

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_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_63W_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	9075
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	63
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	19200	11647	10806
55	17362	9587	9042
65	15132	7556	7348
75	12181	5529	5604
85	7666	3638	3963

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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	2855.868	2855.868	2855.868	2855.868	2855.868	2855.868	2855.868	2855.868	2855.868
0.5	2818.291	2866.920	2860.289	2860.289	2847.026	2862.499	2860.289	2871.341	2820.501
1.0	2816.080	2864.709	2855.868	2862.499	2844.816	2862.499	2855.868	2869.130	2820.501
1.5	2820.501	2864.709	2851.447	2860.289	2847.026	2862.499	2855.868	2866.920	2820.501
2.0	2820.501	2862.499	2855.868	2862.499	2844.816	2866.920	2855.868	2869.130	2818.291
2.5	2818.291	2860.289	2851.447	2860.289	2844.816	2858.078	2855.868	2864.709	2813.870
3.0	2811.659	2860.289	2849.236	2860.289	2844.816	2860.289	2853.657	2866.920	2813.870
3.5	2813.870	2855.868	2847.026	2853.657	2840.395	2855.868	2851.447	2860.289	2816.080
4.0	2807.238	2851.447	2842.605	2855.868	2842.605	2853.657	2849.236	2862.499	2809.449
4.5	2809.449	2844.816	2842.605	2851.447	2838.184	2853.657	2844.816	2858.078	2805.028
5.0	2798.397	2842.605	2835.974	2849.236	2838.184	2851.447	2842.605	2853.657	2805.028
5.5	2796.186	2842.605	2833.763	2847.026	2838.184	2849.236	2842.605	2849.236	2798.397
6.0	2791.765	2835.974	2829.343	2844.816	2831.553	2844.816	2835.974	2849.236	2796.186
6.5	2787.345	2831.553	2827.132	2838.184	2827.132	2842.605	2833.763	2844.816	2791.765
7.0	2780.713	2824.922	2822.711	2831.553	2822.711	2838.184	2831.553	2842.605	2793.976
7.5	2778.503	2822.711	2816.080	2831.553	2818.291	2833.763	2824.922	2838.184	2785.134
8.0	2774.082	2816.080	2811.659	2824.922	2818.291	2831.553	2822.711	2833.763	2780.713
8.5	2767.451	2809.449	2805.028	2818.291	2809.449	2824.922	2818.291	2827.132	2771.872
9.0	2763.030	2802.818	2796.186	2816.080	2805.028	2818.291	2811.659	2824.922	2767.451
9.5	2749.767	2796.186	2796.186	2811.659	2800.607	2816.080	2807.238	2816.080	2760.820
10.0	2747.557	2793.976	2785.134	2798.397	2798.397	2809.449	2802.818	2811.659	2758.609
10.5	2732.084	2780.713	2780.713	2798.397	2787.345	2805.028	2796.186	2802.818	2747.557
11.0	2729.874	2778.503	2774.082	2789.555	2782.924	2798.397	2785.134	2791.765	2747.557
11.5	2721.032	2767.451	2765.240	2782.924	2778.503	2789.555	2780.713	2789.555	2736.505
12.0	2712.190	2758.609	2760.820	2776.292	2769.661	2785.134	2771.872	2780.713	2725.453
12.5	2701.138	2749.767	2751.978	2771.872	2769.661	2774.082	2765.240	2769.661	2721.032
13.0	2696.717	2745.347	2740.926	2763.030	2760.820	2769.661	2758.609	2765.240	2707.769
13.5	2690.086	2734.294	2736.505	2751.978	2751.978	2760.820	2751.978	2758.609	2698.928
14.0	2676.823	2723.242	2725.453	2745.347	2743.136	2754.188	2740.926	2749.767	2690.086
14.5	2661.350	2712.190	2714.401	2736.505	2734.294	2743.136	2734.294	2740.926	2683.455
15.0	2654.719	2705.559	2709.980	2732.084	2725.453	2736.505	2723.242	2729.874	2672.403
15.5	2645.877	2698.928	2696.717	2721.032	2716.611	2725.453	2716.611	2718.821	2663.561
16.0	2639.246	2683.455	2687.876	2714.401	2705.559	2716.611	2703.348	2709.980	2648.088
16.5	2619.352	2674.613	2674.613	2705.559	2696.717	2707.769	2692.296	2698.928	2645.877
17.0	2608.300	2663.561	2667.982	2694.507	2687.876	2694.507	2683.455	2690.086	2630.404
17.5	2597.248	2650.298	2654.719	2681.244	2676.823	2683.455	2670.192	2681.244	2623.773
18.0	2590.617	2634.825	2641.457	2667.982	2667.982	2670.192	2661.350	2663.561	2610.511
18.5	2577.354	2625.984	2630.404	2661.350	2656.930	2661.350	2648.088	2654.719	2599.459
19.0	2559.671	2612.721	2617.142	2648.088	2643.667	2650.298	2639.246	2641.457	2586.196
19.5	2550.829	2601.669	2606.090	2637.036	2630.404	2637.036	2628.194	2630.404	2570.723
20.0	2537.567	2586.196	2592.827	2623.773	2619.352	2628.194	2614.932	2617.142	2559.671
20.5	2522.094	2572.933	2581.775	2612.721	2608.300	2612.721	2603.879	2603.879	2548.619
21.0	2511.042	2559.671	2566.302	2597.248	2595.038	2603.879	2586.196	2595.038	2530.935
21.5	2493.358	2546.408	2553.040	2583.986	2586.196	2592.827	2577.354	2579.565	2519.883
22.0	2482.306	2535.356	2541.988	2570.723	2572.933	2577.354	2564.092	2566.302	2506.621
22.5	2462.412	2515.462	2526.515	2559.671	2564.092	2570.723	2550.829	2550.829	2488.937
23.0	2449.150	2502.200	2513.252	2544.198	2550.829	2555.250	2539.777	2537.567	2480.096
23.5	2438.098	2486.727	2502.200	2533.146	2541.988	2548.619	2526.515	2524.304	2464.623
24.0	2415.993	2473.464	2486.727	2519.883	2528.725	2535.356	2513.252	2504.410	2442.518
24.5	2407.152	2460.202	2471.254	2508.831	2517.673	2524.304	2497.779	2491.148	2429.256
25.0	2389.468	2438.098	2457.991	2497.779	2511.042	2513.252	2484.517	2477.885	2415.993
25.5	2369.574	2424.835	2438.098	2486.727	2499.989	2499.989	2473.464	2464.623	2402.731
26.0	2351.891	2411.573	2424.835	2469.044	2486.727	2486.727	2457.991	2449.150	2382.837
26.5	2336.418	2391.679	2411.573	2460.202	2475.675	2473.464	2442.518	2431.466	2369.574

