1923.997	1894.260
4.0	1888.312	1918.049	1912.102	1921.023	1912.102	1919.536	1916.563	1925.484	1889.799
4.5	1889.799	1913.589	1912.102	1918.049	1909.128	1919.536	1913.589	1922.510	1886.825
5.0	1882.365	1912.102	1907.641	1916.563	1909.128	1918.049	1912.102	1919.536	1886.825
5.5	1880.878	1912.102	1906.155	1915.076	1909.128	1916.563	1912.102	1916.563	1882.365
6.0	1877.904	1907.641	1903.181	1913.589	1904.668	1913.589	1907.641	1916.563	1880.878
6.5	1874.931	1904.668	1901.694	1909.128	1901.694	1912.102	1906.155	1913.589	1877.904
7.0	1870.470	1900.207	1898.720	1904.668	1898.720	1909.128	1904.668	1912.102	1879.391
7.5	1868.983	1898.720	1894.260	1904.668	1895.747	1906.155	1900.207	1909.128	1873.444
8.0	1866.009	1894.260	1891.286	1900.207	1895.747	1904.668	1898.720	1906.155	1870.470
8.5	1861.549	1889.799	1886.825	1895.747	1889.799	1900.207	1895.747	1901.694	1864.522
9.0	1858.575	1885.339	1880.878	1894.260	1886.825	1895.747	1891.286	1900.207	1861.549
9.5	1849.654	1880.878	1880.878	1891.286	1883.852	1894.260	1888.312	1894.260	1857.088
10.0	1848.167	1879.391	1873.444	1882.365	1882.365	1889.799	1885.339	1891.286	1855.601
10.5	1837.759	1870.470	1870.470	1882.365	1874.931	1886.825	1880.878	1885.339	1848.167
11.0	1836.272	1868.983	1866.009	1876.417	1871.957	1882.365	1873.444	1877.904	1848.167
11.5	1830.325	1861.549	1860.062	1871.957	1868.983	1876.417	1870.470	1876.417	1840.733
12.0	1824.377	1855.601	1857.088	1867.496	1863.036	1873.444	1864.522	1870.470	1833.298
12.5	1816.943	1849.654	1851.141	1864.522	1863.036	1866.009	1860.062	1863.036	1830.325
13.0	1813.969	1846.680	1843.706	1858.575	1857.088	1863.036	1855.601	1860.062	1821.404
13.5	1809.509	1839.246	1840.733	1851.141	1851.141	1857.088	1851.141	1855.601	1815.456
14.0	1800.588	1831.812	1833.298	1846.680	1845.193	1852.628	1843.706	1849.654	1809.509
14.5	1790.179	1824.377	1825.864	1840.733	1839.246	1845.193	1839.246	1843.706	1805.048
15.0	1785.719	1819.917	1822.890	1837.759	1833.298	1840.733	1831.812	1836.272	1797.614
15.5	1779.771	1815.456	1813.969	1830.325	1827.351	1833.298	1827.351	1828.838	1791.666
16.0	1775.311	1805.048	1808.022	1825.864	1819.917	1827.351	1818.430	1822.890	1781.258
16.5	1761.929	1799.101	1799.101	1819.917	1813.969	1821.404	1810.996	1815.456	1779.771
17.0	1754.495	1791.666	1794.640	1812.482	1808.022	1812.482	1805.048	1809.509	1769.363
17.5	1747.061	1782.745	1785.719	1803.561	1800.588	1805.048	1796.127	1803.561	1764.903
18.0	1742.600	1772.337	1776.798	1794.640	1794.640	1796.127	1790.179	1791.666	1755.982
18.5	1733.679	1766.390	1769.363	1790.179	1787.206	1790.179	1781.258	1785.719	1748.547
19.0	1721.784	1757.469	1760.442	1781.258	1778.285	1782.745	1775.311	1776.798	1739.626
19.5	1715.836	1750.034	1753.008	1773.824	1769.363	1773.824	1767.877	1769.363	1729.218
20.0	1706.915	1739.626	1744.087	1764.903	1761.929	1767.877	1758.955	1760.442	1721.784
20.5	1696.507	1730.705	1736.653	1757.469	1754.495	1757.469	1751.521	1751.521	1714.350
21.0	1689.073	1721.784	1726.245	1747.061	1745.574	1751.521	1739.626	1745.574	1702.455
21.5	1677.178	1712.863	1717.323	1738.139	1739.626	1744.087	1733.679	1735.166	1695.020
22.0	1669.744	1705.428	1709.889	1729.218	1730.705	1733.679	1724.758	1726.245	1686.099
22.5	1656.362	1692.047	1699.481	1721.784	1724.758	1729.218	1715.836	1715.836	1674.204
23.0	1647.441	1683.126	1690.560	1711.376	1715.836	1718.810	1708.402	1706.915	1668.257
23.5	1640.007	1672.718	1683.126	1703.942	1709.889	1714.350	1699.481	1697.994	1657.849
24.0	1625.138	1663.796	1672.718	1695.020	1700.968	1705.428	1690.560	1684.612	1642.980
24.5	1619.191	1654.875	1662.310	1687.586	1693.534	1697.994	1680.152	1675.691	1634.059
25.0	1607.296	1640.007	1653.388	1680.152	1689.073	1690.560	1671.231	1666.770	1625.138
25.5	1593.914	1631.085	1640.007	1672.718	1681.639	1681.639	1663.796	1657.849	1616.217
26.0	1582.019	1622.164	1631.085	1660.823	1672.718	1672.718	1653.388	1647.441	1602.835
26.5	1571.611	1608.783	1622.164	1654.875	1665.283	1663.796	1642.980	1635.546	1593.914

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27.0	1562.690	1598.375	1613.243	1644.467	1653.388	1654.875	1632.572	1625.138	1582.019
27.5	1549.308	1589.453	1602.835	1637.033	1645.954	1644.467	1623.651	1614.730	1570.124
28.0	1538.900	1574.585	1589.453	1628.112	1638.520	1635.546	1611.756	1602.835	1559.716
28.5	1528.492	1564.177	1580.532	1617.704	1629.599	1626.625	1602.835	1592.427	1549.308
29.0	1516.597	1552.282	1570.124	1608.783	1620.677	1616.217	1592.427	1582.019	1535.926
29.5	1504.702	1541.874	1559.716	1598.375	1610.269	1607.296	1583.506	1568.637	1524.032
30.0	1489.834	1529.979	1549.308	1587.967	1601.348	1598.375	1571.611	1558.229	1510.650
30.5	1478.088	1518.084	1537.413	1579.045	1592.427	1587.967	1561.203	1546.334	1498.755
31.0	1465.598	1504.702	1527.005	1568.637	1583.506	1579.045	1549.308	1534.440	1489.834
31.5	1456.231	1491.321	1516.597	1558.229	1573.098	1570.124	1540.387	1522.545	1473.776
32.0	1440.619	1482.102	1504.702	1549.308	1564.177	1561.203	1529.979	1510.650	1462.773
32.5	1430.508	1468.720	1492.807	1538.900	1555.256	1550.795	1516.597	1497.268	1452.514
33.0	1415.937	1456.825	1479.723	1529.979	1547.821	1541.874	1504.702	1484.184	1435.861
33.5	1402.852	1444.187	1468.572	1521.058	1537.413	1529.979	1494.294	1472.735	1425.304
34.0	1390.958	1431.698	1459.948	1509.163	1528.492	1521.058	1484.778	1461.583	1414.450
34.5	1377.130	1417.721	1447.310	1498.755	1519.571	1510.650	1473.032	1446.566	1399.284
35.0	1366.276	1405.677	1436.753	1489.834	1509.163	1500.242	1461.881	1434.969	1389.322
35.5	1352.745	1391.850	1426.196	1480.169	1501.729	1489.834	1449.242	1420.992	1373.264
36.0	1336.836	1377.576	1413.409	1469.612	1491.321	1481.805	1437.348	1408.651	1362.559
36.5	1323.008	1365.235	1403.596	1458.610	1482.548	1470.951	1426.345	1395.716	1350.218
37.0	1312.303	1351.110	1390.214	1450.283	1473.478	1461.137	1414.004	1382.780	1339.958
37.5	1298.029	1339.512	1379.360	1439.429	1463.814	1449.391	1404.042	1370.885	1327.023
38.0	1282.714	1325.982	1367.019	1429.765	1454.298	1438.983	1392.147	1358.693	1311.708
38.5	1270.373	1312.451	1357.057	1418.911	1443.592	1428.724	1379.063	1346.649	1297.137
39.0	1255.505	1298.029	1344.568	1408.354	1433.482	1418.018	1368.655	1335.052	1283.012
39.5	1241.379	1283.458	1333.267	1397.351	1424.263	1407.610	1356.016	1321.967	1266.507
40.0	1226.213	1271.711	1321.521	1387.240	1415.639	1398.243	1344.270	1309.924	1251.044
40.5	1213.426	1258.330	1309.924	1376.535	1404.191	1387.538	1332.673	1294.609	1236.473
41.0	1197.220	1243.312	1297.583	1366.722	1392.742	1377.130	1320.778	1281.079	1221.902
41.5	1183.838	1228.592	1287.472	1356.611	1385.010	1365.384	1307.991	1264.872	1207.182
42.0	1168.375	1215.508	1274.536	1345.460	1374.751	1357.057	1296.245	1249.557	1193.949
42.5	1154.547	1201.532	1262.195	1335.646	1364.938	1345.162	1283.012	1235.878	1179.377
43.0	1139.678	1189.191	1250.301	1324.495	1354.827	1333.713	1271.860	1219.523	1164.806
43.5	1126.743	1176.404	1237.811	1313.343	1345.757	1322.711	1260.857	1205.100	1152.019
44.0	1114.104	1161.238	1226.213	1303.530	1335.498	1313.195	1247.327	1189.637	1136.704
44.5	1096.411	1146.964	1211.940	1292.081	1325.238	1303.084	1237.216	1175.958	1123.174
45.0	1083.475	1132.839	1202.126	1281.673	1315.128	1290.297	1225.470	1160.494	1109.198
45.5	1070.093	1119.011	1188.299	1270.671	1302.935	1280.781	1213.129	1148.005	1095.221
46.0	1055.373	1107.265	1176.850	1258.627	1292.825	1270.522	1201.532	1133.285	1079.460
46.5	1042.438	1093.288	1164.063	1246.286	1283.160	1258.032	1189.637	1120.052	1066.525
47.0	1027.272	1078.271	1152.019	1237.514	1272.455	1249.408	1178.634	1106.373	1053.143
47.5	1012.403	1064.889	1139.678	1225.173	1262.939	1238.852	1166.590	1092.247	1036.044
48.0	1000.805	1051.061	1128.378	1216.400	1250.747	1225.321	1154.844	1077.974	1024.447
48.5	984.599	1037.234	1116.186	1202.870	1241.082	1215.359	1142.652	1064.294	1007.348
49.0	975.083	1025.636	1104.886	1192.610	1230.377	1204.505	1130.014	1051.061	993.966
49.5	962.296	1010.173	1092.842	1181.756	1218.779	1194.097	1114.550	1036.341	980.733
50.0	947.279	998.278	1080.799	1170.605	1209.263	1182.946	1103.399	1022.216	969.284
50.5	932.410	987.721	1066.079	1159.305	1198.558	1171.348	1090.612	1008.983	956.646
51.0	918.433	974.785	1055.968	1147.856	1188.596	1160.197	1076.487	994.412	940.290
51.5	904.606	961.850	1042.735	1138.043	1179.377	1149.194	1064.146	985.937	926.165
52.0	890.034	947.427	1031.732	1127.189	1167.780	1138.340	1050.764	972.406	911.148
52.5	876.653	934.343	1019.391	1115.740	1156.926	1126.891	1039.018	960.363	897.469
53.0	861.635	919.920	1006.456	1104.886	1145.774	1117.227	1026.974	945.792	884.087
53.5	848.105	906.539	994.412	1093.288	1134.623	1105.332	1013.592	931.815	868.475
54.0	833.385	894.049	983.558	1081.988	1122.728	1094.180	1002.738	918.136	853.309
54.5	819.111	879.478	974.785	1069.498	1113.509	1083.624	989.654	903.862	839.779