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27.0	2323.156	2376.206	2398.310	2444.729	2457.991	2460.202	2427.045	2415.993	2351.891
27.5	2303.262	2362.943	2382.837	2433.677	2446.939	2444.729	2413.783	2400.520	2334.208
28.0	2287.789	2340.839	2362.943	2420.414	2435.887	2431.466	2396.100	2382.837	2318.735
28.5	2272.316	2325.366	2349.681	2404.941	2422.625	2418.204	2382.837	2367.364	2303.262
29.0	2254.632	2307.683	2334.208	2391.679	2409.362	2402.731	2367.364	2351.891	2283.368
29.5	2236.949	2292.210	2318.735	2376.206	2393.889	2389.468	2354.102	2331.997	2265.685
30.0	2214.845	2274.526	2303.262	2360.733	2380.627	2376.206	2336.418	2316.524	2245.791
30.5	2197.382	2256.843	2285.578	2347.470	2367.364	2360.733	2320.945	2298.841	2228.107
31.0	2178.815	2236.949	2270.105	2331.997	2354.102	2347.470	2303.262	2281.158	2214.845
31.5	2164.889	2217.055	2254.632	2316.524	2338.629	2334.208	2289.999	2263.474	2190.972
32.0	2141.680	2203.351	2236.949	2303.262	2325.366	2320.945	2274.526	2245.791	2174.615
32.5	2126.649	2183.457	2219.266	2287.789	2312.103	2305.472	2254.632	2225.897	2159.363
33.0	2104.987	2165.773	2199.814	2274.526	2301.051	2292.210	2236.949	2206.445	2134.606
33.5	2085.535	2146.985	2183.236	2261.264	2285.578	2274.526	2221.476	2189.425	2118.912
34.0	2067.852	2128.417	2170.415	2243.580	2272.316	2261.264	2207.329	2172.847	2102.776
34.5	2047.295	2107.639	2151.627	2228.107	2259.053	2245.791	2189.867	2150.521	2080.230
35.0	2031.159	2089.735	2135.933	2214.845	2243.580	2230.318	2173.289	2133.280	2065.420
35.5	2011.044	2069.178	2120.239	2200.477	2232.528	2214.845	2154.500	2112.502	2041.548
36.0	1987.392	2047.958	2101.229	2184.783	2217.055	2202.909	2136.817	2094.156	2025.633
36.5	1966.835	2029.611	2086.640	2168.426	2204.014	2186.772	2120.460	2074.925	2007.286
37.0	1950.920	2008.612	2066.746	2156.048	2190.530	2172.184	2102.113	2055.694	1992.034
37.5	1929.700	1991.371	2050.610	2139.911	2176.162	2154.721	2087.303	2038.011	1972.803
38.0	1906.933	1971.256	2032.264	2125.544	2162.016	2139.248	2069.620	2019.885	1950.036
38.5	1888.586	1951.141	2017.454	2109.408	2146.101	2123.996	2050.168	2001.981	1928.374
39.0	1866.482	1929.700	1998.886	2093.714	2131.070	2108.081	2034.695	1984.740	1907.375
39.5	1845.483	1908.038	1982.087	2077.356	2117.365	2092.608	2015.907	1965.288	1882.839
40.0	1822.937	1890.576	1964.625	2062.326	2104.545	2078.683	1998.444	1947.383	1859.851
40.5	1803.927	1870.682	1947.383	2046.410	2087.524	2062.768	1981.203	1924.616	1838.189
41.0	1779.833	1848.357	1929.037	2031.822	2070.504	2047.295	1963.520	1904.501	1816.526
41.5	1759.940	1826.473	1914.006	2016.791	2059.010	2029.832	1944.510	1880.408	1794.643
42.0	1736.951	1807.022	1894.775	2000.213	2043.758	2017.454	1927.048	1857.640	1774.970
42.5	1716.394	1786.244	1876.429	1985.624	2029.169	1999.771	1907.375	1837.304	1753.308
43.0	1694.290	1767.897	1858.745	1969.046	2014.138	1982.750	1890.797	1812.990	1731.646
43.5	1675.059	1748.887	1840.178	1952.467	2000.655	1966.393	1874.440	1791.549	1712.636
44.0	1656.271	1726.341	1822.937	1937.879	1985.403	1952.246	1854.325	1768.560	1689.869
44.5	1629.967	1705.121	1801.717	1920.858	1970.151	1937.216	1839.294	1748.224	1669.754
45.0	1610.736	1684.122	1787.128	1905.385	1955.120	1918.206	1821.831	1725.236	1648.976
45.5	1590.842	1663.565	1766.571	1889.028	1936.995	1904.059	1803.485	1706.668	1628.198
46.0	1568.959	1646.103	1749.551	1871.124	1921.964	1888.807	1786.244	1684.785	1604.768
46.5	1549.728	1625.325	1730.541	1852.777	1907.596	1870.240	1768.560	1665.112	1585.537
47.0	1527.182	1602.999	1712.636	1839.736	1891.681	1857.419	1752.203	1644.776	1565.643
47.5	1505.078	1583.106	1694.290	1821.389	1877.534	1841.725	1734.299	1623.777	1540.223
48.0	1487.836	1562.549	1677.491	1808.348	1859.409	1821.610	1716.836	1602.557	1522.982
48.5	1463.743	1541.992	1659.365	1788.233	1845.041	1806.801	1698.711	1582.221	1497.562
49.0	1449.596	1524.750	1642.566	1772.981	1829.126	1790.664	1679.922	1562.549	1477.668
49.5	1430.586	1501.762	1624.662	1756.845	1811.885	1775.191	1656.934	1540.665	1457.996
50.0	1408.261	1484.079	1606.757	1740.267	1797.738	1758.613	1640.356	1519.666	1440.975
50.5	1386.157	1468.385	1584.874	1723.468	1781.823	1741.372	1621.346	1499.994	1422.187
51.0	1365.379	1449.154	1569.843	1706.447	1767.013	1724.794	1600.347	1478.332	1397.872
51.5	1344.822	1429.923	1550.170	1691.858	1753.308	1708.437	1582.000	1465.732	1376.873
52.0	1323.160	1408.482	1533.813	1675.722	1736.067	1692.301	1562.107	1445.617	1354.548
52.5	1303.266	1389.030	1515.467	1658.702	1719.931	1675.280	1544.644	1427.713	1334.212
53.0	1280.941	1367.589	1496.236	1642.566	1703.353	1660.913	1526.740	1406.051	1314.318
53.5	1260.826	1347.695	1478.332	1625.325	1686.775	1643.229	1506.846	1385.273	1291.109
54.0	1238.943	1329.128	1462.195	1608.526	1669.091	1626.651	1490.710	1364.937	1268.562
54.5	1217.723	1307.466	1449.154	1589.958	1655.386	1610.957	1471.258	1343.717	1248.447

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55.0	1194.955	1287.130	1432.134	1574.043	1638.808	1593.053	1460.206	1324.486	1226.122
55.5	1174.177	1269.004	1413.345	1555.917	1620.904	1576.032	1442.965	1304.150	1204.018
56.0	1153.399	1246.900	1394.778	1538.234	1605.873	1560.117	1423.955	1283.151	1184.345
56.5	1133.505	1226.343	1376.210	1522.319	1587.305	1539.781	1404.061	1260.605	1161.799
57.0	1111.843	1205.565	1358.306	1504.193	1571.390	1522.982	1385.494	1240.932	1138.147
57.5	1091.507	1186.777	1341.506	1487.394	1552.381	1504.636	1366.484	1218.828	1117.369
58.0	1071.614	1165.999	1321.391	1470.153	1534.255	1486.952	1347.032	1199.155	1096.370
58.5	1050.172	1145.442	1302.824	1458.217	1517.456	1472.363	1328.686	1178.598	1074.045
59.0	1030.500	1125.548	1286.246	1445.396	1501.099	1458.217	1308.571	1156.715	1054.372
59.5	1009.280	1106.096	1266.794	1424.618	1482.531	1441.638	1290.667	1137.484	1031.826
60.0	988.944	1086.423	1246.679	1407.377	1471.700	1423.292	1271.436	1117.369	1012.816
60.5	968.387	1066.309	1227.891	1391.683	1455.785	1405.609	1254.416	1095.707	989.386
61.0	946.061	1046.415	1210.428	1371.789	1439.428	1386.599	1234.743	1077.140	968.608
61.5	925.947	1026.300	1192.745	1353.443	1422.187	1368.473	1216.838	1055.035	947.609
62.0	905.390	1006.627	1174.619	1336.201	1402.956	1352.116	1196.281	1035.584	926.168
62.5	885.054	987.396	1156.494	1318.297	1384.167	1332.223	1179.040	1014.806	905.390
63.0	865.381	967.282	1138.147	1300.392	1366.484	1314.760	1160.030	995.354	885.054
63.5	844.603	948.493	1119.580	1281.162	1349.022	1296.414	1140.579	975.018	864.718
64.0	823.162	928.820	1101.896	1263.257	1330.896	1278.730	1122.674	954.903	842.614
64.5	801.058	909.147	1082.224	1244.469	1311.445	1261.710	1103.223	935.451	822.057
65.0	781.827	891.022	1063.877	1226.564	1293.540	1242.258	1085.539	915.558	801.279
65.5	762.596	871.349	1045.752	1209.986	1276.962	1224.354	1067.856	895.664	781.164
66.0	741.597	851.897	1028.510	1189.208	1258.394	1205.344	1047.962	875.549	760.386
66.5	723.251	833.109	1009.501	1172.188	1238.943	1186.777	1030.500	855.876	740.050
67.0	703.136	814.762	991.154	1153.620	1221.038	1167.104	1010.606	836.867	720.819
67.5	684.126	795.753	973.692	1134.169	1201.586	1149.641	993.807	818.078	701.146
68.0	664.453	777.406	954.019	1118.032	1183.903	1131.516	974.576	798.626	682.137
68.5	645.223	759.281	937.220	1097.918	1165.557	1111.843	955.787	779.617	660.917
69.0	625.992	739.608	919.094	1081.560	1146.989	1094.602	937.662	761.712	642.128
69.5	605.656	721.261	901.190	1062.109	1128.200	1076.476	920.199	742.481	621.129
70.0	587.310	703.136	882.401	1044.204	1109.412	1056.804	901.190	722.809	602.341
70.5	568.963	683.684	864.939	1025.195	1091.286	1039.562	883.064	703.799	583.331
71.0	548.848	666.443	847.255	1008.395	1072.940	1020.995	865.381	685.010	563.658
71.5	530.723	647.875	830.677	990.270	1054.593	1003.975	846.592	666.443	544.206
72.0	511.934	631.076	811.668	971.039	1036.026	984.965	829.793	648.759	523.870
72.5	493.367	612.951	794.647	953.577	1018.784	967.724	811.447	629.750	504.861
73.0	474.578	595.930	776.522	934.567	999.775	948.272	793.984	611.403	487.620
73.5	456.895	578.689	759.502	915.779	980.765	930.367	776.522	593.499	468.389
74.0	438.769	560.785	742.481	899.864	963.303	912.242	758.396	575.594	450.263
74.5	419.538	542.659	723.914	881.075	944.293	894.780	742.039	557.027	431.033
75.0	401.192	526.081	707.336	864.276	927.494	876.212	725.019	540.007	413.570
75.5	384.614	509.282	691.200	845.708	909.147	858.529	707.115	521.881	395.445
76.0	366.267	492.482	674.179	829.130	891.243	841.508	690.979	505.303	377.540
76.5	349.689	476.125	657.601	811.447	873.117	823.162	673.516	487.398	361.183
77.0	333.332	459.768	641.023	793.542	854.992	806.142	656.054	470.820	343.721
77.5	316.533	443.632	624.887	776.964	838.414	788.237	639.476	453.358	326.922
78.0	299.291	427.496	608.972	759.723	819.846	771.438	623.561	437.664	310.122
78.5	282.934	412.244	592.615	742.923	803.047	754.639	607.425	421.528	293.544
79.0	266.798	396.550	577.363	725.903	785.364	737.397	590.846	406.055	277.850
79.5	251.988	381.077	562.332	709.767	769.228	722.367	575.594	390.140	261.051
80.0	236.957	365.604	546.859	692.747	753.091	704.904	559.679	374.667	246.020
80.5	221.484	350.794	531.607	677.274	735.408	689.210	544.870	360.741	230.547
81.0	206.454	336.648	516.797	660.917	719.493	672.411	529.839	345.489	216.179
81.5	192.086	322.280	501.766	645.444	703.136	656.717	515.029	331.564	201.591
82.0	177.939	308.575	487.398	629.971	685.674	641.244	500.219	317.859	187.444
82.5	164.898	294.428	473.031	615.824	669.758	624.887	485.188	304.375	173.960