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55.0	803.797	865.799	963.337	1058.793	1102.358	1071.580	982.220	890.927	824.761
55.5	789.820	853.606	950.698	1046.601	1090.314	1060.131	970.622	877.247	809.893
56.0	775.844	838.738	938.209	1034.706	1080.204	1049.426	957.835	863.122	796.660
56.5	762.462	824.910	925.719	1024.001	1067.714	1035.747	944.453	847.956	781.494
57.0	747.891	810.933	913.675	1011.808	1057.009	1024.447	931.964	834.723	765.584
57.5	734.211	798.295	902.375	1000.508	1044.222	1012.106	919.177	819.855	751.608
58.0	720.830	784.319	888.845	988.911	1032.030	1000.211	906.093	806.622	737.483
58.5	706.407	770.491	876.355	980.882	1020.729	990.397	893.752	792.794	722.465
59.0	693.174	757.109	865.204	972.258	1009.727	980.882	880.221	778.074	709.232
59.5	678.900	744.025	852.119	958.281	997.237	969.730	868.178	765.138	694.066
60.0	665.221	730.792	838.589	946.684	989.951	957.389	855.242	751.608	681.279
60.5	651.393	717.261	825.951	936.127	979.246	945.494	843.793	737.037	665.519
61.0	636.376	703.880	814.205	922.745	968.243	932.707	830.560	724.547	651.542
61.5	622.846	690.349	802.310	910.404	956.646	920.515	818.516	709.678	637.417
62.0	609.018	677.116	790.117	898.807	943.710	909.512	804.689	696.594	622.994
62.5	595.339	664.180	777.925	886.763	931.072	896.131	793.091	682.617	609.018
63.0	582.106	650.650	765.584	874.720	919.177	884.384	780.304	669.533	595.339
63.5	568.129	638.012	753.095	861.784	907.431	872.043	767.220	655.854	581.660
64.0	553.707	624.779	741.200	849.741	895.238	860.149	755.176	642.324	566.791
64.5	538.838	611.546	727.967	837.102	882.154	848.700	742.092	629.239	552.963
65.0	525.902	599.353	715.626	825.059	870.110	835.615	730.197	615.857	538.987
65.5	512.967	586.120	703.433	813.907	858.959	823.572	718.302	602.476	525.456
66.0	498.842	573.036	691.836	799.931	846.469	810.785	704.920	588.945	511.480
66.5	486.501	560.398	679.049	788.482	833.385	798.295	693.174	575.712	497.801
67.0	472.970	548.057	666.708	775.992	821.341	785.062	679.792	562.925	484.865
67.5	460.183	535.270	654.962	762.908	808.257	773.316	668.492	550.287	471.632
68.0	446.950	522.929	641.729	752.054	796.362	761.124	655.557	537.203	458.845
68.5	434.014	510.736	630.429	738.523	784.021	747.891	642.918	524.416	444.571
69.0	421.079	497.503	618.236	727.521	771.532	736.293	630.726	512.372	431.933
69.5	407.400	485.162	606.193	714.436	758.893	724.101	618.980	499.436	417.808
70.0	395.059	472.970	593.555	702.393	746.255	710.868	606.193	486.203	405.169
70.5	382.718	459.886	581.808	689.606	734.063	699.270	594.001	473.416	392.382
71.0	369.187	448.288	569.913	678.306	721.722	686.781	582.106	460.778	379.149
71.5	356.995	435.799	558.762	666.113	709.381	675.332	569.467	448.288	366.065
72.0	344.357	424.499	545.975	653.178	696.891	662.545	558.167	436.393	352.386
72.5	331.867	412.306	534.526	641.431	685.294	650.947	545.826	423.606	339.599
73.0	319.229	400.857	522.334	628.644	672.507	637.863	534.080	411.265	328.001
73.5	307.334	389.260	510.885	616.006	659.720	625.819	522.334	399.222	315.066
74.0	295.142	377.216	499.436	605.301	647.974	613.627	510.142	387.178	302.873
74.5	282.206	365.024	486.947	592.662	635.187	601.881	499.139	374.689	289.938
75.0	269.865	353.873	475.795	581.362	623.886	589.391	487.690	363.240	278.192
75.5	258.714	342.573	464.941	568.873	611.546	577.496	475.647	351.048	265.999
76.0	246.373	331.272	453.492	557.721	599.502	566.048	464.792	339.896	253.956
76.5	235.221	320.270	442.341	545.826	587.310	553.707	453.046	327.853	242.953
77.0	224.218	309.267	431.189	533.783	575.117	542.258	441.300	316.701	231.207
77.5	212.918	298.413	420.335	522.631	563.966	530.214	430.149	304.955	219.907
78.0	201.321	287.559	409.630	511.034	551.476	518.914	419.443	294.398	208.606
78.5	190.318	277.299	398.627	499.734	540.176	507.614	408.589	283.544	197.455
79.0	179.464	266.743	388.368	488.285	528.281	496.017	397.438	273.136	186.898
79.5	169.502	256.335	378.257	477.431	517.427	485.906	387.178	262.431	175.598
80.0	159.391	245.927	367.849	465.982	506.573	474.160	376.473	252.023	165.488
80.5	148.983	235.965	357.590	455.574	494.678	463.603	366.511	242.656	155.080
81.0	138.873	226.449	347.628	444.571	483.973	452.303	356.400	232.396	145.415
81.5	129.208	216.784	337.517	434.163	472.970	441.746	346.438	223.029	135.602
82.0	119.692	207.566	327.853	423.755	461.224	431.338	336.476	213.810	126.086
82.5	110.920	198.050	318.188	414.239	450.519	420.335	326.366	204.741	117.016

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CANDELA TABULATION - (Cont.)

83.0	101.553	189.129	308.672	403.831	440.408	409.927	317.296	195.671	107.946
83.5	92.780	180.505	299.305	393.721	429.703	400.263	307.483	186.898	99.174
84.0	84.156	172.030	290.235	383.759	419.592	390.449	298.710	178.275	90.550
84.5	75.830	163.703	281.165	374.391	409.481	380.487	289.492	169.948	82.521
85.0	68.098	155.972	272.095	364.578	399.668	370.526	280.422	161.919	74.194
85.5	60.367	147.794	263.769	354.913	389.706	361.307	271.798	153.295	66.463
86.0	52.635	140.211	255.443	346.141	380.041	352.088	262.877	145.564	58.582
86.5	45.349	132.777	247.414	337.071	370.823	342.573	254.699	137.683	50.999
87.0	38.064	125.491	239.087	328.299	361.456	333.949	246.670	130.249	43.416
87.5	31.373	118.651	231.355	320.270	352.535	325.474	238.344	122.963	36.131
88.0	24.831	111.217	224.070	312.092	344.357	317.147	230.761	115.529	28.845
88.5	18.288	104.824	217.379	304.658	336.030	309.564	223.624	108.243	21.411
89.0	11.746	98.728	211.134	297.372	328.745	301.833	216.636	101.850	14.423
89.5	5.799	93.672	205.187	290.681	321.459	295.142	210.688	96.200	7.583
90.0	2.082	89.063	199.983	284.139	314.471	288.302	205.187	91.293	2.379
90.5	1.338	85.197	194.927	277.894	307.483	281.611	199.685	87.130	1.338
91.0	1.338	81.926	189.872	271.798	300.940	275.664	194.035	83.859	1.189
91.5	1.338	79.547	185.560	265.851	294.696	269.865	189.723	81.331	1.189
92.0	1.338	77.465	181.100	260.647	289.046	264.661	185.560	79.250	1.189
92.5	1.338	75.532	177.977	255.889	283.544	259.606	181.992	77.317	1.189
93.0	1.338	73.748	174.706	251.279	278.340	254.996	178.721	75.384	1.189
93.5	1.338	71.964	171.732	247.265	273.880	250.685	175.598	73.600	1.189
94.0	1.338	70.328	168.907	243.102	269.419	246.670	172.922	71.815	1.189
94.5	1.338	68.693	166.380	239.533	265.405	242.953	170.097	70.031	1.189
95.0	1.338	67.057	163.852	235.965	261.539	238.938	167.272	68.396	1.189
95.5	1.338	65.571	161.027	232.396	257.227	235.519	164.595	66.909	1.189
96.0	1.338	64.084	158.648	228.828	253.510	231.801	161.919	65.422	1.189
96.5	1.338	62.597	155.972	225.557	249.792	228.530	159.094	63.786	1.189
97.0	1.338	61.110	153.593	221.840	245.927	224.665	156.715	62.299	1.189
97.5	1.338	59.623	150.916	218.866	242.210	221.542	154.187	60.961	1.189
98.0	1.338	58.285	148.537	215.297	238.790	218.122	151.511	59.474	1.189
98.5	1.338	57.095	146.307	212.175	235.370	214.703	149.132	57.988	1.189
99.0	1.338	55.609	143.631	209.201	231.950	211.431	146.604	56.649	1.189
99.5	1.338	54.270	141.400	206.079	228.382	208.309	144.225	55.311	1.189
100.0	1.338	53.081	138.873	202.956	224.962	205.187	141.698	53.973	1.189
100.5	1.338	51.743	136.642	199.834	221.393	202.213	139.467	52.784	1.338
101.0	1.338	50.702	134.412	196.712	218.271	199.239	137.237	51.445	1.338
101.5	1.338	49.364	132.033	193.738	215.149	195.968	134.710	50.256	1.338
102.0	1.487	48.323	129.952	190.764	211.580	193.292	132.628	49.066	1.338
102.5	1.487	47.133	127.721	187.939	208.160	190.467	130.249	47.877	1.338
103.0	1.487	46.093	125.491	184.965	205.038	187.493	128.019	46.687	1.338
103.5	1.487	44.903	123.261	182.438	202.064	184.519	125.937	45.498	1.338
104.0	1.487	43.862	121.328	179.761	199.091	181.694	123.558	44.308	1.338
104.5	1.487	42.822	119.097	176.639	196.266	178.869	121.476	43.268	1.487
105.0	1.487	41.781	117.165	174.111	192.994	176.193	119.395	42.227	1.487
105.5	1.487	40.740	115.232	171.435	190.169	173.219	117.313	41.186	1.487
106.0	1.487	39.699	113.150	168.610	187.344	170.543	115.083	40.145	1.487
106.5	1.487	38.807	111.217	166.231	184.073	167.866	113.150	39.253	1.487
107.0	1.636	37.766	109.284	163.555	181.546	165.041	111.068	38.212	1.487
107.5	1.636	36.874	107.203	160.730	178.869	162.514	109.284	37.320	1.487
108.0	1.636	35.982	105.270	158.499	176.044	159.986	107.351	36.428	1.487
108.5	1.636	34.941	103.634	155.823	173.368	157.607	105.270	35.387	1.636
109.0	1.636	34.049	101.701	153.295	170.692	155.080	103.337	34.495	1.636
109.5	1.636	33.157	99.768	150.768	168.164	152.552	101.553	33.603	1.636
110.0	1.636	32.414	98.133	148.389	165.488	150.024	99.768	32.711	1.636
110.5	1.636	31.521	96.349	146.158	162.811	147.497	97.835	31.819	1.636