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CANDELA TABULATION - (Cont.)

83.0	150.972	281.166	458.884	600.351	654.728	609.414	471.704	290.892	160.477
83.5	137.930	268.345	444.958	585.320	638.813	595.046	457.116	277.850	147.435
84.0	125.110	255.746	431.475	570.510	623.782	580.457	444.074	265.030	134.615
84.5	112.732	243.368	417.991	556.585	608.751	565.647	430.370	252.651	122.679
85.0	101.237	231.873	404.508	541.996	594.162	550.838	416.886	240.715	110.300
85.5	89.743	219.716	392.129	527.628	579.352	537.133	404.065	227.895	98.806
86.0	78.249	208.443	379.751	514.587	564.984	523.428	390.803	216.401	87.091
86.5	67.418	197.391	367.815	501.103	551.280	509.282	378.646	204.685	75.818
87.0	56.587	186.560	355.436	488.062	537.354	496.461	366.709	193.633	64.544
87.5	46.640	176.392	343.942	476.125	524.092	483.862	354.331	182.802	53.713
88.0	36.914	165.340	333.111	463.968	511.934	471.483	343.058	171.750	42.882
88.5	27.188	155.835	323.164	452.916	499.556	460.210	332.448	160.919	31.830
89.0	17.462	146.772	313.880	442.085	488.725	448.716	322.059	151.414	21.441
89.5	8.621	139.257	305.039	432.138	477.894	438.769	313.217	143.014	11.273
90.0	3.095	132.404	297.302	422.412	467.505	428.601	305.039	135.720	3.537
90.5	1.989	126.657	289.787	413.128	457.116	418.654	296.860	129.531	1.989
91.0	1.989	121.794	282.271	404.065	447.390	409.813	288.460	124.668	1.768
91.5	1.989	118.258	275.861	395.224	438.106	401.192	282.050	120.910	1.768
92.0	1.989	115.163	269.230	387.487	429.706	393.455	275.861	117.816	1.768
92.5	1.989	112.290	264.588	380.414	421.528	385.940	270.556	114.942	1.768
93.0	1.989	109.637	259.725	373.562	413.791	379.088	265.693	112.068	1.768
93.5	1.989	106.985	255.304	367.594	407.160	372.677	261.051	109.416	1.768
94.0	1.989	104.553	251.104	361.404	400.529	366.709	257.072	106.763	1.768
94.5	1.989	102.122	247.346	356.099	394.561	361.183	252.872	104.111	1.768
95.0	1.989	99.690	243.589	350.794	388.814	355.215	248.673	101.680	1.768
95.5	1.989	97.480	239.389	345.489	382.403	350.131	244.694	99.469	1.768
96.0	1.989	95.269	235.852	340.184	376.877	344.605	240.715	97.259	1.768
96.5	1.989	93.059	231.873	335.321	371.351	339.742	236.515	94.827	1.768
97.0	1.989	90.848	228.337	329.795	365.604	333.995	232.979	92.617	1.768
97.5	1.989	88.638	224.358	325.374	360.078	329.353	229.221	90.627	1.768
98.0	1.989	86.649	220.821	320.069	354.994	324.269	225.242	88.417	1.768
98.5	1.989	84.880	217.506	315.427	349.910	319.185	221.706	86.207	1.768
99.0	1.989	82.670	213.527	311.007	344.826	314.322	217.948	84.217	1.768
99.5	1.989	80.680	210.211	306.365	339.521	309.680	214.411	82.228	1.768
100.0	1.989	78.912	206.454	301.723	334.437	305.039	210.653	80.238	1.768
100.5	1.989	76.923	203.138	297.081	329.132	300.618	207.338	78.470	1.989
101.0	1.989	75.375	199.822	292.439	324.490	296.197	204.022	76.481	1.989
101.5	1.989	73.386	196.286	288.018	319.848	291.334	200.264	74.712	1.989
102.0	2.210	71.839	193.191	283.597	314.543	287.355	197.170	72.944	1.989
102.5	2.210	70.070	189.875	279.398	309.459	283.155	193.633	71.176	1.989
103.0	2.210	68.523	186.560	274.977	304.817	278.734	190.318	69.407	1.989
103.5	2.210	66.755	183.244	271.219	300.397	274.314	187.223	67.639	1.989
104.0	2.210	65.208	180.371	267.240	295.976	270.114	183.686	65.871	1.989
104.5	2.210	63.660	177.055	262.598	291.776	265.914	180.592	64.323	2.210
105.0	2.210	62.113	174.181	258.841	286.913	261.935	177.497	62.776	2.210
105.5	2.210	60.566	171.308	254.862	282.713	257.514	174.402	61.229	2.210
106.0	2.210	59.018	168.213	250.662	278.513	253.536	171.087	59.681	2.210
106.5	2.210	57.692	165.340	247.125	273.650	249.557	168.213	58.355	2.210
107.0	2.431	56.145	162.466	243.147	269.893	245.357	165.119	56.808	2.210
107.5	2.431	54.819	159.372	238.947	265.914	241.599	162.466	55.482	2.210
108.0	2.431	53.492	156.498	235.631	261.714	237.842	159.593	54.155	2.210
108.5	2.431	51.945	154.067	231.652	257.735	234.305	156.498	52.608	2.431
109.0	2.431	50.619	151.193	227.895	253.757	230.547	153.624	51.282	2.431
109.5	2.431	49.292	148.319	224.137	249.999	226.789	150.972	49.956	2.431
110.0	2.431	48.187	145.888	220.600	246.020	223.032	148.319	48.629	2.431
110.5	2.431	46.861	143.235	217.285	242.041	219.274	145.446	47.303	2.431

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111.0	2.431	45.535	140.583	213.748	238.505	216.179	142.793	46.198	2.431
111.5	2.653	44.430	138.151	210.432	234.747	212.422	139.920	44.872	2.431
112.0	2.653	43.103	135.499	206.675	231.210	208.885	137.488	43.545	2.431
112.5	2.653	41.998	132.846	203.801	227.453	205.569	134.836	42.440	2.653
113.0	2.653	40.893	130.636	200.043	223.695	202.254	132.183	41.114	2.653
113.5	2.653	39.788	127.763	196.728	219.937	198.496	129.752	40.009	2.653
114.0	2.653	38.461	125.552	193.633	216.843	195.180	127.320	38.903	2.653
114.5	2.653	37.356	123.121	190.318	213.085	192.086	124.668	37.577	2.653
115.0	2.653	36.472	120.689	187.223	209.769	188.770	122.015	36.472	2.653
115.5	2.653	35.146	118.258	184.128	206.233	185.455	119.584	35.367	2.653
116.0	2.653	34.262	116.047	180.592	202.917	182.360	117.152	34.262	2.874
116.5	2.653	33.156	113.616	177.718	199.601	179.265	114.942	33.377	2.874
117.0	2.653	32.051	111.184	174.402	196.065	175.950	112.511	32.272	2.874
117.5	2.653	30.946	108.974	171.529	192.970	172.855	110.079	31.167	2.874
118.0	2.653	30.062	106.985	168.213	189.654	169.761	107.869	30.062	2.874
118.5	2.653	28.957	104.774	165.340	186.560	166.666	105.658	29.178	2.874
119.0	2.653	28.072	102.564	162.466	183.244	163.792	103.448	28.072	2.874
119.5	2.653	26.967	100.353	159.593	179.929	160.919	101.237	27.188	2.874
120.0	2.653	26.083	98.143	156.277	176.834	157.603	98.806	26.083	2.874
120.5	2.653	25.199	95.932	153.846	173.518	154.730	96.817	25.199	3.095
121.0	2.653	24.094	93.943	150.751	170.203	151.856	94.606	24.315	3.095
121.5	2.653	22.988	91.954	147.877	167.550	148.983	92.617	23.209	3.095
122.0	2.653	22.104	89.964	145.004	164.013	146.109	90.627	22.325	3.095
122.5	2.653	21.220	87.754	142.130	161.140	143.014	88.638	21.441	3.095
123.0	2.653	20.336	85.764	139.478	158.045	140.362	86.428	20.557	3.095
123.5	2.653	19.452	83.775	136.604	154.951	137.709	84.438	19.673	3.095
124.0	2.653	18.568	82.007	133.731	152.077	134.836	82.449	18.789	3.095
124.5	2.653	17.683	80.017	131.078	149.204	131.741	80.459	17.904	3.316
125.0	2.653	16.799	78.028	128.426	146.330	129.089	78.470	17.020	3.316
125.5	2.653	15.915	76.039	125.773	143.235	126.436	76.481	16.136	3.316
126.0	2.653	15.252	74.049	123.342	140.362	123.784	74.491	15.252	3.316
126.5	2.653	14.368	72.281	120.689	137.488	121.131	72.723	14.368	3.316
127.0	2.653	13.484	70.513	118.037	134.394	118.479	70.955	13.705	3.316
127.5	2.653	12.820	68.744	115.605	131.741	115.826	68.965	12.820	3.316
128.0	2.653	11.936	66.755	112.953	129.089	113.616	67.197	12.157	3.537
128.5	2.653	11.273	64.765	110.521	126.436	111.184	65.429	11.494	3.537
129.0	2.653	10.610	62.997	107.869	123.563	108.532	63.660	10.831	3.537
129.5	2.653	10.168	61.450	105.437	120.910	106.100	61.892	10.389	3.537
130.0	2.874	9.505	59.902	103.006	118.258	103.669	60.345	9.726	3.537
130.5	2.874	9.063	57.913	100.795	115.605	101.458	58.576	9.284	3.758
131.0	2.874	8.621	56.366	98.585	112.953	98.806	56.808	8.842	3.758
131.5	2.874	8.179	54.819	96.153	110.300	96.596	55.261	8.400	3.758
132.0	2.874	7.736	53.050	93.943	107.648	94.164	53.492	7.958	3.758
132.5	2.874	7.294	51.503	91.512	105.216	91.954	51.945	7.515	3.758
133.0	2.874	7.073	49.956	89.080	102.785	89.522	50.398	7.294	3.979
133.5	2.874	6.852	48.187	86.870	100.132	87.312	48.629	7.073	3.979
134.0	2.874	6.631	46.419	84.659	97.922	84.880	47.082	6.852	3.979
134.5	2.874	6.410	44.651	82.449	95.269	82.670	45.535	6.631	3.979
135.0	2.874	6.189	42.882	80.238	92.838	80.459	43.987	6.410	3.979
135.5	2.874	5.968	41.335	77.807	90.406	78.249	42.440	6.189	3.979
136.0	2.874	5.747	39.567	75.596	87.975	76.039	40.893	5.968	3.979
136.5	2.874	5.747	38.019	73.607	85.543	73.828	39.567	5.968	4.200
137.0	2.874	5.526	36.251	71.618	83.112	71.618	38.019	5.747	4.200
137.5	2.874	5.526	34.704	69.407	80.902	69.628	36.472	5.747	4.200
138.0	2.874	5.305	33.156	67.197	78.691	67.418	35.146	5.526	4.200
138.5	2.874	5.305	31.830	65.208	76.481	65.429	33.819	5.526	4.200