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CANDELA TABULATION - (Cont.)

111.0	1.636	30.629	94.564	143.779	160.432	145.415	96.051	31.075	1.636
111.5	1.784	29.886	92.929	141.549	157.905	142.887	94.118	30.183	1.636
112.0	1.784	28.994	91.145	139.021	155.526	140.508	92.483	29.291	1.636
112.5	1.784	28.250	89.360	137.088	152.998	138.278	90.698	28.548	1.784
113.0	1.784	27.507	87.873	134.561	150.470	136.048	88.914	27.656	1.784
113.5	1.784	26.763	85.941	132.331	147.943	133.520	87.279	26.912	1.784
114.0	1.784	25.871	84.454	130.249	145.861	131.290	85.643	26.169	1.784
114.5	1.784	25.128	82.818	128.019	143.333	129.208	83.859	25.277	1.784
115.0	1.784	24.533	81.183	125.937	141.103	126.978	82.075	24.533	1.784
115.5	1.784	23.641	79.547	123.855	138.724	124.748	80.439	23.790	1.784
116.0	1.784	23.046	78.060	121.476	136.494	122.666	78.804	23.046	1.933
116.5	1.784	22.303	76.425	119.544	134.263	120.584	77.317	22.452	1.933
117.0	1.784	21.559	74.789	117.313	131.884	118.354	75.681	21.708	1.933
117.5	1.784	20.816	73.302	115.380	129.803	116.272	74.046	20.965	1.933
118.0	1.784	20.221	71.964	113.150	127.573	114.191	72.559	20.221	1.933
118.5	1.784	19.478	70.477	111.217	125.491	112.109	71.072	19.627	1.933
119.0	1.784	18.883	68.990	109.284	123.261	110.176	69.585	18.883	1.933
119.5	1.784	18.140	67.503	107.351	121.030	108.243	68.098	18.288	1.933
120.0	1.784	17.545	66.017	105.121	118.949	106.013	66.463	17.545	1.933
120.5	1.784	16.950	64.530	103.485	116.719	104.080	65.124	16.950	2.082
121.0	1.784	16.207	63.192	101.404	114.488	102.147	63.638	16.355	2.082
121.5	1.784	15.463	61.853	99.471	112.704	100.214	62.299	15.612	2.082
122.0	1.784	14.869	60.515	97.538	110.325	98.281	60.961	15.017	2.082
122.5	1.784	14.274	59.028	95.605	108.392	96.200	59.623	14.423	2.082
123.0	1.784	13.679	57.690	93.821	106.310	94.416	58.136	13.828	2.082
123.5	1.784	13.084	56.352	91.888	104.229	92.631	56.798	13.233	2.082
124.0	1.784	12.490	55.163	89.955	102.296	90.698	55.460	12.638	2.082
124.5	1.784	11.895	53.824	88.171	100.363	88.617	54.122	12.044	2.230
125.0	1.784	11.300	52.486	86.387	98.430	86.833	52.784	11.449	2.230
125.5	1.784	10.705	51.148	84.602	96.349	85.048	51.445	10.854	2.230
126.0	1.784	10.259	49.810	82.967	94.416	83.264	50.107	10.259	2.230
126.5	1.784	9.665	48.620	81.183	92.483	81.480	48.918	9.665	2.230
127.0	1.784	9.070	47.431	79.398	90.401	79.696	47.728	9.219	2.230
127.5	1.784	8.624	46.241	77.763	88.617	77.911	46.390	8.624	2.230
128.0	1.784	8.029	44.903	75.979	86.833	76.425	45.201	8.178	2.379
128.5	1.784	7.583	43.565	74.343	85.048	74.789	44.011	7.732	2.379
129.0	1.784	7.137	42.376	72.559	83.115	73.005	42.822	7.286	2.379
129.5	1.784	6.840	41.335	70.923	81.331	71.369	41.632	6.988	2.379
130.0	1.933	6.393	40.294	69.288	79.547	69.734	40.591	6.542	2.379
130.5	1.933	6.096	38.956	67.801	77.763	68.247	39.402	6.245	2.528
131.0	1.933	5.799	37.915	66.314	75.979	66.463	38.212	5.947	2.528
131.5	1.933	5.501	36.874	64.678	74.194	64.976	37.172	5.650	2.528
132.0	1.933	5.204	35.685	63.192	72.410	63.340	35.982	5.353	2.528
132.5	1.933	4.907	34.644	61.556	70.775	61.853	34.941	5.055	2.528
133.0	1.933	4.758	33.603	59.920	69.139	60.218	33.900	4.907	2.676
133.5	1.933	4.609	32.414	58.434	67.355	58.731	32.711	4.758	2.676
134.0	1.933	4.461	31.224	56.947	65.868	57.095	31.670	4.609	2.676
134.5	1.933	4.312	30.035	55.460	64.084	55.609	30.629	4.461	2.676
135.0	1.933	4.163	28.845	53.973	62.448	54.122	29.589	4.312	2.676
135.5	1.933	4.015	27.804	52.337	60.813	52.635	28.548	4.163	2.676
136.0	1.933	3.866	26.615	50.851	59.177	51.148	27.507	4.015	2.676
136.5	1.933	3.866	25.574	49.512	57.541	49.661	26.615	4.015	2.825
137.0	1.933	3.717	24.385	48.174	55.906	48.174	25.574	3.866	2.825
137.5	1.933	3.717	23.344	46.687	54.419	46.836	24.533	3.866	2.825
138.0	1.933	3.568	22.303	45.201	52.932	45.349	23.641	3.717	2.825
138.5	1.933	3.568	21.411	43.862	51.445	44.011	22.749	3.717	2.825