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139.0	3.095	5.305	30.283	63.218	74.270	63.218	32.493	5.305	4.421
139.5	3.095	5.084	28.736	61.229	72.060	61.450	31.167	5.305	4.421
140.0	3.095	5.084	27.409	59.239	69.849	59.239	29.620	5.305	4.421
140.5	3.095	5.084	26.083	57.029	67.639	57.250	28.293	5.084	4.421
141.0	3.095	4.863	24.978	55.261	65.429	55.261	26.967	5.084	4.421
141.5	3.095	4.863	23.652	53.271	63.218	53.492	25.641	5.084	4.642
142.0	3.095	4.863	22.546	51.503	61.229	51.503	24.315	5.084	4.642
142.5	3.095	4.642	21.441	49.513	59.018	49.513	22.988	4.863	4.642
143.0	3.095	4.642	20.336	47.745	57.029	47.524	21.883	4.863	4.642
143.5	3.316	4.642	19.231	45.756	55.040	45.756	20.557	4.863	4.642
144.0	3.316	4.642	18.125	43.987	52.829	43.987	19.452	4.642	4.642
144.5	3.316	4.642	17.020	42.219	50.840	41.998	18.125	4.642	4.863
145.0	3.316	4.421	16.136	40.230	48.850	40.230	17.020	4.642	4.863
145.5	3.316	4.421	15.031	38.461	46.861	38.461	15.915	4.642	4.863
146.0	3.316	4.421	14.147	36.914	44.872	36.693	14.810	4.642	4.863
146.5	3.316	4.421	13.263	35.146	42.882	34.925	13.926	4.642	4.863
147.0	3.316	4.421	12.378	33.377	41.114	33.156	13.042	4.421	4.863
147.5	3.316	4.421	11.494	31.609	39.125	31.609	12.157	4.421	5.084
148.0	3.537	4.421	10.831	29.841	37.356	29.841	11.494	4.421	5.084
148.5	3.537	4.421	10.168	28.072	35.367	28.293	10.831	4.421	5.084
149.0	3.537	4.421	9.726	26.083	33.598	26.525	10.168	4.421	5.084
149.5	3.537	4.421	9.063	24.536	31.830	24.978	9.726	4.421	5.084
150.0	3.537	4.421	8.621	22.767	30.062	23.430	9.284	4.642	5.084
150.5	3.537	4.421	8.400	21.220	28.293	21.883	8.842	4.421	5.305
151.0	3.537	4.421	7.958	19.673	26.525	20.336	8.400	4.421	5.305
151.5	3.758	4.421	7.736	18.347	24.978	19.010	8.179	4.642	5.305
152.0	3.758	4.642	7.515	16.799	23.209	17.462	7.736	4.642	5.305
152.5	3.758	4.642	7.294	15.694	21.662	16.136	7.515	4.642	5.305
153.0	3.758	4.642	7.073	14.589	19.894	14.810	7.294	4.642	5.305
153.5	3.758	4.642	6.852	13.484	18.347	13.705	7.073	4.642	5.305
154.0	3.758	4.642	6.631	12.378	16.799	12.820	6.852	4.642	5.526
154.5	3.979	4.642	6.410	11.494	15.473	11.715	6.631	4.642	5.526
155.0	3.979	4.642	6.189	10.610	14.147	10.831	6.410	4.642	5.526
155.5	3.979	4.863	6.189	9.947	13.042	10.168	6.410	4.642	5.526
156.0	3.979	4.863	5.968	9.284	11.936	9.505	6.189	4.863	5.526
156.5	4.200	4.863	5.968	8.621	11.052	8.842	5.968	4.863	5.526
157.0	4.200	4.863	5.747	8.179	10.168	8.400	5.968	4.863	5.526
157.5	4.200	4.863	5.747	7.958	9.284	7.958	5.747	4.863	5.526
158.0	4.200	4.863	5.526	7.515	8.842	7.515	5.747	4.863	5.747
158.5	4.200	5.084	5.526	7.294	8.179	7.294	5.526	4.863	5.747
159.0	4.421	5.084	5.305	6.852	7.736	6.852	5.526	5.084	5.747
159.5	4.421	5.084	5.305	6.631	7.294	6.631	5.305	5.084	5.747
160.0	4.421	5.084	5.305	6.410	7.073	6.410	5.305	5.084	5.747
160.5	4.421	5.084	5.084	6.189	6.631	6.189	5.305	5.084	5.747
161.0	4.421	5.084	5.084	5.968	6.410	5.968	5.084	5.084	5.747
161.5	4.642	5.084	5.084	5.968	6.189	5.968	5.084	5.084	5.747
162.0	4.642	5.305	5.084	5.747	5.968	5.747	5.084	5.084	5.747
162.5	4.642	5.305	5.084	5.526	5.747	5.526	5.084	5.305	5.747
163.0	4.642	5.305	5.084	5.305	5.526	5.526	5.084	5.305	5.968
163.5	4.642	5.305	5.084	5.305	5.305	5.305	5.084	5.305	5.968
164.0	4.863	5.305	5.084	5.084	5.305	5.084	5.084	5.305	5.968
164.5	4.863	5.305	5.084	5.084	5.084	5.084	5.084	5.305	5.968
165.0	4.863	5.526	5.084	5.084	5.084	5.084	5.084	5.305	5.968
165.5	4.863	5.526	5.084	5.084	4.863	5.084	5.084	5.526	5.968
166.0	5.084	5.526	5.305	5.084	4.863	4.863	5.305	5.526	5.968
166.5	5.084	5.526	5.305	5.084	4.863	4.863	5.305	5.526	5.968

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CANDELA TABULATION - (Cont.)

167.0	5.084	5.526	5.305	4.863	4.642	4.863	5.305	5.526	5.968
167.5	5.084	5.526	5.305	4.863	4.642	4.863	5.305	5.526	5.968
168.0	5.084	5.526	5.305	4.863	4.642	4.863	5.305	5.526	5.968
168.5	5.305	5.747	5.305	4.863	4.642	4.863	5.305	5.526	5.968
169.0	5.305	5.747	5.305	5.084	4.642	5.084	5.305	5.747	5.968
169.5	5.305	5.747	5.305	5.084	4.642	5.084	5.305	5.747	5.968
170.0	5.305	5.747	5.305	5.084	4.642	4.863	5.305	5.747	5.968
170.5	5.305	5.747	5.305	5.084	4.642	5.084	5.305	5.747	5.968
171.0	5.305	5.747	5.526	5.084	4.642	5.084	5.305	5.747	5.968
171.5	5.305	5.747	5.526	5.084	4.642	5.084	5.526	5.747	5.968
172.0	5.305	5.747	5.526	5.084	4.642	5.084	5.526	5.747	5.968
172.5	5.526	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
173.0	5.526	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
173.5	5.526	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
174.0	5.526	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
174.5	5.526	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
175.0	5.526	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
175.5	5.747	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
176.0	5.747	5.747	5.526	5.084	4.863	5.084	5.526	5.747	5.968
176.5	5.747	5.747	5.526	5.305	4.863	5.084	5.526	5.747	5.968
177.0	5.747	5.968	5.526	5.305	4.863	5.084	5.526	5.968	5.968
177.5	5.747	5.968	5.526	5.305	4.863	5.084	5.526	5.968	5.968
178.0	5.747	5.968	5.526	5.305	4.863	5.305	5.526	5.968	5.968
178.5	5.747	5.968	5.526	5.305	4.863	5.305	5.526	5.968	5.968
179.0	5.968	5.968	5.526	5.305	4.863	5.305	5.747	5.968	5.968
179.5	5.968	5.968	5.526	5.305	4.863	5.305	5.526	5.968	5.968
180.0	5.526	5.526	5.526	5.526	5.526	5.526	5.526	5.526	5.526

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_63W_4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1034.77	N.A.	11.40
0-30	2173.65	N.A.	24.00
0-40	3524.24	N.A.	38.80
0-60	6203.85	N.A.	68.40
0-80	7995.75	N.A.	88.10
0-90	8421.79	N.A.	92.80
10-90	8152.15	N.A.	89.80
20-40	2489.46	N.A.	27.40
20-50	3882.06	N.A.	42.80
40-70	3733.56	N.A.	41.10
60-80	1791.9	N.A.	19.70
70-80	737.95	N.A.	8.10
80-90	426.04	N.A.	4.70
90-110	417.68	N.A.	4.60
90-120	530.52	N.A.	5.80
90-130	598.09	N.A.	6.60
90-150	647.36	N.A.	7.10
90-180	653.40	N.A.	7.20
110-180	235.72	N.A.	2.60
0-180	9075.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	269.63
10-20	765.14
20-30	1138.87
30-40	1350.59
40-50	1392.6
50-60	1287.01
60-70	1053.95
70-80	737.95
80-90	426.04
90-100	246.70
100-110	170.98
110-120	112.83
120-130	67.57
130-140	35.03
140-150	14.25
150-160	4.02
160-170	1.51
170-180	0.52