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CANDELA TABULATION - (Cont.)

139.0	2.082	3.568	20.370	42.524	49.958	42.524	21.857	3.568	2.974
139.5	2.082	3.420	19.329	41.186	48.472	41.335	20.965	3.568	2.974
140.0	2.082	3.420	18.437	39.848	46.985	39.848	19.924	3.568	2.974
140.5	2.082	3.420	17.545	38.361	45.498	38.510	19.032	3.420	2.974
141.0	2.082	3.271	16.802	37.172	44.011	37.172	18.140	3.420	2.974
141.5	2.082	3.271	15.909	35.833	42.524	35.982	17.248	3.420	3.122
142.0	2.082	3.271	15.166	34.644	41.186	34.644	16.355	3.420	3.122
142.5	2.082	3.122	14.423	33.306	39.699	33.306	15.463	3.271	3.122
143.0	2.082	3.122	13.679	32.116	38.361	31.967	14.720	3.271	3.122
143.5	2.230	3.122	12.936	30.778	37.023	30.778	13.828	3.271	3.122
144.0	2.230	3.122	12.192	29.589	35.536	29.589	13.084	3.122	3.122
144.5	2.230	3.122	11.449	28.399	34.198	28.250	12.192	3.122	3.271
145.0	2.230	2.974	10.854	27.061	32.860	27.061	11.449	3.122	3.271
145.5	2.230	2.974	10.111	25.871	31.521	25.871	10.705	3.122	3.271
146.0	2.230	2.974	9.516	24.831	30.183	24.682	9.962	3.122	3.271
146.5	2.230	2.974	8.921	23.641	28.845	23.492	9.367	3.122	3.271
147.0	2.230	2.974	8.326	22.452	27.656	22.303	8.772	2.974	3.271
147.5	2.230	2.974	7.732	21.262	26.317	21.262	8.178	2.974	3.420
148.0	2.379	2.974	7.286	20.073	25.128	20.073	7.732	2.974	3.420
148.5	2.379	2.974	6.840	18.883	23.790	19.032	7.286	2.974	3.420
149.0	2.379	2.974	6.542	17.545	22.600	17.842	6.840	2.974	3.420
149.5	2.379	2.974	6.096	16.504	21.411	16.802	6.542	2.974	3.420
150.0	2.379	2.974	5.799	15.315	20.221	15.761	6.245	3.122	3.420
150.5	2.379	2.974	5.650	14.274	19.032	14.720	5.947	2.974	3.568
151.0	2.379	2.974	5.353	13.233	17.842	13.679	5.650	2.974	3.568
151.5	2.528	2.974	5.204	12.341	16.802	12.787	5.501	3.122	3.568
152.0	2.528	3.122	5.055	11.300	15.612	11.746	5.204	3.122	3.568
152.5	2.528	3.122	4.907	10.557	14.571	10.854	5.055	3.122	3.568
153.0	2.528	3.122	4.758	9.813	13.382	9.962	4.907	3.122	3.568
153.5	2.528	3.122	4.609	9.070	12.341	9.219	4.758	3.122	3.568
154.0	2.528	3.122	4.461	8.326	11.300	8.624	4.609	3.122	3.717
154.5	2.676	3.122	4.312	7.732	10.408	7.880	4.461	3.122	3.717
155.0	2.676	3.122	4.163	7.137	9.516	7.286	4.312	3.122	3.717
155.5	2.676	3.271	4.163	6.691	8.772	6.840	4.312	3.122	3.717
156.0	2.676	3.271	4.015	6.245	8.029	6.393	4.163	3.271	3.717
156.5	2.825	3.271	4.015	5.799	7.434	5.947	4.015	3.271	3.717
157.0	2.825	3.271	3.866	5.501	6.840	5.650	4.015	3.271	3.717
157.5	2.825	3.271	3.866	5.353	6.245	5.353	3.866	3.271	3.717
158.0	2.825	3.271	3.717	5.055	5.947	5.055	3.866	3.271	3.866
158.5	2.825	3.420	3.717	4.907	5.501	4.907	3.717	3.271	3.866
159.0	2.974	3.420	3.568	4.609	5.204	4.609	3.717	3.420	3.866
159.5	2.974	3.420	3.568	4.461	4.907	4.461	3.568	3.420	3.866
160.0	2.974	3.420	3.568	4.312	4.758	4.312	3.568	3.420	3.866
160.5	2.974	3.420	3.420	4.163	4.461	4.163	3.568	3.420	3.866
161.0	2.974	3.420	3.420	4.015	4.312	4.015	3.420	3.420	3.866
161.5	3.122	3.420	3.420	4.015	4.163	4.015	3.420	3.420	3.866
162.0	3.122	3.568	3.420	3.866	4.015	3.866	3.420	3.420	3.866
162.5	3.122	3.568	3.420	3.717	3.866	3.717	3.420	3.568	3.866
163.0	3.122	3.568	3.420	3.568	3.717	3.717	3.420	3.568	4.015
163.5	3.122	3.568	3.420	3.568	3.568	3.568	3.420	3.568	4.015
164.0	3.271	3.568	3.420	3.420	3.568	3.420	3.420	3.568	4.015
164.5	3.271	3.568	3.420	3.420	3.420	3.420	3.420	3.568	4.015
165.0	3.271	3.717	3.420	3.420	3.420	3.420	3.420	3.568	4.015
165.5	3.271	3.717	3.420	3.420	3.271	3.420	3.420	3.717	4.015
166.0	3.420	3.717	3.568	3.420	3.271	3.271	3.568	3.717	4.015
166.5	3.420	3.717	3.568	3.420	3.271	3.271	3.568	3.717	4.015