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_63W_4000K_.IES

UGR TABLE - CORRECTED

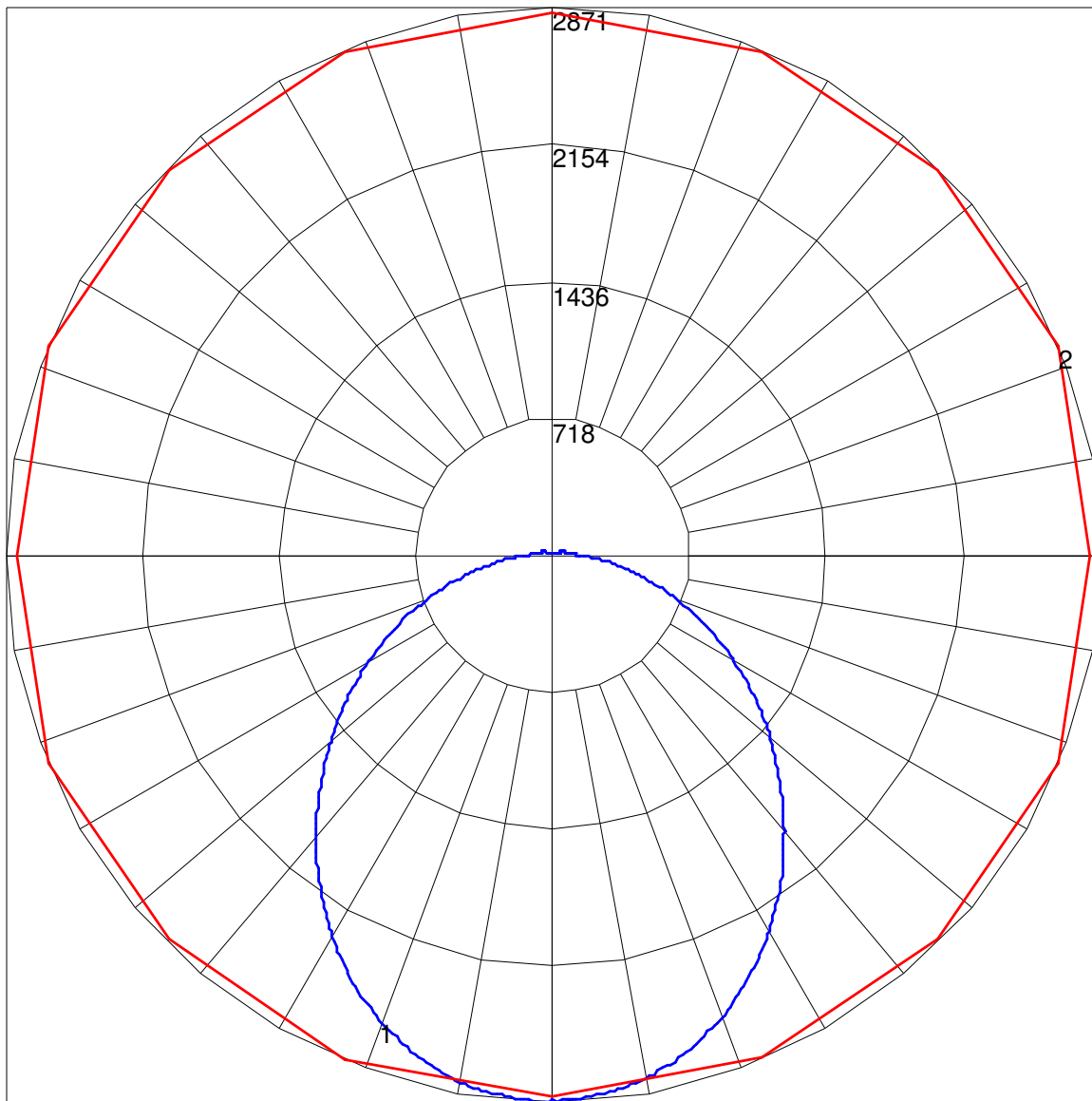
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.6	19.1	18.1	19.6	20.1	21.3	22.8	21.7	23.3	23.7
	3H	18.9	20.3	19.3	20.7	21.2	23.7	25.1	24.2	25.5	26.1
	4H	19.2	20.6	19.7	21.0	21.6	24.8	26.1	25.3	26.6	27.1
	6H	19.4	20.7	20.0	21.2	21.7	25.9	27.1	26.4	27.6	28.2
	8H	19.5	20.7	20.0	21.2	21.7	26.5	27.6	27.0	28.2	28.7
	12H	19.5	20.6	20.0	21.1	21.7	27.1	28.2	27.6	28.7	29.3
4H	2H	18.6	19.9	19.1	20.4	20.9	21.5	22.8	22.0	23.3	23.9
	3H	20.0	21.2	20.6	21.7	22.2	24.1	25.2	24.6	25.8	26.3
	4H	20.5	21.5	21.0	22.1	22.7	25.3	26.4	25.9	26.9	27.5
	6H	20.8	21.7	21.4	22.3	22.9	26.6	27.5	27.2	28.1	28.7
	8H	20.9	21.7	21.4	22.3	22.9	27.2	28.1	27.8	28.7	29.3
	12H	20.9	21.7	21.5	22.3	22.9	27.9	28.7	28.5	29.3	29.9
8H	4H	21.2	22.0	21.7	22.6	23.2	25.4	26.3	26.0	26.9	27.5
	6H	21.6	22.3	22.2	22.9	23.6	26.8	27.5	27.4	28.1	28.8
	8H	21.8	22.4	22.4	23.0	23.6	27.6	28.2	28.2	28.8	29.4
	12H	21.8	22.4	22.4	23.0	23.7	28.4	28.9	29.0	29.5	30.2
12H	4H	21.3	22.1	21.9	22.7	23.3	25.4	26.2	26.0	26.8	27.4
	6H	21.9	22.5	22.5	23.1	23.8	26.8	27.5	27.4	28.1	28.7
	8H	22.1	22.6	22.7	23.2	23.9	27.6	28.2	28.2	28.8	29.5

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 2871.341 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.)