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167.0	3.420	3.717	3.568	3.271	3.122	3.271	3.568	3.717	4.015
167.5	3.420	3.717	3.568	3.271	3.122	3.271	3.568	3.717	4.015
168.0	3.420	3.717	3.568	3.271	3.122	3.271	3.568	3.717	4.015
168.5	3.568	3.866	3.568	3.271	3.122	3.271	3.568	3.717	4.015
169.0	3.568	3.866	3.568	3.420	3.122	3.420	3.568	3.866	4.015
169.5	3.568	3.866	3.568	3.420	3.122	3.420	3.568	3.866	4.015
170.0	3.568	3.866	3.568	3.420	3.122	3.271	3.568	3.866	4.015
170.5	3.568	3.866	3.568	3.420	3.122	3.420	3.568	3.866	4.015
171.0	3.568	3.866	3.717	3.420	3.122	3.420	3.568	3.866	4.015
171.5	3.568	3.866	3.717	3.420	3.122	3.420	3.717	3.866	4.015
172.0	3.568	3.866	3.717	3.420	3.122	3.420	3.717	3.866	4.015
172.5	3.717	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
173.0	3.717	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
173.5	3.717	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
174.0	3.717	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
174.5	3.717	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
175.0	3.717	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
175.5	3.866	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
176.0	3.866	3.866	3.717	3.420	3.271	3.420	3.717	3.866	4.015
176.5	3.866	3.866	3.717	3.568	3.271	3.420	3.717	3.866	4.015
177.0	3.866	4.015	3.717	3.568	3.271	3.420	3.717	4.015	4.015
177.5	3.866	4.015	3.717	3.568	3.271	3.420	3.717	4.015	4.015
178.0	3.866	4.015	3.717	3.568	3.271	3.568	3.717	4.015	4.015
178.5	3.866	4.015	3.717	3.568	3.271	3.568	3.717	4.015	4.015
179.0	4.015	4.015	3.717	3.568	3.271	3.568	3.866	4.015	4.015
179.5	4.015	4.015	3.717	3.568	3.271	3.568	3.717	4.015	4.015
180.0	3.717	3.717	3.717	3.717	3.717	3.717	3.717	3.717	3.717

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	696.05	N.A.	11.40
0-30	1462.12	N.A.	24.00
0-40	2370.61	N.A.	38.80
0-60	4173.07	N.A.	68.40
0-80	5378.41	N.A.	88.10
0-90	5664.99	N.A.	92.80
10-90	5483.61	N.A.	89.80
20-40	1674.56	N.A.	27.40
20-50	2611.3	N.A.	42.80
40-70	2511.41	N.A.	41.10
60-80	1205.34	N.A.	19.70
70-80	496.39	N.A.	8.10
80-90	286.58	N.A.	4.70
90-110	280.96	N.A.	4.60
90-120	356.86	N.A.	5.80
90-130	402.31	N.A.	6.60
90-150	435.45	N.A.	7.10
90-180	439.52	N.A.	7.20
110-180	158.56	N.A.	2.60
0-180	6104.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.37
10-20	514.68
20-30	766.07
30-40	908.48
40-50	936.74
50-60	865.72
60-70	708.95
70-80	496.39
80-90	286.58
90-100	165.95
100-110	115.01
110-120	75.90
120-130	45.45
130-140	23.56
140-150	9.58
150-160	2.71
160-170	1.01
170-180	0.35

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	100	100	100	100	97	97	97	97	92	92	92	86	86	86	82	82	82	79
1	90	86	82	78	87	83	80	76	78	75	73	74	72	69	70	68	66	64
2	82	74	68	63	79	72	66	62	68	63	59	64	60	57	61	58	55	52
3	74	65	58	52	72	63	56	51	60	54	49	56	52	48	53	49	46	44
4	68	57	50	44	66	56	49	43	53	47	42	50	45	41	48	43	39	37
5	62	51	43	38	60	50	43	37	47	41	36	45	39	35	43	38	34	32
6	58	46	38	33	56	45	38	32	43	36	31	41	35	31	39	34	30	28
7	53	42	34	29	52	41	34	28	39	32	28	37	31	27	35	30	27	25
8	50	38	31	26	48	37	30	25	36	29	25	34	28	24	33	28	24	22
9	46	35	28	23	45	34	27	23	33	27	22	31	26	22	30	25	22	20
10	44	32	25	21	42	32	25	21	30	24	20	29	24	20	28	23	20	18

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_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

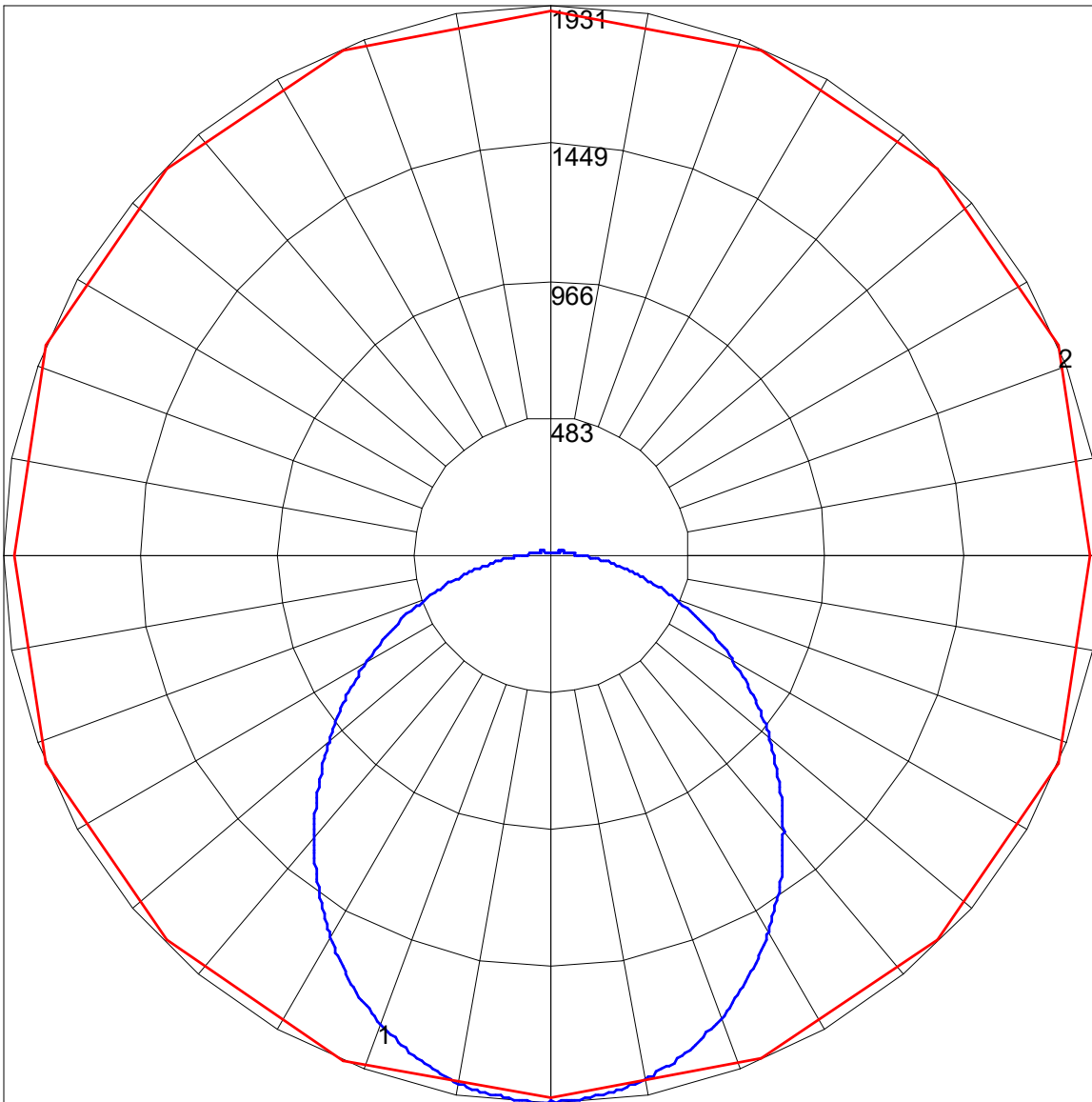
X=2H	Y=2H	21.6	23.2	22.1	23.6	24.1	24.1	25.6	24.5	26.1	26.5
	3H	23.1	24.5	23.6	25.0	25.5	26.5	27.9	27.0	28.3	28.9
	4H	23.6	24.9	24.1	25.4	25.9	27.6	28.9	28.1	29.4	30.0
	6H	23.9	25.1	24.4	25.6	26.2	28.7	30.0	29.3	30.5	31.0
	8H	24.0	25.1	24.5	25.7	26.2	29.3	30.5	29.9	31.0	31.6
	12H	24.0	25.1	24.5	25.6	26.2	29.9	31.1	30.5	31.6	32.2

UGR Viewed Endwise

4H	2H	22.6	23.9	23.1	24.4	24.9	24.5	25.8	25.0	26.3	26.8
	3H	24.3	25.4	24.8	26.0	26.5	27.2	28.3	27.7	28.8	29.4
	4H	24.9	25.9	25.4	26.5	27.1	28.4	29.5	29.0	30.0	30.6
	6H	25.3	26.2	25.9	26.8	27.4	29.8	30.7	30.3	31.2	31.8
	8H	25.4	26.3	26.0	26.9	27.5	30.4	31.3	31.0	31.8	32.5
	12H	25.5	26.3	26.1	26.9	27.5	31.2	31.9	31.7	32.5	33.2
8H	4H	25.6	26.5	26.2	27.0	27.6	28.6	29.5	29.2	30.1	30.7
	6H	26.2	26.9	26.8	27.5	28.2	30.1	30.9	30.7	31.5	32.1
	8H	26.4	27.1	27.0	27.7	28.3	31.0	31.6	31.6	32.2	32.8
	12H	26.5	27.1	27.2	27.7	28.4	31.9	32.4	32.5	33.0	33.7
12H	4H	25.8	26.6	26.4	27.2	27.8	28.6	29.4	29.2	30.0	30.6
	6H	26.5	27.2	27.1	27.7	28.4	30.2	30.8	30.8	31.4	32.1
	8H	26.8	27.4	27.4	28.0	28.7	31.0	31.6	31.6	32.2	32.9

Maximum UGR = 33.7

POLAR GRAPH



Maximum Candela = 1931.431 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.)